OUR JOB P90103

MONITORING FACILITY INSTALLATION

SOIL & GROUNDWATER CHEMICAL TESTING

FIRE STATION NO. 1

7494 DONOHUE DRIVE

DUBLIN, CALIFORNIA



Geotechnical Engineering + Engineering Geology + Environmental Engineering + Engineering - Laboratories + Chemical - Laboratories

June 27, 1990

OUR JOB P90103

Dougherty Regional Fire Authority 9399 Fircrest Lane San Ramon, California 94583

Mr. Tom Hathcox Attention: Fire Marshall

> Monitoring Facility Installation SUBJECT:

> > Soil and Groundwater Chemical Testing

Fire Station No. 1 7494 Donohue Drive Dublin, California

Gentlemen:

As requested and authorized, we have completed the installation of three groundwater monitoring wells, and performed sampling and chemical testing of soil and groundwater obtained from the vicinity of a former Underground Storage Tank (UST) cluster at Fire Station No. 1; 7494 Donohue Drive in Dublin, California.

project site location with respect to surrounding geographical features is shown on Figure 1, Vicinity Map. former tank group location and groundwater well locations with respect to the Fire Station are shown on the Site Plan portion of Figure 1.

^{+ 1645 &}quot;1" Street, Suite 105 + Felephone (209) 485-3200, Fax (209) 485-7427 🖯 Fresno, California 93706 + 1145 "I" Street • Telephone (209) 485-0100 🕒 Tresno, California + 1414 Stanislaus Street + Telephone (209) 485-8310 11 Tresno, California 93706 → Telephone (209) 732 8857, Tax (209) 732 6570 U. Visalia, California 93291 + 808 f. Douglas Avenue 13. Bakersfield, California 93301 / 117 "V" Street + Telephone (805) 327 0671, Lax (805) 321 1218 ★ Pleasanton, California 94566 + 5729 F Sonoma Drive. + Telephone (415) 462 4000, Fax (415) 462 6283 33 Sacramento, Cabilonnia 95829 + 9901 Horn Road Suite C + Jelephone (916) 363 1871, Fax (916) 363 1875

BACKGROUND

According to Fire Department authorities, three USTs containing gasoline and diesel were in use at the project site in the 1960's. The largest tank was 4,000 gallons in capacity and stored gasoline. The two smaller tanks were 550 gallons in capacity and stored diesel fuel and gasoline. In 1965 or 1966, the 550-gallon gasoline tank was observed to not maintain fuel levels, and was subsequently abandoned by grouting in place. The two remaining tanks were in use until 1989, when they were removed by Hageman-Shank, Inc. in November of that year. During removal, soils in the close vicinity of the abandoned gasoline tank were observed to be contaminated by petroleum product. Chemical tests revealed Total Petroleum Hydrocarbons, as gasoline levels to 1500 parts per million (See the Tank Removal Report, Appendix "B").

Contaminated soil was removed from the tank excavation and aerated on-site, under a permit from the Bay Area Air Quality Management District (BAAQMD) and with the approval of the Alameda County Environmental Health Department (ACEH). Following adequate aeration of the soil pile, the excavated spoils were used as backfill in the UST group excavation, with approval by the ACEH.

SITE LOCATION AND DESCRIPTION

The project site is the Dougherty Regional Fire Station No. 1, located at 7494 Donohue Drive in Dublin, California. The site is approximately one-third acre in size, and consists of a fire station building and paved parking area. The former tank group was located behind the fire truck garage, in the western portion of the site, as shown on Figure 1. The former tank excavation has been backfilled as described, and subsequently repaved with asphalt. A Convault-type above-ground tank is presently located in the former UST location.

The Fire Station property is fenced on the south, west and north perimeters. It is bound to the east by Donohue Drive, to the north by an open, concrete-lined storm channel, to the west by



an apartment complex, and to the south by a vacant lot and parking area. Surrounding neighborhoods are primarily residential, with extensive commercial development located one to two blocks to the south. The site area is located near the center of the San Ramon Valley, at a surface elevation of approximately 350 feet above mean sea-level. Topography slopes gently to the east-southeast at a gradient of approximately one and one-half percent.

SCOPE OF WORK

As requested by the RFP, and in conformance with our Proposal PR90046, dated March 29, 1990, we have installed three groundwater monitoring wells at pre-determined locations at the site, and performed soil and groundwater sampling and testing of the soils and groundwater obtained from the installed wells. In addition, we have determined groundwater flow direction and gradient.

FIELD WORK

Four soil borings were drilled to a maximum depth of 30 feet. Three borings to that depth were completed as Groundwater Monitoring Wells MW-1, MW-2 and MW-3. The fourth boring, SB-1, was drilled to 13 feet in depth. Groundwater was not encountered in this boring. The boring was immediately sealed with 11-sack sand grout upon completion. The boring locations are shown in Figure 1, Site Plan. The borings were drilled on April 16 and 17, 1990.

The three groundwater monitoring well locations were designated with respect to the expected direction of localized groundwater flow, which typically follows surface topography. The locations are also those recommended in a Work Plan developed previously for this project by a previous consultant. The location of Well MW-3 was moved, however, from its original planned location to a point approximately 15 feet east. Boring SB-1 was originally to have been developed as Well MW-3, but significant amounts of contaminated soil were encountered and, therefore, the boring was not completed to groundwater. The present location of MW-3 was agreed upon in an on-site meeting between Gil Wistar of ACEH, Tom Hathcox of Dougherty Regional Fire Authority, and BSK & Associates personnel.

The groundwater monitoring wells and soil borings were drilled with a Mobile truck-mounted B-53 drill rig using an 8-inch hollow stem auger. A 2.0-inch I.D. split-spoon sampler, housing three 2 x 6-inch stainless steel sampling tubes, was used for soil sampling. Soils were classified in the field by a geologist using the Unified Soil Classification System as shown on the Legend for Test Hole Logs, Figure 2. The Logs of Borings are presented in Figures 3 through 6.

The groundwater monitoring wells were constructed in general accordance with Figure 7, Typical Groundwater Monitoring Well. Two-inch PVC was used, with 15 to 20 feet of 0.020 slotted screen below 8-1/2 to 14 feet of casing. Lonestar grade 2/12 sand was used as annular fill around the screen. Twelve inches of 1/4-inch pelletized Bentonite were placed as spacer between the annular sand and 11-sack sand slurry seal or neat cement seal.

Soil samples were obtained in the borings at 5-foot intervals to first encountered groundwater. The samples were observed and screened using a Photo-ionization Detector (PID). Samples retained for testing were removed from the sampler and immediately capped with teflon sheeting beneath a pressure-fitted plastic cap, taped, labeled, refrigerated and delivered to our State-certified laboratory for pollutant chemical analysis. Soil samples were obtained below the groundwater table for observation using a 1-3/8 inch I.D. split-spoon sampler.

Equipment used during drilling and sampling were cleaned by hi-pressure, hi-temperature wash and/or non-phosphate detergent hot-water wash, and rinsed prior to usage. Soiled auger was cleaned at the site within a rinsate containment area. rinsate was transferred into a DOT-approved 55-gallon drum. Drilling and construction spoils from the monitoring wells were containerized in approved drums and stored at the site until the proper fate of the contents could be determined. Development and purge water from the monitoring wells were also containerized and stored at the site. Stored drums were affixed with labels specifying the type of contents, source and suspected contaminants.

Alameda County Water District personnel observed the construction and/or seal of the monitoring wells.

Relative elevations for each monitoring well were surveyed by BSK personnel to an accuracy of one-hundredth of a foot using a Berger elevating transit. The well elevation is that of the top of the PVC well casing unless specified otherwise. reference elevation used was the casing top of the Monitoring This elevation was designated at +350-feet MSL, Well MW-1. to reflect the approximate surface elevation of the site as determined from a USGS Quad Map. Water depths were determined using a Solinst electric sounding tape marked in twentieths of a foot. Depths to water are referenced to the reference elevation. The groundwater gradient was determined following groundwater measurements taken several days after monitoring well placement. The gradient demonstrates flow to the east-southeast with a 0.7% Groundwater flow direction is presented in Figure 8.

Groundwater well development was achieved using a PVC hand pump. The well was pumped until sand and silt were removed from the well bottom, and the removed water achieved a degree of clarity. Following development, the well was allowed to equilibrate for Prior to sampling, the well was purged of 7.5 to 9.5 well volumes of water using a PVC hand-pump. Water and conductivity were measured for temperature, Нq everv 5 gallons of removed water. The Sample Collection Logs are presented in Figures 9, 10 and 11. Water sampling was performed using a teflon bailer. Samples were sealed, labeled, refrigerated for delivery to the analytical laboratory. Water samples were analyzed for Benzene, Toluene, Xylene, Ethylbenzene (BTXE), and Total Volatile Hydrocarbons (TVH) as gasoline.

SUBSURFACE CONDITIONS

The site subsurface conditions, as exposed in Borings MW-1, MW-2, MW-3 and SB-1, consist primarily of 16 to 28 feet of dark brown and dark gray silty clay and clayey silt, underlain by light brown and light gray sandy clay. A five-foot thick layer of light brown sandy clay was also encountered at eight feet in depth in Boring MW-3. Few to no pores were visible in the soils encountered; occasional small pebbles were observed after 20 feet in depth.

Groundwater was first encountered at a depth of approximately 16 feet in Borings MW-1, MW-2 and MW-3. Stabilized water levels were observed between 10 and 11 feet in depth, indicating a pressure head of 5 to 6 feet. Water level measurements for derivation of flow direction and gradient were made on May 24, 1990. Flow direction was observed to be east-southeast (S80°E) at a gradient of 0.7 percent (see Figure 8).

Indications of hydrocarbon contamination were noted in the field during the drilling of the four borings. The presence of petroleum compounds was detected olfactorily and by PID from 6 to 16 feet in depth. Soil discoloration was observed in SB-1 near 7 to 8 feet, and MW-2 at 7 feet. Strong odors were noticed in MW-3 near 11 feet, and SB-1 near 12 feet in depth. Contaminant odors often smelled strongly of hydrogen sulfide (rotten eggs) suggesting aged product in the soils. In one location, where TPH was detected in soils in addition to TVH, the TPH value exceeded the TVH value by a factor of 2 at that location, suggesting either aged gasoline product, or heavier fuel product.

Contamination of groundwater was not observed in the field during drilling, development or sampling. Chemical analyses of water samples did not detect the presence of petroleum contamination.

CHEMICAL ANALYSES

Soil and water samples obtained from Borings MW-1, MW-2 and MW-3, as well as soil samples from Boring SB-1, were tested for the presence of Benzene, Toluene, Xylene and Ethylbenzene (BTXE), Total Petroleum Hydrocarbons (TPH) as diesel, and Total Volatile Hydrocarbons (TVH) as gasoline.

A summation of the chemical analyses results is presented for soil and water, respectively, in the following tables. The Chemical Test Data Sheets are presented in Appendix "A" as Figures A-1 through A-16. The project Chain-of-Custody documentation is provided as Figures A-17 through A-19.

