

Applied Water Resources - Alameda, CA

Sample Delivery Group: L906724
Samples Received: 05/03/2017
Project Number:
Description: THOT

RECEIVED

By Alameda County Environmental Health 10:01 am, Aug 04, 2017

Report To: Yola Bayram
2363 Mariner Square Dr
Suite 245
Alameda, CA 94501

Entire Report Reviewed By:

Brian Ford

Brian Ford
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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SAMPLE SUMMARY



THOT-GW L906724-01 GW

Collected by
Yola Bayram

Collected date/time
05/01/17 16:00

Received date/time
05/03/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015	WG976418	1	05/04/17 21:17	05/04/17 21:17	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG977211	1	05/07/17 01:25	05/07/17 01:25	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG976661	10	05/04/17 21:21	05/05/17 16:48	DMG

¹ Cp

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⁸ Al

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All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Technical Service Representative

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Volatile Organic Compounds (GC) by Method 8015

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
TPHG C5 - C12	363		100	1	05/04/2017 21:17	WG976418
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	102		77.0-122		05/04/2017 21:17	WG976418

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	05/07/2017 01:25	WG977211
Toluene	ND		1.00	1	05/07/2017 01:25	WG977211
Ethylbenzene	ND		1.00	1	05/07/2017 01:25	WG977211
Total Xylenes	ND		3.00	1	05/07/2017 01:25	WG977211
Methyl tert-butyl ether	ND		1.00	1	05/07/2017 01:25	WG977211
Naphthalene	ND		5.00	1	05/07/2017 01:25	WG977211
(S) <i>Toluene-d8</i>	104		80.0-120		05/07/2017 01:25	WG977211
(S) <i>Dibromofluoromethane</i>	103		76.0-123		05/07/2017 01:25	WG977211
(S) <i>a,a,a</i> -Trifluorotoluene	102		80.0-120		05/07/2017 01:25	WG977211
(S) <i>4</i> -Bromofluorobenzene	106		80.0-120		05/07/2017 01:25	WG977211

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
C12-C22 Hydrocarbons	41400		1000	10	05/05/2017 16:48	WG976661
C22-C32 Hydrocarbons	4050		1000	10	05/05/2017 16:48	WG976661
C32-C40 Hydrocarbons	ND		1000	10	05/05/2017 16:48	WG976661
(S) <i>o</i> -Terphenyl	5.86	<u>J2</u>	52.0-156		05/05/2017 16:48	WG976661

9 Sc



Method Blank (MB)

(MB) R3216822-3 05/04/17 12:07

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TPHG C5 - C12	U		30.4	100
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-122

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3216822-1 05/04/17 11:00 • (LCSD) R3216822-2 05/04/17 11:23

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
TPHG C5 - C12	5500	4990	4960	90.7	90.1	71.0-130			0.710	20
(S) a,a,a-Trifluorotoluene(FID)				106	106	77.0-122				

5 Sr

6 Qc

L906597-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L906597-09 05/04/17 13:06 • (MS) R3216822-4 05/04/17 13:28 • (MSD) R3216822-5 05/04/17 13:51

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TPHG C5 - C12	5500	ND	5170	5960	93.4	108	1	18.0-158			14.0	20
(S) a,a,a-Trifluorotoluene(FID)					103	104		77.0-122				

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3216090-3 05/06/17 15:46

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Benzene	U		0.331	1.00
Ethylbenzene	U		0.384	1.00
Methyl tert-butyl ether	U		0.367	1.00
Naphthalene	U		1.00	5.00
Toluene	U		0.412	1.00
Xylenes, Total	U		1.06	3.00
<i>(S) Toluene-d8</i>	103			80.0-120
<i>(S) Dibromofluoromethane</i>	102			76.0-123
<i>(S) a,a,a-Trifluorotoluene</i>	101			80.0-120
<i>(S) 4-Bromofluorobenzene</i>	104			80.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3216090-1 05/06/17 13:51 • (LCSD) R3216090-2 05/06/17 14:14

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Benzene	25.0	22.8	23.0	91.0	92.0	69.0-123			1.10	20
Ethylbenzene	25.0	22.5	23.1	90.0	92.5	77.0-120			2.80	20
Methyl tert-butyl ether	25.0	23.2	23.6	92.9	94.3	64.0-123			1.49	20
Naphthalene	25.0	25.1	26.3	100	105	62.0-128			4.52	20
Toluene	25.0	22.3	22.8	89.0	91.1	77.0-120			2.36	20
Xylenes, Total	75.0	69.2	69.8	92.3	93.1	77.0-120			0.860	20
<i>(S) Toluene-d8</i>				105	106	80.0-120				
<i>(S) Dibromofluoromethane</i>				103	102	76.0-123				
<i>(S) a,a,a-Trifluorotoluene</i>				103	102	80.0-120				
<i>(S) 4-Bromofluorobenzene</i>				101	103	80.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3216050-1 05/05/17 13:16

