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SOIL SAMPLING
MONITORING WELL INSTALLATIONS
AND
INITIAL GROUNDWATER SAMPLING
AT
1000 NORTH VASCO ROAD
LIVERMORE, CALIFORNIA

AUGUST 16, 1995

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

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1.0 INTRODUCTION

The property at 1000 North Vasco Road in Livermore, 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 location of the 1000 North Vasco Road property is shown in Figure 1. The property owner retained H₂OGEOL to conduct this investigation.

Tank removal was reported by Grayland Environmental in their report dated December 28, 1994. ACHCSA reviewed the Grayland report and requested submittal of a Preliminary Site Assessment workplan. A workplan for the installation of three monitoring wells was prepared and was submitted to ACHCSA on April 10, 1995. The ACHCSA approved the workplan in their letter dated April 14, 1995, with the addition of the collection and analysis of soil samples.

1.1 PRESENT INVESTIGATION

The purpose of this investigation is twofold: to determine groundwater flow direction (more precisely direction of groundwater gradient, since the horizontal hydraulic conductivity anisotropy will remain unknown) of the first encountered water bearing formation, 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 in soil and groundwater.

The present investigations consisted of drilling three soil sampling boreholes to depths of about seven feet and collecting soil samples from immediately above the first encountered

groundwater (i.e., in the capillary fringe); drilling and installation of three monitoring wells to depths of about fifteen feet; and collecting and analyzing groundwater samples from the three monitoring wells.

All three of the monitoring wells are located within the fenced or otherwise demarcated property bounds(Figure 2). A ZONE 7 Water Agency (also known as Zone 7 Alameda County Flood Control and Water Conservation District) Drilling Permit Application was filed on May 05, 1995 and issued on May 11, 1995 (Attachment A). Upon completion of the well construction, a California Department of Water Resources (DWR) form 188 was filled out for each 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 the permit cover letter). DWR forms 188 are also included in Attachment A.

2.0 FIELD OPERATIONS AND INVESTIGATIVE METHODS

Field investigations consisted of the installation of three boreholes. Two 4-inch diameter, approximately seven foot deep soil sampling boreholes MW-1 and MW-2 were hand augered on July 17, 1995 and one (MW-3) on July 18, 1995 for the indicated purpose. Each of these boreholes were successfully deepened to fifteen feet, reamed to 6.25-inch diameter, and completed into monitoring wells MW-1, MW-2, and MW-3.

2.1 Lithologic Logging

During augering of each 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 boreholes. Logging continued when each monitoring well installation borehole was extended to final depth (15.5± feet). Borehole lithologic logs with well completion diagrams are included in Attachment B.

2.2 Soil Sampling

The soil sampling boreholes were drilled with 4-inch AMS soil augers. The hand augered boreholes were advanced until an increase in moisture content indicated that the water table was being approached. In each of the three boreholes this occurred at a depth of about seven feet. After sampling, each auger hole was advanced to the final total depth.

The soil samples were collected from the bottom of the initially 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 tubes were labeled and then placed onto ice (water frozen in a 2-liter plastic bottle) in an ice chest while awaiting transport to Chromalab, Inc., a state certified laboratory, for analysis following proper chain of custody documentation (presented in Attachment C with the laboratory analytical report).

2.3 Monitoring Well Installation

Well construction commenced after each hand augered borehole was reamed to is final diameter. A ten foot section of 2-inch inside diameter schedule 40 PVC well casing and slotted screens was installed into each monitoring well borehole. Each 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 about one half foot above the screen. After the required amount of sand was added to the annulus, a one half 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. Well MW-3 was secured with a locking cap and traffic rated box set onto concrete and sloped to drain away from Wells MW-1 and MW-2 were secured with stove-pipe type protective covers. The three monitoring wells were 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-1	6.25	2	15.8	15.68	5-15
MW-2	6.25	2	15.1	15.26	5-15
MW-3	6.25	2	15.5	15.05	5-15

Each monitoring well was developed on July 24, 1995 by the surge and pump technique. 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 more than 72 hours after the placement of the bentonite and the pouring of the neat cement grout seal, as stipulated in the April 14, 1995 ACHCSA letter.

The wells were surveyed by Ron Archer Civil Engineer, Inc. on July 25, 1995. The well locations are shown on Figure 2 and the surveyor's report in included as Attachment D.

2.4 Monitoring Well Purging and Sampling

The monitoring wells were purged by pumping with an "ES-60" submersible pump marketed for monitoring well purging by Enviro-Tech Services Company of Martinez, California. Field measured water quality parameters were measured using a Cambridge Scientific Industries Hydac $^{\text{TM}}$ Conductivity Temperature pH Tester. Well purging activities and the field measured water quality parameters are documented in Attachment E. For each well, purging continued until specific conductance stabilized to +/-5% on consecutive readings.

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-D (nonvolatile) analysis were collected in one liter amber bottles directly from the end of the pump discharge tubing. 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 Chromalab, Inc. of Pleasanton, California, a state certified laboratory. Laboratory reports and Chain-of-Custody documentation are contained in Attachment F.

3.0 RESULTS AND DISCUSSION

3.1 Geology and Borehole Lithology

The 1000 North Vasco Road property lies near the northern end of the Altamont Creek - Arroyo Seco piedmont, near an unnamed intrafan wash, now modified as a flood control channel. The first encountered water bearing unit is a shallow portion of the Altamont Creek alluvial fan aquifer. The ground surface is at an elevation of about 525-530 feet above mean sea level and slopes gently northwestward (Figure 1) toward the flood control channel.

Each of the three monitoring well boreholes encountered clayey sand of the Altamont Creek alluvial fan aquifer at depth of seven feet, beneath a stiff clay. The clay content of the clayey sands generally decreased with depth and at MW-1 and MW-3 was gradational into a well graded sand.

The entire stratigraphic section encountered at MW-2 and MW-3 was yellowish brown to dark yellowish brown. There were no odors detected in the soils from either of these two monitoring well boreholes.

At MW-1 the uppermost portion (7 to 10 foot depth) of the clayey sand had a distinct, though faint, diesel odor and several minute globules of diesel were visibly present in the sands. The MW-1 borehole clayey sands had been partially gleyed as a consequence of the reducing conditions imposed by the presence of petroleum hydrocarbons, resulting in a mottled coloration of greenish gray and yellowish brown. The yellowish brown coloration dominated at increasing depths and the well graded sands were not mottled.

