QUARTERLY GROUNDWATER MONITORING AND SAMPLLING AT THE PROPERTY LOCATED AT 3609 EAST 14TH STREET OAKLAND, CALIFORNIA JULY 31, 1997

PREPARED FOR:
MR. ABOLGHASSEM RAZI
TONY'S EXPRESS AUTO SERVICES
3609 EAST 14TH STREET
OAKLAND, CALIFORNIA 94601

BY: SOIL TECH ENGINEERING, INC. 1761 JUNCTION AVENUE SAN JOSE, CALIFORNIA 95112

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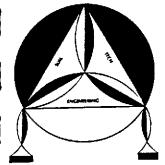
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July 31, 1997

File No. 7-92-514-SA

Mr. Abolghassem Razi Tony's Express Auto Services 3609 East 14th Street Oakland, California 94601

SUBJECT: QUARTERLY GROUNDWATER MONITORING AND SAMPLING AT THE PROPERTY

Located at 3609 East 14th Street, in Oakland, California

Dear Mr. Razi:

This report presents the results of quarterly groundwater monitoring and sampling conducted by Soil Tech Engineering, Inc. (STE), on July 21, 1997, at the subject site (Figure 1).

SITE DESCRIPTION:

The site is located at the intersection of 36th Avenue and East 14th Street, in Oakland, California (Figure 1). The site is relatively flat and the area in the vicinity consists mainly of light commercial businesses and residential buildings (Figure 1).

BACKGROUND:

In July 1993, three fuel tanks and a waste oil tank were removed by Alpha Geo Services (AGS). STE was retained to conduct soil sampling from the tanks excavation area and the old piping associated with the fuel tanks. All soil sampling was conducted under the supervision of Alameda County Health Department staff Mr. Barney Chan.

Soil samples from the tank areas were taken at approximately 12 feet depth, soil samples from the waste oil tank area were taken at approximately 7 feet, and the piping areas ranged from 2 to 5 feet below grade, respectively. Soil analyses from the tank excavation detected low to moderate levels of Total Petroleum Hydrocarbons as gasoline (TPHg) ranging from 2.1 to a maximum of 640 milligrams per kilogram (mg/Kg). Soil samples from the old piping areas showed elevated TPHg ranging from 75 to a maximum of 4,100 mg/Kg. No hydrocarbons nor Volatile Organic Compounds (VOCs) were detected in the waste oil tank excavation area. The details of the soil sampling event are described in STE's report titled "Soil Sampling Below Removed Underground Tanks at Tony's Express Station...", dated July 27, 1993.

Due to the elevated TPHg, Alameda County Health Department requested a work plan for subsurface investigation in a letter, dated August 6, 1993. Therefore, STE prepared a preliminary site assessment work plan, dated August 15, 1993. The work plan was submitted to the Alameda County Health Department for approval. The county approved the plan in a letter, dated August 18, 1993.

The objective of the proposed work plan was to assess the extent of dissolved petroleum hydrocarbons beneath the site in order to determine whether or not the groundwater beneath the site has been impacted.

In August, 1993, STE conducted an interim corrective action and preliminary soil and groundwater investigation by drilling thirteen soil borings and converting three into monitoring wells. Monitoring wells STMW-1, STMW-2 and STMW-3 were drilled in the vicinity of the former underground fuel tanks. Groundwater was first encountered at a depth of 16 feet below grade during drilling operation. STE recommended quarterly groundwater monitoring and sampling for at least one year to further evaluate the site condition as required by Alameda County Health Department.

The details of preliminary soil and groundwater investigation is described in STE's report titled "Interim Corrective Action & Preliminary Soil & Groundwater Investigation for Tony's Express Service Station" dated November 8, 1993.

To allow for future in-situ remediation of impacted soils which were difficult to reach, four vertical 6-inch diameter soil vapor extraction probes were installed in four soil borings. In addition, two horizontal perforated pipes were installed connecting four soil borings and two horizontal perforated pipes were installed next to the two dispenser islands. These six probes were connected by non-perforated pipes to a vault in front of the northeast corner of the site building.

All impacted soils removed during excavation of former tanks and over-excavation of contaminated soil were bio-remediated on-site. When contaminant levels were acceptably low, a letter of request for disposal was sent to Redwood Landfill in Novato, California. A copy of STE's letter to Redwood Landfill requesting the disposal of treated soil along with soil analyses was included in the November 1993 request.

