



RESOURCE CONTROLS

474 Broadway • Pawtucket, RI 02860

ASTM PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

390 - 392 Pine Street
Pawtucket, Rhode Island

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Prepared for:

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92 High Street
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Prepared by:

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1.0 INTRODUCTION and OBJECTIVE

In November 2005, Artist Residence Team, LLC engaged Resource Control Associates, Inc. (Resource Controls) to complete an ASTM Phase II Environmental Site Assessment (ESA) for the property located at 390 – 392 Pine Street, in Pawtucket, Rhode Island (the “Site”).

To prepare the Phase II ESA scope of work, Resource Controls conducted site reconnaissance and evaluated information contained in a Preliminary Environmental Site Screening (PESS) Report dated June 8, 2005. The purpose of the Phase II ESA was to determine whether the following environmental conditions of concern associated with the current or historic use of the Site or surrounding area had impacted the subsurface environment.

- The Site has been a textile mill since the 1800’s. Based on a review of historic Sanborn maps, abutting and upgradient buildings were utilized for dyeing operations and bleaching of fabric;
- The use and storage of various chemicals at the Site;
- One (1) 10,000-gallon USTs containing No. 2 oil is located at the Site;
- Standard Uniform Company, located 0.07 miles to the southeast, is listed on the Rhode Island Department of Environmental Management (RIDEM) LUST, UST and RCRA lists;
- Several transformers are located on the Site; and
- The surrounding area has historically been used for industrial purposes, including mills and associated shops and garages.

The assessment activities were conducted in accordance with the American Society for Testing & Materials (ASTM) Practice E 1903-97, “Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process,” published February 1998 (re-approved 2002), and within the scope and budget established by the client.

2.0 SITE CHARACTERISTICS

The Site is located at 390 – 392 Pine Street, in Pawtucket, Rhode Island. The Site exhibits a relatively level topography that slopes gradually to the south-southeast; regional topography slopes east-southeast towards the Blackstone River. The Site is located in an area identified by the City of Pawtucket Department of Planning and Redevelopment as the Conant Street Commercial Complex, Conant & Pine Street, Pawtucket / Central Falls, RI. A Locus Map depicting the Site in relation to the surrounding community is included as Figure 1.

The Site consists of an irregular shaped parcel with approximately 4.159 acres of land located on the northwest corner of Conant and Pine Streets. The Site is improved with three buildings originally constructed in 1882, which include a total of approximately 150,000 square feet of building space. Public utilities available to the Site include potable water through the City of Pawtucket, public wastewater discharge sewer system through the Narragansett Bay Commission, as well as electric, natural gas and communications. As mentioned above, a 10,00-gallon #2 fuel oil UST is utilized to fuel the boiler of the main building. A Site Plan depicting relevant Site features is included as Figure 2.

According to the Rhode Island Department of Environmental Management (RIDEM) *Groundwater Classification Map*, the Site overlays a “GB” groundwater area. “GB” areas are defined as groundwater resources “known or presumed unsuitable for drinking water use without treatment.” Based on area topography, regional groundwater is inferred to flow east-southeast towards the Blackstone River.

3.0 SUBSURFACE INVESTIGATION

In December 2005, a Phase II ESA was conducted to determine whether potential environmental conditions of concern noted above had impacted the subsurface environment.

3.1 Installation of Soil Borings and Groundwater Monitoring Wells

On December 12, 2005, Resource Controls conducted a subsurface investigation that included the installation of five (5) soil borings, four (4) of which were completed as groundwater monitoring wells, field screening of subsurface soil, and laboratory analysis of selected soil and groundwater samples. Soil boring and monitoring well locations were selected to address environmental conditions of concern identified during the evaluation of Site conditions and to maximize coverage of the Site. The locations of the soil borings and monitoring wells are depicted on the Site Plan (Figure 2).

Subsurface Drilling and Remediation (SDR) was contracted to advance the proposed soil borings and to install the proposed monitoring wells. SDR utilized conventional hollow-stem auger drilling techniques to install the borings. Soil borings were advanced to a maximum depth of 17 feet below grade. Drilling logs, which include lithologic descriptions, photoionization detector (PID) results and well construction details, are included as Appendix B. Lithologic descriptions were based on soil collected at five-foot intervals from each boring using split-spoon samplers.

Each monitoring well was constructed of two-inch diameter, thread-coupled PVC materials. Ten-foot lengths of machine-cut, 0.01-inch slot well screening were generally installed at a minimum of five feet below the observed water table elevation to obtain an adequate and representative water supply for future well sampling activities. Monitoring wells were cement-grouted into place and completed with locking gripper caps and flush-mounted road boxes to limit surface water intrusions. Following installation, each monitoring well was developed by removing five well volumes of water with a peristaltic pump.

3.2 Soil Sampling and Analysis

As discussed in Section 3.1, soil samples were collected at five-foot intervals from each soil boring from the ground surface down to a maximum depth of 17-feet below grade. Each sample was observed and described by a Resource Controls geologist in accordance with a modified Burmister classification system and field screened for the presence of volatile organic vapors using a 10.6 eV PID calibrated with an isobutylene standard to read "as benzene". Soil descriptions and PID readings are documented on the drilling logs included in Appendix B.

Based on field observations and proximity to locations of identified environmental conditions of concern, selected soil samples were submitted for laboratory analysis of total petroleum hydrocarbons (TPHs) by ASTM Method D3328-90M, polychlorinated biphenyls (PCBs) by EPA Method 8082, and RCRA Metals by EPA Methods 6010B and 7471A, as presented below.

Sample Location/Matrix	PCBs (8082)	TPH (8015B)	RCRA 8 Metals
Soil:			
B-1 (5-7 feet)	X	X	X
MW-1 (10-12 feet)			X
MW-2 (10-12 feet)		X	X
MW-3 (10-12 feet)	X	X	X
MW-4 (10-12 feet)		X	X

The soil samples were collected in clean containers provided by the laboratory. All soil samples were labeled in the field and transported to the laboratory under standard chain-of-custody protocol.

Laboratory analytical results for the soil samples collected from the Site, reported a concentration of arsenic above the RIDEM Residential and Industrial/Commercial Direct Exposure Criteria in the soil sample collected from MW-2 at 10-12 feet below grade. All other results were reported below appropriate RIDEM standards. The soil laboratory analytical results are summarized in Table 1, and a copy of the laboratory report is included as Appendix C.

3.3 Groundwater Sampling and Analysis

On December 14, 2005, groundwater samples were collected from wells MW-1, MW-2, MW-3 and MW-4. Resource Controls utilized dedicated disposable bailers to collect the groundwater samples from each well. Prior to sampling, a minimum of three well volumes was purged from each well.

Samples collected from each monitoring well were submitted for laboratory analysis of VOCs by EPA Method 8260B. Samples were collected in clean, pre-preserved containers provided by the laboratory. All groundwater samples were labeled in the field and transported to the laboratory under standard chain-of-custody protocol.