SOILS ANALYSES

TABLE 1 (Results in PPM)

Sample Location Boring and Depth	Benzene _(0.3*)	Toluene (0.3*)	Xylene _(1*)	Ethylbenzene (1*)
MW-1, 5.5 feet	ND	ND	ND	ND
MW-1, 10.5 feet	0.12	0.51	0.37	0.23
MW-1, 15.5 feet	ND	ND	ND	ND
MW-2, 5.5 feet	ND	ND	ND	ND
MW-2, 10.5 feet	1.20	0.85	0.45	2.80
MW-2, 15.5 feet	ND	ND	ND	ND
MW-3, 5.5 feet	ND	ND	ND	ND
MW-3, 11.0 feet	0.92	1.20	0.63	1.80
MW-3, 15.5 feet	ND	ND	ND	ND
SB-1, 5.5 feet	ND	ND	ND	ND
SB-1, 10.0 feet	1.20	1.20	2.90	3.30
SB-1, 12.5 feet	0.49	0.24	0.12	0.96

ND - None Detected

*Guideline: State Water Resources Control Board, LUFT Field Manual, Table 2-1, Page 21, May 1988

TABLE 2 (Results in PPM)

Sample Location	TPH	TVH
Boring and Depth	(1000)*	(100)*
MW-1, 5.5 feet	NT	MID
	_ · · · · ·	ND
MW-1, 10.5 feet	ИT	73
MW-1, 15.5 feet	NT	ND
MW-2, 5.5 feet	NT	ND
MW-2, 10.5 feet	NT	170
MW-2, 15.5 feet	NT	ND
MW-3, 5.5 feet	NT	ND
MW-3, 11.0 feet	NT	240
MW-3, 15.5 feet	NT	ND
SB-1, 5.5 feet	NT	ND
SB-1, 10.0 feet	470	260
SB-1, 12.5 feet	NT	66

ND - None Detected NT - Not Tested

*Guideline: State Water Ressources Control Board, LUFT Field Manual, Table 2-1, Page 21, May 1988

WATER ANALYSES

TABLE 1 (Results in PPB)

Sample Location Boring Number	Benzene _(1.0*)	Toluene (100)+	Xylene (1750)*	Ethylbenzene (680)*
MW-1	ND	ND	ND	ND
MW-2	ND	ND	ND	ND
MW-3	ND	ND	ND	ND

ND - None Detected

*DHS Primary Drinking Water Standard (3/89)

+ - DHS Action Level

TABLE 2 (Results in PPB)

Sample Location Boring Number	TVH (100)*
MW-1	ND
MW-2	ND
MW-3	ND

ND - None Detected

^{*}Quantified Action Levels are not provided for this parameter. The amount given is often informally used as a threshhold value.

CONCLUSIONS

As shown in the preceding Tables, evidence of petroleum product contamination of the site soils was found. At this time, however, groundwater does not appear to be affected.

Soil contaminant levels in twelve soil samples exceeded the recommended amounts of BTXE or TVH allowable in soils, with distance from groundwater, and selected characterization parameters presented in Table 2-1 of the LUFT Field Manual. Each of the four borings contained at least one sample that exceeded the limits. The borings having the greatest amounts of contaminants were MW-3 and SB-1, located east of the former tank cluster, and down-gradient from the USTs. The boring showing the least contaminants was MW-1, located up-gradient from the former USTs. Soil contamination was observed between 6 and 16 feet in depth, with the greatest concentrations observed near 11 and 12 feet below ground surface. This may indicate that the contaminants are confined to some extent by soil saturation in the capillary fringe above groundwater. The distinct hydrogen sulfide odor and possible predominance of heavier hydrocarbon compounds (SB-1 at 10-feet) suggest that petroleum contaminants are of an advanced age. This would be consistent with leakage from the small gasoline tank abandoned in 1965 or 1966 due to the loss of product.

Contamination of the groundwater by petroleum compounds was not detected during this study. Contamination of the groundwater could occur in the future due to fluctuation in the water piezometric level and leaching of product from the overlying soils. It is also considered likely that the suspected accumulation of product near 12 feet in depth reflects pollutant accumulation atop the capillary fringe.

Delineation of the vertical and horizontal extents of soil contamination has not been determined in this study, as no borings were located outside of the contaminated area, and current soil contaminant depth data is not considered conclusive. Determination of future effects of this release on groundwater has not been fully addressed, due to the close proximity to groundwater of significant contamination.



In accordance with our agreement, we will continue to monitor the groundwater monitoring wells on a quarterly basis for a period of one year and report our findings.

REPORT DISTRIBUTION

Copies of this report should be submitted to the Alameda County Environmental Health District (Attention Gil Wistar) for their review. We are providing you with extra copies for this purpose. We understand that copies of this report will be forwarded by ACEH to the Regional Water Quality Control Board in Oakland for their review.

LIMITATIONS

The findings and conclusions presented in this report are based on field review and observations, and from the limited testing program described in this report. This report has been prepared in accordance with generally accepted methodologies and standards of practice in the area. No other warranties, expressed or implied, are made as to the findings, conclusions and recommendations included in the report.

The findings of this report are valid as of the present. The passage of time, natural processes or human intervention on the property or adjacent property can cause changed conditions which can invalidate the findings and conclusions presented in this report.

BSK & Associates is pleased to have been of service to you during this project. If you have questions concerning the contents of this report, please do not hesitate to contact us.

* * * *



The following are attached and complete this report:

FIGURE 1: Vicinity Map and Site Plan FIGURE 2: Legend for Test Hole Logs

FIGURES 3-6: Boring Logs

FIGURE 7: Typical Groundwater Monitoring Well FIGURE 8: Groundwater Flow Direction and Gradient

FIGURES 9-11: Sample Collection Logs

Appendix "A"

FIGURES A-1

through A-16: Laboratory Chemical Test Data Sheets

FIGURES A-17

through A-19: Project Chain of Custody Records

Appendix "B"

FIGURES B-1

through B-10: Hageman-Schank, Inc. Tank Removal Report

Respectfully submitted, BSK & Associates

Alex Y. Eskandari, P.E.

Project Manager

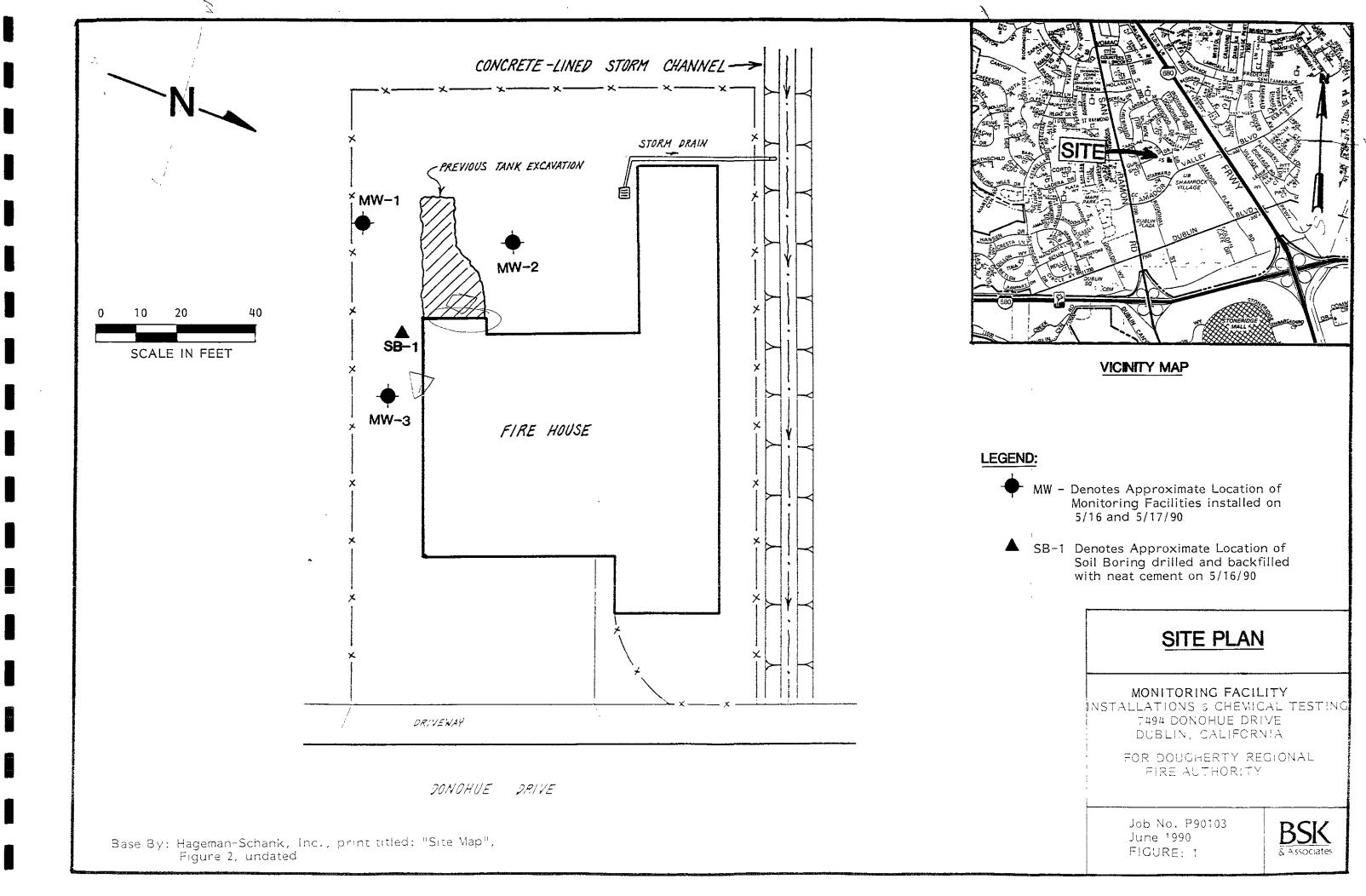
C.E. 38101

Tim W. Berger Staff Geologist

AYE/TWB:kl (MISC#2)

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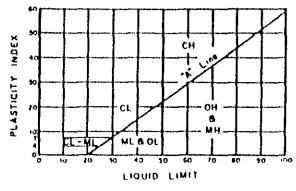
Dougherty Regional Fire Authority (5 copies)



LICONE. 2

LEGEND FOR TEST HOLE LOGS

	METHOD	OF ified S	loi	SOIL CLASSIFICATION Classification System)
M	AJOR DIVISIONS	SYMBOL	S	TYPICAL NAMES
-		GW	ن ده د	Well graded gravels or gravel—sand mixtures, little or no fines
ILS sieve size)	GRAVELS	GP ,	į	Poorly graded gravets or gravel-sand mixtures, little or no fines
88	(More than 1/2 of course fraction) no. 4 sieve size)	GM	0	Silty gravels, gravel-sand-silt mixtures
NEC > ve		GC		Clayey gravels, gravel-sand-clay mixtures
S 2		sw		Welt graded sands or gravelly sands, little or no fines
COARSE than 1/2 o	SANDS	SP		Poorly graded sands or gravelly sands, little or no fines
C (More !	(More than 1/2 of course fraction (no 4 sieve size)	sm [Silty sands, sand-sill mixtures
		SC		Clayey sands, sand-clay mixtures
e size)	SILTS & CLAYS	ML		Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
SOIL.S 200 sieve	LL <50	CL		Inorganic clays of law to medium plasticity, gravelly clays, sandy clays, silty clays, tean clays
<u> </u>		OL		Organic sitts and organic sitty clays of low plasticity
िं ठी	SILTS & CLAYS	мн		Inorganic silts, micaceous or diatomaceous fine early or silty soils, elastic silts
FINE (More than 1/2	<u>LL)50</u>	CH		Inorganic clays of high plasticity, for clays
(More		он		Organic clays of medium to high plasticity, organic silty clays, organic silts



Key to Samples

PLASTICITY CHART

- Indicates depth of undisturbed sample
- Sample not recovered
- 🕅 Indicates depth of disturbed sample
- Indicates depth of Standard Penetration Split Spoon Sample



DATE:

5/16/90

LOG DESIGNATION MW-1

LOGGED BY:

KAO

ELEVATION: +350 T.O.C.