Three quarterly monitoring of the three on-site wells were conducted by STE in December 1994, March 1995 and June 1995. The results of these groundwater monitoring and sampling activities are presented in our reports dated December 8, 1994, March 10, 1995 and June 13, 1995. The groundwater level had risen from approximately 15 feet below grade during our initial sampling in October 1993 to approximately 9 to 10 feet below grade during the quarterly monitoring in June 1995.

Low to moderate levels of TPHg and BTEX were detected in the groundwater for the last three quarters. Levels of contaminants were lower in March 1995 than in December 1994. Levels of contaminants have decreased significantly compared to the initial sampling activity in October 1993 which could be due to the high groundwater elevation and dissolution. Groundwater flow direction has been to the south-southeast during all three monitoring and sampling events.

Additional five monitoring wells (STMW-4 through STMW-8) were installed in August 1995. The details of additional investigation is described in STE's report dated October 9, 1995. Since then, all the wells have been monitored and sampled on a quarterly basis.

An additional subsurface investigation was conducted by STE on August 13 and September 7, 1996 per its May 13, 1996 work plan and ACHD's August 1, 1996 recommendations for amendments to the work plan. During this phase of investigation, five boreholes were drilled, soil and grab groundwater samples were collected from each of these borings, and based on the analytical results for TPHg and BTEX, three boreholes were converted to monitoring wells. These three newly installed monitoring wells (STMW-9, STMW-10 and STMW-11) along with five existing on-site wells (STMW-2, STMW-3, STMW-4, STMW-6 and STMW-8) were monitored and sampled. STMW-1, STMW-5 and STMW-7 were monitored but not sampled per ACHD.

The details of this additional sub-surface investigation is described in STE's October 15, 1996 report titled "Additional Subsurface Investigation...".

SCOPE OF PRESENT WORK:

The scope of present work comprised:

- Monitoring wells STMW-1 through STMW-8, STMW-10 and STMW-11 for presence of sheen/odor and measuring the depth-to-water
- Purging the seven monitoring wells (STMW-2, STMW-3, STMW-4, STMW-6, STMW-8, STMW-10 and STMW-11) prior to sampling
- Sampling the seven monitoring wells (STMW-2, STMW-3, STMW-4, STMW-6, STMW-8, STMW-10 and STMW-11).
- Submitting water samples to a state-certified laboratory for analysis of Total Petroleum Hydrocarbons as gasoline (TPHg), Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX) and Methyl Tertiary Butyl Ether (MTBE). In addition, water sample from monitoring well STMW-6 was analyzed for Total Oil & Grease (TOG)
- Reviewing results and preparing a report of the investigation

CURRENT FIELD WORK:

GROUNDWATER MONITORING:

On July 21, 1997, STE's staff monitored ten on-site monitoring wells (STMW-1 through STMW-8, STMW-10 and STMW-11) to measure the water depth and check for presence of sheen and/or odor. No sheen or odor were detected in monitoring wells STMW-4, STMW-5, STMW-10 and STMW-11. Monitoring wells STMW-2 and STMW-8 detected no sheen and very light sewerage odor. Monitoring wells STMW-1 and STMW-3 detected brown sheen spots and light petroleum odor. Monitoring well STMW-6 detected rainbow sheen spots and light petroleum odor, while well STMW-7 detected very light sewerage odor. The groundwater levels ranged from 12.41 feet to 14.59 feet below ground surface. Table 1 summarizes the depth to groundwater measurements and observations made.

Monitoring well STMW-9 was not monitored or sampled because it was decommission on December 9, 1996.

GROUNDWATER SAMPLING:

Following groundwater monitoring, the wells were purged at least five well volumes and sampled in accordance with STE's Standard Operation Procedures (see Appendix "C"), which contains state and local guidelines for sampling of monitoring wells.

The water samples were placed in a cool ice chest and submitted to Priority Environmental Labs, a state-certified laboratory with appropriate chain-of-custody.

All seven water samples were analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg) per EPA Methods 5030/8015, Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX) and Methyl Tertiary Butyl Ether (MTBE) per EPA Method 602. In addition, water sample from monitoring well STMW-6 was analyzed for Total Oil & Grease (TOG).