Laboratory analytical results reported no concentrations of contaminants of concern above the applicable RIDEM GB Groundwater Objectives. The groundwater laboratory analytical results are summarized in Table 2, and a copy of the laboratory report is included as Appendix C.

3.4 Site Hydrogeology

On December 14, 2005, Resource Controls surveyed the top of casing elevation (TOC) of each monitoring well. The monitoring well TOC elevations were surveyed to an arbitrary benchmark elevation of 100.00 feet. Based on well gauging data, depth to groundwater at the Site ranges from approximately 10.42 to 12.62 feet below grade and the inferred groundwater flow direction is to the south toward Conant Street. A well monitoring form documenting the gauging event is included as Appendix A.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Resource Controls has performed a Phase II Environmental Site Assessment (ESA), in accordance with the American Society for Testing & Materials (ASTM) Practice E 1903-97, "Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process," published February 1998 (re-approved 2002). The subject of this investigation is the property located at 390 – 392 Pine Street in Pawtucket, Rhode Island. Based on the results of investigations performed, Resource Controls offers the following conclusions:

- Laboratory analytical results of soil samples indicated the presence of arsenic above the RIDEM Residential and Industrial/Commercial Direct Exposure Criteria in soil boring MW-2 at 10-12 feet below grade.
- Laboratory analytical results did not indicate the presence of any contaminants of concern in groundwater samples collected from the Site in excess of the applicable RIDEM GB Groundwater Objectives.

Based on the preceding, Resource Controls offers the following recommendations:

- In accordance with Section 12.00 of the Remediation Regulations, submit of nine (9) additional soil samples for arsenic analysis to determine whether the Site is non-jurisdictional for arsenic. If, upon review of the arsenic data set, the Site is determined to be non-jurisdictional, then no additional response actions are required at the Site. If arsenic is considered jurisdictional at the Site, then in accordance with Section 5.00 of the RIDEM Remediation Regulations, the RIDEM should be notified of the release and additional response actions will likely be required.
- Properly register the 10,000-gallon UST located south west of the main building, in accordance with Section 6.00 of the RIDEM Underground Storage Tank (UST) Regulations. We would also recommend the removal and closure of the UST in accordance with Section 13.09 of the RIDEM UST Regulations. This action would also require prior approval by the Director of the RIDEM and the completion of a UST Closure Assessment Report.

Resource Controls is available to assist with the management of these recommendations.

5.0 LIMITATIONS

This report addresses the environmental characteristics of the Site with regard to the release of or possible presence of oil and/or hazardous materials. It is not intended to guarantee that the Site is or is not free from conditions, materials or substances that could adversely impact the environment or pose a threat to public health and safety. Rather, it is intended to be used as a summary of available information on existing conditions, the conclusions of which are based upon a reasonable review of information found in accordance with normally accepted industry standards and protocols, subject to and as limited by the scope and budget established with the client. Should further research on the Site be warranted, Resource Controls must review any additional data obtained and the conclusions presented herein may be modified accordingly.

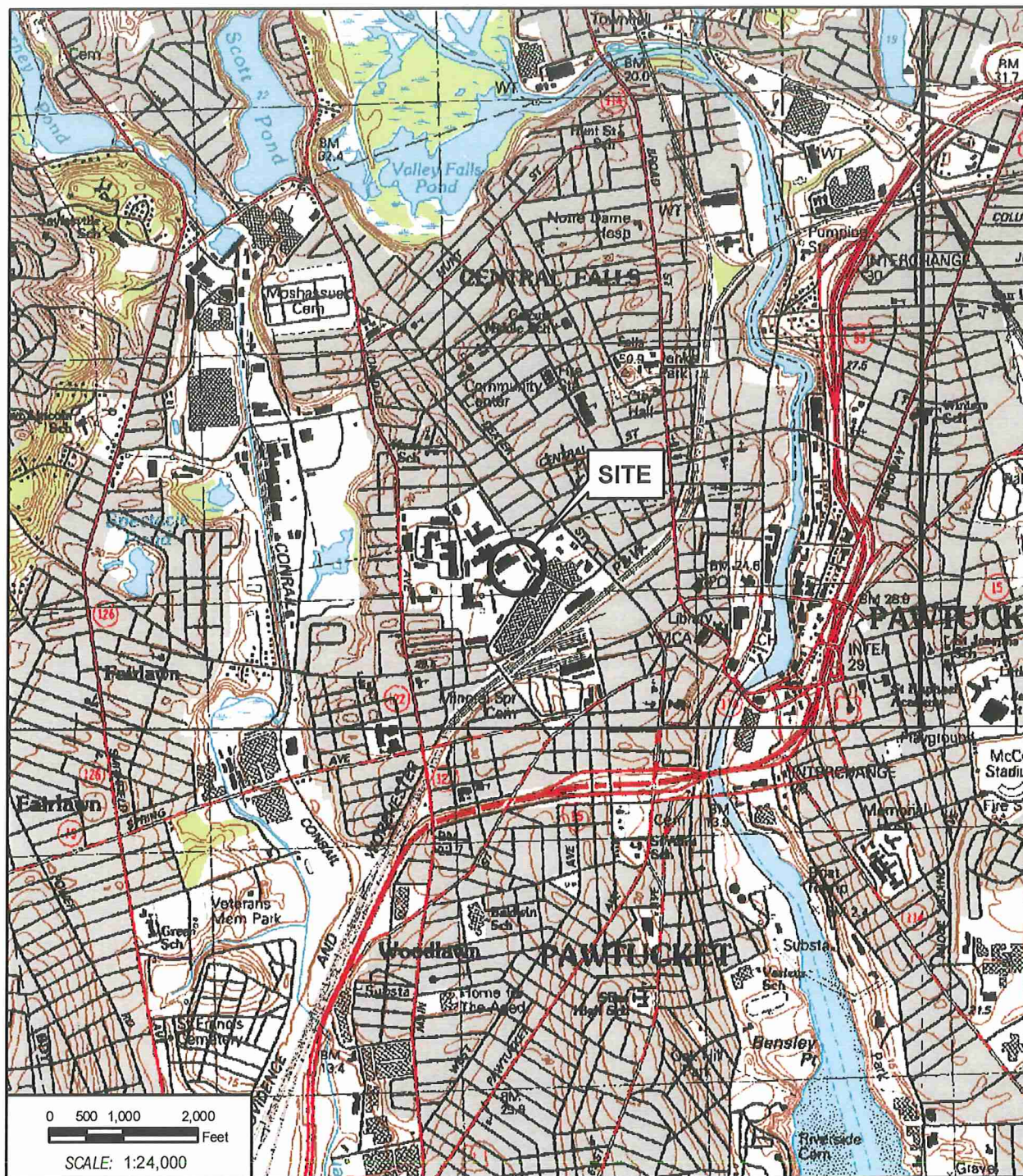
This report in total has been prepared on behalf of and for the exclusive use of Artist Residence Team, LLC. solely for use in an environmental evaluation of the Site. This report or any part thereof, may not be used, relied upon or reproduced by any party other than Artist Residence Team, LLC without first obtaining written permission from Resource Controls.