3.2 Soil Analytical Results

Soil samples were submitted to Chromalab, 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 for the MW-2 and MW-3 samples were all reported by the laboratory as not detected. These results correlate favorably with the remedial excavation perimeter sample analytical results reported by Grayland. The non detectable TPH-G+BTEX in the vicinity of the former gasoline tank and dispenser locations are consistent with the non-detectable to low concentrations in the final remedial excavation confirmation samples.

The diesel tank and dispenser location is represented by the MW-1 sample. The laboratory reported TPH-G and benzene, toluene, and ethylbenzene as not detected. The sample contained:

TPH-D 55 mg/Kg Total Xylenes 6.4 μ g/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).

Both the MW-1 TPH-D and Total Xylenes concentration are generally lower than the remedial excavation confirmation samples reported by Grayland.

3.2 Groundwater Flow Direction and Gradient

The regional shallow groundwater flow beneath the Altamont Creek - Arroyo Seco piedmont is down the topographic slope toward the main portion of the Livermore Valley groundwater basin. Local to the 1000 North Vasco Road property, shallow groundwater flow is

controlled by the adjacent flood control channel. Future shallow groundwater flow may also be influenced by sewer works in process of construction, and possibly other cultural features.

Depth to water in each monitoring well was measured to \pm 0.01 feet using a Solinst Model 101 water level meter on July 24, 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 JULY 24, 1995

Well Number	Top of Casing Elevation (feet, msl)	Time of Depth measurement	Depth to Water (feet)	Groundwater Surface Elevation (feet, msl)
MW-1	526.50	08:45	8.68	517.82
MW-2	526.83	08:43	8.17	518.66
MW-3	526.00	08:40	7.60	518.40

The approximate groundwater flow direction for the triangle with a well at each apex is N 59.8° E at a gradient of 0.00653. Figure 2 is a potentiometric surface map showing well locations and groundwater surface contours as measured on July 24, 1995.

3.3 Groundwater Analytical Results

The groundwater surface at each monitoring well was checked for free product, observation of sheen, and odor. No free product or sheen was found at MW-2 and MW-3. Groundwater from monitoring well MW-1 possessed a slight sheen and a faint diesel odor.

Groundwater samples were submitted to Chromalab, 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 F.

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 sample fuel hydrocarbon constituents are summarized in the following table, with all concentrations are expressed in micrograms per liter ($\mu g/L$):

Well	TPH-D	TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xylenes
MW-1	910	<0.5	<0.5	<0.5	<0.5	<0.5
MW- 2	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW- 3	<50	60	<0.5	<0.5	<0.5	<0.5
Californ	nia*Primar na	y MCL's na	1	na	680	1,750
US E.P.A	A. Primary na	MCL's na	5	1,000	700	10,000

There were no fuel hydrocarbon constituents exceeding an identified published regulatory threshold.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The soil sample collected near the groundwater interface from the borehole for MW-1 was found to contain diesel at a concentration below identified levels of concern (i.e., <100 ppm). The other two boreholes did not contain detectable concentrations of petroleum hydrocarbons. MW-1 is downgradient, and immediately adjacent to the diesel tank and dispenser remedial excavation and is consistent with the excavation perimeter confirmation sample analytical results.

Groundwater samples from the monitoring wells were found not to contain detectable concentrations of the aromatic hydrocarbons benzene (B), toluene (T), ethylbenzene (E), and total xylene isomers (X). The groundwater sample from MW-1 was found to contain diesel at a concentration of 910 μ g/L and MW-3 was found to contain TPH-G at a concentration of 60 μ g/L. However, there are no published MCL's for these constituents. The three monitoring wells should be monitored quarterly for fuel hydrocarbons (TPH-D and TPH-G + BTEX), as required by ACHCSA guidelines.

5.0 PROFESSIONAL CERTIFICATION

This report on additional boreholes and monitoring wells at the property at 1000 North Vasco Road in Livermore, 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. 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:

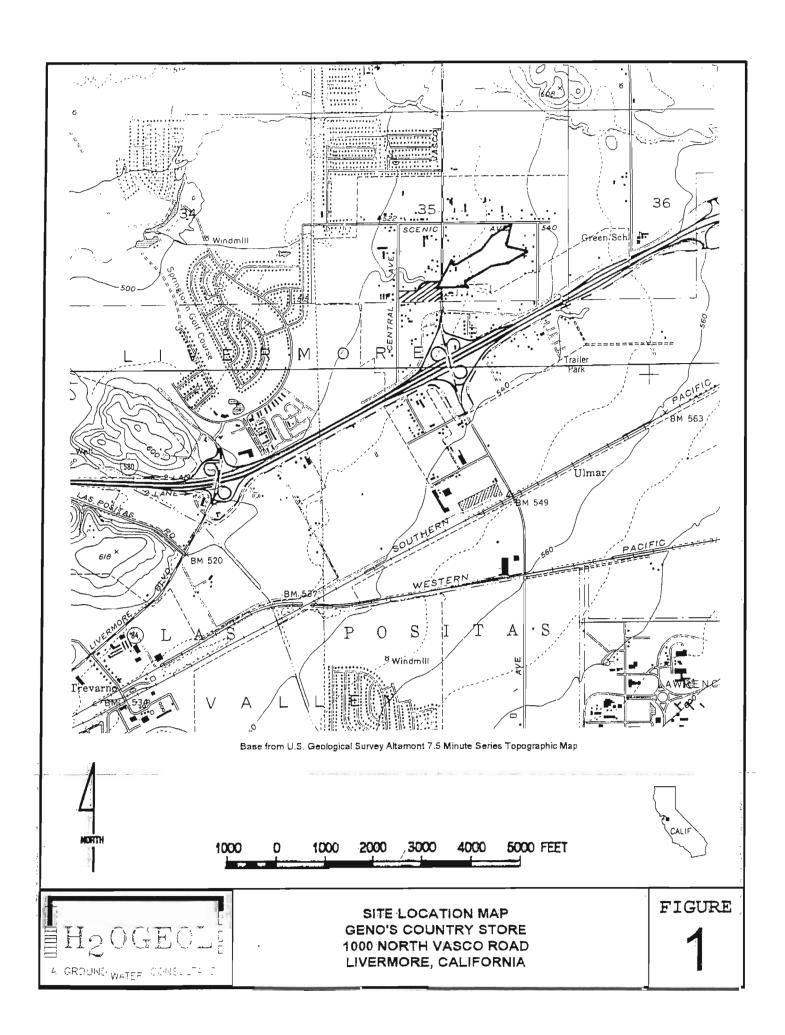
Gary D. Lowe, R.G., C.E.G., C.H. Principal, Hydrogeologist

