

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION (LOP)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

REMEDIAL ACTION COMPLETION CERTIFICATION

StID 2053 - 115 S. Vasco Road, Livermore, CA

March 18, 1998

Mr. Matin Moghadam
MTM General Store & Gas
115 S Vasco Rd
Livermore, CA 94550

Dear Mr. Moghadam:

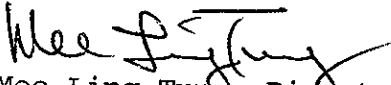
This letter confirms the completion of site investigation and remedial action for the underground storage tanks located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the underground storage tanks are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, Section 2721(e) of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,


Mee Ling Tung, Director

cc: Richard Pantages, Chief of Division of Environmental Protection
Kevin Graves, RWQCB
Dave Deaner, SWRCB
Danielle Stefani, Livermore-Pleasanton Fire Dept
files-ec (mtm.7)

CALIFORNIA REGIONAL WATER

DEC 01 1997

QUALITY CONTROL BOARD
CASE CLOSURE SUMMARY

Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: November 3, 1997

Agency name: Alameda County-HazMat Address: 1131 Harbor Bay Pkwy
 City/State/Zip: Alameda, CA 94502 Phone: (510) 567-6700
 Responsible staff person: Eva Chu Title: Hazardous Materials Spec.

II. CASE INFORMATION

Site facility name: MTM General Store and Gas
 Site facility address: 115 S. Vasco Road, Livermore, CA 94550
 RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 2053
 URF filing date: 11/3/97 SWEEPS No: N/A

<u>Responsible Parties:</u>	<u>Addresses:</u>	<u>Phone Numbers:</u>
Matin Moghadam MTM General Store & Gas	115 S Vasco Road Livermore, CA 94550	510/443-3700

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
No tanks removed. It was a product line/dispenser upgrade				

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Leaking product lines
 Site characterization complete? YES
 Date approved by oversight agency: 10/23/97
 Monitoring Wells installed? Yes Number: 3
 Proper screened interval? Yes
 Highest GW depth below ground surface: 8.95' Lowest depth: 9.41' in STMW-2
 Flow direction: Northwest
 Most sensitive current use: Commercial
 Are drinking water wells affected? No Aquifer name: Mocho Subbasin
 Is surface water affected? No Nearest affected SW name: NA
 Off-site beneficial use impacts (addresses/locations): None

Report(s) on file? YES Where is report(s) filed? Alameda County
 1131 Harbor Bay Pkwy
 Alameda, CA 94502

Treatment and Disposal of Affected Material:

<u>Material</u>	<u>Amount</u> <u>(include units)</u>	<u>Action (Treatment</u> <u>or Disposal w/destination)</u>	<u>Date</u>
Soil	~500 cy	Disposed at Redwood LF, Novato	8/94

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm)		Water (ppb)	
	Before ¹	After ²	Before ³	After ⁴
TPH (Gas)	1,700	ND	ND	ND
TPH (Diesel)	620	ND	410	ND
Benzene	5.7	ND	ND	ND
Toluene	5.9	ND	ND	ND
Ethylbenzene	5.1	ND	ND	ND
Xylenes	18	ND	ND	ND
MtBE	NA	NA	ND	ND
Heavy metals Pb	10	NA	NA	NA

- NOTE: 1 soil sample from product line trenches at 2' to 3'bgs
 2 soil sample after overexcavation, at 8' to 9'bgs
 3 maximum concentrations detected in groundwater, 4/96
 4 most recent groundwater sampling results, 7/97
 ND non-detect
 NA not analyzed

Comments (Depth of Remediation, etc.):

See Section VII, Additional Comments, etc...