Conclusions stated herein are based on the available information summarized herein and refer only to the specific Site investigated. No warranty is implied or given and the report is subject to the agreement for the work, including the Standard Terms and Conditions attached to said agreement, as well as Additional Limitations bound herein.

Jake Lamarine
Field Scientist

Mark J. House
Vice President and Principal Scientist

FIGURES



Source: Rhode Island Geographic Information System (RIGIS)
1987 USGS Topographic Map - Attleboro, Massachusetts-Rhode Island Quadrangle



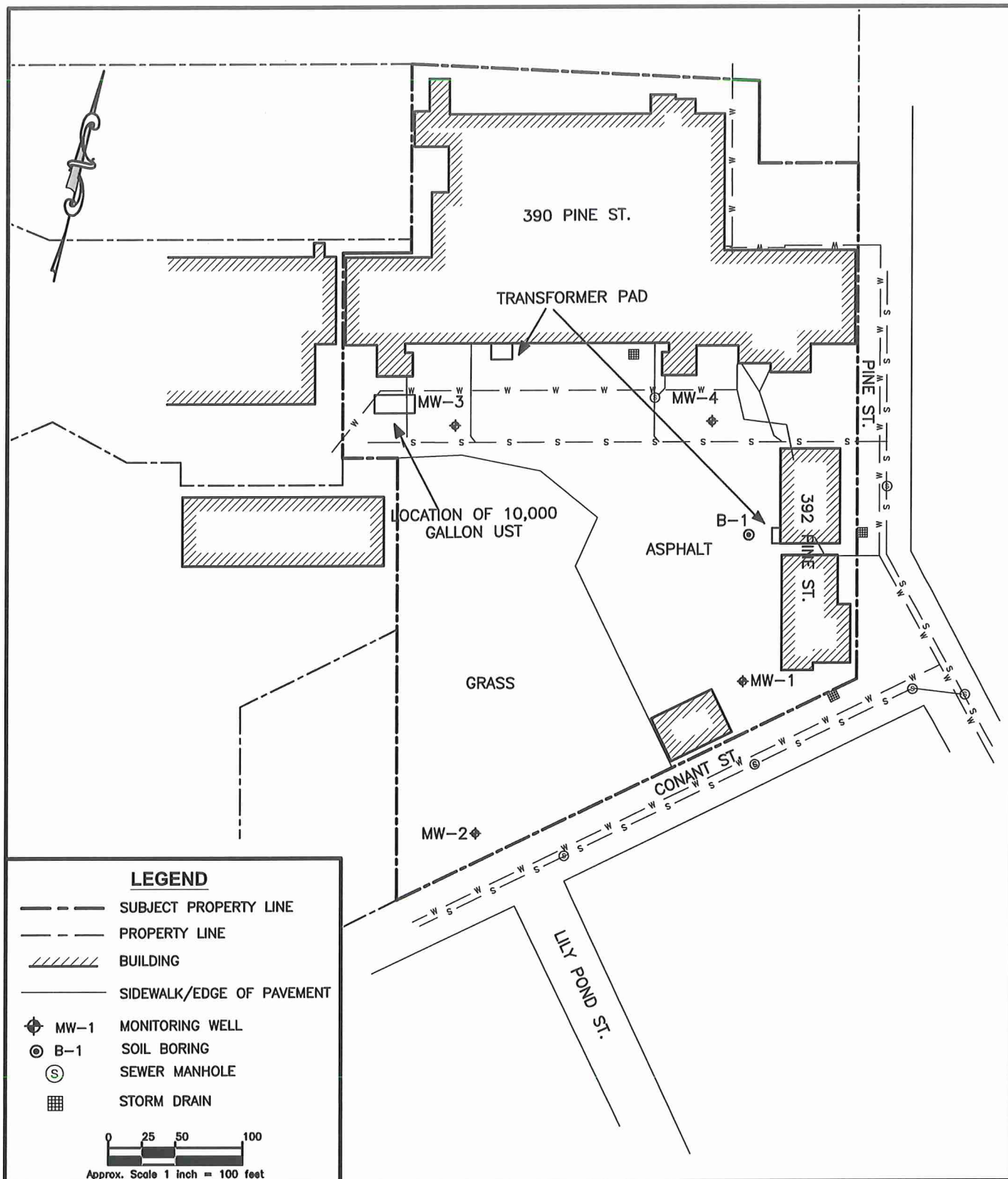
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LOCUS MAP