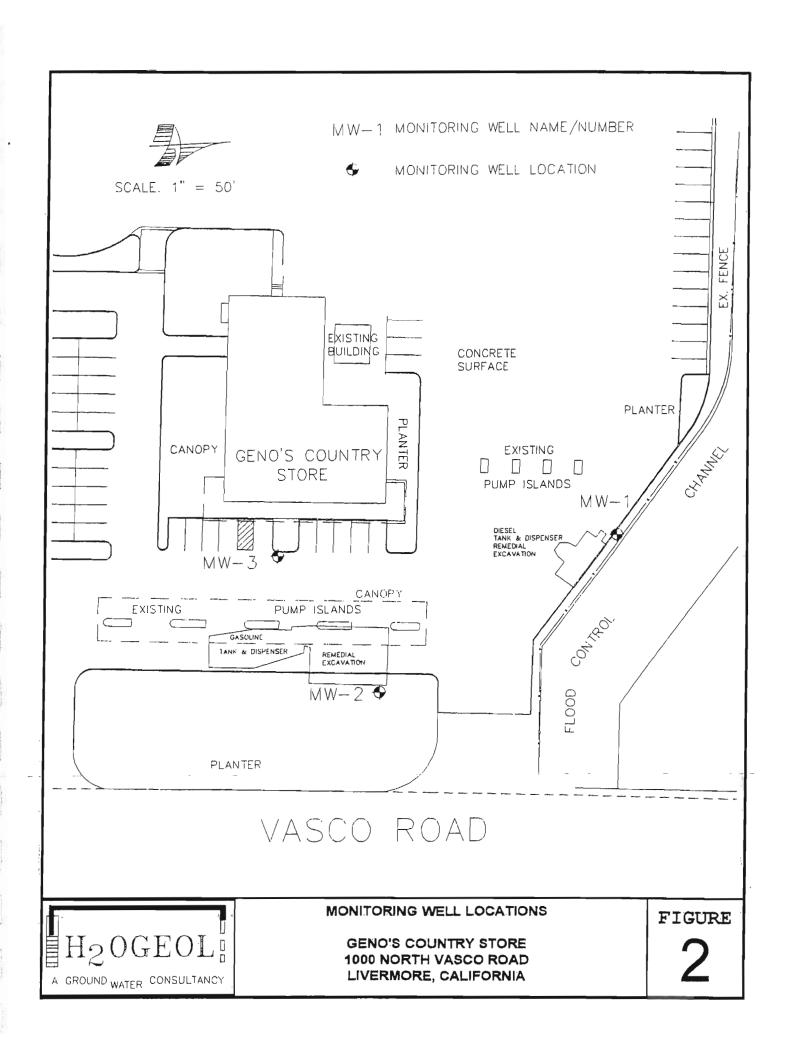
H₂OGEOL A GroundWater Consultancy

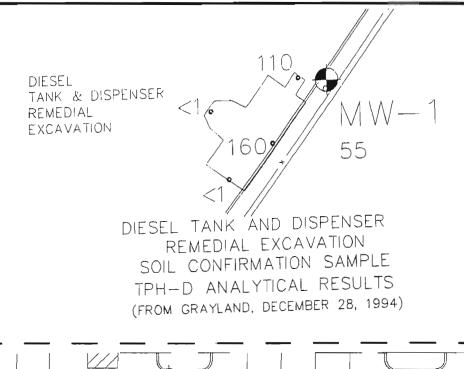
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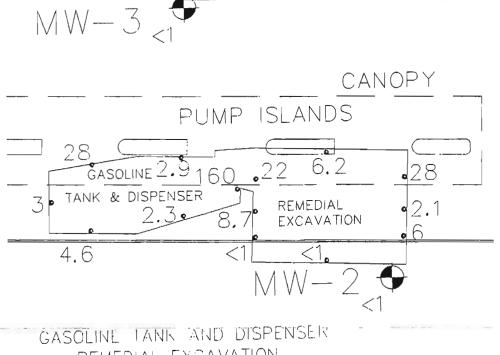
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GASOLINE TANK AND DISPENSER

REMEDIAL EXCAVATION

SOIL CONFIRMATION SAMPLE

TPH-G ANALYTICAL RESULTS

(FROM GRAYLAND, DECEMBER 28, 1994)

ALL CONCENTRATIONS IN mg/kG (ppm)