WATER LEVEL: +339.99 (6/6/90)

JOB: P90103 FIGURE: 3

EQUIPMENT: Mobile B-53, 8" Hollow Stem Auger

	NOMINAL (1) B	BLOWS /FOOT (2)	MOISTURE %	DRY DENSITY, PCF	SAMPLES	U.S.C.S.	SOIL. OR ROCK DESCRIPTION	NOTES
						PVT	3-1/2" Asphaltic Concrete, 9" Aggregate Bas	e
-						СН	SILTY CLAY: Dark brown mottled white, moist, few small pores, stiff	-
5 -								PID* = 0.0 -
-	2.0	23			1		Grades slightly gray	-
10 -								PID = 3.1 in auger
.	2.0	22			2			$PID = 22 \frac{in}{sample} =$
-						CL- CH	SILTY CLAY: Dark gray, moist, no pores to few pores, very stiff 1 hr AD**	
l5 ← _	2.0	23			3	CL	SANDY CLAY: Grey mottled white and ∇ brown, no pores, very stiff $ATD***$	PID = 2.2 auger
20							<pre>*PID - denotes Photo-Ionization Detector ** AD - denotes groundwater level after</pre>	
20_	$\frac{3}{18}$	14			4]		PID = 0.0
-	10	7.4				†	some small pores	-
-							grades with some pea gravel	-
-							grades darker gray	-
25								1
	E 100	18 5147)	u sus	SURFA	CE COL	L	S ELT SAMPLER INSIDE DIAM.	<u> </u>

THE LOGS SHOW SUBSURFACE CONDITIONS AT THE DATES AND LOCATIONS INDICATED, AND IT IS NOT WARRANTED THAT THEY ARE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

(I) SAMPLER INSIDE DIAM.

121 140 M HAMMER - 30 INCH DROP.



DATE: 5/16/90

LOG DESIGNATION MW-1 (continued)

LOGGED BY:

KAO

ELEVATION: +350 T.O.C.

WATER LEVEL: +339.99 (6/6/90)

Mobile B-53, 8" Hollow Stem Auger

JOB: P90103

FIGURE: 3

EQUII	PMENT	T:	Mobi		53,	8 HOT	low Stem Auger	FIGURE: 3
	NOMINAL (!) DIAMETER, IN.	BLOWS /FOOT (2)	MOISTURE %	ORY DENSITY, PCF	SAMPLES	u.s.c.s.	SOIL OR ROCK DESCRIPTION	NOTES
-	1 3 "	10			5	CL	SANDY CLAY: Dark gray, mottled white and yellow, no pores, moist, very stiff	-
30-	1 3 "	14			6	y		Boring terminated at 30 feet
-								Monitoring Well installed having 8-1/2 feet of solid over 20 feet of slotted casing
-								8 feet of cement surface seal
-								-
-				SUBEA				-

THE LOGS SHOW SUBSURFACE CONDITIONS AT THE DATES AND LOCATIONS INDICATED, AND IT IS NOT WARRANTED THAT THEY ARE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

(I) SAMPLER INSIDE DIAM.

(2) 140 he HAMMER - 30 INCH DROP,



DATE:

5/17/90

LOG DESIGNATION MW-2

LOGGED BY: KYO

ELEVATION: +349.54 T.O.C.

water Level: +340.06 (6/6/90)

FOURDMENT: Mobile B-53, 8" Hollow Stem Auger

JOB: P90103

FIGURE: 4

EQUIF	PMENT	r: M	obi1	.e B-5	3, 8	" Hol.	low Stem Auger	FIGURE: 4
DEPTH, FEET	NOMINAL (1) DIAMETER, IN.	BLOWS /F00T (2)	MOISTURE %	DRY DENSITY,	SAMPLES	U.S.C.S.	SOIL OR ROCK DESCRIPTION	NOTES
						PVT	3" Asphaltic Concrete, 8" Aggregate Base	
-						СН	SILTY CLAY: Dark brown, moist, few small pores, stiff	-
-								PID = 2.0
5 –						_		ntn - 0.0
} -	2.0	27	ļ		1	•	Slight discoloration to greenish-gray,	PID = 0.0
-							and dark brown.	PID = 59 cuttings
-							Hydrocarbon odor	-
-								-
10 -	2.0	19			2		Mottled white $\frac{\nabla}{2 \text{ Hrs. AD}}$	PID = 135
-								PID = 72.0
-								
-								PID = 0.0 - cuttings
15 -	2.0	27			3	CL	SILTY CLAY: Grey-black mottled white and dark brown, wet, few small ∇	PID = 0.0
							pores, no hydrocarbon odor ATD	-
								_
-							Grades to light brown mottled light gray	~
20_	13"						Grades to trkut prown motified trkut kray	
-	<u>*8</u>	10			4			
-							Grades with sand	
-								-
25								*
			-	SURFAC				

THE LOGS SHOW SUBSURFACE CONDITIONS AT THE DATES AND LOCATIONS INDICATED, AND IT IS NOT WARRANTED THAT THEY ARE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

[] SAMPLER INSIDE DIAM.

121 140 M HAMMER - 30 INCH DROP.



DATE: 5/17/90

LOG DESIGNATION MW-2 (continued)

LOGGED BY: KAO

ELEVATION: +349.54 T.O.C.

water Level: +340.06 (6/6/90)
FOURMENT: Mobile B-53, 8" Hollow Stem Auger

JOB: P90103

FIGURE: 4

EQUIF	MENT	[;]	Mobi	le B-	53, 8	HoT	low Stem Auger	FIGURE: 4
.	NOMINAL (1) DIAMETER, IN.	BLOWS/FOOT (2)	MOISTURE %	DRY DENSITY, PCF	SAMPLES	U.S.C.S.	SOIL OR ROCK DESCRIPTION	NOTES
-	13" 18"	10			5	CL	SANDY CLAY: Light brown mottled light gray, wet, few small pores, stiff Grades with some pea gravel.	•
30-	J3"	18			6		Stiff, no pores.	Boring terminated at 30 feet. Monitoring Well installed having 15 feet of solid over 15 feet of slotted casing.
								13 feet of cement surface seal
				SUBLA				

THE LOGS SHOW SUBSURFACE CONDITIONS AT THE DATES AND LOCATIONS INDICATED, AND IT IS NOT WARRANTED THAT THEY ARE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

() SAMPLER INSIDE DIAM.

(2) 1401M HAMMER - SO INCH DROP.



DATE: 5/16/90

LOG DESIGNATION _MW-3___

LOGGED BY: KAO

+349.60 T.O.C. **ELEVATION:**

JOB: P90103 **WATER LEVEL:** +339.78 (6/6/90) FIGURE: 5 Mobile B-53, 8" Hollow Stem Auger FOURDMENT !

EQUII	PMENT	r:	Mob1.		53, B	HOT	low Stem Auger	FIGURE: 5	
DEPTH, FEET	NOMINAL (1) DIAMETER, IN.	BLOWS /F00T (2)	MOISTURE %	DRY DENSITY, PCF	SAMPLES	U.S.C.S.	SOIL OR ROCK DESCRIPTION	NOTES	
						PVT	3-1/2 to 4" Asphaltic Concrete,		- 1
-						CL ML	8" Aggregate Base SILTY CLAY/CLAYEY SILT: Brown, moist, no pores, stiff		-
-		=				:		PID = 0.0	1
5 -						ļ			44 -1
-	2.0	23			1	CH	SILTY CLAY: Dark brown to black, mottled white, moist, few small pores, stiff	PID = 0.0	-
									•
-						CL	SANDY CLAY: Light brown, moist, no pores, stiff	PID = 2.8 in auger	
10 -									-
-	2.0				2		Strong hydrocarbon odor.	PID = 164	-
-									-
-						CH	SILTY CLAY: Dark brown, mottled green and	PID = 43	-
15							1ight brown, damp, some ∇ small pores, stiff 3 hrs. AD	cuttings	1
	2.0	37			3		——————————————————————————————————————	PID - 3.0 sample	-
							Grades less stiff.		
20-							Wet	ļ	
	$1\frac{3}{8}$ "	9			4				
							Grades dark brown mottled white		-
									-
-									-
25				l					}
TM	100	C CLION	4112 1	CLIDEAC	C CON	DITION	S tot saveren opene man		

THE LOGS SHOW SUBSURFACE CONDITIONS AT THE DATES AND LOCATIONS INDICATED, AND IT IS NOT WARRANTED THAT THEY ARE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

() SAMPLER INSIDE DIAM.

(2) 1401m HAMMER- 30 INCH DROP.

IP! HYDRAULICALLY PUSHED



DATE:

5/16/90

LOG DESIGNATION MW-3 (continued)

LOGGED BY: ELEVATION:

KAO

: +349.60 T.O.C.

WATER LEVEL: +339.78 (6/6/90)

JOB: P90103 FIGURE: 5

EQUIPMENT: Mobile B-53, 8" Hollow Stem Auger

	MEN				22,		TOW Ocean Adder	·····
DEPTH, FEET	NOMINAL (1) DIAMETER, IN.	8LOWS /F00T (2)	MOISTURE %	DRY DENSITY, PCF	SAMPLES	U.S.C.S.	SOIL OR ROCK DESCRIPTION	NOTES
-	1 <u>3</u> "	18			5	СН	SILTY CLAY: Dark brown mottled green and light brown, some small pores, stiff	
-						CL	SANDY CLAY: Light brown mottled gray, moist, no pores, stiff	-
30-	3 18"	17			6			Boring terminated at - 30 feet
1								Monitoring Well installed having 14 ft. solid over 15 ft. slotted
1		<u> </u>						casing 13 ft. of cement surface
1								seal
-								+
								<u>.</u>
-	į							

THE LOGS SHOW SUBSURFACE CONDITIONS AT THE DATES AND LOCATIONS INDICATED, AND IT IS NOT WARRANTED THAT THEY ARE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

[1] SAMPLER INSIDE DIAM.