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? _____

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? _____

Does corrective action protect public health for current land use? **YES**

Site management requirements: **None**

Should corrective action be reviewed if land use changes? **YES**

Monitoring wells Decommissioned: **No, pending site closure**

Number Decommissioned: 0 Number Retained: 3

List enforcement actions taken: **NOV issued 5/96 and 6/96**

List enforcement actions rescinded: **Above, in compliance**

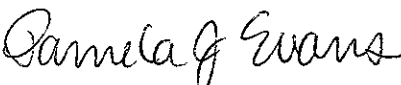
V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Eva Chu Title: Haz Mat Specialist

Signature:  Date: 11/24/97

Reviewed by

Name: Pam Evans Title: Sr. Haz Mat Specialist

Signature:  Date: 11/4/97

Name: Thomas Peacock Title: Supervisor

Signature:  Date: 11-24-97

VI. RWQCB NOTIFICATION

Date Submitted to RB: 11/26/97 RB Response: 

RWQCB Staff Name: Kevin Graves Title: AWRCE

Signature:  Date: 12/15/97

VII. ADDITIONAL COMMENTS, DATA, ETC.

The site is currently an active service station. In February 1994 new dispensers and product lines were installed for the UST system. Ten soil samples were collected beneath the former product lines and dispensers at ~2' to 3'bgs and analyzed for TPHd, TPHg, BTEX, and total lead. Analytical results identified two "hot spots" (B-7-3 with 1,700ppm TPHg and 5.7, 5.9, 5.1, and 18ppm BTEX, respectively; and, B-9-3 with 620 ppm TPHd). See Fig 1, Table 1

In April 1994 hydrocarbon-impacted soil was excavated, removing ~500cy of soil. Three confirmatory soil samples were collected at 8' to 9'bgs and analyzed for TPHd, TPHg, and BTEX. None of these constituents were detected. Two "grab" water samples were also collected for analysis. None of the above analytes were detected. (See Fig 2, Tables 2, 3)

In December 1996 three groundwater monitoring wells (STMW-1 through STMW-3) were installed to evaluate if the fuel release had impacted groundwater quality beneath the site. Soil and groundwater samples collected from the borings did not contain TPHd, TPHg, or BTEX. (See Fig 3, Table 4, 5)

Groundwater has been sampled for three consecutive quarters (12/96 to 7/97). A maximum of 410ppb TPHd was identified in groundwater in April 1997. TPHg and BTEX have not been detected in any of the wells during the three sampling events (see Table 6). It appears overexcavation removed most of the hydrocarbon-impacted soil and groundwater quality has not been impacted by the fuel release.

In summary, case closure is recommended because:

- the leak and ongoing sources have been removed;
- the site has been adequately characterized;
- the dissolved plume is not migrating;
- no water wells, surface water, or other sensitive receptors are likely to be impacted; and,
- the site presents no significant risk to human health or the environment.