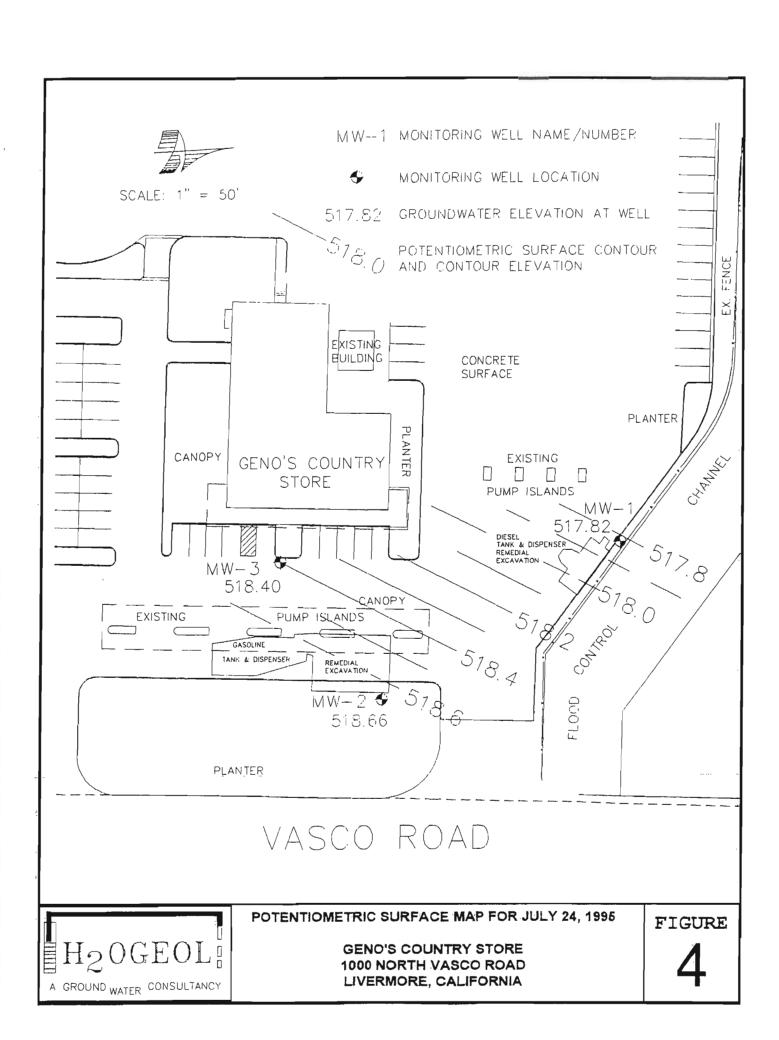
H20GEOL B

DIESEL AND GASOLINE TANK AREAS SOIL SAMPLE ANALYTICAL RESULTS (SEE FIGURE 2 FOR LOCATIONS)

> GENO'S COUNTRY STORE 1000 NORTH VASCO ROAD LIVERMORE, CALIFORNIA

FIGURE

3





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

ATTACHMENT A

PERMITS/FORMS

ZONE 7 WATER AGENCY
DRILLING PERMIT APPLICATION/
PERMIT No. 95296

AND

CALIFORNIA DEPARTMENT OF WATER RESOURCES
FORM 188

No. 193173 FOR MW-1

No. 193174 FOR MW-2

No. 193174 FOR MW-2 No. 193175 FOR MW-3

ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

5997 PARKSIDE DRIVE | PLEASANTON, CALIFORNIA 94588-5127 |

PHONE (510) 484-2600 FAX (510) 462-3914

May 12, 1995

H2O Geological P.O. Box 2165 Livermore, CA 94551-2165

Gentlemen:

Enclosed is drilling permit 95296 for a monitoring well construction project at 1000 North Vasco Road in Livermore for Geno Macedo.

Please note that permit condition A-2 requires that a well construction report be submitted after completion of the work. The report should include drilling and completion logs, location sketch, and permit number.

If you have any questions, please contact Wyman Hong at extension 235 or me at extension 233.

Very truly yours,

Craig A. Mayfield

Water Resources Engineer III

WH: djf encls.



ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE

GNATURE Say 1 Total Date 65/05/45

PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2600 FAX (510) 462-3914

91992

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE	FOR OFFICE USE
OCATION OF PROJECT 1000 North Nasco Road	
Livermore, Ca	LOCATION NUMBER
DLIENT Name MY. Geno Macedo Geno's Delic Address 1000 Harry May Voice 449-3841 Tity Luermone CA Zip 9450	PERMIT CONDITIONS Circled Permit Requirements Apply
APPLICANT	
Name Gary P. Louis R.b. CSG	A. GENERAL
Aba Harrio Fax 373 92 22 Address P. O. 130 x 216 5 Voice 373 92 11 City Livernove A Zip 94 551 - 216 5 YPE OF PROJECT We nstruction General Contamination Water Supply Contamination Monitoring (3) Well Destruction	1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date. 2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects. 3. Permit is void if project not begun within 90 days of approval date. B. WATER WELLS, INCLUDING PIEZOMETERS 1. Minimum surface seal thickness is two inches of cement grout
ROPOSED WATER SUPPLY WELL USE	placed by tremie.
Municipal Industrial Other Municipal Irrigation PRILLING METHOD:	 Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for
Mud Rotary Air Rotary Auger V hollow file in able Other Other If Hand ASE Dulling C.57 62934 DRILLER'S LICENSE NO. 16 40 How Stem say 1 157 VELL PROJECTS VELL PROJECTS	heavy bentonite and upper two feet with compacted material. In
Drill Hole Diameter 6 in. Maximum	E. WELL DESTRUCTION, See attached.
Casing Diameter 2 in. Depth 16-10tt. Surface Seal Depth 5 ft. Number 3 / P.	robably 15ft.
GEOTECHNICAL PROJECTS	
Number of Borings Maximum Hole Diameter in. Depth ft.	
STIMATED STARTING DATE 06/14/95 TED COMPLETION DATE 06/10/45	Approved Milman How Datell May 95
hereby agree to comply with all requirements of this permit and Alameda ounty Ordinance No. 73-68.	Wyman Hong

CONFIDENTIAL

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

REMOVED



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ATTACHMENT B

BOREHOLE LITHOLOGIC LOGS

MW-1

MW-2

MW-3

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BOREHOLE LITHOLOGIC LOG

H ₂ OGEOL:	
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A GROUND WATER CONSULTANCE BOREHOLE No. MW-1 Sheet 1 of 1	.
Project No.: Date: 07/17-18/95 Drilling Co. ASE Drilling Drill Model Iwan Auger	-
Client: Geno's Country Store Drilling Method - Hand Operation Borehole Diameter 6.25-in	.
Location: 1000 North Vasco Road Ground Surface Elevation 526.3 Datum: ground surface	.
Livermore, California Borehole MW-1 was completed as a monitoring well MW-1	.
Logged by: GDL Driller: RCV/GDL Water Level 8.68	
	\dashv
Structure A V Distruction A V Date A Date A Distruction A Date A Distruction A Distruc	
Date 7/24/95 Date 7/24/95 Field Soil Description	
め面 立主色 凸色 の めのど じめか 当めか Field Soil Description CL Landscape fill dark brown 7.6YR 3/4 very sandy silty clay.	2
	JE.
Olive 5Y 4/3 gravelly sandy silty clay, pebbles to 2 cm	2
СН СН	6
3	casi
Neat Cement Grout Dark yellowish brown 10YR 3/4 silty stiff clay. Faint diesel odor.	ng a
	Par .
Berttorite Seal	Infilling 2-inch PVC casing and screen
Trace gravels	
7-7,6 Ft.	
Greenish gray 5G 5/1 mottled yellowish brown 10YR 5/6 gravelly very clayey very fine to medium sand. Faint diesel odor.	
	8
Decreasing clay with depth	screen openings = 0.02
SC No odor from 10 foot to total depth.	
11-11-11-11-11-11-11-11-11-11-11-11-11-	
LONESTAR No. 3 Sand Yellowish brown 10YR 5/6 clayey very fine to medium sand.	gg
12- Tellowish blown for R old clayey very line to mediam early.	
13 SW Yellowish brown 10YR-5/6 very fine to medium sand.	
	<u> </u>
CH Yellowish brown 10YR 5/6-stiff play.	
75 Yellowish brown 10YR 5/6 very clayey very fine to medium sand.	
Total Depth 15.8 (below reference mark)	
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24 24	