123 140 M HANNER- 30 INCH DROP.



DATE:

5/16/90

LOG DESIGNATION __SB-1

LOGGED BY: ELEVATION:

EQUIPMENT:

KAO

WATER LEVEL: Not encountered.

Mobile B-53, 8" Hollow Stem Auger

JOB: P90103

FIGURE: 6

DENSITY, PCF NOMINAL (1) DIAMETER, IN. BLOWS /FOOT MOISTURE SAMPLES U.S.C.S. SOIL OR ROCK DESCRIPTION DEPTH. NOTES 褑 3" Asphaltic Concrete, 8" Aggregate Base **PMT** PID = 0.0CH SILTY CLAY: Dark brown, moist to damp, no pores, firm to stiff PID = 0.0cuttings 5 2.0 20 PID = 0.0CH SILTY CLAY: (Discolored) green-gray, no pores, damp, firm to stiff PID = 73.0Grades darker gray 10 2 PID = 3592.0 16 Very strong hydrocarbon odor 3 Some small pores. PID = 372.0 19 Boring terminated at 13 feet. 15 Backfilled with neat cement 20-

THE LOGS SHOW SUBSURFACE CONDITIONS
AT THE DATES AND LOCATIONS INDICATED, AND IT
IS NOT WARRANTED THAT THEY ARE REPRESENTATIVE
OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS
AND TIMES.

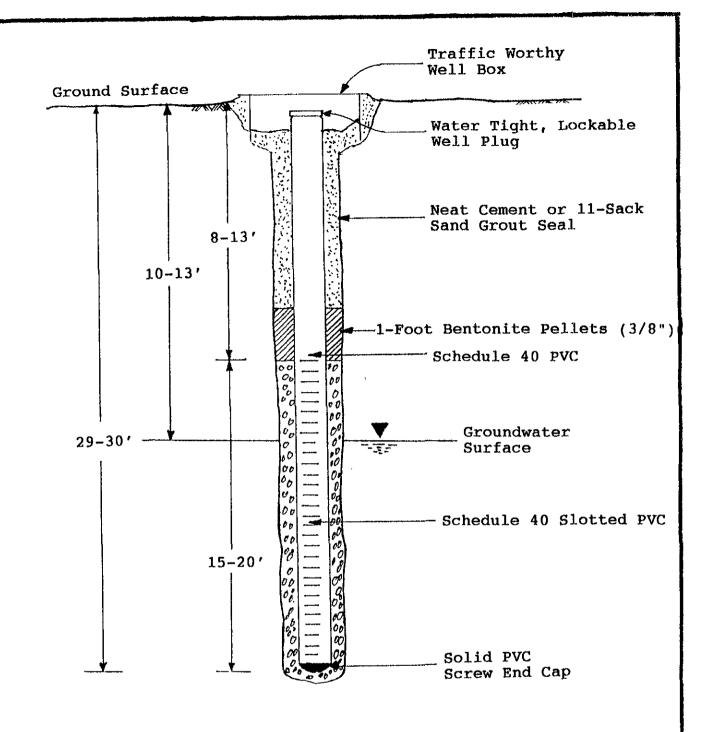
25

IT SAMPLER INSIDE DIAM.

(2) 140 M HAMMER - 30 INCH DROP.

PI HYDRAULICALLY PUSHED





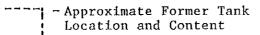
GROUNDWATER MONITORING WELL PROFILE

(Not to Scale)

Job No.: P90103 May, 1990 Figure: 7



GROUNDWATER FLOW DIRECTION AND GRADIENT





- Groundwater Flow Direction



- Approximate Location, Elevation and Designation of Groundwater Monitoring Well



- Approximate Location and Designation of Exploratory Soil Boring

Job No. P90103 June 1990 FIGURE: 8

BSK & Associates

Project	No.:	P9010)3
Date:	_	June	
Figure N	0.:	9	

INDIVIDUAL WELL FIELD LOG

						
WIZT.T.	DEVELOPMENT:	Date:				
WELL DEVELOPMENT: Date: 5/24/90						
PROJECT	NAME & LOCA	TION: Dublin F.S.	- Donohu	<u>ie</u>		
PERSONN	EI.: TWB					
WEATHER	: <u>Clear -</u>	Warm				
WELL IN	FORMATION:					
Well N	IO - * MW-1					
Denth	to water: 10	.01' From T.O.C.	Date	e Purged:	5/24/90	
Well D	epth: 30	Feet	Pur	ge Method:	PVC Hand Pump	
Water	Volume: 3.	Feet 2 Gallon evation: +350	 Pur	ge Begin:	10:56	
Pofore	nce Point R1	evation: +350	End	Purge:	11:14	
Cround	water Elevat	ion: +339.99				
Moagur	ement Techni	que: Electri	c Soundin	ng Tape		
11(2(14)(14)						
IMMISCI	BUE LAYERS:					
	OP: None		BOTT	OM: None		
Det	ection Metho	d: Visual, Olfact				
C	ollection Me	thod: Clear PVC F	oint Sou	cce Bailer		
· ·	0,0,0,000,000,000					
WELL DE	VELOPMENT/PU	RGE DATA:				

TIME	VOLUME	ELECTRICAL	pН	TEMPERAT	TURE COMMENTS	
	REMOVED	CONDUCTIVITY	1	(°F)	1	
	(qal)	(Ec/Range)		, ,		
10:56	5	2540	7.51	75.3		
11:01	10	6920	6.90			
11:03	15	2470	6.75	74.6		
11:08	20	2930	6.68			
11:11	25	2930	6.51	73.8		
11:14	30	2920	6.53	73.8		
ļ		+	-1			

SAMPLE COLLECTION DATA:

Sampling Equiptment and Procedures: Teflon Bailer

TIME	TYPE OF TEST	AMOUNT/CONTAINER USED	DEPTH
13:03	TVH + BTXE	2 40 ML. Glass Vials W/HCL	12'
	1		

Field Observations:	No petroleum odors	were noted during	purge or sample



Project No. 9	P90103
Date:	June 1990
Figure No.:	10

INDIVIDUAL WELL FIELD LOG

EATHER: ELL INF	J.: TWB Clear/War				
EUL INE	OTEAL / WAL	°m			
		. Itt			
Well No	ORMATION:				
	MW-2				F /0 / /00
Depth t	o water: _9.4	8 From T.O.C.		Purged:_	5/24/90 PVC Hand Pump
Well De	pth: 30	Feet 3 Gallon	Purg	ge Method:	12.40
Water V	Tolume: 3.3	3 Gallon	Pur	ge Begin:	13.49
		evation: +349.54		Purge:	13+37
Groundw	ater Elevat	ion: +340.06	Soundin	α Tane	
Measure	ment Technic	que: Electric	Boundin	ig Tape	
MMTCCTE	HE LAYERS:				
17177	Mana Nana		BOTTO	DM: None	
Dete	ction Metho	d: Visual, 01	factory		
Cc	llection Me	d: Visual, 01 thod: Clear PVC	Point Sou	rce Bailer	
,					
ELL DEV	elopment/ <u>pu</u>	RGE DATA:			
		nt mamp takt	1	wewnen:	ATURE COMMENTS
IME	VOLUME	ELECTRICAL CONDUCTIVITY	pH	(° 1	
1	REMOVED (gal)	(Ec/Range)		ι ,	.)
	10	2530	6.72	73.2	
	15	2540	6.60	73.2	
13:55	20	2550	6.51	72.7	
13:59	25	2530	6.45	72.5	
			1	<u> </u>	
	COLLECTION D		- Tefi	lon Bailer	
Samplin	id känibimen	t and Procedure	B #		
TIME	ТУРЕ	MOU	NT/CONTA	LINER	DEPTH
~~~~	OF TEST		USED		
					4.0.1
14:12	TVH + BTXI	2 40 ML. (	Glass Vial	ls W/HCL	12'



Project	No.:	P9010	)3
Date:		June	1990
Figure 1	No.:_	11	

#### INDIVIDUAL WELL FIELD LOG

ROJECT	NAME & TOCAL	LION: Dublin Fi	LIE SLACIC	on on bononae	
RRSONNE	I.: TWB				A Company of the Control of the Cont
EATHER:	Clear/Wai	cm			
Well No Depth t Well De Water V Referen Groundw Measure MMISCIF	FORMATION:  O.: MW-3  TO water: 9  Pepth: 3  FORMATION:  O.: MW-3  TO water: 9  FORMATION:  O.: MW-3  TO water: 9  FORMATION: 9  FORMATION: MATHOR  O.: MATHOR  O.: MATHOR  O.: MATHOR	.82 From T.O.C.  ) Feet .2 Gallon evation: +349.60 on: +339.73 que: Electr  l: Visual, 01 chod: Clear PVC	Puro Puro Puro Send Send Send Send Send Send Send Send	Purge: ng Tape  None	PVC Hand Pump 12:15
BLL DEV	/ELOPMENT/PUI	RGE DATA:			
IME	VOLUME REMOVED (gal)	ELECTRICAL CONDUCTIVITY (Ec/Range)	Hq	(° F	
12:15	10	2530	6.88	75.4	
12:18	15	2520	6.60	74.3	
12:22	20	2490 2520	6.53	73.8 73.3	
12:26	25	2,720	0.40		
AMPLE (Samplin	COLLECTION Dang Equiptment TYPE OF TEST	and Procedure	B: Tef NT/CONTA USED		Sampled at Shallow  DEPTH
12:39	TVH + BTXE	2 40 ML. VC	OA W/HCL		12'



#### APPENDIX "A"

LABORATORY CHEMICAL TEST DATA SHEETS & PROJECT CHAIN OF CUSTODY RECORDS



FIGURE: A-1

1414 Stanislaus Street * Fresno, California 93706 * Telephone (209) 485-8310 * Fax (209) 485 7427

BSK	Pleasanton
P901	03

Lab No. <u>Ch901611-4</u>

Report Date <u>5/30/90</u>

Sample Type _____ Soil ____ Date Sampled _____ 5/16/90 _____

Sample Description 1138 hrs. Date Received 5/18/90

MW-1 at 5-1/2' Date of Analyses <u>5/21/90</u>

#### Soil Analyses for BTXE and TVH

Compound	Results (mg/kg)	Detection Limit (DLR)
Benzene	ND ND ND ND ND	0.02 0.02 0.02 0.02 10.

Method: BTXE-EPA 8020 TVH-EPA 8015M

ND-None Detected BDL-Below Detection Limit

DLR-Detection Limit For the Purposes of Reporting

Organics Supervisor

QALOC/SYSHAMASA

FIGURE: A-2

1414 Stanislaus Street * Fresno, California 93706 * Telephone (209) 485-8310 * Fax (209) 485-7427

BSK Pleasanton P90103

Lab No. <u>Ch901611-5</u>

Report Date <u>5/30/90</u>

Sample Type Soil Date Sampled 5/16/90

Sample Description 1150 hrs. Date Received 5/18/90

MW-1 at 10-1/2' Date of Analyses 5/21/90

#### Soil Analyses for BTXE and TVH

Compound	Results (mg/kg)	Detection Limit (DLR)
Benzene	0.12 0.51 0.23 0.37 73	0.02 0.02 0.02 0.02 10.

Mothod: BTXE-EPA 8020 TVH-EPA 8015M

ND-None Detected BDL-Below Detection Limit

DLR-Detection Limit For the Purposes of Reporting

Organic Supervisor

QA/QC/Syperview

FIGURE: A-3

1414 Stanislaus Street + Fresno, California 93706 + Telephone (209) 485-8310 + Fax (209) 485-7427

BSK Pleasanton P90103

Lab No. <u>Ch901611-6</u>

Report Date <u>5/30/90</u>

Sample Type Soil Date Sampled 5/16/90

Sample Description 1208 hrs. Date Received 5/18/90

<u>MW-1 at 15-1/2'</u> Date of Analyses <u>5/21/90</u>

Soil Analyses for BTXE and TVH

Compound	Results (mg/kg)	Detection Limit (DLR)
Benzene	ND ND ND ND	0.02 0.02 0.02 0.02 0.02

Method: BTXE-EPA 8020 TVH-EPA 8015M

ND-None Detected BDL-Below Detection Limit

DLR-Detection Limit For the Purposes of Reporting

Organics Supervisor

ON SAME SES

FIGURE: A-4

1414 Stanislaus Street * Fresno, California 93706 * Telephone (209) 485-8310 * Fax (209) 485-7427

BSK Pleasanton P90103

Lab No. <u>Ch901611-7</u>

Report Date _5/30/90_____

Sample Type Soil Date Sampled 5/17/90

Sample Description 0915 hrs. Date Received 5/18/90

MW-2 at 5-1/2' Date of Analyses 5/21/90

#### Soil Analyses for BTXE and TVH

Compound	Results (mg/ky)	Detection Limit (DLR)
Benzene Toluene Ethylbenzene Total Xylene Isomers Total Volatile Hydrocarbons	ND ND ND ND ND	0.02 0.02 0.02 0.02 10.

Method: BTXE-EPA 8020 TVH-EPA 8015M

ND-None Detected BDL-Below Detection Limit

DLR-Detection Limit For the Purposes of Reporting

Organics Supervisor

prior superijebr

FIGURE: A-5

1414 Stanislaus Street * Fresno, California 93706 * Telephone (209) 485-8310 * Fax (209) 485-7427

BSK Pleasanton P90103

Lab No. <u>Ch901611-8</u>

Report Date <u>5/30/90</u>

Sample Type Soil Date Sampled 5/17/90

Sample Description 0923 hrs. Date Received 5/18/90

MW-2 at 10-1/2' Date of Analyses 5/21/90

#### Soil Analyses for BTXE and TVH

Compound	Results (mg/kg)	Detection Limit (DLR)
Benzene Toluene Ethylbenzene Total Xylene Isomers Total Volatile Hydrocarbons	1.2 0.85 2.8 0.45 170	0.02 0.02 0.02 0.02 10.

Method: BTXE-EPA 8020 TVH-EPA 8015M

ND-None Detected BDL-Below Detection Limit

DLR-Detection Limit For the Purposes of Reporting

of of specific for

Organics Supervisor

R110689

FIGURE: A-6

1414 Stanislaus Street + Fresno, California 93706 * Telephone (209) 485-8310 * Fax (209) 485-7427

BSK Pleasanton P90103

Lab No. <u>Ch901611-9</u>

Report Date <u>5/30/90</u>

Sample Type Soil Date Sampled 5/17/90
Sample Description 0937 hrs. Date Received 5/18/90

MW-2 at 15-1/2' Date of Analyses 5/21/90

#### Soil Analyses for BTXE and TVH

Compound	Results (mg/kg)	Detection Limit (DLR)
Benzene	ND ND ND ND ND	0.02 0.02 0.02 0.02 0.02

Method: BTXE-EPA 8020 TVH-EPA 8015M

ND-None Detected BDL-Below Detection Limit

DLR-Detection Limit For the Purposes of Reporting

ON SE ENGLES DE

Organics Supervisor

FIGURE: A-7

1414 Stanislaus Street + Fresno, California 93706 + Telephone (209) 485-8310 + Fax (209) 485-7427

BSK Pleasanton P90103

Lab No. <u>Ch901611-10</u>

Report Date 5/30/90

Sample Type Soil Date Sampled 5/16/90

Sample Description 1015 hrs. Date Received 5/18/90

MW-3 at 5.5' Date of Analyses <u>5/22/90</u>

#### Soil Analyses for BTXE and TVH

Compound	Results (mg/kg)	Detection Limit (DLR)
Benzene	ND ND ND ND ND ND	0.02 0.02 0.02 0.02 0.02

Mothod: BTXE-EPA 8020 TVH-EPA 8015M

ND-None Detected BDL-Below Detection Limit

DLR-Detection Limit For the Purposes of Reporting

Organ

Organics Supervisor

)689

FIGURE: A-8

1414 Stanislaus Street * Fresno, California 93706 * Telephone (209) 485-8310 * Fax (209) 485-7427

BSK Pleasanton P90103

Lab No. <u>Ch901611-11</u>

Report Date <u>5/30/90</u>

Sample Type Soil Date Sampled 5/16/90

Sample Description 1022 hrs. Date Received 5/18/90

MW-3 at 11' Date of Analyses 5/22/90

#### Soil Analyses for BTXE and TVH

Compound	Results (mg/kg)	Detection Limit (DLR)
Benzene Toluene Ethylbenzene Total Xylene Isomers Total Volatile Hydrocarbons	0.92 1.2 1.8 0.63 240	0.02 0.02 0.02 0.02 10.

Method: BTXE-EPA 8020 TVH-EPA 8015M

ND-None Detected BDL-Below Detection Limit

DLR-Detection Limit For the Purposes of Reporting