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
C12-C22 Hydrocarbons	U		33.0	100
C22-C32 Hydrocarbons	U		33.0	100
C32-C40 Hydrocarbons	U		33.0	100
(S) o-Terphenyl	93.4			31.0-160

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3216050-2 05/05/17 13:33 • (LCSD) R3216050-3 05/05/17 13:49

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
C22-C32 Hydrocarbons	750	927	937	124	125	50.0-150			1.14	20
C12-C22 Hydrocarbons	750	1030	1050	138	140	50.0-150			1.78	20
(S) o-Terphenyl				82.9	83.3	31.0-160				

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier	Description
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.

¹ Cp

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ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.
 * Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

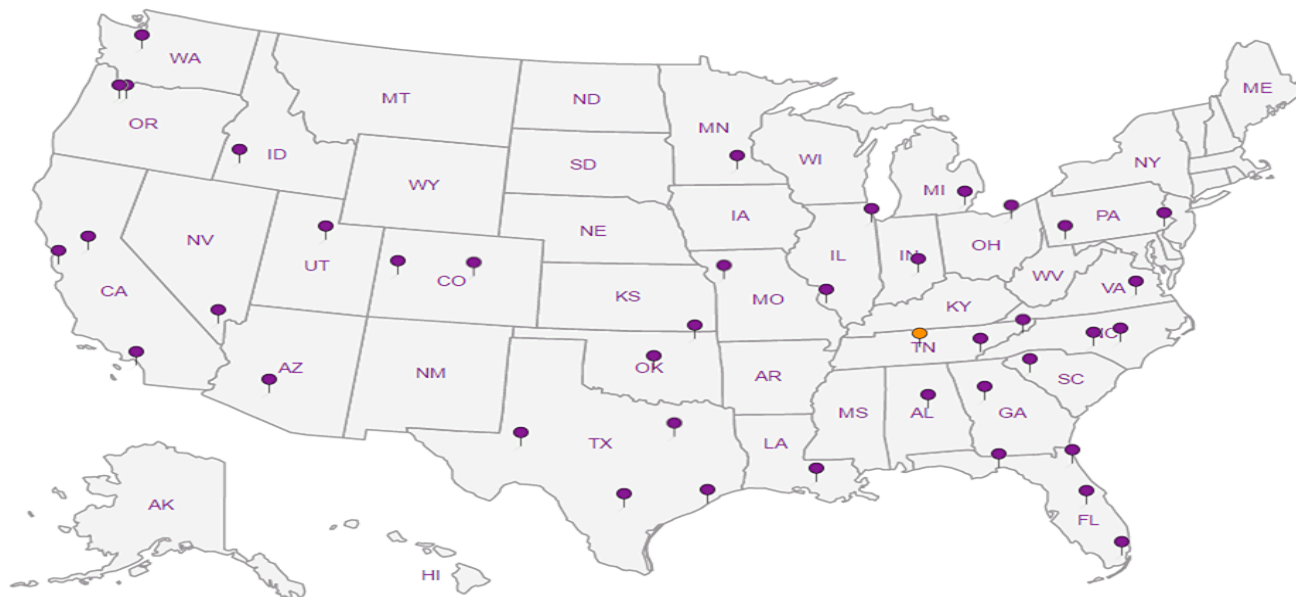
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



¹ Cp

² Tc

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⁹ Sc



YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



L# 506714
D056

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Billing Information:
AWR Corp
2363 Mariner Square Dr
Alameda, CA 94501

Pres
Chk

Report to: Yola Bayram

Email To: ybayram@awrcorp.net

Project Description: THOT

City/State Collected: Alameda, CA

Phone: 510 671 2088
Fax:

Client Project #

Lab Project #

Collected by (print): Yola Bayram

Site/Facility ID #

P.O. # THOT

Collected by (signature): [Signature]

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Quote #
Date Results Needed

Immediately Packed on Ice N Y

No. of Cntrs

Analysis	Container	Preservative
TPHg (8015)	BTEX, Naphthalene, MTBE (8240)	
X	X	X
X	X	X
X	X	X
X	X	X

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
THOT-GW	Grab	GW	-	5-1-17	1600	6

Remarks Sample # (lab only)

Remarks	Sample # (lab only)
	9

* Matrix:
 IS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 NW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks: 4 VOAS have HCL
2 VOAS don't have HCL preservative

pH Temp
Flow Other

Samples returned via:
 UPS FedEx Courier

Tracking #

Sample Receipt Checklist
 COC Seal Present/Intact: NP Y N
 COC Signed/Accurate: Y N
 Bottles arrive intact: Y N
 Correct bottles used: Y N
 Sufficient volume sent: Y N
 IF Applicable
 VOA Zero Headspace: Y N
 Preservation Correct/Checked: Y N