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BOREHOLE LITHOLOGIC LOG

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Client:	Geno's	Country	— ∕Stor		-			Drilling	Method - Hand (Operation	Во	rehole Diame	eter	6.25-ir	١		
Locatio	n: 1000	North V	asco	Road				Ground	Surface Elevation	n I	526.3	Datum	ground	surface			
	Live	more, C	Callfor	mia				Borehol	e MW-3 was co	mpleted a	as a monit	oring well M	W-3				
Logged	by:	GDL	Dril	ler:	RCV/G	DL											
							Water L	evel	7.60								
nts	⋖						Time		8:40								
Sampling Blowcounts	PIDYFID HNu/OVA	Depth test	mple	ii imple imber	Graphic Soïl Symbol	USCS Soil Symbol	Date		7/24/95								
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						СН	$\overline{}$		10YR 5/6 sandy		у.		Neat Co	ement Grou		grig	0.00
		4-	 	-					content with dep 10YR 5/6 claye							an	1888
		5					TOMOTING	,,, DIO 1111	TOTAL OF GRAYE	y ca na.			Ве	ntonite Sea	200	Sp	
			\perp			sc			10YR 5/4 claye	y sand.					1.00	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	
\vdash		6	╁	 		7	Decrese	ing clay	with depth.						1.0	n.	
		7-										·					
		,		7-7.6 Ft		SC/				F	inst Encount	ered Water at 7	7.85 Feet		l 🏋		1
	-	 8				sw	Yellowis	h brown	10YR 5/4 very						3		
		9	_				Pebbles	to 1 cm.							}	Scre	
		-10-			100	sw			10YR 5/4 pebbl	y fine to	coarse sar	nd				enc	
		-11-	\vdash				Pebbles	to 2X7 c	om,							pen	
			\vdash									LC	DNESTAR	No. 3 Sand		ngs	
		-12-					Yellowis	h brown	10YR 5/4 stiff s	andy clay	y					0	
		-13-	 	-		СН									3	8	
		-14-														screen openings = 0.020 inch	
		-15-															
					Totel De	epth 15.5						Total We	Ni Depth ≍	15.05 Fee1.			_
	:	—16 –			(below					_		(beid	ow refere	nce mark)			
		-17-										Well completed	with 8-inc	h flush box.			
		-1.8-															
		-19-															
		-20-															
		-21 <u>-</u>	\vdash														
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		-23-	\vdash			}					_						
		-24				ļ											
		-25-		_		ŀ											



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

ATTACHMENT C

SOIL SAMPLE ANALYTICAL RESULTS CHROMALAB, INC. SUBMISSION # 9507201

CHROMALAB, INC.

Environmental Services (SDB)

July 25, 1995

Submission #: 9507201

H20 GEOL

Atten: Gary Lowe

Project: GENO'S COUNTRY STORE

Received: July 19, 1995

re: 3 samples for Gasoline and BTEX analysis.

Method: EPA 5030/8015M/8020

Sampled: July 17, 1995

Matrix: SOIL

Run: 7705-4 Analyzed: July 20, 1995

Spl #	Sample ID	Gasoline (mg/Kq)	Benzene (ug/Kg)	Toluene (ug/Kq)	Ethyl Benzene (ug/Kq)	Total Xylenes (uq/Kg)
96287	MW-1@ 7-7.5'	N.D.	N.D.	N.D.	N.D.	6.4
96288	MW-2@ 7-7.5'	N.D.	N.D.	N.D.	N.D.	N.D.
96289	MW-3@ 7-7.5'	N.D.	N.D.	N.D.	N.D.	N.D.
port	ing Limits	1.0	5.0	5.0	5.0	5.0
Llank		N.D.	N.D.	N.D.	N.D.	N.D.
	Spike Result (%)	92	97	96	99	100

Thach

Chemist

Ali Kharrazi

Organic Manager

CHROMALAB, INC.

Environmental Services (SDB)

July 31, 1995

Submission #: 9507201

H20 GEOL

Atten: Gary Lowe

Project: GENO'S COUNTRY STORE

Received: July 19, 1995

re: 3 samples for Diesel analysis.

Method: EPA 3550/8015M

Sampled: July 17, 1995

Matrix: SOIL

Extracted: July 20, 1995

Run: 7749-D

Analyzed: July 22, 1995

			REPORTING	BLANK	BLANK SPIKE
		DIESEL	LIMIT	RESULT	RESULT
Spl #	Sample ID	(mg/Kg)	(mg/Kq)	(mg/Kq)	(%)
96289	MW-3@ 7-7.5!	N.D.	1 0	N.D.	92

Sampled: July 17, 1995

Matrix: SOIL Extracted: July 20, 1995

Run: 7749-D Analyzed: July 24, 1995

			REPORTING		BLANK SPIKE
		DIESEL	LIMIT	RESULT	RESULT
Spl #	Sample ID	(mg/Kg)	(mq/Kq)	(mg/Kg)	(%)
96287	MW-1@ 7-7.5'	55	10	N.D.	92
	For above sample:	REPORTING LIMIT RAISED	10X DUE TO	DILUTION.	
96288	MW-2@ 7-7.5'	N.D.	1.0	N.D.	92