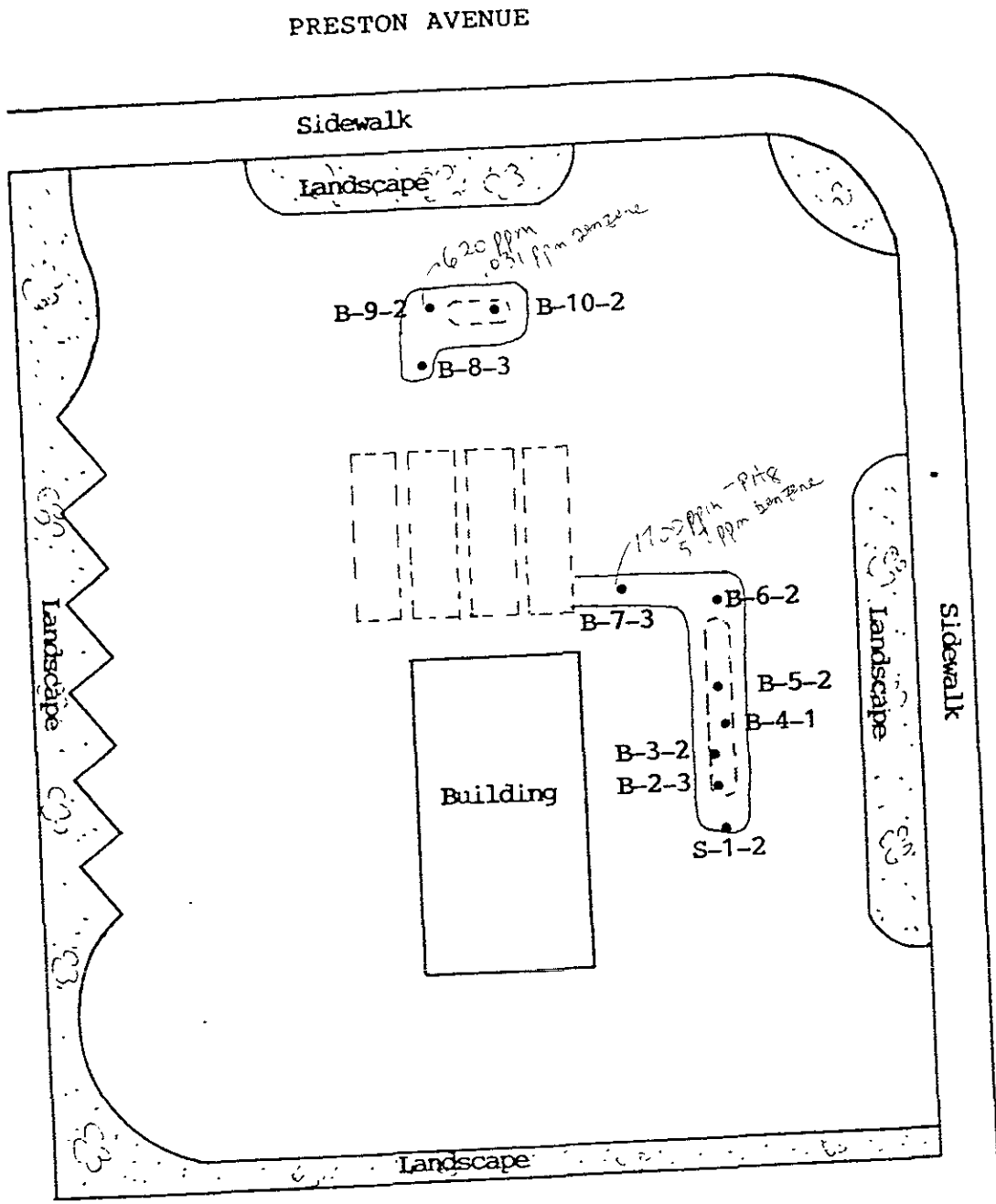


Fig 1

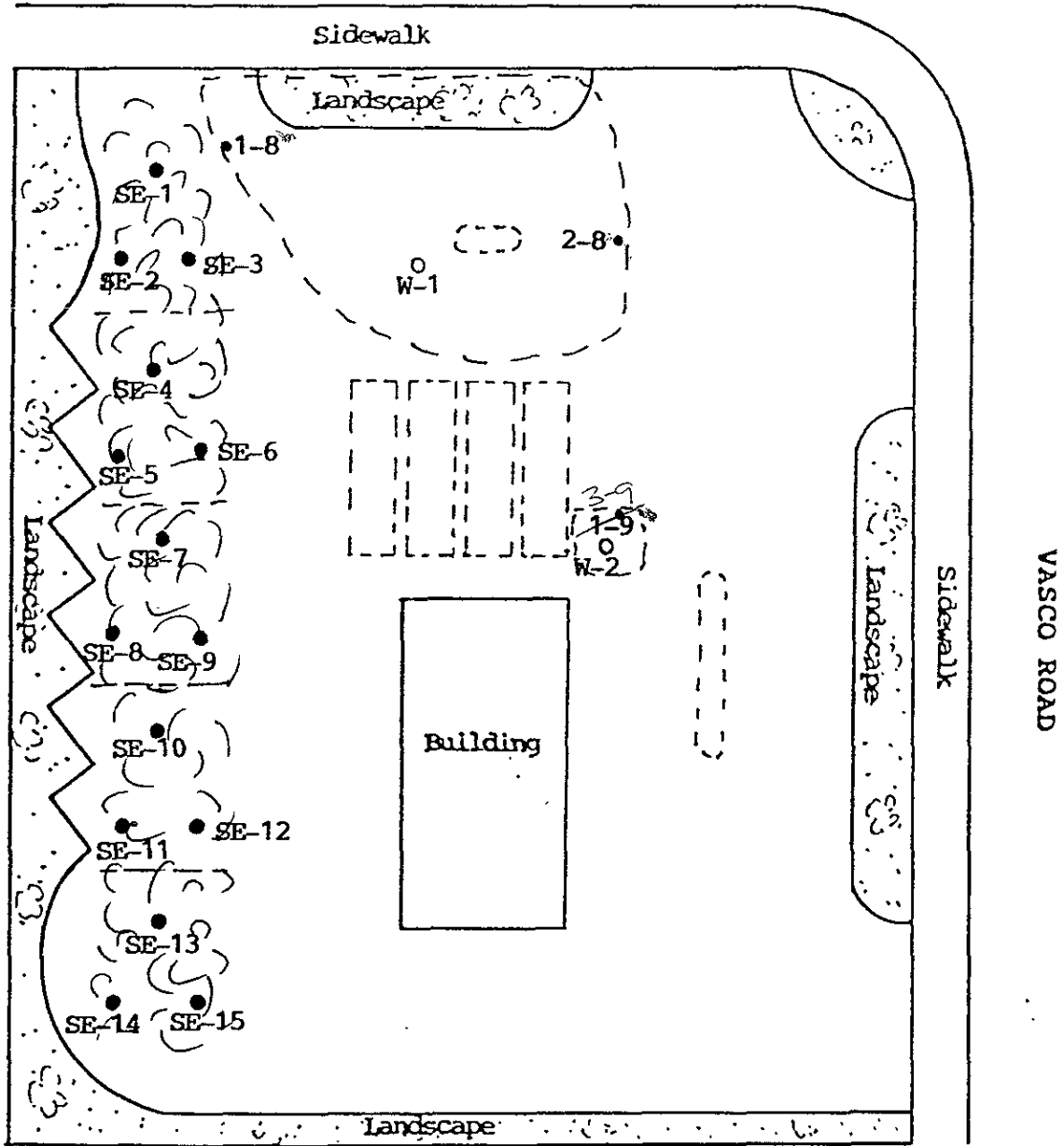
SCALE: 1"=30'