390-392 PINE STREET
PAWTUCKET, RHODE ISLAND

DRAWN BY	PROJECT	PRINT DATE	FIGURE
JVF	A6705	12/23/2005	1



SITE PLAN

390-392 PINE ST
PAWTUCKET, RI



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DRAWN BY

PROJECT

PRINT DATE

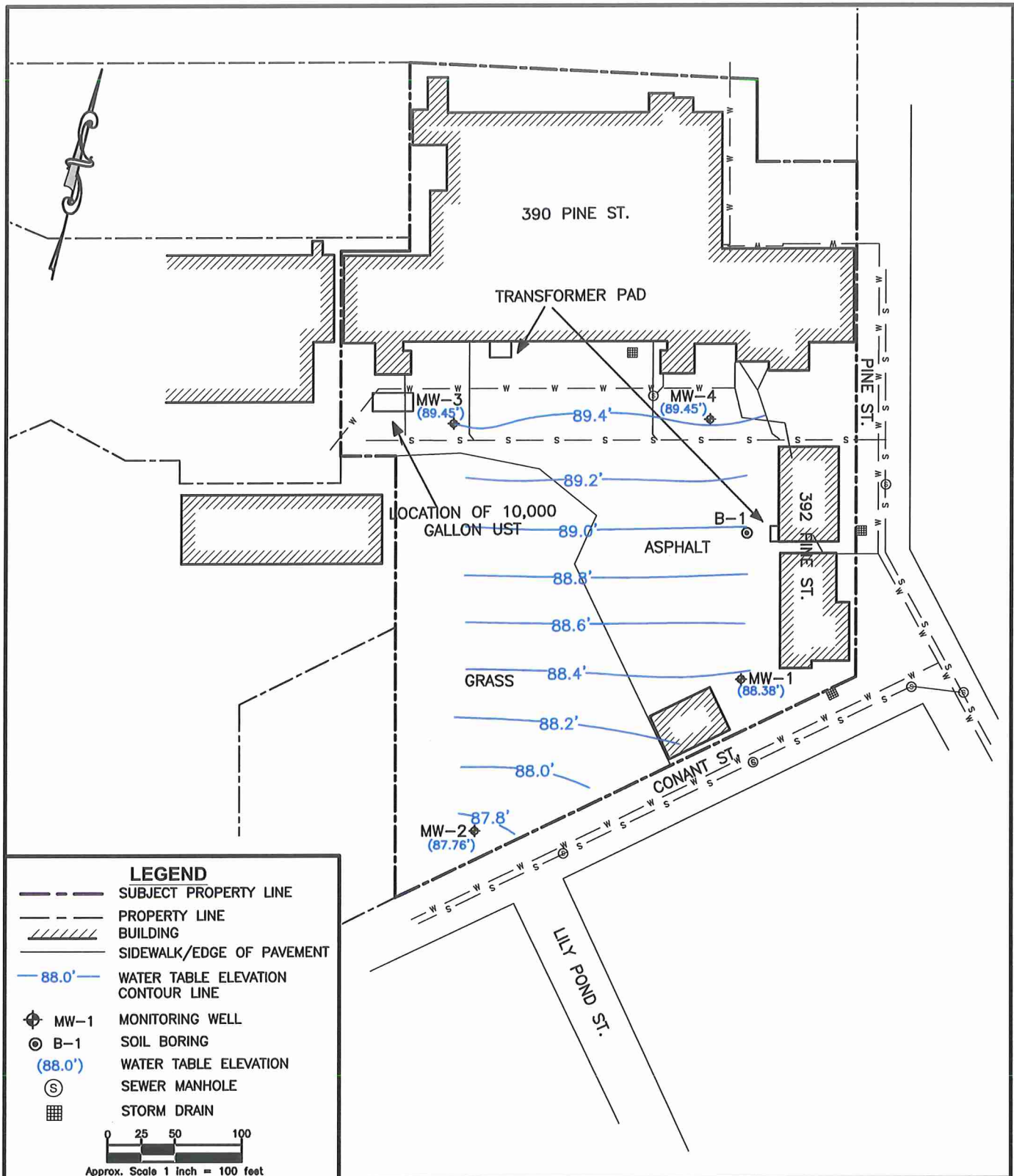
FIGURE

WFP

A6705

12/20/2005

2



**WATER TABLE ELEVATION CONTOUR PLAN
DECEMBER 11, 2005**

**390-392 PINE ST
PAWTUCKET, RI**

**DRAWN BY
WFP**

**PROJECT
A6705**

**PRINT DATE
12/20/2005**

**FIGURE
3**



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TABLES

TABLE 1
SOIL LABORATORY ANALYTICAL RESULTS

390-392 PINE STREET
PAWTUCKET, RHODE ISLAND

Sample Identification Depth Sampled Date Sampled	B-1 5-7 12/12/2005	MW-1 10-12 12/12/2005	MW-2 10-12 12/12/2005	MW-3 10-12 12/12/2005	MW-4 10-12 12/12/2005	RIDEM Soil Criteria		
						Direct Exposure Criteria		Leachability Criteria
						Residential	I/C	GB
TRACE METALS by EPA Method 8010B and 7471A (mg/kg)								
Arsenic	1.3	3	7.2	2	1.3	7	7	NS
Barium	< 21	64	38	< 23	< 22	5,500	10,000	NS
Cadmium	< 0.52	< 0.55	0.89	< 0.56	< 0.56	39	1,000	NS
Chromium	< 10	14	14	< 11	< 11	1,400/390**	10,000/10,000**	NS
Lead	< 10	< 11	110	< 11	< 11	150	500	NS
Mercury	< 0.035	< 0.035	0.15	< 0.037	< 0.037	23	610	NS
Selenium	< 10	< 11	< 11	< 11	< 11	390	10,000	NS
Silver	< 5.2	< 5.5	< 5.5	< 5.6	< 5.6	200	10,000	NS
TOTAL PETROLEUM HYDROCARBONS by EPA Method 8015B (Modified) (mg/kg)								
Total Petroleum Hydrocarbons	< 60	-	< 64	110	< 66	500/1,000	2,500	2,500
POLYCHLORINATED BIPHENYLS by EPA Method 8082 (ug/kg)								
Aroclor 1016	< 82	-	-	< 87	-	10,000*	10,000*	10,000*
Aroclor 1221	< 82	-	-	< 87	-	10,000*	10,000*	10,000*
Aroclor 1232	< 82	-	-	< 87	-	10,000*	10,000*	10,000*
Aroclor 1242	< 82	-	-	< 87	-	10,000*	10,000*	10,000*
Aroclor 1248	< 82	-	-	< 87	-	10,000*	10,000*	10,000*
Aroclor 1254	< 82	-	-	< 87	-	10,000*	10,000*	10,000*
Aroclor 1260	< 82	-	-	< 87	-	10,000*	10,000*	10,000*
NOTES:								
mg/kg = milligrams per liter (parts per million).								
ug/kg = micrograms per liter (parts per billion).								
Bold concentrations exceed RIDEM Residential and/or Industrial/Commercial Direct Exposure Soil Criteria.								
* Leachability Criteria are for total PCBs.								
** Direct exposure criteria for chromium are based on Chromium (III)/Chromium (VI) results.								

NOTES:

mg/kg = milligrams per liter (parts per million).

ug/kg = micrograms per liter (parts per billion).

Bold concentrations exceed RIDEM Residential and/or Industrial/Commercial Direct Exposure Soil Criteria.

* Leachability Criteria are for total PCBs.

** Direct exposure criteria for chromium are based on Chromium (III)/Chromium (VI) results.

TABLE 2
GROUNDWATER LABORATORY ANALYTICAL RESULTS

390-392 PINE STREET
PAWTUCKET, RHODE ISLAND

Sample Identification Date Sampled	MW-1 12/14/2005	MW-2 12/14/2005	MW-3 12/14/2005	MW-4 12/14/2005	RIDEM Groundwater Objectives	
					GB Objectives	GB UCLs
VOLATILE ORGANIC COMPOUNDS by EPA Method 8260B (ug/L)						
cis-1,2-Dichloroethene	< 0.5	< 0.5	1	1	2,400	69,000
Trichloroethene	< 0.5	0.6	3	17	540	87,000
1,2-Dichloropropane	< 0.5	< 0.5	< 0.5	< 0.5	3,000	140,000
Tetrachloroethene	< 0.5	41	< 0.5	1	150	NS
Naphthalene	< 0.5	< 0.5	< 0.5	1	NS	NS
All other VOCs	ND	ND	ND	ND		
NOTES: ug/L = micrograms per liter (parts per billion). VOCs = Volatile Organic Compounds. Bold concentrations exceed RIDEM GB Goundwater Objectives.						