Dennis Mayugba

Chemist

Organic Manager

				_							
H_2OGEOL	4 CROUN	Dwire	CONSIII	TANCY			CHAIN O				
P.O. BOX 216		PWATER	CONBOL	IANCI		DATE Sample S	: 07/19/95	PAGE		of	-1-
LIVERMORE,		A 94551-216	35				Country Stor	е			-
SAMPLER(S):	Gary D. Lov	we & Richard	Voret				rth Vasco R e, California				
OAIVII EEN(O).	Gary D. Lov	We de Michard	70181		-	LIVERTION	e, Camornia				ŀ
SAMPLER'S SIGNA	TURE:	cy A 1					ANALYTE		T		
	SAMPLE R	ECIEPT:									
τοτ	AL No. of CONTAIN	NERS				+ ec					
CHA	AIN OF CUSTODY	SEALS	_		seel	solir 302)					တွ ်
REC	D GOOD CONDIT	ION/COLD			Die	s as Gasoli 8020/602)					NEH
CON	NFORMS TO RECO	PRD			18 BE	38 at				. 1	ITAI
LA	B NO.				irbor	Irbor A					CO
					Total Petroleum Hydrocarbons as Diesel	Total petroleum Hydrocarbons as Gasoline BTEX (EPA 5030/8015M + 8020/602)					NUMBER OF CONTAINERS
SUBM #:	950720	1 <i>RFP:</i> (BC		H YG	Hyd 30/8					1BER
CLIENT:					eum (RO.	3dm				.	3
DUE:	OB/02/9	75			Petroleum Hy	itrol				ı	_
REF. ##94	2977				otal Pe	al pe					
FAX RESULTS TO (510) 373-9222				Tot	Total p					
SAMPLE ID.		TIME	MATRIX	LAB ID.	I				\vdash		
MW-1 @ 7-7.5 Ft.	7/17/95	08:15	SOIL		X	X					1
MW-2 @ 7-7.5 Ft.	7/17/95	11:15	SOIL		×	X					1
MW-3 @ 7-7.5 Ft.	7/18/95	14:26	SOIL		х	X					1
								_			
		-									\neg
									\Box	\dashv	\neg
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	Please	note special	pricing							\dashv	
	.] r	er Gary Cook	·.							\Box	`
	•	10-Day TAT		:							
RELINQUISHED BY:	d			RELINQUISHE	D BY:	-18		0			
SIGNATURE	Lan	yll 2	4	SIGNATURE	4	Myn	- JE - J	arc	<u> </u>	2 - <u>/ S</u>	5
PRINTED NAME	Gary D. Low	/ '	106-15	PRINTED NAM	ır Mı	yrna R. Lowe			TIME		
I MINITED INAME			DATE	FAIRTED NAIV			<u>′</u>	_	DATE		- 1
COMPANY	H ₂ 0GE0L		07/1.9/95	COMPANY	h	I ₂ 0GEOL		0	7/19/9	15	
RECEIVED BY:		2 1	, , ;	RECEIVED BY	LABORA	TPRY::		// .			\neg
SIGNATURE	11/21	al Ja	12	SIGNATURE		aris,	Kersut	ey_	//	7	
PRINTED NAMÉ	Myrna R. Lov	we //	TIME !	PRINTED NAM	IE (Kina	Kou	0 -	TIME 7//9	/9	+
THE PERMIT	-		DATE	, , , , , , , , , , , , , , , , , , ,		-111	1 (6/60		DATE	L	٠ <u> </u>
COMPANY	H_2OGEOL		07/19/95	COMPANY	Chroma	lab, Inc.		O_{0}	7/19/9	5	



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

ATTACHMENT D

WELL SURVEYOR'S REPORT RON ARCHER, CIVIL ENGINEER, INC.

RON ARCHER

CIVIL ENGINEER INC.

CONSULTING . PLANNING . DESIGN . SURVEYING

4133 Mohr Ave., Suite E • Pleasanton, CA 94566 [510] 462-9372



JULY 25, 1995

JOB NO 2308

ELEVATIONS OF EXISTING MONITORING WELLS AT THE GENO'S COUNTRY STORE FACILITY, LOCATED AT 1000 NORTH VASCO ROAD, CITY OF LIVERMORE, ALAMEDA COUNTY, CALIFORNIA.

FOR: H20 GEOL

BENCHMARK: VAS-NOR

A FOUND U.S.G.S. BRASS DISK STAMPED "VAS-NOR", LOCATED IN THE TOP OF CURB ABOVE A CATCH BASIN AT THE SOUTHWEST CORNER OF THE INTERSECTION OF VASCO ROAD AND NORTHFRONT ROAD. ELEVATION TAKEN AS 527.04 M.S.L.

MONITORING WELL DATA TABLE

WELL DESIGNATION	TOP OF CASING ELEVATION	TOP OF BOX ELEVATION
DESIGNATION	ELEVATION	ELEVATION
MVV-1	526.50	526.26 (GROUND)
MW-2	526.83	526.61 (GROUND)
MW-3	526.00	526.32 (BOX)

SCALE: 80' No. 23721 BONGS XS PANCING **BUILTING** FLOOD EX FENCE EXISTING DIRT GENO'S COUNTRY PLANTER STORE PLANTER D PLANTER EX FENCE MW-2 PLANTER VASCO ROAD PAVENENT GENO'S COUNTRY STORE

1000 NORTH VASCO ROAD,
CITY OF LIVERMORE,
ALAMEDA COUNTY, CALIFORNIA
FOR: H₂O GEOL RON ARCHER CML ENGINEER INC. + 4133 MOHR AVE. SUITE E + PLEASANTON CA. 94566 25, DATE JULY 1995 JOB NO. 2308



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

ATTACHMENT E

				e: <u>/</u>	000 N.	U	0.00 Rd	<u>,</u> D	ate: 7/	124/55
Sampled by:		CV/6DI	-	Weat	her Conditions	s:	<u> </u>	cr, 680F	bre	234
Well Locatio	n: <u>/</u>	- a dscepie	7	_ Well	Casing Diame	iter:	<u>z"</u>	Depth of Well C	asing: _	
Measuring P	oint: <u>To</u>	p of PVC Casing	_ Initial	Depth to V	Vater:		Fina	Depth to Water:		
Casing Volum	me (1 v	ol./ 3 vol):					Well Boreho	ole Volume:		
Purging Method: Centrifugal Pump/Peristaltic Pump Grundfos Submersible Pump Centrifugal Pump/ES-60 Submersible ES-60 12v Submersible Pump Centrifugal Pump/ES-60 Submersible Centrifugal Pump/Peristaltic Pump Centrifugal Pump/Peristaltic Pump Centrifugal Pump/ES-60 Submersible Centrifugal Pump/E										
Purging Rate	: <u>Se</u>	e below	Total Dis	charge:			Casi	ng Volumes Purge	ed:	
Comments:			Slig	LT.	Sheen					
Waste Water	Dispos	sal:								
Starting Time	<u>.</u>	/O'o2								
Time Pump o	-									
Date	Time	Gal. Purged	рН	T deg. F	Diluted S.C.		Dil. Factor	S.C. (µS/cm)	Co	lor
7/24/95	10:09	3.0/emptied	8.37	64.5		×	=	1900	10%	Brun
		4.0/Emptin		65 1		x	-	1860	1	1.
		5.0/eyy 61.2		64.6		х	-	1860	t.	N r
Į (1	8.0 Comptied		645		x	-	1850		1.
L ₁		wolemet id		64.4		x	-	1870	r.c	(,
ιι		10.5		64.6		×	.=			11
Ç.	10:31	11.0	7.74			x				
(,		12.0	7.77			x	=			
						х	-			
						х	=			
						· x	=			
Sample Id	entifica	tion: MU-	1		Sample Time	:	10:38		•	
							TUR	BIDITY ANALYSIS	S	
Finishing '	Time:	10:52			Tim	ne A	Analyzed:	י טדא	√alue:	