TABLE 1
SUMMARY OF SOIL ANALYSIS RESULTS
IN
MILLIGRAM PER KILOGRAM (mg/Kg)

Date	Sample Number	Depth feet	TPHd	TPHg	B	T	E	X	Total Lead
2/10/94	S-1-2	2	NA	ND	ND	ND	ND	ND	10
	B-2-2	2	NA	ND	ND	ND	ND	ND	8
	B-3-2	2	NA	3.7	0.018	ND	0.028	0.058	9
	B-4-1	1	NA	7.0	0.011	0.013	0.026	0.084	ND
	B-5-2	2	NA	ND	ND	ND	ND	ND	8
	B-6-2	2	NA	1.0	0.0066	0.0066	0.0076	0.033	ND
	B-7-3	3	NA	1,700	5.7	5.9	5.1	18	ND
	B-8-3	3	ND	NA	0.018	0.036	0.016	0.11	NA
	B-9-3	3	620	NA	0.031	0.029	0.053	0.13	NA
	B-10-2	2	ND	NA	0.11	0.11	0.091	0.39	NA

TPHd - Total Petroleum Hydrocarbons as diesel
 TPHg - Total Petroleum Hydrocarbons as gasoline
 BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes
 ND - Not Detected (Below Laboratory Detection Limit)
 NA - Not Analyzed

PRESTON AVENUE



Grabs GW sample

verification soil sample

Fig 2

SCALE: 1"=30'

TABLE #2
SUMMARY OF CONFIRMATION SOIL SAMPLES RESULTS
SAMPLED ON APRIL 21, 1994
IN
MILLIGRAMS PER KILOGRAM (mg/Kg)

Date	Sample No.	Depth Feet	TPHd	TPHg	B	T	E	X
4/21/94	1-8	8	ND	ND	ND	ND	ND	ND
	2-8	8	ND	ND	ND	ND	ND	ND
	3-9	9	NA	ND	ND	ND	ND	ND

TPHd - Total Petroleum Hydrocarbons as diesel
TPHg - Total Petroleum Hydrocarbons as gasoline
BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes
NA - Not Analyzed
ND - Not Detected (Below Laboratory Detection Limit)

TABLE 3
SUMMARY OF WATER SAMPLES RESULTS
FROM EXCAVATION AREA
SAMPLED ON APRIL 21, 1994
IN
MILLIGRAMS PER LITER (mg/L)