APPENDIX A

Well Monitoring Form



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WELL MONITORING FORM

Project: Artist Residence, Pawtucket
Project No.: A6705
Location: Pawtucket, RI
Date: 12/11/05
Operator: JLL
Method: Interface Probe

Well ID	Top of Casing Elevation (feet)	Depth to LNAPL (feet)	Depth to Water (feet)	Depth to Bottom (feet)	LNAPL Thickness (feet)	LNAPL Specific Gravity (unitless)	Water Equivalent (feet)	Corrected	Corrected
								Depth to Water (feet)	Water Table Elevation (feet)
MW-1	100.00	ND	11.62	15.47	ND	NA	NA	NA	88.38
MW-2	100.38	ND	12.62	17.48	ND	NA	NA	NA	87.76
MW-3	99.87	ND	10.42	16.28	ND	NA	NA	NA	89.45
MW-4	100.48	ND	10.99	16.30	ND	NA	NA	NA	89.49

NM = Not Measured; ND = None Detected at >0.01 feet; NA = Not Applicable; DRY = No Water in Well

NOTES:

APPENDIX B

Drilling Logs



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DRILLING LOG

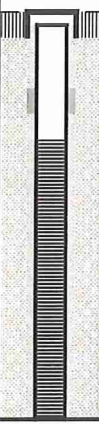
PROJECT: Artist Residence/Froment
PROJECT NO.: A6705
LOCATION: 390-392 Pine Street
Pawtucket, Rhode Island
DRILLING CO.: Subsurface Drilling
DRILLED BY: Brad Hasse & John
INSPECTED BY: Jake Lamarine

BORING NO. MW-1
PAGE 1 OF 1
DATE STARTED: 12/11/2005
DATE FINISHED: 12/11/2005
SURFACE ELEVATION: Unknown
DRILL RIG: Mobile B-61

GROUNDWATER OBSERVATIONS

DEPTH	STABILIZATION TIME
~ 11.5'	NA

TYPE: CASING SAMPLER
SIZE I.D.: Auger Split-spoon
HAMMER WT.: 6.25" 1.5"
HAMMER FALL: N/A 140
N/A 30'

DEPTH (FT.)	SAMPLING DEPTH (FT.) FROM - TO	SAMPLE DATA			WELL DATA	STRATA CHANGE (FT.)	LITHOLOGY (DESCRIPTION OF MATERIALS)	FIELD TEST DATA (ppm) PID 10.6 eV
		ID	PERCENT RECOV.	BLOWS PER 6 INCHES				
5'	5'-7'	1	75%	17-15-22-86			(5.0'-6.5') Gray-brown medium SAND, and ROCK FRAGMENT, trace brick, trace cobble; dry.	0.9
10'	8'-10'	2	20%	10-14-20-20"			(8.0'-8.5') Medium to coarse sand; trace gravel, trace brick, trace cobble; dry.	0.0
							(10.0'-12.0') Brown fine to coarse sand and fine gravel; trace cobble; dry.	0.0
	10'-12'	3	25%	70-84-31-26				0.0
	12'-14'	4	100%	10-13-16-23-18			(12.0'-14.0') Brown medium SAND and COBBLE, trace brick; moist.*	0.0
15'	14'-16'	5	100%	12-14-36-42			(14.0'-15.2') Brown medium sand and coarse gravel; wet.	
							(15.2'-16.0') Blue clayey silt; wet.	0.0
20'							Bottom of exploration at 16' bgs	
25'								
30'								
35'								

GENERAL REMARKS:

Well Construction Details:




Bottom of Well: 16'
Casing Material: 2.0" Thread-coupled PVC
Length of Screen : 10'
Screen Slot Size: 0.010"
Finishing: Roadbox cemented at grade.
1'-2' bgs Native backfill
3.0'-4.0' bgs Bentonite Pellets
5.0'-16' below ground surface #1 Filter Sand.
Samples for laboratory analysis collected from 8-11 feet below grade.
Cobbles and boulders are present at this location.


Well Materials

#2 Filter Sand
Bentonite
Grout
Native Fill
Cement

General Lithologic Information

Other SAND and SILT
Glacial Till
Fill Material
Asphalt

 Well Screen
 PVC Riser
 Roadbox

 Approximate depth
of water table.



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DRILLING LOG

PROJECT: Artist Residence/Froment
PROJECT NO.: A6705
LOCATION: 390-392 Pine Street
Pawtucket, Rhode Island
DRILLING CO.: Subsurface Drilling
DRILLED BY: Brad Hasse & John
INSPECTED BY: Jake Lamarine

BORING NO. MW-2
PAGE 1 OF 1
DATE STARTED: 12/11/2005
DATE FINISHED: 12/11/2005
SURFACE ELEVATION: Unknown
DRILL RIG: Mobile B-61

GROUNDWATER OBSERVATIONS

DEPTH	STABILIZATION TIME
~ 11.0'	NA

TYPE: CASING
SIZE I.D.: Auger
HAMMER WT.: 6.25"
HAMMER FALL: N/A
SAMPLER
Split-spoon
1.5"
140
30'

DEPTH (FT.)	SAMPLING DEPTH (FT.) FROM - TO	SAMPLE DATA			WELL DATA	STRATA CHANGE (FT.)	LITHOLOGY (DESCRIPTION OF MATERIALS)	FIELD TEST DATA (ppm) PID 10.6 eV
		ID	PERCENT RECOV.	BLOWS PER 6 INCHES				
5'								
	5'-7'	1	100%	3-2-2-3			(5.0'-7.0') Light brown fine to medium SAND, trace fine gravel, trace cobble; dry.	0.0
10'								
	10'-12'	2	100%	12-13-13-10			(10.0'-12.0') Brown medium SAND and some coarse gravel; dry.	0.0
	13'-15'	3	12%	100/1"			(13.0'-13.2') Brown medium coarse SAND, and coarse GRAVEL: wet.	0.3
15'							(15.0'-18.0') Augered to refusal	
20'							Bottom of exploration at 17' bgs	
25'								
30'								
35'								

GENERAL REMARKS:

Well Construction Details:

Bottom of Well: 17'
Casing Material: 2.0" Thread-coupled PVC
Length of Screen : 10'
Screen Slot Size: 0.010"
Finishing: Roadbox cemented at grade.
1'-2' bgs Native backfill
4.0'-5.0' bgs Bentonite Pellets
6.0'-17' below ground surface #1 Filter Sand.
Samples for laboratory analysis collected from 10-12 feet below grade.

Well Materials

#2 Filter Sand
Bentonite
Grout
Native Fill
Cement

Well Screen
PVC Riser
Roadbox

General Lithologic Information

Other SAND and SILT
Glacial Till
Fill Material
Asphalt

Approximate depth
of water table.



RESOURCE
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DRILLING LOG

PROJECT: Artist Residence/Front
PROJECT NO.: A6705
LOCATION: 390-392 Pine Street
Pawtucket, Rhode Island
DRILLING CO.: Subsurface Drilling
DRILLED BY: Brad Hasse & John
INSPECTED BY: Jake Lamarine

BORING NO. MW-3
PAGE 1 OF 1
DATE STARTED: 12/11/2005
DATE FINISHED: 12/11/2005
SURFACE ELEVATION: Unknown
DRILL RIG: Mobile B-61

GROUNDWATER OBSERVATIONS

DEPTH	STABILIZATION TIME
~ 11.0'	NA

TYPE: CASING
SIZE I.D.: Auger
HAMMER WT.: 6.25"
HAMMER FALL: N/A
SAMPLER Split-spoon
1.5"
140
30'