spe

Organics Supervisor

R110689

FIGURE: A-9

1414 Stanislaus Street + Fresno, California 937

1414 Stanislaus Street * Fresno, California 93706 * Telephone (209) 485-8310 * Fax (209) 485-7427

BSK Pleasanton P90103

Lab No. <u>Ch901611-12</u>

Report Date <u>5/30/90</u>

Sample Type Soil Date Sampled 5/16/90

Sample Description 1043 hrs. Date Received 5/18/90

MW-3 at 15.5' Date of Analyses 5/22/90

#### Soil Analyses for BTXE and TVH

Compound	Results (mg/kg)	Detection Limit (DLR)
Benzene	ND ND ND ND ND	0.02 0.02 0.02 0.02 10.

Method: BTXE-EPA 8020 TVH-EPA 8015M

ND-None Detected BDL-Below Detection Limit

DLR-Detection Limit For the Purposes of Reporting

QA/QZ/Shoperyisgr

Organios Supervisor

R110689

1414 Stanislaus Street * Fresno, California 93706 * Telephone (209) 485-8310 * Fax (209) 485-7427

BSK Pleasanton P90103

Lab No. <u>Ch901611-1</u>

Report Date <u>5/30/90</u>

Sample Type Soil Date Sampled 5/16/90
Sample Description 0912 hrs. Date Received 5/18/90

SB-1 at 5-1/2' Date of Analyses 5/21/90

### Soil Analyses for BTXE and TVH

Compound	Results (mg/kg)	Detection Limit (DLR)
Benzene	ND ND ND ND ND ND	0.02 0.02 0.02 0.02 0.02

Method: BTXE-EPA 8020 TVH-EPA 8015M

ND-None Detected BDL-Below Detection Limit

DLR-Detection Limit For the Purposes of Reporting

on of succession

Organics Supervisor

R110689

# BSK Analytical Laboratories

FIGURE: A-11

1414 Stanislaus Street * Fresno, California 93706 * Telephone (209) 485-8310 * Fax (209) 485-7427

BSK Pleasanton P90103

Lab No. <u>Ch901611-2</u>

Report Date 5/30/90

Sample Type Soil Date Sampled 5/16/90

Sample Description 0922 hrs. Date Received 5/18/90

SB-1 at 10' Date of Analyses 5/21/90

#### Soil Analyses for BTXE and TVH

Compound	Results (mg/kg)	Detection Limit (DLR)
Benzene Toluene Ethylbenzene Total Xylene Isomers Total Volatile Hydrocarbons	1.2 1.2 3.3 2.9 260	0.02 0.02 0.02 0.02 10.

Method: BTXR-EPA 8020 TVH-EPA 8015M
ND-None Detected BDL-Below Detection Limit
DLR-Detection Limit For the Purposes of Reporting

Supervisor

Organics Supervisor

R110689

# BSK Analytical Laboratories

FIGURE: A-12

1414 Stanislaus Street * Fresno, California 93706 * Telephone (209) 485-8310 * Fax (209) 485-7427

BSK Pleasanton P90103

Lab No. <u>Ch901611-2</u>

Report Date <u>5/30/90</u>

Sample Type Soil Date Sampled 5/16/90

Sample Description 0922 hrs. Date Received 5/18/90

SB-1 at 10' Date of Analyses 5/22/90

## Soil Analyses for TPH

Compound	Results (mg/kg)	Detection Limit (DLR)
Total Petroleum Hydrocarbons	470	10

Method: TPH DHS GC/FID

ND-None Detected

BDL-Below Detection Limit

DLR-Detection Limit For the Purposes of Reporting

Michael Brechmann, Organics Supervisor

Cynthia Vignan ON OU Supervisor

^{*}This sample contains lower molecular weight hydrocarbons.

# **BSK** Analytical Laboratories

**FIGURE:**  $\Lambda$ -13

1414 Stanislaus Street * Fresno, California 93706 * Telephone (209) 485-8310 * Fax (209) 485-7427

BSK Pleasanton P90103

Lab No. <u>Ch901611-3</u>

Report Date <u>5/30/90</u>

Sample Type Soil Date Sampled 5/16/90

Sample Description 0935 hrs. Date Received 5/18/90

SB-1 at 12-1/2' Date of Analyses 5/21/90

## Soil Analyses for BTXE and TVH

Compound	Results (mg/kg)	Detection Limit (DLR)
Benzene Toluene Ethylbenzene Total Xylene Isomers Total Volatile Hydrocarbons	0.49 0.24 0.96 0.12 66	0.02 0.02 0.02 0.02 10.

Method: BTXE-EPA 8020 TVH-EPA 8015M

ND-None Detected BDL-Below Detection Limit

DLR-Detection Limit For the Purposes of Reporting

Or

Organics Supervisor

on the supplications

1414 Stanislaus Street * Fresno, California 93706 * Telephone (209) 485-8310 * Fax (209) 485-7427

BSK Pleasanton P90103

Lab No. <u>Ch901697-2</u>

Report Date <u>6/1/90</u>

Sample Type Water Date Sampled 5/24/90
Sample Description 1303 hrs. Date Received 5/25/90

MW-1, No. 1 Date of Analyses 5/30/90

## Water Analyses for BTXE and TVH

Compound	Results (ug/l)	Detection Limit (DLR)
Benzene	ND ND ND ND ND	0.5 0.5 0.5 0.5 50

Method: FTXE-EPA 8020 TVH-EPA 8015M

ND-None Detected BDL-Below Detection Limit

DLR-Detection Limit For the Purposes of Reporting

Cythnia/Vignan/

Michael Brechman Organics Supervisor

1414 Stanislaus Street * Fresno, California 93706 * Telephone (209) 485-8310 * Fax (209) 485-7427

BSK Pleasanton P90103

Lab No. <u>Ch901697-3</u>

Report Date 6/1/90

Sample Type Water Date Sampled 5/24/90
Sample Description 1412 hrs. Date Received 5/25/90

MW-2, No. 1 Date of Analyses 5/30/90

## Water Analyses for BTXE and TVH

Compound	Results (ug/l)	Detection Limit (DLR)
Benzene	ND ND ND ND ND	0.5 0.5 0.5 0.5 50

Mothod: BTXE-RPA 8020 TVH-EPA 8015M

ND-None Detected BDL-Below Detection Limit

DLR-Detection Limit For the Purposes of Reporting

Cythnia Figman QA/QC/Supervisor

Michael Brechman Organics Supervisor

1414 Stanislaus Street * Fresno, California 93706 * Telephone (209) 485-8310 * Fax (209) 485-7427

BSK Pleasanton P90103

Lab No. <u>Ch901697-1</u>

Report Date 6/1/90

Sample Type <u>Water</u> Date Sampled <u>5/24/90</u>

Sample Description 1239 hrs. Date Received 5/25/90

MW-3, No. 1 Date of Analyses 5/30/90

## Water Analyses for BTXE and TVH

Compound	Results (ug/l)	Detection Limit (DLR)
Benzene Toluene Ethylbenzene Total Xylene Isomers	ND ND ND ND	0.5 0.5 0.5 0.5
Total Volatile Hydrocarbons	ND	50

Method: BTXE-EPA 8020 TVH-EPA 8015M

ND-None Detected BDL-Below Detection Limit

DLR-Detection Limit For the Purposes of Reporting

Michael Brechman Organics Supervisor

Cychnie Pigman On Og Supervisor

Client Nar	ne BS	Project or	PO.# 2 / G <u>2</u>	,	· · · · ·	Lahi	Jse Onh		Analysis required								
Address	5729	FS	onoma Prive	Phone # 415 4	46Z 4	000		in this section	3	4/	/		£.,	/ /	Remark	100	
City, State PLE	. Zip cesantcy	, CA	94566 Repo	rt, attention TIM Berge					Ŕ			//		/		190	
Date	Time	Type (See kev	Sampled by Keith O'Co	mnell	Number of	Lab Sample	ole Seals		*//	JV.			/ /		3 to 1		
sampled	sampled	below)	Sample desc	enption	containers	number	(See key below)	/^	<u> </u>	<u>Y</u>	<u>/</u>	<u>/ /</u>		\zid ³ c5	Remar	ks	
<i>5/14/9</i> 0	0912	50	SB-lats/2		1	-1	P	×									
и	0922	so	3B-1 at 10'	1	-2		X	X									
t)	0935	50	3B-1 at 12/2	1	-3		×										
5/16/90	1138	50	mw-1 at s'/z'	1	-4		×							date on san, April (MW-	nces shown	þ	
ч	1150	ଓଓ	mw-1 at 10 1/z'	1	-5		×							April Cmw-	1)		
u	1208	50	mw-1 at 151/21	/	-6		X							1	$\Omega$		
5/17/90	0915	SO	mw-z at 51/2'	1	-7		x					<u> </u>		112	<i>b</i>		
Ц	0973	so	mw-z at 101/2' =		7	-8		Х							010		
ħ	0937	SO	mw-zaf151/2'		/	-9	V	X									
			IMPORTA	NT NOTICE: No samples	will be a	nalyzed	without a	an auth	orized	signatu	re in t	his section					l
these p	reby requesting ocedures are garge for this se	enerally c	ormal Chain-of-Custody Procedures consistent with those outlined in the	for the above samples. I under U.S. E-P.A. SW 846 add that the	stand that nere is no	thes	se proced nt of Work	ures are	genera	lly consi:	stent wi ere is a	ith those out charge of \$	ined in U	I.S. EPA	above samples. I unders Contract Laboratory Progr der or \$5.00 a bottle, which	am State-	
			Author	ized Signature							Ę	Ву:		Autho	rized Signature		1
		Signatur		Print Name	<del>-,,-</del>			7	<u> </u>		Compa	ny			Date - /-	Time	$\frac{1}{1}$
Relinquish	90 b	-12	full to	e. Th Ocone		-	ZSS	K-1	Plea.	scen	cn				5/17/90	<b>5</b> 7700	-
Received t	Received by Antholo South Kathleen					504		<u>E</u>	15 F	<u></u>					5/18/90	at 1610	£
Relinquish	elinquished by					-											
Received I	eceived by																
Relinquish	Relinquished by								·-··								
Received I	 ру																

Chemical Laboratories

KEY: Type: AQ-Aqueous SL-Sludge SO-Soil PE-Petroleum OT-Other Seals: P-Present A-Absent B-Broken