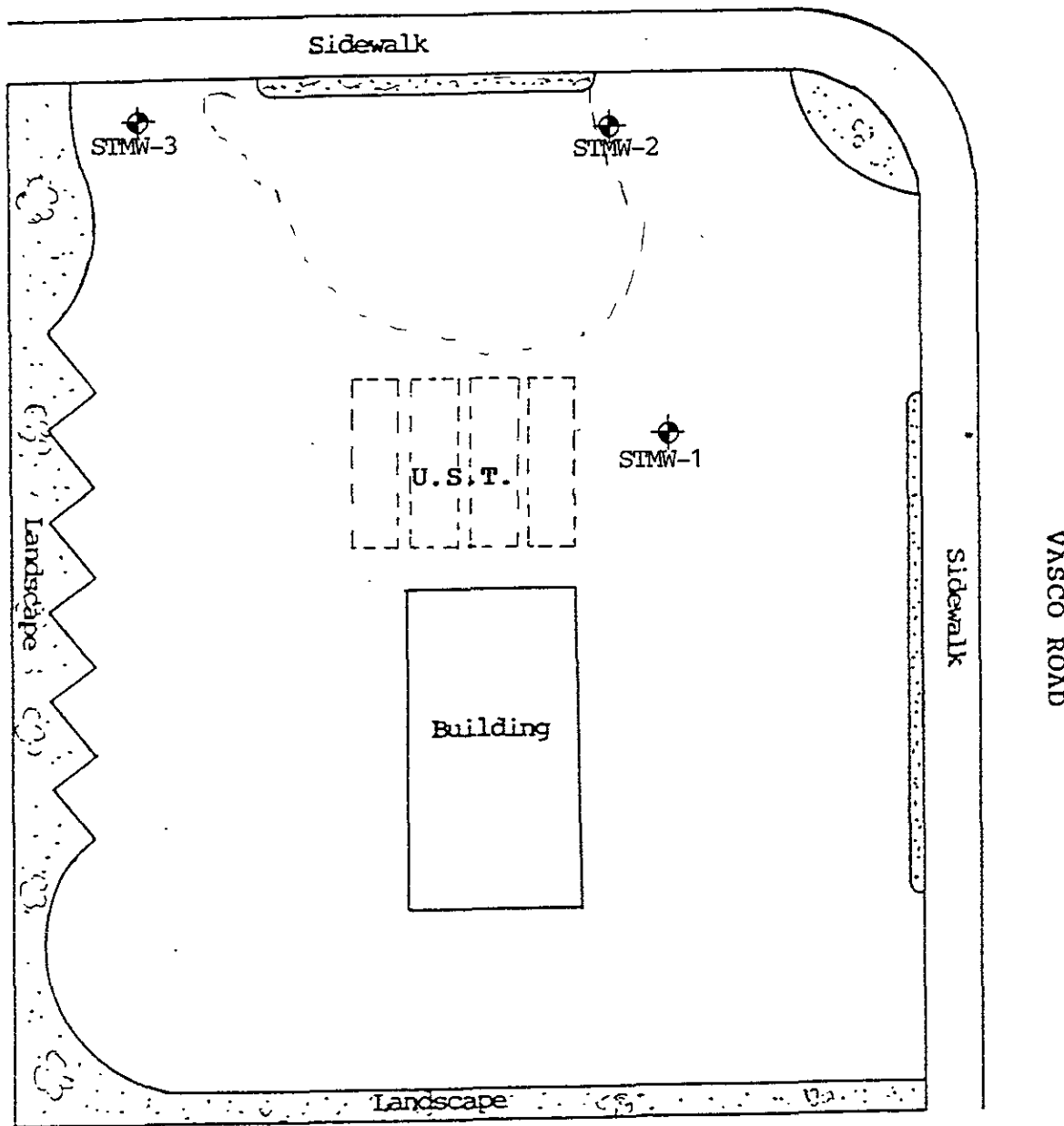
Date	Sample No.	TPHd	TPHg	B	T	E	X
4/21/94	W-1	ND	ND	ND	ND	ND	ND
	W-2	ND	ND	ND	ND	ND	ND

TPHd - Total Petroleum Hydrocarbons as diesel
TPHg - Total Petroleum Hydrocarbons as gasoline
BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes
ND - Not Detected (Below Laboratory Detection Limit)

Approximate Direction
of Groundwater Flow
as of 12/19/96



PRESTON AVENUE



--- approx area of excavation

Fig 3

SCALE: 1"=30'