GROUNDWATER FLOW:

Water elevation data were used to determine groundwater flow direction. Table 1 summarizes the groundwater elevations. The groundwater flow direction beneath the site was in a southwesterly direction as of July 21, 1997 (Figure 2).

ANALYTICAL RESULTS:

Laboratory analytical results of water samples from monitoring well STMW-11 detected TPHg and BTEX below laboratory detection limit. Water sample from well STMW-2 detected low levels of TPHg (23 mg/L) and BTEX (0.072 mg/L, 0.045 mg/L, 0.02 mg/L and 0.066 mg/L). Water sample from well STMW-3 detected low levels of TPHg (59 mg/L) and BTEX (0.14 mg/L, 0.12 mg/L, 0.045 mg/L and 0.096 mg/L). Water sample from well STMW-4 detected TPHg at 4.3 mg/L and BTEX at (0.016 mg/L; 0.0043 mg/L; 0.0009 mg/L and 0.0091 mg/L), respectively. Water sample from well STMW-6 detected low levels of TPHg (24 mg/L), very low levels of BTEX (0.057 mg/L;

0.065 mg/L, 0.028 mg/L and 0.065 mg/L) and TOG (0.0008 mg/L). Monitoring well STMW-8 detected TPHg at 21 mg/L and BTEX at (0.084 mg/L, 0.036 mg/L, 0.1 mg/L and 0.069 mg/L), respectively. Monitoring well STMW-10 detected very low levels of TPHg (1.7 mg/L) and BTX (0.012 mg/l, 0.0006 mg/L and 0.0031 mg/L) in the water sample. MTBE concentrations were below laboratory detection limit in all seven monitoring wells. The laboratory results are summarized in Table 1, and the laboratory report is enclosed with this report (Appendix "D").

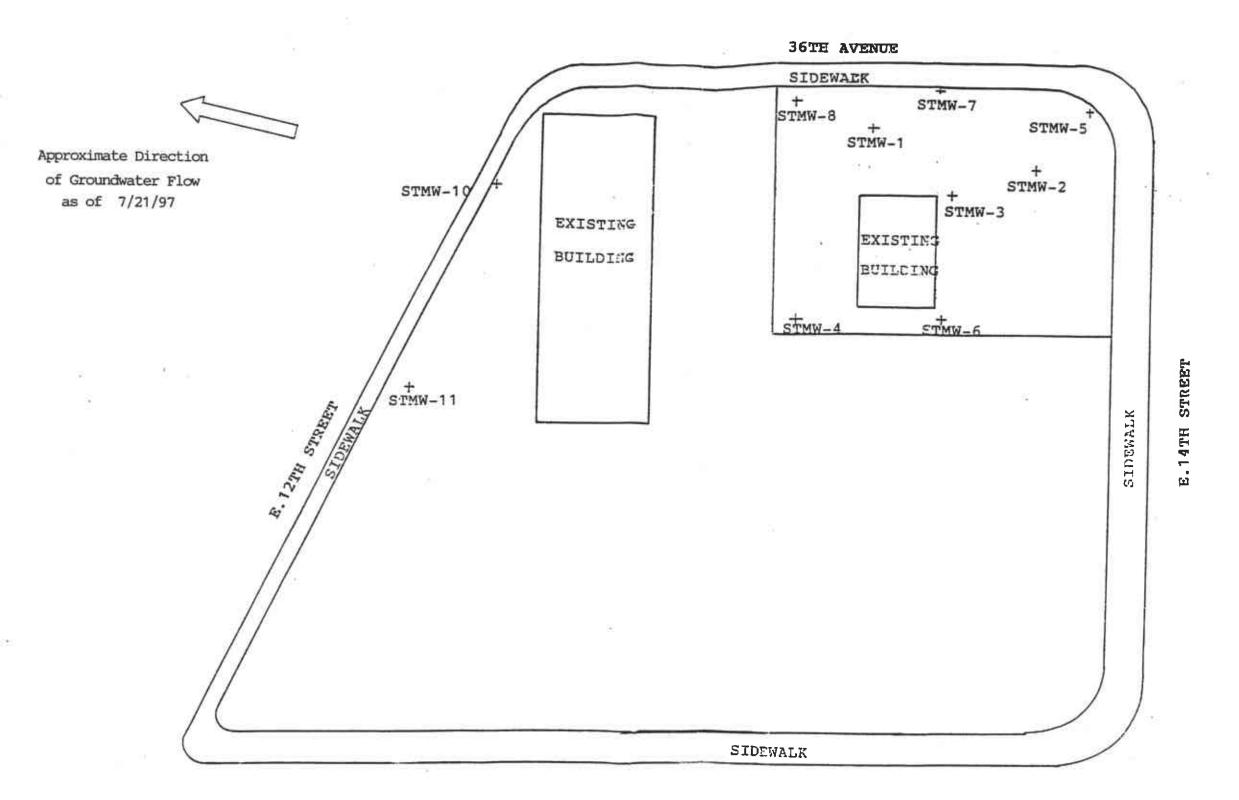
SUMMARY:

A comparison of the recent groundwater analytical results with the last quarterly sampling (April 1997) shows reduced levels of TPHg and BTEX in monitoring wells STMW-2 and STMW-8. A slight increase levels of TPHg and BTEX were noted in well STMW-3 and STMW-4. A slight increase levels of TPHg in monitoring wells STMW-6 and STMW-10, and a decrease of BTEX in these two wells. TPHg and BTEX levels remain the same in well STMW-3. A slight increase level of TOG in monitoring well STMW-6. MTBE concentrations were below laboratory detection limit in all seven monitoring wells.

RECOMMENDATIONS:

STE recommends the continuation of quarterly monitoring and sampling of the ten on-site wells.

A copy of this report should be forwarded to ACHD and Regional Water Quality Control Board (RWQCB).



37TH AVENUE

TONY'S EXPRESS AUTO SERVICES

SCALE: 1"=40"

DATE: 7/21/97 7-92-514-SA REVISED

3609 E. 14TH STREET OAKLAND CA, 94601

DRAWING N

LEGEND

MONITORING WELL

APPENDIX "B"

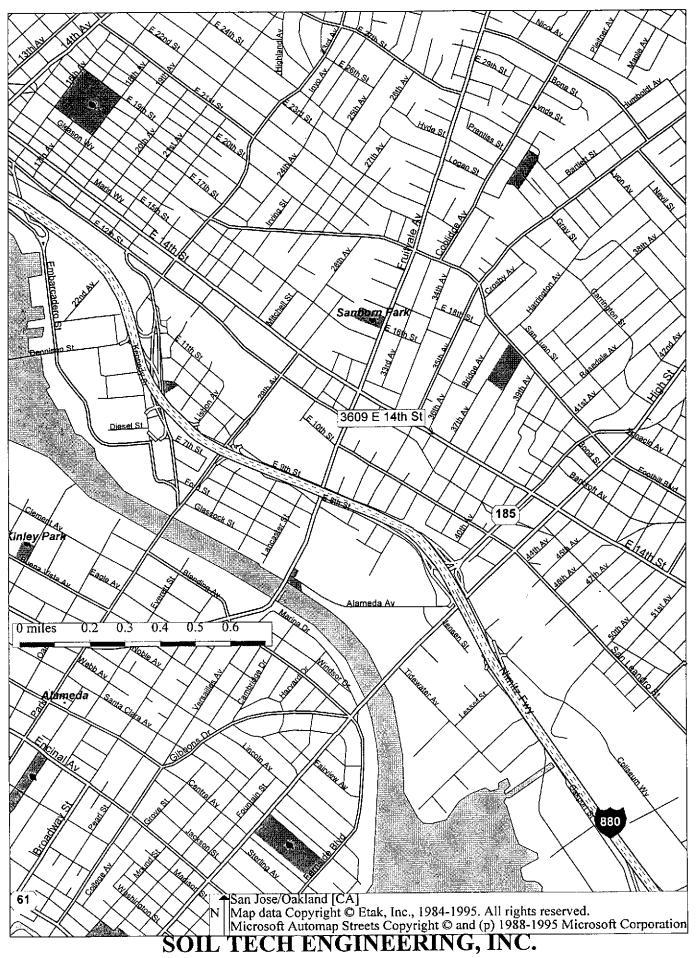


Figure 1

APPENDIX "C"

GROUNDWATER SAMPLING PROCEDURE

Prior to collection of groundwater samples, all of the sampling equipment (i.e. bailer, cables, bladder pump, discharge lines and etc.) was cleaned by pumping TSP water solution followed by distilled water.