DEPTH (FT.)	SAMPLING DEPTH (FT.) FROM - TO	SAMPLE DATA	WELL DATA	STRATA CHANGE (FT.)	LITHOLOGY (DESCRIPTION OF MATERIALS)	FIELD TEST DATA (ppm) PID 10.6 eV
		ID	PERCENT RECOV.	BLOWS PER 6 INCHES		
5'						
	5'-7'	1	100%	5-5-5-5	(5.0'-7.0') Brown medium to coarse SAND, some fine gravel; dry.	0.0
10'						
	10'-12'	2	50%	10-20-30-32	(10.0'-11.0') Brown medium to coarse SAND and medium to coarse GRAVEL; wet.	0.0
	13'-15'	3	12%	25-32-100/3"		
15'					(15.0'-15.5') Brown medium SAND; wet. (15.5'- 16.5') Brown medium to coarse SAND; wet. (16.5'-17.0') Brown fine silty SAND, wet.	0.0
20'					Bottom of exploration at 17' bg	
25'						
30'						
35'						

GENERAL REMARKS:

Well Construction Details:

Bottom of Well: 17'
Casing Material: 2.0" Thread-coupled PVC
Length of Screen : 10'
Screen Slot Size: 0.010"
Finishing: Roadbox cemented at grade.
1'-2' bgs Native backfill
4.0'-5.0' bgs Bentonite Pellets
6.0'-17' below ground surface #1 Filter Sand.
Samples for laboratory analysis collected from 10-12 feet below grade.

Well Materials

#2 Filter Sand
Bentonite
Grout
Native Fill
Cement

Well Screen
PVC Riser
Roadbox

General Lithologic Information

Other SAND and SILT
Glacial Till
Fill Material
Asphalt

Approximate depth
of water table.



RESOURCE
CONTROLS

DRILLING LOG

PROJECT: Artist Residence/Froment
PROJECT NO.: A6705
LOCATION: 390-392 Pine Street
Pawtucket, Rhode Island
DRILLING CO.: Subsurface Drilling
DRILLED BY: Brad Hasse & John
INSPECTED BY: Jake Lamarine

BORING NO. MW-4
PAGE 1 OF 1
DATE STARTED: 12/11/2005
DATE FINISHED: 12/11/2005
SURFACE ELEVATION: Unknown
DRILL RIG: Mobile B-61

GROUNDWATER OBSERVATIONS

DEPTH	STABILIZATION TIME
~ 11.0'	NA

TYPE: CASING
SIZE I.D.: Auger
HAMMER WT.: 6.25"
HAMMER FALL: N/A
SAMPLER Split-spoon
1.5"
140
30'

DEPTH (FT.)	SAMPLING DEPTH (FT.) FROM - TO	SAMPLE DATA	WELL DATA	STRATA CHANGE (FT.)	LITHOLOGY (DESCRIPTION OF MATERIALS)	FIELD TEST DATA (ppm) PID 10.6 eV
		ID	PERCENT RECOV.	BLOWS PER 6 INCHES		
5'						
	5'-7'	1	100%	4-5-6-6	(5.0'-7.0') Light-brown medium to fine SAND; dry.	0.0
10'						
	10'-12'	2	50%	3-5-21-35	(10.0'-11.5') Rusty brown fine to medium SAND, trace fine to medium gravel; moist to wet.	0.0
15'						
	15'-17'			67-80-75-50*	(15.0'-15.5') Brown medium to coarse SAND; wet. (15.5'-17.0) Brown very coarse SAND with medium gravel, trace clayey silt; wet.	0.0
20'					Bottom of Exploration at 17'bg	
25'						
30'						
35'						

GENERAL REMARKS:

Well Construction Details:

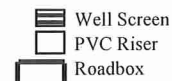
Bottom of Well: 17"
Casing Material: 2.0" Thread-coupled PVC
Length of Screen : 10'
Screen Slot Size: 0.010"
Finishing: Roadbox cemented at grade.
1'-2' bgs Native backfill
4.0'-5.0' bgs Bentonite Pellets
6.0'-17' below ground surface #1 Filter Sand.
Samples for laboratory analysis collected from 10-12 feet below grade.
* Blowcounts are higher due to utilization of 3' spoon

Well Materials

#2 Filter Sand
Bentonite
Grout
Native Fill
Cement

General Lithologic Information

Other SAND and SILT
Glacial Till
Fill Material
Asphalt



Approximate depth
of water table.



RESOURCE
CONTROLS

DRILLING LOG

PROJECT: Artist Residence/Froment
PROJECT NO: A6705
LOCATION: 390-392 Pine Street
Pawtucket, Rhode Island
DRILLING CO.: Subsurface Drilling
DRILLED BY: Brad Hasse & John
INSPECTED BY: Jake Lamarine

BORING NO. B-1
PAGE 1 OF 1
DATE STARTED: 12/11/2005
DATE FINISHED: 12/11/2005
SURFACE ELEVATION: Unknown
DRILL RIG: Mobile B-61

GROUNDWATER OBSERVATIONS

DEPTH	STABILIZATION TIME
~ 11.0'	NA

TYPE: CASING
SIZE I.D.: Auger
HAMMER WT.: 6.25"
HAMMER FALL: N/A

SAMPLER
Split-spoon
1.5"
140
30'

DEPTH (FT.)	SAMPLING DEPTH (FT.) FROM - TO	ID	PERCENT RECOV.	BLOWS PER 6 INCHES	WELL DATA	STRATA CHANGE (FT.)	LITHOLOGY (DESCRIPTION OF MATERIALS)	FIELD TEST DATA (ppm) PID 10.6 eV
5'								
	5'-7'	1	100%	4-5-6-6			(5.0'-7.0') Light-brown fine to medium sand, trace fine gravel; dry.	0.0
10'							(10.0'-10.3') Light brown medium sand, trace medium gravel; dry. (10.3'-12.0') Dark brown fine to medium SAND and medium GRAVEL trace brick, trace cobble; moist.	0.0
	10'-12'	2	100%	3-5-21-35			Bottom of Exploration at 11'bg	
15'								
20'								
25'								
30'								
35'								

GENERAL REMARKS:

Groundwater is estimated to be at or approximately around the bottom of exploration.

Well Materials

#2 Filter Sand
Bentonite
Grout
Native Fill
Cement

General Lithologic Information

Other SAND and SILT
Glacial Till
Fill Material
Asphalt

Well Screen
PVC Riser
Roadbox

Approximate depth
of water table.

APPENDIX C

Laboratory Reports

GROUNDWATER ANALYTICAL

Groundwater Analytical, Inc.
P.O. Box 1200
228 Main Street
Buzzards Bay, MA 02532

Telephone (508) 759-4441
FAX (508) 759-4475
www.groundwateranalytical.com

December 20, 2005

Mr. Mark House
Resource Control Associates
474 Broadway
Pawtucket, RI 02860

LABORATORY REPORT

Project: **Pine St./Artist Res./A6705**
Lab ID: **90057**
Received: **12-13-05**

Dear Mark:

Enclosed are the analytical results for the above referenced project. The project was processed for Priority turnaround.


This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NELAC standards, except as may be specifically noted, or described in the project narrative. This report may only be used or reproduced in its entirety.