 Groundwater Monitoring Well

TABLE 4
SOIL SAMPLE OBSERVATIONS AND
ANALYTICAL RESULTS (mg/Kg)

Date	Sample I.D.	Depth (ft.)	Sample Observation	TPHg	TPHd	B	T	E	X	MTBE
11/24/96	STMW-1-5	5	No odor	ND	ND	ND	ND	ND	ND	ND
	STMW-1-10	10	No odor	ND	ND	ND	ND	ND	ND	ND
11/25/96	STMW-2-5	5	No odor	ND	ND	ND	ND	ND	ND	ND
	STMW-2-10	10	No odor	ND	ND	ND	ND	ND	ND	ND
11/25/96	STMW-3-5	5	No odor	ND	ND	ND	ND	ND	ND	ND

TPHg - Total Petroleum Hydrocarbons as gasoline

TPHd - Total Petroleum Hydrocarbons as diesel

B - Benzene

T - Toluene

E - Ethyl Benzene

X - Total Xylenes

MTBE - Methyl Tertiary Butyl Ether

ND - Not Detected

TABLE # 5
GROUNDWATER MONITORING DATA (feet) AND
ANALYTICAL RESULTS (mg/L)

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	TPHd	B	T	E	X	MTBE
12/19/96	STMW-1 (98.22)	20	8	10.69	87.53	No sheen No odor	ND	ND	ND	ND	ND	ND	ND
12/19/96	STMW-2 (96.60)	20	8	9.41	87.19	No sheen No odor	ND	ND	ND	ND	ND	ND	ND
12/19/96	STMW-3 (95.03)	18	5	7.84	87.19	No sheen No odor	ND	ND	ND	ND	ND	ND	ND

TPHg - Total Petroleum Hydrocarbons as gasoline

TPHd - Total Petroleum Hydrocarbons as diesel

B - Benzene

T - Toluene

E - Ethyl Benzene

X - Total Xylenes

ND - Not Detected

Perf. - Perforation

GW Elev. - Groundwater Elevation

MTBE - Methyl Tertiary Butyl Ether

TABLE 6
GROUNDWATER MONITORING DATA (feet)
AND ANALYTICAL RESULTS (mg/L)

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	TPHd	B	T	E	X	MTBE
12/19/96	STMW-1 (98.22)	20	8	10.96	87.53	No sheen or odor	ND	ND	ND	ND	ND	ND	ND
4/03/97				10.18	88.04	No sheen or odor	ND	0.2	ND	ND	ND	ND	ND
7/02/97				10.30	87.92	No sheen or odor	ND	ND	ND	ND	ND	ND	ND
12/19/96	STMW-2 (96.60)	20	8	9.41	87.19	No sheen or odor	ND	ND	ND	ND	ND	ND	ND
4/03/97				8.95	87.65	No sheen or odor	ND	0.34	ND	ND	ND	ND	ND
7/02/97				9.14	87.46	No sheen or odor	ND	ND	ND	ND	ND	ND	ND
12/19/96	STMW-3 (95.03)	18	5	7.84	87.19	No sheen or odor	ND	ND	ND	ND	ND	ND	ND
4/03/97	(95.26) Resurveyed			7.63	87.63	No sheen or odor	ND	0.41	ND	ND	ND	ND	ND
7/02/97				7.87	87.39	No sheen or odor	ND	ND	ND	ND	ND	ND	ND

TPHg - Total Petroleum Hydrocarbons as gasoline
BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes
Perf. - Perforation
ND - Not Detected (Below Laboratory Detection Limit)

TPHd - Total Petroleum Hydrocarbons as diesel
MTBE - Methyl Tertiary Butyl Ether
GW Elev. - Groundwater Elevation

Logged By: Noori Anell	Exploratory Boring Log	Boring No. STMW-3
Date Drilled: 11/25/96	Approx. Elevation	Boring Diameter 8-inch
Drilling Method Mobile drill rig B-40L		Sampling Method