Well Identifi	cation:	MW-Z P	roject Nam	e: <u>/</u> c	700 N. J	Ja.	sco Ro	<u>d</u> D	ate: 7/24/55
Sampled by	: <u>R</u>	CU/GDL	<u>-</u>	Weat	her Condition	s:	Porti	y cloudy	1670F, breez
Well Location	on: <u>L</u>	-mdscsping	7	_ Well (Casing Diame	eter:	2"	Depth of Well C	asing:
Measuring F	oint: <u>To</u>	p of PVC Casing	_ Initial	Depth to V	Vater		Final	Depth to Water:	
Casing Volu	me (1 vo	ol./ 3 v oi):					Well Boreho	le Volume:	
Purging Met	hod:	Centrifugal Purr Grundfos Subm Centrifugal Purr ES-60 12v Subr	nersible Pur np/ES-60 S	np ubmersible	_	Sa	mpling Me tho	Peristaltic Programme Grundfos Su Teflon Baller	ibmersible Pump
Purging Rate	e: <u>Se</u>	e.below	Total Dis	charge:			Casir	ng Volumes Purge	d:
Comments:		r	10 56	een					
Waste Wate	r Dispos	sal:							
Starting Time									
Date	Time	Gal. Purged	рН	T deg. F	Diluted S.C.		DII. Factor	S.C. (µS/cm)	Color
7/2,660	9/36		7.60	67,8				2640	1 .0
T/24/45	7.26	2.0	17.60			X		2610	TEL. BYCUL
11		6.0		67. 9		x	=		whith hoe
	9:28		7.31						whith hoe
11	9:28 9:36	6,0	7.31	67. 9		x		2560	whith hoe
11	9:28 9:36 9:44	6,0	7.31 7.31	67. 9 67.8 68.0		x		2560 2580 2550	whiteh hoe
11	9:28 9:36 9:44 9:46	6,0 10,0 13.5	7.31 7.31 7.39 7.36	67. 9 67.8		x x	=	2560 2580 2550	whiteh hoe
11	9:28 9:36 9:44 9:47	6,0 10,0 13,5 15.0	7.3/ 7.3/ 7.35 7.36	67. 9 67. 8 68. 0 68, 1		x x	=	2560 2580 2550 2570 2580	whiteh hoe
11 11 11 11 11 11 11 11 11 11 11 11 11	9.28 9.36 9.44 9.47 9.47	6.0 10.0 13.5 15.0 16.0	7.31 7.31 7.35 7.36 7.36	67. 9 67. 8 68.0 68,1 67. 9		x x	= = = = = = = = = = = = = = = = = = = =	2560 2580 2550 2570	white hoe
11 11 11 11 11 11 11 11 11 11 11 11 11	9.28 9.36 9.44 9.47 9.47	6,0 10,0 13.5 15.0	7.3/ 7.39 7.36 7.36 7.36	67. 9 67. 8 68. 0 68, 1		x x x x	= =	2560 2580 2550 2570 2580 2560	whith hoe
11 11 11 11 11 11 11 11 11 11 11 11 11	9.28 9.36 9.44 9.47 9.47	6.0 10.0 13.5 15.0 16.0	7.3/ 7.39 7.36 7.36 7.36	67. 9 67. 8 68.0 68,1 67. 9		x x x x x	= =	2560 2580 2550 2570 2580 2560	whith hoe
11 11 11 11 11 11 11 11 11 11 11 11 11	9.28 9.36 9.44 9.47 9.47	6.0 10.0 13.5 15.0 16.0	7.3/ 7.39 7.36 7.36 7.36	67. 9 67. 8 68.0 68,1 67. 9		x x x x x x	= = =	2560 2580 2550 2570 2580 2560	whith hoe
11 11 11 11 11 11 11 11 11 11 11 11 11	9:28 9:36 9:44 9:47 9:48 9:48	6.0 10.0 13.5 15.0 16.0 17.0	7.3/ 7.39 7.36 7.36 7.36	67. 9 67. 8 68.0 68.1 67. 9 68.0 68.1		x x x x x x x	= = = = = = = = = = = = = = = = = = = =	2560 2580 2550 2570 2580 2560	whith hoe
11 11 11 11 11 11 11 11 11 11 11 11 11	9:28 9:36 9:44 9:47 9:48 9:48	6.0 10.0 13.5 15.0 16.0 17.0	7.3/ 7.35 7.36 7.36 7.36 7.37 7.38	67. 9 67. 8 68.0 68.1 67. 9 68.0 68.1		x x x x x x x	= = = = = = = = = = = = = = = = = = = =	2560 2580 2550 2570 2580 2560	11 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1