DISTRIBUTION: WHITE, CANARY - LABORATORY PINK - ORIGINATOR

Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

BSK Log N	lumber	• ·	1671	ANAI	LYSIS REC	QUEST/	CHAIN	OF CU	STODY	RECORE	•	ZC.					100	0-04	3.
Client Nar	me	BSK	- Plea santon		Project of	r P.O.#	3		Lab Use	Z			Analy	sis requ	ured		$\overline{}$		
Address	5779	F 501	noma Drive		Phone #	462 4			in this section	4	/ ,	/ /	/ /	/ ,	/ /		1	$\chi(I)$	`.
City, State	, zio Pleasan	iten,	CA 94566	Report, attention				···	] /	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\				<b>-</b> /k	, <i>a</i>		<b>-</b> 50		$\geq$
Date	Time	Туре	Campiod by		4	Number	Lab Sample		1 /3		/ /	/ /	<i>'</i>	//	/8	3 6	<u>د</u>		
sampled	sampled	(See key below)		le description		containers		(See key below)							\2 ³ 63	§ /	Rema	arks	
5/16/90	1015	50	MW-3 at 5.5'			1	-10	P	×										
"	1022	50	mw-3at 11'			1	-//		X									$\langle C \rangle$	
п	1043	SO	MW-3 at 15.5'		1	-2	11/	×							0	1			
																51			
					•														
	<u>!</u>		IMP	ORTANT NOTICE: N	lo samples	will be a	nalyzed	without :	an author	ized signa	ture in	this sec	ction.						
these pi	ereby requesting rocedures are narge for this s	generally	Normal Chain-of-Custody Proce consistent with those outlined	dures for the above sar in the U.S. E.PA. SW 8	mpies. I unde 46 and that t	rstand tha here is no	the: me	se proced	ures are de	enerally con	sistent w here is a	with those	e outline	ed in U.	S. EPA (	above samples Contract Labora ler or \$5.00 a b	tory Proc	ram State-	
		······································	Ву:	Authorized Signature			<u> </u>			· · · • · · · · · · · · · · · · · · · ·		Ву:			Author	nzed Signature			
	Signature										Compa					Da	ate	Time	
Relinquish	elinquished by Tan Beiger Tim Be					- 		89	SK-1	Heasa	n for	7				5/17	/90	1700	
Received I	by	alle	to South	Kathle	eins	rore	150 A	9		B5,						5118	120	1610	
Relinquish	ed by																		

BSK & Associates	Chemical Laboratories

Received by

Received by

Relinquished by

KEY: Type: AQ-Aqueous SL-Sludge SO-Soil PE-Petroleum OT-Other Seals: P-Present A-Absent B-Broken

DISTRIBUTION: WHITE, CANARY - LABORATORY PINK - ORIGINATOR

Samples are discarded 14 days after results are reported unless other arrangements are made.

Hazardous samples will be returned to client or disposed of at client expense.

FIGURE: A-18

BSK Log N	lumber		1,	597 ANALY	LYSIS REQUEST/CHAIN OF CUSTODY RECORD												1000	J-043 <b>4</b>		
Client Na	me BSK	-PU	asanton	<i>) / !</i>	Project o	r P.O.#	9010:	3		se Only	Z			Analys	sis requ	ired				
Address	5729 F	Sono	ma Prive		Phone # 4/5	46Z			in this section		\ <u>\</u> */	/ /	/	/	/ /	/ /		19()		
City, State	leasant	n CA	94566	Report, attention	Ber	ger			Jan	/◊		/ ,						110		
Date	Time sampled	Type (See key	Sampled by Tun Be	ge-		Number of	Lab Sample	Sample Seals	X	*						3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3				
sampled	Sampled	below)	Sam	ple description												Remarks				
SHYAC	12:39	AQ				7	- /	P.	$\times$									<u> </u>		
11	13:03	AQ	mw-1, No. 1 mw-z, No. 1			Z	-2		X								·			
11	14:12	AQ	mw-z, 16.1			Z	-3	V	×									E(SECENT)		
																	EXDE	MITE		
																	**************************************			
																	///			
																	017			
										,							,			
	_		IMI	PORTANT NOTICE: No	samples	will be a	nalyzed	without a	an auth	orized	signatu	re in th	nis sec	tion.						
these p	ereby requesting procedures are marge for this s	generally	lormal Chain-of-Custody Proc consistent with those outlined	edures for the above sam in the U.S. E.P.A. SW 84 Buyer	pies. I unde 6 and that t	erstand that there is no	the:	se proced nt of Work	ures are	genera	lly consi	stent wil	th those	outline	d in U.S	<ol><li>EPA Cor</li></ol>	ove samples. I under ntract Laboratory Prog or \$5.00 a bottle, which	ram State-		
			Ву:	Authorized Signature								В	y:			Authorize	d Signature	<del> </del>		
		Signatu	ıre		int Name							Compar	ıy				Date	Time		
Relinquish	ned by	In !	Berger	Tim Ber	ger			BS	K-Pa	lease	curle	n					5/24/90	16:00		
Received	by J	118	2000	(s)	<u>e_</u>				4	<u>S</u>							5/25	1300		
Relinquish	ned by																			
Received	by																			
Relinquish	ned by			,																
Received	by															,				
	_					KEY:	: Type: A	Q-Aqueo	ıs SL-S	iludge :	SO-Soil	PE-Pet	roleum	OT-Oth	er		FIG	URE: A-19		

BSK & Associates Chemical Laboratories

Seals: P-Present A-Absent B-Broken

DISTRIBUTION: WHITE, CANARY - LABORATORY PINK - ORIGINATOR

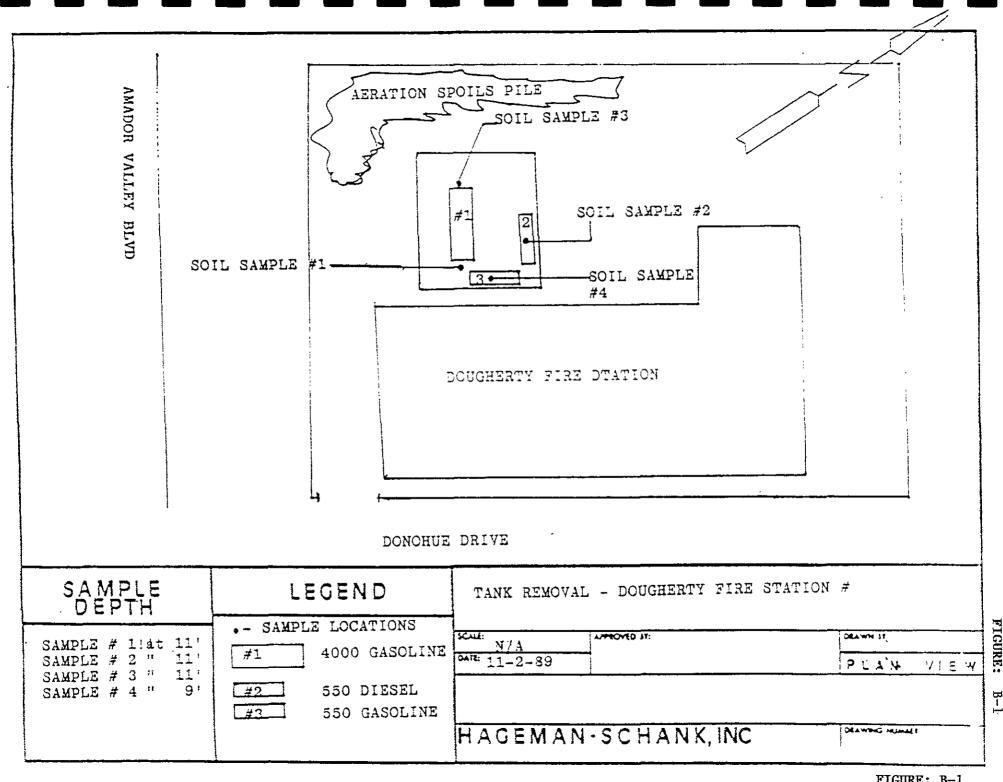
Samples are discarded 14 days after results are reported unless other arrangements are made.

Hazardous samples will be returned to client or disposed of at client expense.

## APPENDIX "B"

HAGEMAN SCHANK, INC. TANK REMOVAL REPORT





## CHROMALAB, INC.

2239 Omega Road, #1 • San Ramon, California 94583 415/831-1788 • Facsimile 415/831-8798 Chain of Custo

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					ā	2 3	550	3 %	122	₹9	4.	EKE.	2 3	(Dyon			5	2	15		}		i	!	
SAMPLERS (SIGNATUR	(5)		(PH)	ONE NO.}	- Gasoline 5030)	TPH - Gasoline (5030) W/HTEX (EPA 602, 8020)	THH - Diesel (EPA 3510, 3550)	PURGEABLE ANCHAYTICS BYEX (EPA 602, 8020)	FURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240)	BASE/NEUTRALS, ACIDS (EPA 624/627, 8270)	TOTAL OIL & GREASE (EPA 503DEE)	PESTICIDES/PCB	ES, ES			s: cd,	CAN NETALS (18) WCr VI	PRIORITY FOLLUTANT HETALS (13)						
SAMPLE IO.	DATE	TIME	MATRIX	LAB IG.	EP TE	TPH -	TPH (EPA	PURGE	PURGE (EPA	VOLAT (EPA	BASE/ (EPA	TOTAL CEPA	PEST	PHENOLS (EPA 604,			HETALS:	333	PRICE						
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DED 55#3	14/2	1 45	Soul			X															T		Ī		Ī
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																					<u> </u>				
PROJECT INFORM	NOITAN		SAMPL	E RECEIP	r		REL	NOUIS	HED	ву,/		. 1	1.	RELIN	QUISH	YE DB			2	RELU	NQU ISI	HED B	Y		
PROJECT.		TOTAL	NO. OF C	ONTAINE	RS	4		Du	كريبي	Tun	en	é_	1												
PQ NQ.		CHAIN	OF CUSTO	OY SEAL	s		Signa	turel		/		(Tim	ie)	(Signatu	re)			( <b>T</b> )	me)	Signa	ture)			(1	ııı
		REC'D	G000 C0N	OITION/C	OLD					/				75						<b>(D</b>					Dan
SHIPPING ID, NO.	REC'D GOOD CONDITION  HIPPING ID. NO. CONFORMS TO RECORD						(Print	ed Nam	16)			(Dat	2)	(Princed	Name	•		iD	ate)	(Printi	ed Nam	2)			ا ی لی
IA: LAB NO.							(Com	pany)						(Compa	ny)					Comp	iany)				
<del></del>							RECE	IVED	3 Y				1.	RECEN	/ED 31	t			2.	RECE	IVED 3	الم الم	808A	TCRY	
SPECIAL INSTRUCTION	ECIAL INSTRUCTIONS/COMMENTS:					۰		200	1/2	_		15-1	$\sim$						1						
24,	24 HOUR TURN AROUND				>		(Signa			<u></u>		7/2/2	er l	(Signatu	re)		-	(T)	me)	(Signa	imta) /			(*	Tic
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FIGURE: ,B-3

48158373827; Hgt

## CHROMALAB, INC.

Analytical Laboratory Specializing in GC-GC/MS

- Environmental Analysis
- Hazardous Waste
- Drinking Water
- Waste Water
- Research and Method Development
- Consultation

November 3, 1989

ChromaLab File # 1189009

Hageman-Schank, Inc.

Attn: Bruce Hageman

Re: Four RUSH soil samples for Gasoline/BTEX and Diesel

Project Name: N/A

Duration of Analysis: Nov. 2-3, 1989

Results:

Sample No.	Gasoline (mq/Kq)	Benzene (µg/Kg)	Toluene (µg/Kg)	Ethyl Benzene (Ug/Kg)	Total Xylenes (Ng/Kg)
DFD SS#1	980	2400	540	2500	2760
DFD SS#2	810	1100	290	4400	4500
DFD SS#3	130	N.D.	1.70	180	51
DFD SS#4	1500	2500	2800	10000	20000
BLANK SPIKE RECOVERY DETECTION LIHIT METHOD OF ANALYSIS MO	N.D.	N.D.	N.D.	N.D.	N.D.
	95.9%	86.6%	87.9%	100.6%	95.1%
	2.5	5.0	5.0	5.0	5.0
	D.8015	8020	8020	8020	8020

Sample No. Diesel (mq/Kq)

DFD SS#2

N.D.

BLANK N.D. SPIKE RECOVERY 99.1% DETECTION LIHIT 5.0 HETHOD OF ANALYSIS HOD.8015

ChromaLab, Inc.

David Duong Senior Chemist

Eric Tam

Laboratory Director