Relinquished by: (Signature)
[Signature]
 Relinquished by: (Signature)
[Signature]
 Relinquished by: (Signature)
[Signature]


Date: 5-2-17 Time: 1132

Received by: (Signature)
[Signature]
 Received by: (Signature)
[Signature]
 Received for lab by: (Signature)
[Signature]

Trip Blank Received: Yes/ No
 HCL/MeOH TBR
 Temp: 1.2°C Bottles Received: 6
 Date: 5-3-17 Time: 0900

If preservation required by Login: Date/Time
 Hold: Condition: NCF / OK

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25180.7 OF THE HEALTH AND SAFETY CODE.	
REPORT DATE		CASE #		SIGNED _____ DATE _____	
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT Yola Bayram		PHONE (510) 671-2088		SIGNATURE 
	REPRESENTING <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> REGIONAL BOARD <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> OTHER		COMPANY OR AGENCY NAME Applied Water Resources Corporation		
	ADDRESS 2363 Mariner Square Drive Suite 245 Alameda CA 94501 STREET CITY STATE ZIP				
RESPONSIBLE PARTY	NAME The Home of Truth of Alameda, California <input type="checkbox"/> Unkno		CONTACT PERSON Rita Reneaux		PHONE (510) 377-7811
	ADDRESS 1300 Grand Ave Alameda CA 94501 STREET CITY STATE ZIP				
SITE LOCATION	FACILITY NAME (IF APPLICABLE) The Home of Truth		OPERATOR The Home of Truth		PHONE (510) 522-3366
	ADDRESS 1300 Grand Ave Alameda Alameda 94501 STREET CITY COUNTY ZIP				
	CROSS STREET Alameda Ave				
IMPLEMENTING AGENCIES	LOCAL AGENCY AGENCY NAME Alameda County Environmental Health			PHONE (510) 567-6700	
	REGIONAL BOARD San Francisco Regional Water Quality Control Board			PHONE (510) 622-2300	
SUBSTANCES INVOLVED	(1) NAME		QUANTITY LOST (GALLONS)		
	Heating Oil (?); TPH range of C12-C22, 41,400 µg/L		<input checked="" type="checkbox"/> Unknown		
DISCOVERY/ABATEMENT	DATE DISCOVERED 3/1/2017		HOW DISCOVERED <input type="checkbox"/> Tank Test <input type="checkbox"/> Tank Removal <input checked="" type="checkbox"/> Nuisance Conditions <input type="checkbox"/> Inventory Control <input type="checkbox"/> Subsurface Monitoring <input type="checkbox"/> Other		
	DATE DISCHARGE BEGAN <input checked="" type="checkbox"/> UNKNOWN		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> Remove Contents <input type="checkbox"/> Close Tank <input type="checkbox"/> Repair Tank <input type="checkbox"/> Change Procedure <input type="checkbox"/> Replace Tank <input type="checkbox"/> Other <input type="checkbox"/> Repair Piping		
	HAS DISCHARGE BEEN STOPPED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, DATE				
SOURCE/ CAUSE	SOURCE OF DISCHARGE		CAUSE(S)		
	<input checked="" type="checkbox"/> Tank Leak <input checked="" type="checkbox"/> Piping Leak <input type="checkbox"/> Unknown <input type="checkbox"/> Other		<input type="checkbox"/> Overfill <input type="checkbox"/> Corrosion <input type="checkbox"/> Rupture/Failure <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Spill <input type="checkbox"/> Other		
CASE TYPE	CHECK ONE ONLY				
	<input type="checkbox"/> Undetermined <input type="checkbox"/> Soil Only <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Drinking Water – (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)				
CURRENT STATUS	CHECK ONE ONLY				
	<input checked="" type="checkbox"/> No Action Taken <input type="checkbox"/> Leak Being Confirmed <input type="checkbox"/> Remediation Plan <input type="checkbox"/> Preliminary Site Assessment Workplan Submitted <input type="checkbox"/> Preliminary Site Assessment Underway		<input type="checkbox"/> Case Closed (Cleanup Completed or Unnecessary) <input type="checkbox"/> Pollution Characterization <input type="checkbox"/> Post Cleanup Monitoring in Progress <input type="checkbox"/> Cleanup Underway		
REMEDIAL ACTION	CHECK APPROPRIATE ACTION(S)				
	<input type="checkbox"/> Cap Site (CD) <input type="checkbox"/> Contamination Barrier (CB) <input type="checkbox"/> Vacuum Extract (VE) <input type="checkbox"/> Excavate & Dispose (ED)		<input type="checkbox"/> Excavate & Treat (ET) <input type="checkbox"/> No Action Required (NA) <input type="checkbox"/> Remove Free Product (FP) <input type="checkbox"/> Pump & Treat Groundwater (GT)		<input type="checkbox"/> Treatment At Hookup (HU) <input type="checkbox"/> Enhanced Bio Degradation (IT) <input type="checkbox"/> Replace Supply (RS) <input type="checkbox"/> Vent Soil (VS) <input type="checkbox"/> Other
COMMENTS	750 or 1,000 gallon UST is beneath the sidewalk. Product piping leads to basement. Vent pipe on side of building. Ground water rose into basement and contains an oil sheen. See attached map.				