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,



Eric H. Jensen
Operations Manager

EHJ/kal
Enclosures



Sample Receipt Report

Project: **Pine St./Artist Res./A6705**
 Client: **Resource Control Associates**
 Lab ID: **90057**

Delivery: **GWA Courier**
 Airbill: **n/a**
 Lab Receipt: **12-13-05**

Temperature: **5°C**
 Chain of Custody: **Present**
 Custody Seal(s): **n/a**

Lab ID	Field ID		Matrix	Sampled	Method			Notes
90057-1	MW-1		Soil	12/12/05 10:01	EPA 6010B/7471A 8 RCRA Metals			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C780210	250 mL Glass	Greenwood	BX19132	None	n/a	n/a	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
90057-2	MW-2		Soil	12/12/05 11:52	EPA 6010B/7471A 8 RCRA Metals TPH by GC EPA 8015B Mod			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C780208	250 mL Glass	Greenwood	8X19132	None	n/a	n/a	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
90057-3	MW-3		Soil	12/12/05 12:36	EPA 6010B/7471A 8 RCRA Metals EPA 8082 PCBs TPH by GC EPA 8015B Mod			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C780201	250 mL Glass	Greenwood	BX19132	None	n/a	n/a	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
90057-4	MW-4		Soil	12/12/05 13:28	EPA 6010B/7471A 8 RCRA Metals TPH by GC EPA 8015B Mod			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C780202	250 mL Glass	Greenwood	BX19132	None	n/a	n/a	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
90057-5	B-1		Soil	12/12/05 14:16	EPA 6010B/7471A 8 RCRA Metals EPA 8082 PCBs TPH by GC EPA 8015B Mod			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C780218	250 mL Glass	Greenwood	BX19132	None	n/a	n/a	n/a	

Lab ID	Field ID		Matrix	Sampled	Method				Notes
90057-7	MW-2 (13-15)		Soil	12/12/05 12:03	Grain Size - Sieve Only				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Trace Metals

Field ID: MW-1
Project: Pine St/ Artist RGS/A6705
Client: Resource Control Associates

Matrix: Soil
Container: 250 mL Glass
Preservation: Cool
Percent Solids: 91

Laboratory ID: 90057-01
Sampled: 12-12-05 10:01
Received: 12-13-05 18:20

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Weight	Instrument ID	Analyst
EPA 6010B ¹	MB-0758-S	EPA 3050B	12-14-05 10:37	0.5 g	ICP-1 PE 3000	MWR
EPA 7471A ²	MP-1887-S	EPA 7471A	12-14-05 12:00	0.6 g	CVAA-1 PE FIMS	MFP

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-38-2	Arsenic, Total	3.0		mg/Kg	1.1	1	12-15-05 11:00	EPA 6010B ¹
7440-39-3	Barium, Total	64		mg/Kg	22	1	12-15-05 11:00	EPA 6010B ¹
7440-43-9	Cadmium, Total	BRL		mg/Kg	0.55	1	12-15-05 11:00	EPA 6010B ¹
7440-47-3	Chromium, Total	14		mg/Kg	11	1	12-15-05 11:00	EPA 6010B ¹
7439-92-1	Lead, Total	BRL		mg/Kg	11	1	12-15-05 11:00	EPA 6010B ¹
7439-97-6	Mercury, Total	BRL		mg/Kg	0.035	1	12-14-05 16:13	EPA 7471A ²
7782-49-2	Selenium, Total	BRL		mg/Kg	11	1	12-15-05 11:00	EPA 6010B ¹
7440-22-4	Silver, Total	BRL		mg/Kg	5.5	1	12-15-05 11:00	EPA 6010B ¹

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID: MW-2
Project: Pine St/ Artist RGS/A6705
Client: Resource Control Associates

Matrix: Soil
Container: 250 mL Glass
Preservation: Cool

Laboratory ID: 90057-02
Sampled: 12-12-05 11:52
Received: 12-13-05 18:20

Percent Solids: 92

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Weight	Instrument ID	Analyst
EPA 6010B ¹	MB-0758-S	EPA 3050B	12-14-05 10:37	0.5 g	ICP-1 PE 3000	MWR
EPA 7471A ²	MP-1887-S	EPA 7471A	12-14-05 12:00	0.6 g	CVAA-1 PE FIMS	MFP

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-38-2	Arsenic, Total	7.2		mg/Kg	1.1	1	12-15-05 11:08	EPA 6010B ¹
7440-39-3	Barium, Total	38		mg/Kg	22	1	12-15-05 11:08	EPA 6010B ¹
7440-43-9	Cadmium, Total	0.89		mg/Kg	0.55	1	12-15-05 11:08	EPA 6010B ¹
7440-47-3	Chromium, Total	14		mg/Kg	11	1	12-15-05 11:08	EPA 6010B ¹
7439-92-1	Lead, Total	110		mg/Kg	11	1	12-15-05 11:08	EPA 6010B ¹
7439-97-6	Mercury, Total	0.15		mg/Kg	0.036	1	12-14-05 16:16	EPA 7471A ²
7782-49-2	Selenium, Total	BRL		mg/Kg	11	1	12-15-05 11:08	EPA 6010B ¹
7440-22-4	Silver, Total	BRL		mg/Kg	5.5	1	12-15-05 11:08	EPA 6010B ¹

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID: MW-3
Project: Pine St/ Artist RGS/A6705
Client: Resource Control Associates

Matrix: Soil
Container: 250 mL Glass
Preservation: Cool
Percent Solids: 90

Laboratory ID: 90057-03
Sampled: 12-12-05 12:36
Received: 12-13-05 18:20

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Weight	Instrument ID	Analyst
EPA 6010B ¹	MB-0758-S	EPA 3050B	12-14-05 10:37	0.5 g	ICP-1 PE 3000	MWR
EPA 7471A ²	MP-1887-S	EPA 7471A	12-14-05 12:00	0.6 g	CVAA-1 PE FIMS	MFP

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-38-2	Arsenic, Total	2.0		mg/Kg	1.1	1	12-15-05 11:11	EPA 6010B ¹
7440-39-3	Barium, Total	BRL		mg/Kg	23	1	12-15-05 11:11	EPA 6010B ¹
7440-43-9	Cadmium, Total	BRL		mg/Kg	0.56	1	12-15-05 11:11	EPA 6010B ¹
7440-47-3	Chromium, Total	BRL		mg/Kg	11	1	12-15-05 11:11	EPA 6010B ¹
7439-92-1	Lead, Total	BRL		mg/Kg	11	1	12-15-05 11:11	EPA 6010B ¹
7439-97-6	Mercury, Total	BRL		mg/Kg	0.037	1	12-14-05 16:19	EPA 7471A ²
7782-49-2	Selenium, Total	BRL		mg/Kg	11	1	12-15-05 11:11	EPA 6010B ¹
7440-22-4	Silver, Total	BRL		mg/Kg	5.6	1	12-15-05 11:11	EPA 6010B ¹

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
DF Dilution Factor.