Well Identi	fication:	MW-3 P	roject Nam							ate: 7	1/24/
Sampled b	y:	CU/GDI	,	Weat	her Conditions	s:	F	2	54) C c	/m, 1	5 4 %=
Well Locat	ion:	Park let	-	Well	Casing Diame	ter:	2"		Depth of Well C	asing: _	
Measuring	Point: <u>Tor</u>	of PVC Casing	Initial	Depth to V	Vater:		_ Fina	al (Depth to Water:		
Casing Vol	ume (1 vo	l./ 3 vol):					Well Boreh	nol	e Volume:		
Purging Me	-	Centrifugal Pum Grundfos Subm Centrifugal Pum ES-60 12v Subr	ersible Pur p/ES-60 S	np ubmersible		Sa	impling Meti	hoo	Peristaltic Pu Grundfos Su Teflon Baller	ıbmersible	Pump
Purging Ra	ite: <u>Sec</u>	e below	Total Disa	charge:		5	Cas	sing	g Volumes Purge	d:	
Comments	:	No	Shee	:n ,	pum			_			
Waste Wat	ter Dispos	al:						_	······		
Starting Tir											
Date	Time	Gal. Purged	рН	T deg. F	Diluted S.C.		Dil. Factor		S.C. (µS/cm)	Co	olor
7/24	8:49	2	7.42	69.4		x		=	2,540	v=1.13	raun
11	8:55	10		69.0		x		=	2430	1	
11	8:55	17	7.34	690		x		=	24 20	white	LLux
M	9:01	15	7.37	68,7		x		=	24 40	11	11
N	9:02	20	7. 36	68.5		x		=	2430	.,	N (
h	9:03	21	7, 39	68,7		x		=	2440		1
1,	9:03	21.5	7.38	68.8	~	<u> </u>		É-	2440	1.	,
١,	9:04	22.0	7.36			x		=	2430	٠,٠	Ų.
N _i	9:05	22.5	737	68.9		х		=	2440	1,	14
						x		=			
						×		=			,
Sample	Identificat	ion: M	υ-3		Sample Time	2:	9:0	6	·		
							TUF	RB	IDITY ANALYSIS	3	
Finishin	a Time:	7:23			Tin	ne A	Analyzed:		NTU '	Value:	



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

ATTACHMENT F

GROUNDWATER SAMPLE ANALYTICAL RESULTS
CHROMALAB, INC.
SUBMISSION # 9507272

CHROMALAB, INC.

Environmental Services (SDB)

August 7, 1995

Submission #: 9507272

H20 GEOL

Atten: Gary Lowe

Project: GENO'S COUNTRY STORE

Received: July 24, 1995

re: 3 samples for Diesel analysis.

Method: EPA 3510/8015M

		DIESEL	REPORTIN LIMIT	RESULT	RESULT
Spl #	Sample ID	(ug/L)	(ug/L)	(uq/L)	(%)
96748	MW-1 For above sample:	9:10 REPORTING LIMIT RAISED	250 5X DUE TO I	N.D. DILUTION.	68
96749 96750	MW - 2 MW - 3	N.D. N.D.	50 50	N.D. N.D.	68 68

Dennis Mayugba

Chemist

Ali Khazrazi

Organic Manager

CHROMALAB, INC.

Environmental Services (SDB)

August 7, 1995

Submission #: 9507272

H20 GEOL

Atten: Gary Lowe

Project: GENO'S COUNTRY STORE

Received: July 24, 1995

re: 3 samples for Gasoline and BTEX analysis.

Method: EPA 5030/8015M/602/8020

Sampled: July 24, 1995

Matrix: WATER

Run: 7765-3

Analyzed: July 26, 1995

Spl # Sample ID	Gasoline (mg/L)	Benzene (ug/L)	Toluene	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)	
96748 MW-1	N.D.	N.D.	N.D.	N.D.	N.D.	
96749 MW-2	N.D.	N.D.	N.D.	N.D.	N.D.	
96750 MW-3	0.06	N.D.	N.D.	N.D.	N.D.	
porting Limits	0.05	0.5	0.5	0.5	0.5	
ank Result	N.D.	N.D.	N.D.	N.D.	N.D.	
Blank Spike Result (%)	90	99	98	98	97	

Billy Thach

Chemist

Ali Kharrazi

Organic Manager

H_2OGEOL	A GROU	VDws TED	CONSUL	TANCY			HAIN OF			
P.O. BOX 21		HAILK	0077562	3317.07		DATE Sample S	07/24/95	PAGE	of	_1
LIVERMORE		A 94551-216	35				ountry Store			
SAMPLER(S):	Gary D. Lo	we & Richard	Vorst		_		rth Vasco Ro e, California	ad		
SAMPLER'S SIGN.	ATURE:	7.7. 1	100	_			ANALYTE			
		7								1
	SAMPLE	•				+				1
	OTAL No. of CONTA				-	line				1
4	AIN OF CUSTODY				iese	880 /602				RS
1	EC'D GOOD CONDI				ls D	18 G				N N
	ONFORMS TO REC	JKD			18 8	n8 8				ΙŽ
L	AB NO.				Total Petroleum Hydrocarbons as Diesel (EPA 3550/8015)	petroleum Hydrocarbons as Gasoline (EPA 5030/8015M + 8020/602)				NUMBER OF CONTAINERS
CURM #- 0	E07070	255 25			ydro	ydro /801				R 0
<i>SUBM #: 9</i> <i>CLIENT:</i> H			otal Petroleum Hy (EPA 3550/8015)	H H				MBE		
J	8/07/95				leur 0/80	leur A 50				S
REF #:230				etro	etro (EP.					
-					18 A	Total p				
FAX RESULTS TO	(510) 373-9222				Total	Total			:	:
SAMPLE ID.	DATE	75	MATRIX	LAB ID.					-	_
MW-1	7/24/95	10:30	WATER		Х	X				3
MW-2	7/24/95	09:50	WATER		Х	×				3
MW-3	7/24/95	09:06	WATER		Х	×			-	3
-					•					
									1	
										
				1					-	
		-								<u> </u>
			_						_	
									_	_
	Please	note special	pricing							,
	<u>.</u>	per Gary Cook								
		10-Day TAT								
RELINQUISHED BY:	. ['		· · · · · · · · · · · · · · · · · · ·	RELINQUISHE	BY:		···			
SIGNATURE		11 J		SIGNATURE						
		7	TIME]				TIM	E	
PRINTED NAME	Gary D. Low	/e	12:42	PRINTED NAM	E	· - ·				
COMPANY	H_2OGEOL		DATE 07/24/95	COMPANY	H_2	OGEOL		DAT	E 	
RECEIVED BY:			;	RECEIVED BY	LABORATO	RY:y	ΛΙ Λ			
SIGNATURE			:	SIGNATURE	+	Sern.	Moda	nder	-12'	40
			TIME	1	1.	< n	1 1	TIMI		
PRINTED NAME	Myrna R. Lo	we	DATE	PRINTED NAM	E _MS	DUIN /	10 Janger		<u> 24-9</u>	15
COMPANY	H ₂ OGEOL		DATE	COMPANY	Chromalab	, Inc <u>.</u>		DAT 07/24		