Prior to purging, the well "Water Sampling Field Survey Forms" were filled out (depth to water and total depth of water column were measured and recorded). The well was then bailed or pumped to remove four to ten well volumes or until the discharged water temperature, conductivity and pH stabilized. "Stabilized" is defined as three consecutive readings within 15% of one another.

The groundwater sample was collected when the water level in the well recovered to 80% of its static level.

Forty milliliter (ml.), glass volatile organic analysis (VOA) vials with Teflon septa were used as sample containers. The groundwater sample was decanted into each VOA vial in such a manner that there was a meniscus at the top. The cap was quickly placed over the top of the vial and securely tightened. The VOA vial was then inverted and tapped to see if air bubbles were present. If none were present, the sample was labeled and refrigerated for delivery under chain-of-custody to the laboratory. The label information would include a sample identification number, job identification number, date, time, type of analysis requested, and the sampler's name.

APPENDIX "D"

SOIL TECH ENGINEERING, INC.



PRIORITY ENVIRONMENTAL LABS

President Environmental Analytical Laboratory

July 24, 1997

PEL # 9707033

SOIL TECH ENGINEERING

Attn: Noori Ameli

Re: Seven water samples for Gasoline/BTEX with MTBE and

Oil & Grease analyses.

Project name: 3609 E. 14th St., - Oaklans

Project number: 7-92-514-SA

Date sampled: Jul 21, 1997

Date extracted: Jul 22-24, 1997

Date submitted: Jul 22, 1997 Date analyzed: Jul 22-24, 1997

RESULTS: y

SAMPLE	Gasoline	MTBE	Benzene	Toluene	Ethyl Benzene	Total Xylene	Oil & Grease
I.D.	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(mg/L)
OMMIL 3	22000	N D	72	45	20	66	
STMW-2	23000	N.D.	140	120	45	96	
STMW-3	59000 4300	N.D. N.D.	140	4.3	0.9	9.1	
STMW-4	24000	N.D.	57	65	28	65	0.8
STMW-6 STMW-8	21000	N.D.	84	36	100	69	
STMW-8 STMW-10	1700	N.D.	12	0.6	N.D.	3.1	
STMW-11	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	81.9%		86.8%	80.7%	84.4%	82.9%	
Detection limit	50	0.5	0.5	0.5	0.5	0.5	0.5
Method of Analysis	5030 / 8015	602	602	602	602	602	5520 C & F

Tel: 408-946-9635

David Duong Laboratory Director

1764 Houret Court Milpitas, CA. 95035

Fax: 408-946-9660



Environmental and Geotechnical Engineers

761 And Samos

LIMITATIONS:

This report and the associated work has been provided in accordance with the general principles and practices currently employed in the environmental consulting profession. The contents of this report reflect the conditions of the site at this particular time. The findings of this report are based on:

- 1. The observations of field personnel.
- 2. The results of laboratory analyses performed by a state-certified laboratory.

It is possible that variations in the soil and groundwater could exist beyond the points explored in this investigation. Also, changes in groundwater conditions of a property can occur with the passage of time due to variations in rainfall, temperature, regional water usage and other natural processes or the works of man on this property or adjacent properties.

This report is issued with the understanding that it is the responsibility of this owner or his/her representative to ensure that the information and recommendations contained herein are called to the attention of the Local Environmental Agency.

Services performed by STE have been in accordance with generally accepted environmental professional practices for the nature and conditions of the work completed in the same or similar localities, at the time the work was performed. This report is not meant to represent a legal opinion. No other warranty, express or implied is made.

If you have any questions or require additional information, please contact our office at (408) 441-1881 at your convenience.

Sincerely,

SOIL TECH ENGINEERING, INC.

NOORI AMELI

PROJECT ENGINEER

LAWRENCE KOO, P. E.

C. E. #34928

FRANK HAMEDI-FARD

GENERAL MANAGER

APPENDIX "A"

TABLE 1
GROUNDWATER MONITORING DATA (feet)
AND ANALYTICAL RESULTS (mg/L)