SUBTRONIC CORPORATION



National Utility Location
Contractors Association Member

5031 Blum Road, Suite 2
Martinez, California 94553
Telephone: (925) 228-8771
Fax No: (925) 228-8737
www.subtronic.com

GEOPHYSICAL SUBSURFACE INVESTIGATION for Applied Water Resources at 1300 Grand Street Alameda, California

April 28, 2017

SURVEY OBJECTIVE:

On April, 26, 2017, Subtronic conducted a geophysical survey to find an underground storage tank (UST) at 1300 Grand Street. Two ½ inch product lines were observed in the basement and a vent pipe was found on the south wall of the house.

GEOPHYSICAL EQUIPMENT

The specialized equipment used at the site includes a RD8000 pipe locator and the GSSI system 4000 ground penetrating radar (GPR) with a 400 MHz antenna.

RD8000

The RD8000 is a multi frequency pipe locator. Pipes can be traced by placing a tone on the pipe. Pipe locations are marked on the ground with paint.

GSSI SIR-4000

A ground penetrating radar system graphically records subsurface structures. Both geological and manmade structures are recorded by the introduction of a pulse of electromagnetic energy into the ground. Reflected pulses received by the antenna are then processed for measurable contrast in electrical properties. The result is a visual pseudo-cross-sectional profile.

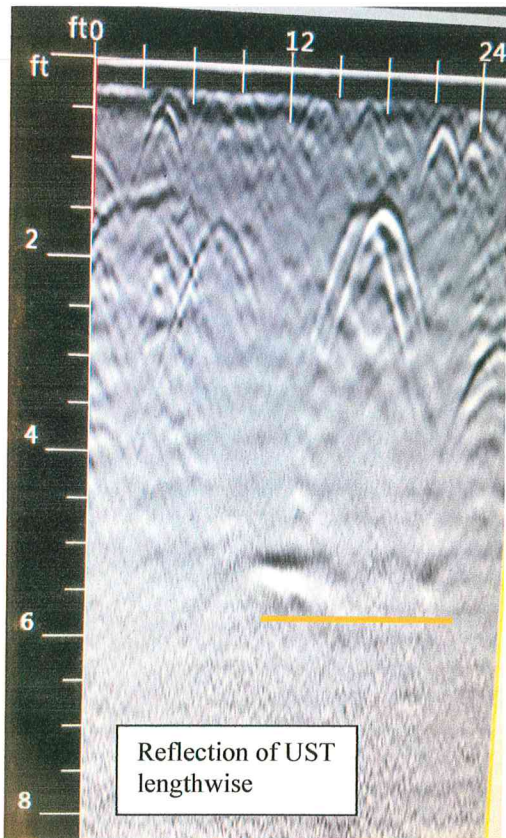
Primary applications of the GPR are detecting UST's, foundations, buried drums, previously excavated areas and detecting metallic and non-metallic utilities. The GPR depth penetration is severely limited by clay-rich soil. Radar waves can penetrate deeper in sandy and gravelly soils.

SURVEY RESULTS:

From the walk through two product line pipes were found in the basement and a vent pipe was found on the south wall of the building at grade level. The product lines traced directly toward the sidewalk on Alameda Avenue and maintained a depth of 5 feet deep. The vent pipe traced 8 feet southward then turned 90° to the Alameda Avenue.



Radargrams over the sidewalk in between the vent pipe and the product lines indicated a UST at approximately 5 feet deep. See photograph below. The tank is approximately 10'-12' feet long and possibly 5'- 6' in diameter.



CONCLUSIONS:

Tracing of the product lines and the vent pipe lead to a possible UST location in the sidewalk. GPR traverses in the area of the vent and product lines showed the indication of a buried fuel storage tank at approximately 5 feet deep.

LIMITATIONS:

The identification of geophysical anomalies is affected by clayey soils, object size, composition and burial depth. The effects of shallow buried metal may shadow an underground storage tank buried deeper.

Report prepared by:
Pierre Armand, RGP 1021

Report checked by:
Jonathan Taylor, C.E.O.

Subtronic Corporation