## CHROMALAB, INC.

2239 Omega Road, ≠1 • San Ramon, California 94583 415/831-1788 • Facsimile 415/831-8798

## Chain of Custoc

DATE 11-1-59 PAGE 1 OF 1 PROJ. MGR. BRUCE HAGEMAN ANALYSIS REQUEST PURGEABLE HALOCARBONS
(EPA 601, 8/10)
VOLATILE ORIGNICS
(EPA 624, 6240)
BASE/NEUTRALS, ACIDS
(EPA 624/627, 8270)
TOTAL OIL & GREASE
(EPA 50304E) PRIORITY FOLLUTANT NETALS (13) TPH - Dieset (EPA 3510, 3550) CAN NETALS (16) W/Cr VI SAMPLERS (SIGNATURE) LON BROHS! MATRIX LAB IO. SAMPLE ID. 2 RELINQUISHED BY 1. RELINQUISHED BY RELIMOUISHED BY PROJECT INFORMATION SAMPLE RECEIPT PROJECT: TOTAL NO. OF CONTAINERS DOLCHERT FIRE (Time) (Signature) (Time CHAIN OF CUSTODY SEALS (Signature) PQ NO. REC'D GOOD CONDITION/COLD (Printed Name) Oate (Date) (Date) [Printed Name) (Printed Name) SHIPPING ID, NO. CONFORMS TO RECORD (Company) (Company) LAB NO. VIA: 2. RECEIVED BY (LABORATORY) RECEIVED BY SPECIAL INSTRUCTIONS/COMMENTS: (Time (Time) (Signature) (Signature) DAT (Date) (Printed Name) (Printed Name) (444) (Company) CHROMALAS INC (Company)

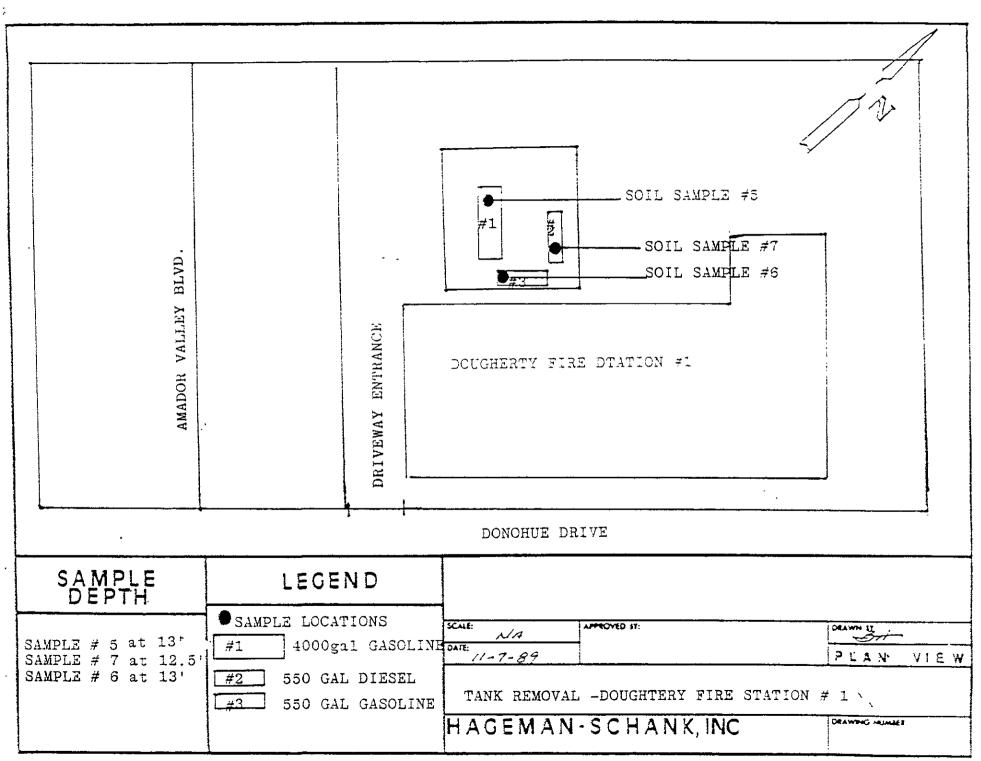


FIGURE: B-5

4158318798-₹1158₹13827;# 1

иел 19:38 415-831-8798 HOV--15-89

## CHROMALAB, INC.

Analytical Laboratory Specializing in GC-GC/MS

- Environmental Analysis
- Hazardous Waste (#238)
- Drinking Water (#955)
- Waste Water
- Consultation

November 15, 1989

ChromaLab File # 1189037

Hageman-Schank, Inc.

Attn: Bruce Hageman

Three soil samples for BTEX and Gasoline analysis

Project Name: DOUGHAERTY FIRE DEPARTMENT Duration of Analysis: November 10-14, 1989

#### RESULTS:

				Ethyl	Total	
Sample	Gasoline	Benzene	Toluene	Benzene	Xylenes	
No.	(mg/Kg)	<u>(µq/Kq)</u>	(µq/Kq)	(µq/Kq)	(µq/Kq)	-
		<b>.</b>			42 15	
DFD #5	N.D.	8.1	N.D.	N.D.	N.D.	
DFD #6	560	2200	1700	3300	6500	
DFD #7	220	280	930	1200	230	
BLANK	N.D.	N.D.	N.D.	N.D.	N.D.	
SPIKE RECOVERY	94.9%	82.8%	85.7%	96.3%	104.8%	
DETECTION LIMIT	2.5	5.0	5.0	5.0	5.0	
METHOD OF						
ANALYSIS MO	D.8015	8020	8020	8020	8020	

ChromaLab, Inc.

-David Duong

Senior Chemist

Eric Tam

Laboratory Director



## BAY AREA AIR QUALITY MANAGEMENT DISTRICT

RIGIDALLIS STREET SAN FRANCISCO DALLEDRMA RA 19 A15: 111 AUCO

## REGULATION 8, RULE 40 Aeration of Contaminanted Soil and Removal of Underground Storage Tanks

## **NOTIFICATION FORM**

	Removal or Replacement of Tanks
页	Excavation of Contaminated Soil

S	ITE INFORMATION
SITE ADDRESS 7494 DONOHUE DRIVE CITY, STATE, ZIP DUBLIN, CA 94568	AVIONADIAM
OWNER NAME DOUGHERTY REGIONAL FIRE	
SPECIFIC LOCATION OF PROJECT DRIECTLY BEHI	· · · · · · · · · · · · · · · · · · ·
TANK REMOVAL	CONTAMINATED SOIL EXCAVATION
SCHEDULED STARTUP DATE	SCHEDULED STARTUP DATE 11/8/89
VAPORS REMOVED BY:	STOCKPILES WILL BE COVERED? YES X NO
[ ] WATER WASH	ALTERNATIVE METHOD OF AERATION (DESCRIBE BELOW): AERATION OF APPROX 40 CUBIC YARDS OF
[ ] VAPOR FREEING (CO ² ) [ ] VENTILATION	SOIL FROM GASOLINE TANK EXCAVATION, AVG. CONTAMINATION LEVEL LESS THAN 1000 ppm
CONTE	RACTOR INFORMATION
NAME	CONTACT
	PHONE ( )
CITY, STATE, ZIP	
CONSI	JLTANT INFORMATION (IF APPLICABLE)
NAME HAGEMAN-SCHANK, INC.	CONTACT BRUCE HAGEMAN - GARY AGUIAR
ADDRESS 2321 CROW CANYON ROAD CITY, STATE, ZIP SAN RAMON, CA 94583	PHONE (415) 837-2926
FOR OFFICE USE ONLY	
DATE RECEIVED	BY
CC: INSPECTOR NO. DAT	(INIT.) TE BY (INIT.)
TELEPHONE UPDATE: CALLER	

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CROW CANYOR RAMON, CALII 837-2926  ord pe Sol	roknia 94	583	NORMAL Composit AS ONE	E CSSE, THE SAMPLE DY RECORD (2)	PROJECT  PROJECT  PROJECT  PROJECT  PROJECT  PROJECT  PROJECT  PROJECT	NO. BOIL	
Container	Type Bean	Luce	Labor:	atory Reco		Contract L Laboratory	aboratory	Record
imple ID  DEC.  JFD  CSSF2	Sampled By  Both	Date 1/24/59	Received By	Date	Condition	Received By	Date	<u>Condition</u>
2F.0 C55#3 D.A.2 C55 #4 D.F.D.	3H 3H	11		James Brx	SITE AS C E & TPI+ A	INE 15 GH SLINIE		
055 ±5 0,F0 055#6	<u>B4</u>	-						
DFD 255#8	DF	D#1 D#2			DOSITE A DE TOH	S ONE AS GASCLAN	<del></del>	
Released to Received b	O Courier R	71014 0						
Deuc	Agu	cece	ersonnel Re	leased To	Lab by Couris	Released	to Lab by	Courser
· Received b	y Courier		Re	ceived by	Lab	Received	by Lab	

FIGURE: B-8

FIGURE: B-9

## CHROMALAB, INC.

Analytical Laboratory
Specializing in GC-GC/MS

Environmental Analysis

Hazardous Waste (#238)

Drinking Water (#955)

Waste Water

Consultation

December 1, 1989

ChromaLab File # 1189127

Hageman Schank, Inc.

Attn: Bruce Hageman

Re: Two composited soil samples for Gasoline/BTEX analyses

Project Name: Doughery Fire Station #1, soil aeration Duration of Analysis: Nov. 28, Dec. 4, 1989

#### Results:

Sample No.	Gasoline (mg/Kg)	Benzene (µq/Kg)	Toluene (µg/Kg)	Ethyl Benzene (µg/Kg)	Total Xylenes (µq/Kg)
DED CSS #1-5	5.6	М.D.	N.D.	N.D.	N.D.
DED CSS #6-10	2.9	М.D.		N.D.	N.D.
BLANK	N.D.	N.D.	N.D.	N.D.	N.D.
SPIKE RECOVERY	102.2%	103.1%	94.7%	81.9%	96.8%
DETECTION LIMI	T 2.5	5.0	5.0	5.0	5.0
METHOD OF ANALYSIS MO	OD.8015	8020	8020	8020	8020

Chromatah, Inc.

David buong

Senior Chemist

Eric Tam

Laboratory Director

	UNDERGROUND STORAGE TANK UNAUTHORIZE	ED RELEASE (LEAK) / CONTAMINATION SITE REPORT	•
	HAS STATE OFFICE OF EMERIGENCY SERVICES  REPORT SEEN FLED?  YES Y NO  ORI DATE  CASE *	FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THA REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25 THE HEALTH AND SAFTY CODE.	IŤ I HAVE 5180,7 OF
1	u 1 u 0 d 5 d 8 d	SKINED	***************************************
	NAME OF INDIVIDUAL FILING REPORT PHONE		
<u></u>	BRUCE HAGEMAN (41:	5) 837-2926 True Segue	·
EPORTED.	LOCAL AGENCY OTHER	HAGEMAN-SCHANK, INC	
þ	ADDRESS		*******
	7494 DONOHUE DRIVE	OITY DUBLIN STATECA 9454	68
SPONS BLE PARTY	DOUGHERTY REGIONAL FIRE AUTHORITY	TOM HATHCOX, FIRE MARSHAL 415-829-	-233
8 4	ADDRESS		
2	9399 BIPRET FIRCREST LANE	GITY SAN RAMON STATECA 9458	3
	FACILITY NAME (IF APPLICABLE)	F. M. TOM HATHCOX (415)829-23	222
LOCATION	DOUGHERTY FIRE STATION # 1		
ğ	7494 DONOHUE DRIVE	GRY DUBLIN ALAMEDA 945	P
동	CROSS STREET TYPE OF AREA X COMM		
-	NR. AMADOR VALLEY BLYD TRESIDENTIAL OF AGENCY NAME	CONTACT PERSON PHONE	LA.
MPLEMENTING AGENCIES	ALAMEDA_COUNTY_HEALTH	MR. GIL WISTAR (413271-43	320
98	REGIONAL BOARD	PHONE	
	SAN FRANCISCO BAY	LES FELDMAN ( )	·····
Ž 6	GASOLINE REGULAR	X UN	•
SUBSTANCES ANOLVED	(7)		***************************************
		INTORY CONTROL   SUBSURFACE MONITORING   NUISANCE CONT	KNOWN
RATEMENT	l	K REMOVAL OTHER	JIII ()
18	DATE DISCHANGE BEGAN	METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY)	
E S	M M O O Y Y X UNIGNOWN  14AS DISCHARGE BEEN STOPPED ?		er ine
DISCOVER	$\square$ Yes $\square$ NO FYES, DATE $1_{ul}$ $1_{ul}$ $0_{ul}$ $2_{ul}$ $0_{ul}$ $2_{ul}$ $8_{ul}$ $9_{ul}$	OTHER	ACL/OTHE
ᇒ	SOURCE OF DISCHARGE TANKS ONLY/CAPACITY	MATERIAL CAUBE(9)	***************************************
3	TANKLEAK UNKNOWN GAL.	FIBERGLASS OVERFILL BUPTURES  STEEL CORROGION UNKNOWN	ALUNE
SOURCECAUSE	PIPINGLEAK AGE YRB	X STEEL   X CORROBION   UNKNOWN	
CASE TYPE	CHECK ONE ONLY		
	WINDETERMINED SOIL ONLY GROUNDWATER [	DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFI	ECTED)
CURRENT STATUS	BITE INVESTIGATION IN PROGRESS (DEFINING EXTENT OF PROBLEM)	CLEANUP IN PROGRESS SKINED OFF (CLEANUP COMPLETED OR UNNECE)	89ARY)
3 5	NO ACTION TAKEN POST CLEANUP MONITORING IN PROGRESS	NO FUNDS AVAILABLE TO PROCEED EVALUATING CLEANUP ALTERNO	ATIVE8
_ او	CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS)  CAP SITE (CD)  EXCAVATE & DISPOSE (ED)	REMOVE FREE PRODUCT (FP) ENHANCED BIO DEGRADATI	1011 (17)
PENEDIAL ACTION	CAP SITE (CD) EXCAVATE & DISPOSE (ED)  CONTAINMENT BARRIER (CB) EXCAVATE & TREAT (ET)	PUMP & TREAT GROUNDWATER (GT) REPLACE SUPPLY (RS)	MONT (III)
W -	TREATMENT AT HOOKUP (HU) NO ACTION REQUIRED (NA)	OTHER (OT) TO BE DETERMINED	*** <b></b>
n	•		· · · · · · · · · · · · · · · · · · ·
COMMENTS			
- 3			