Date	Well No./	Depth of	Depth	Depth to	GW	Well Observation	TPHg	В	T	E	X	MTBE	TOG
	Elevation	Well	to Perf.	Water	Elev.								
10/05/93	STMW-1	30	10	15.39	82.60	Brown sheen spots	320	24	21	2:6	15	NA	NA
	(97.99)					Light petroleum odor							
12/02/94				9.32	88.67	Rainbow sheen spots	80	3.8	6.6	2.3	11	NA	NA
						Light petroleum odor							
3/06/95				8.07	89.92	Brown sheen spots	32	0.19	0.16	0.15	0.49	NA	NA
						Mild petroleum odor	İ						
6/05/95				9.53	88.46	Brown sheen spots	21	0.95	0.65	0.57	1.5	NA	ΝA
						Mild petroleum odor							
10/02/95				13.29	84.70	Rainbow sheen spots	59	0.14	0.13	0.14	0.39	NA	NA
ı						Mild petroleum odor	l]				<u> </u>	
1/03/96				10.07	87.92	Rainbow sheen spots	30	0.071	0.073	0.05	0.12	NA	NA
	1]			Mild petroleum odor							
4/03/96				8.26	89.73	Rainbow sheen spots	31	0.098	0.012	0.063	0.17	NA	NA
]	Mild petroleum odor		L			l		
9/12/96				14.06	83.93	No sheen/Very	NA	NA	NA	NA	NA	NA	NA
	ļ					light petroleum odor		<u> </u>					
12/09/96	1			11.67	86.93	No sheen/Very	NA	NA	NA	NA	NA	NA	NA
] _		light petroleum odor							
4/10/97				11.14	86.85	Rainbow sheen spots	NA	NA	NA	NA	NA	NA	NA
						Mild petroleum odor							

TPHg - Total Petroleum Hydrocarbons as gasoline

TOG - Total Oil & Grease

ND - Not Detected

GW Elev. - Groundwater Elevation

BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes

MTBE - Methyl Tertiary Butyl Ether

NA - Not Analyzed

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	В	T	E	X	MTBE	TOG
7/21/97	STMW-1 (97.99)	30	10	14.00	83.99	Brown sheen spots Light petroleum odor	NA	NA	NA	NA	NA	NA	NA
10/05/93	STMW-2 (98.58)	30	10	15.36	83.22	No sheen or odor	260	17	19	0.57	10	NA	NA
12/02/94				8.60	89.98	No sheen Mild sewerage odor	42	1.7	2.2	1.2	3.6	NA	NA
3/06/95				7.68	90.90	No sheen or odor	0.49	0.0032	0.0026	0.0016	0.0059	NA	NA
6/05/95				9.59	88.99	No sheen/Very light petroleum odor	8.0	0.22	0.33	0.35	0.66	NA	NA
10/02/95				13.42	85.16	No sheen/Very light petroleum odor	46	0.16	0.13	0,093	0.24	NA	NA
1/03/96	_			9.93	88.65	No sheen/Very light sewerage odor	3.4	0.0076	0.013	0.0074	0.026	NA	NA
4/03/96				8.13	90.45	No sheen/Very light sewerage odor	27	0.10	0.092	0.044	0.13	NA	NA
9/12/96				14.15	84.43	No sheen/Very light sewerage odor	19	0.21	0.22	0.11	0.40	ND	NA

TPHg - Total Petroleum Hydrocarbons as gasoline

TOG - Total Oil & Grease

ND - Not Detected

GW Elev. - Groundwater Elevation

BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes

MTBE - Methyl Tertiary Butyl Ether

NA - Not Analyzed

Date	Well No./	Depth of	Depth to	Depth to	GW	Well Observation	TPHg	В	Т	E	X	MTBE	TOG
	Elevation	Well	Perf.	Water	Elev.				,				
12/09/96	STWM-2 (98.58)	30	10	11.40	87.18	No sheen or odor	6.2	0.011	0.0066	0.0021	0.014	ND	NA
4/10/97				11.18	87.40	No sheen/Very light sewerage odor	53	0.15	0.11	0.037	0.12	ND	NA
7/21/97				14.03	84.55	No sheen/Very light petroleum odor	23	0.072	0.045	0.02	0.066	ND	NA
10/05/93	STMW-3 (97.78)	30	10	16.79	80.99	NMFP/Very strong petroleum odor	30,000	190	740	310	1,300	NA	NA
12/02/94				9.79	87.99	NMFP Strong petroleum odor	250	19	22	4.4	28	NA	NA
3/06/95				8.69	89.09	No sheen /Very light petroleum odor	21	0.08	0.073	0.035	0.13	NA	NA
6/05/95				10.25	87.53	Brown sheen spots Strong petroleum odor	350	20	42	5.8	36	NA	NA
10/02/95				12.91	84.87	Rainbow sheen spots Strong petroleum odor	150	0.51	0.41	0.21	0.65	NA	NA
1/03/96				10.55	87.23	Rainbow sheen spots Strong petroleum odor	190	0.29	0.27	0.097	0.89	NA	ΝA