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/6"	Unified Soil Classification	DESCRIPTION
3					8-inch concrete. Very dark grey silty clay with minor gravel, hard. Munsell Color: HUE 10YR 3/1
4					Color gets lighter to very dark greyish-brown silty clay with minor gravel, hard. Munsell Color: HUE 10YR 3/2
6	STMW-3-5			CL	Color gets lighter to brown silty clay, hard. Munsell Color: HUE 10YR 4/3
8					Color gets lighter to dark yellowish-brown sandy clay, stiff, damp. Munsell Color: HUE 10YR 4/4
10					First groundwater encountered at 10 feet.
11					
12					
13					
14					
15					
16					

Remarks

Logged By: Noori Ameli	Exploratory Boring Log	Boring No. STMW-3
Date Drilled: 11/25/96	Approx. Elevation	Boring Diameter 8-inch

Drilling Method Mobile drill rig B-40L	Sampling Method
---	-----------------

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/FL	Unified Soil Classification	DESCRIPTION
17					Color gets lighter to dark yellowish-brown sandy clay, stiff, damp. Munsell Color: HUE 10YR 4/4
18					Boring terminated at 18 feet.
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					

97 DEC 18 AM 4:39

Remarks	NOV 10 1996 T.M.
---------	---------------------

Logged By: Noori Amell	Exploratory Boring Log	Boring No. SIMW-2
Date Drilled: 11/25/96	Approx. Elevation	Boring Diameter 8-inch

Drilling Method Mobile drill rig B-40L	Sampling Method
---	-----------------

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/6"	Unified Soil Classification	DESCRIPTION
3					8-inch concrete.
4					Very dark grey silty clay with minor gravel, hard. Munsell Color: HUE 10YR 3/1
	SIMW-2-5			CL	Color gets lighter to very dark greyish-brown silty clay with minor gravel, hard. Munsell Color: HUE 10YR 3/2
7					Color gets lighter to brown silty clay, hard. Munsell Color: HUE 10YR 4/3
8					
9					
10	SIMW-2-10			CL	Color gets lighter dark yellowish-brown silty clay, stiff. Munsell Color: HUE 10YR 4/4
11					Dark yellowish-brown silty clay, stiff, damp. Munsell Color: HUE 10YR 4/4
12					First groundwater encountered at 12 feet.
13					
14					
15					Dark yellowish-brown sandy clay with minor gravel, hard, wet. Munsell Color: HUE 10YR 4/4
16					

Remarks

Logged By: Noori Amell	Exploratory Boring Log	Boring No. SIMW-2
Date Drilled: 11/25/96	Approx. Elevation	Boring Diameter 8-inch

Drilling Method Mobile drill rig B-40L	Sampling Method
--	------------------------

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/FL	Unified Soil Classification	DESCRIPTION
17					Dark yellowish-brown sandy clay with minor gravel, hard, wet. Munsell Color: HUE .10YR 4/4
18					
19					Boring terminated at 20 feet.
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					

Remarks

Logged By: Noori Amell	Exploratory Boring Log	Boring No. STMW-1
Date Drilled: 11/24/96	Approx. Elevation	Boring Diameter 8-inch

Drilling Method Mobile drill rig B-40L	Sampling Method
---	-----------------

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/6"	Unified Soil Classification	DESCRIPTION
3					8-inch concrete. Very dark grey silty clay with minor gravel, hard. Munsell Color: HUE 10YR 3/1
4					Color gets lighter to very dark greyish-brown silty clay with minor gravel, hard. Munsell Color: HUE 10YR 3/2
5	STMW-1-5			CL	Color gets lighter to brown silty clay, hard. Munsell Color: HUE 10YR 4/3
7					
8					
10	STMW-1-10			CL	Color gets lighter to dark yellowish-brown silty clay, stiff, damp. Munsell Color: HUE 10YR 4/4
11					
12					
13					First groundwater encountered at 13 feet.
14					
15					Dark yellowish-brown sandy clay with minor gravel, hard, moist. Munsell Color: HUE 10YR 4/4
16					

Remarks

Logged By: Noori Anelli	Exploratory Boring Log	Boring No. SIMW-1
Date Drilled: 11/24/96	Approx. Elevation	Boring Diameter 8-inch
Drilling Method Mobile drill rig B-40L		Sampling Method

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/Ft	Unified Soil Classification	DESCRIPTION
17					Dark yellowish-brown sandy clay with minor gravel, hard, moist. Munsell Color: HUE 10YR 4/4
18					
19					Boring terminated at 20 feet.
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					

Remarks