TPHg - Total Petroleum Hydrocarbons as gasoline

TOG - Total Oil & Grease

ND - Not Detected

GW Elev. - Groundwater Elevation

NMFP - Non-Measurable Floating Product

BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes

MTBE - Methyl Tertiary Butyl Ether

NA - Not Analyzed

Date	Well No./	Depth of	Depth to	Depth to	GW	Well Observation	TPHg	В	Т	E	X	MTBE	TOG
	Elevation	Well	Perf.	Water	Elev.								
4/03/96	STMW-3 (97.78)	30	10	8.76	89.02	Rainbow sheen spots Mild petroleum odor	70	0.31	0.26	0.089	0.28	NA	NA
9/12/96				14.65	83.13	No sheen/Very light petroleum odor	66	0.43	0.42	0.21	0.51	NA	NA
12/09/96		-		12.02	85.76	No sheen/Very light petroleum odor	54	0.32	0.28	0.09	0.25	ND	NA
4/10/97				11.73	86.05	Rainbow sheen spots light petroleum odor	54	0.13	0.12	0.038	0.12	ND	NA
7/21/97				14.56	83.22	Brown sheen spots light petroleum odor	59	014	012	0.045	0.096	ND	NA
10/02/95	STMW-4 (97.85)	27	7	13.34	84.51	No sheen/Very light petroleum odor	9.3	0.023	0.011	0.0099	0.029	NA	NA
1/03/96				10.11	87.74	No sheen or odor	1.1	0.004	0.0013	0.0009	0.0033	NA	NA
4/03/96				8.35	89.50	No sheen or odor	1.9	0.012	0.0075	0.0052	0.014	NA	NA
9/12/96				14.04	83.81	No sheen/Light sewerage odor	2.1	0.046	0.024	0.031	0.073	ND	NA

TPHg - Total Petroleum Hydrocarbons as gasoline

TOG - Total Oil & Grease

ND - Not Detected

GW Elev. - Groundwater Elevation

BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes

MTBE - Methyl Tertiary Butyl Ether

NA - Not Analyzed

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	В	Т	E	X	MTBE	TOG
12/09/96	STMW-4 (97.85)	27	7	11.58	86.27	No sheen/Light sewerage odor	4.0	0.014	0.0063	0.0042	0.012	ND	NA
4/10/97	,			11.23	86.62	No sheen or odor	ND	ND	ND	ND	ND	ND	ND
7/21/97				13.97	83.88	No sheen or odor	4.3	0.016	0.0043	0.0009	0.0091	ND	NA
10/02/95	STMW-5 (99.04)	26	6	13.57	85.47	No sheen/Very light petroleum odor	1.5	0.0011	0.0013	0.0039	0.0053	NA	NA
1/03/96				10.03	89.01	No sheen or odor	0.83	ND	ND	0.0013	0.0022	NA	NA
4/03/96				8.24	90.80	No sheen or odor	0.78	0.0013	0.001	0.0048	0.0038	NA	NA
9/12/96			, <u> </u>	14.30	84.74	No sheen or odor	NA	NA	NA	NA	NA	NA	NA
12/09/96	· · · · · · · · · · · · · · · · · · ·			11.48	87.56	No sheen or odor	NA	NA	NA	NA	NA	NA	NA
4/10/97	 			11.35	87.69	No sheen or odor	NA	NA	NA	NA	NA	NA	NA
7/21/97				14.18	84.86	No sheen or odor	NA	NA	NA	NA	NA	NA	NA

TPHg - Total Petroleum Hydrocarbons as Gasoline

B - Benzene

T - Toluene

E - Ethylbenzene

X - Total Xylenes

TOG - Total Oil & Grease

MTBE - Methyl Tertiary Butyl Ether

NA - Not Analyzed

GW Elev. - Groundwater Elevation

Pet. - Petroleum

ND - Not Detected

Perf. - Perforation

V. - Very

L. - Light

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	ТРНд	В	T	E	X	MTBE	TOG
10/02/95	STMW-6 (98.77)	26	6	13.94	84.83	No sheen Light petroleum odor	120	0.35	0.31	0.2	0.61	NA	0.60
1/03/96				10.55	88.22	Rainbow sheen spots Mild petroleum odor	68	0.06	0.061	0.027	0.18	NA	1.4
4/03/96				8.76	90.01	Rainbow sheen spots Mild petroleum odor	48	0.14	0.11	0.062	0.17	NA	1.1
9/12/96				14.51	84.26	Rainbow sheen spots V. l. petroleum odor	23	0.15	0.16	0.11	0.31	ND	0.5
12/09/96				12.04	86.73	Rainbow sheen spots Light petroleum odor	57	0.48	0.45	0.16	0.46	ND	1.6
4/10/97				11.76	87.01	No sheen/Very light petroleum odor	29	0.06	0.07	0.024	0.071	ND	0.0005
7/21/97				14.59	84.18	No sheen/Very light petroleum odor	24	0.057	0.065	0.028	0.065	ND	0.0008

TPHg - Total Petroleum Hydrocarbons as gasoline

TOG - Total Oil & Grease

ND - Not Detected

GW Elev. - Groundwater Elevation

V. I. - Very Light

BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes

MTBE - Methyl Tertiary Butyl Ether

NA - Not Analyzed

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	В	Т	E	X	MTBE	TOG
10/02/95	STMW-7 (97.83)	26	6	12.95	84.88	Rainbow sheen spots Mild petroleum odor	3.3	0.0089	0.012	0.017	0.045	NA	NA
1/03/96				9.57	88.26	No sheen/Very light sewerage odor	1.5	0.0015	0.0009	0.003	0.0041	NA	NA
4/03/96		E		7.75	90.08	No sheen/Very light sewerage odor	1.9	0.0021	0.0026	0.0051	0.0069	NA	NA
9/12/96				13.75	84.08	No sheen/Very light sewerage odor	NA	NA	NA	ÑA	NA	NA	NA
12/09/96				10.97	86.86	No sheen/Very light sewerage odor	NA	NA	NA	NA	NA	NA	NA
4/10/97				10.67	87.16	No sheen Light petroleum odor	NA	NA	NA	NA	NA	NA	NA
7/21/97				13.48	84.35	No sheen/Very light sewerage odor	NA	NA	NA	NA	NA	NA	NA

TPHg - Total Petroleum Hydrocarbons as gasoline

TOG - Total Oil & Grease

ND - Not Detected

GW Elev. - Groundwater Elevation

BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes

MTBE - Methyl Tertiary Butyl Ether

NA - Not Analyzed

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	ТРНд	В	Т	E	X	MTBE	TOG
9/12/96	STMW-9 (98.29)	25	8	14.62	83.67	No sheen/Very light petroleum odor	7.7	0.020	0.026	0.044	0.16	ND	NA
12/09/96				12.58	85.71	No sheen Light sewerage odor	0.58	0.0008	ND	0.0007	0.0036	ND	NA
9/12/96	STMW-10 (94.54)	25	8	12.05	82.49	No sheen/Very light petroleum odor	26.0	0.098	0.037	0.063	0.099	ND	NA
12/09/96				10.44	84.10	No sheen Light sewerage odor	3.0	0.0081	0.0022	0.0015	0.0071	ND	NA
4/10/97				10.07	84.47	No sheen or odor	1.0	0.021	0.0093	0.0033	0.033	ND	NA
7/21/97				12.41	82.13	No sheen or odor	1.7	0.012	0.0006	ND	0.0031	ND	NA
9/12/96	STMW-11 (95.94)	25	8	13.60	82.34	No sheen/Very light sewerage odor	2.3	0.007	0.0072	0.012	0.031	ND	NA
12/09/96				11.99	83.95	No sheen or odor	0.65	0.0018	0.0005	8000.0	0.0042	ND	NA
4/10/97				11.47	84.47	No sheen or odor	ND	ND	ND	ND	ND	ND	NA
7/21/97				13.80	82.14	No sheen or odor	ND	ND	ND	ND	ND	ND	NA

TPHg - Total Petroleum Hydrocarbons as gasoline

TOG - Total Oil & Grease

ND - Not Detected

GW Elev. - Groundwater Elevation

BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes

MTBE - Methyl Tertiary Butyl Ether

NA - Not Analyzed