GROUNDWATER ANALYTICAL

EPA Method 8082 Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID: MW-3
Project: Pine St./Artist Res./A6705
Client: Resource Control Associates

Matrix: Soil
Container: 250 mL Glass
Preservation: Cool

Laboratory ID: 90057-03
Sampled: 12-12-05 12:36
Received: 12-13-05 18:20
Extracted: 12-14-05 07:00
Cleaned Up: 12-14-05 17:50
Analyzed: 12-15-05 09:43
Analyst: MJB

QC Batch ID: PB-2335-P
Instrument ID: GC-6 HP 5890
Sample Weight: 15 g
Final Volume: 1 mL
Percent Solids: 90
Dilution Factor: 1

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	87
11104-28-2	Aroclor 1221	BRL		ug/Kg	87
11141-16-5	Aroclor 1232	BRL		ug/Kg	87
53469-21-9	Aroclor 1242	BRL		ug/Kg	87
12672-29-6	Aroclor 1248	BRL		ug/Kg	87
11097-69-1	Aroclor 1254	BRL		ug/Kg	87
11096-82-5	Aroclor 1260	BRL		ug/Kg	87
37324-23-5	Aroclor 1262 [†]	BRL		ug/Kg	87
11100-14-4	Aroclor 1268 [†]	BRL		ug/Kg	87

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro- <i>m</i> -xylene	14	14	96 %	30 - 150 %
	Decachlorobiphenyl	14	15	105 %	30 - 150 %
Second Column	Tetrachloro- <i>m</i> -xylene	14	13	92 %	30 - 150 %
	Decachlorobiphenyl	14	14	97 %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
[†] Non-target analyte. Result is based on a single mid-range calibration standard.



**EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD**

Field ID: B-1
Project: Pine St./Artist Res./A6705
Client: Resource Control Associates

Matrix: Soil
Container: 250 mL Glass
Preservation: Cool

Laboratory ID: 90057-05
Sampled: 12-12-05 14:16
Received: 12-13-05 18:20
Extracted: 12-14-05 07:00
Cleaned Up: 12-14-05 17:50
Analyzed: 12-15-05 10:53
Analyst: MJB

QC Batch ID: PB-2335-P
Instrument ID: GC-6 HP 5890
Sample Weight: 15 g
Final Volume: 1 mL
Percent Solids: 96
Dilution Factor: 1

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	82
11104-28-2	Aroclor 1221	BRL		ug/Kg	82
11141-16-5	Aroclor 1232	BRL		ug/Kg	82
53469-21-9	Aroclor 1242	BRL		ug/Kg	82
12672-29-6	Aroclor 1248	BRL		ug/Kg	82
11097-69-1	Aroclor 1254	BRL		ug/Kg	82
11096-82-5	Aroclor 1260	BRL		ug/Kg	82
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	82
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	82

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
First	14	11	82 %	30 - 150 %
Column	14	13	96 %	30 - 150 %
Second	14	11	80 %	30 - 150 %
Column	14	12	89 %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.



**EPA Method 8015B (Modified)
Total Petroleum Hydrocarbons by GC/FID**

Field ID: MW-2
Project: Pine St./Artist Res./A6705
Client: Resource Control Associates

Matrix: Soil
Container: 250 mL Glass
Preservation: Cool

Laboratory ID: 90057-02
Sampled: 12-12-05 11:52
Received: 12-13-05 18:20
Extracted: 12-15-05 15:00
Analyzed: 12-16-05 12:34
Analyst: NS

QC Batch ID: HF-2372-M
Instrument ID: GC-4 HP 5890
Sample Weight: 15 g
Final Volume: 1 mL
Dilution Factor: 1
% Solids: 92

Analyte	Concentration			Notes	Units	Reporting Limit
Total Petroleum Hydrocarbons	BRL				mg/Kg	64
QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits		
ortho-Terphenyl	2.8	2.2	77 %	30 - 130 %		

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Method modified to quantify total petroleum hydrocarbons in the range n-C 9 through n-C 36. Results are quantified on the basis of a series of aromatic and aliphatic hydrocarbons, using 5-alpha-androstane as an internal standard.
Sample extraction performed by EPA Method 3546. Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.



EPA Method 8015B (Modified)
Total Petroleum Hydrocarbons by GC/FID

Field ID: MW-3
Project: Pine St./Artist Res./A6705
Client: Resource Control Associates

Matrix: Soil
Container: 250 mL Glass
Preservation: Cool

Laboratory ID: 90057-03
Sampled: 12-12-05 12:36
Received: 12-13-05 18:20
Extracted: 12-15-05 15:00
Analyzed: 12-16-05 15:18
Analyst: NS

QC Batch ID: HF-2372-M
Instrument ID: GC-4 HP 5890
Sample Weight: 16 g
Final Volume: 1 mL
Dilution Factor: 1
% Solids: 90

Analyte	Concentration			Notes	Units	Reporting Limit
Total Petroleum Hydrocarbons	110				mg/Kg	63
QC Surrogate Compound	Spiked	Measured	Recovery		QC Limits	
ortho-Terphenyl	2.8	2.2	80 %		30 - 130 %	

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Method modified to quantify total petroleum hydrocarbons in the range n-C 9 through n-C 36. Results are quantified on the basis of a series of aromatic and aliphatic hydrocarbons, using 5-alpha-androstane as an internal standard.
Sample extraction performed by EPA Method 3546. Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.



EPA Method 8015B (Modified)
Total Petroleum Hydrocarbons by GC/FID

Field ID: MW-4
Project: Pine St./Artist Res./A6705
Client: Resource Control Associates

Matrix: Soil
Container: 250 mL Glass
Preservation: Cool

Laboratory ID: 90057-04
Sampled: 12-12-05 13:28
Received: 12-13-05 18:20
Extracted: 12-15-05 15:00
Analyzed: 12-16-05 17:07
Analyst: NS

QC Batch ID: HF-2372-M
Instrument ID: GC-4 HP 5890
Sample Weight: 15 g
Final Volume: 1 mL
Dilution Factor: 1
% Solids: 89

Analyte	Concentration	Notes	Units	Reporting Limit
Total Petroleum Hydrocarbons	BRL		mg/Kg	66

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
ortho -Terphenyl	2.9	2.6	87 %	30 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Method modified to quantify total petroleum hydrocarbons in the range n-C 9 through n-C 36. Results are quantified on the basis of a series of aromatic and aliphatic hydrocarbons, using 5-alpha-androstane as an internal standard.
Sample extraction performed by EPA Method 3546. Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

**EPA Method 8015B (Modified)
Total Petroleum Hydrocarbons by GC/FID**

Field ID: B-1
Project: Pine St./Artist Res./A6705
Client: Resource Control Associates

Matrix: Soil
Container: 250 mL Glass
Preservation: Cool

Laboratory ID: 90057-05
Sampled: 12-12-05 14:16
Received: 12-13-05 18:20
Extracted: 12-15-05 15:00
Analyzed: 12-16-05 18:02
Analyst: NS

QC Batch ID: HF-2372-M
Instrument ID: GC-4 HP 5890
Sample Weight: 16 g
Final Volume: 1 mL
Dilution Factor: 1
% Solids: 96

Analyte	Concentration	Notes	Units	Reporting Limit
Total Petroleum Hydrocarbons	BRL		mg/Kg	60

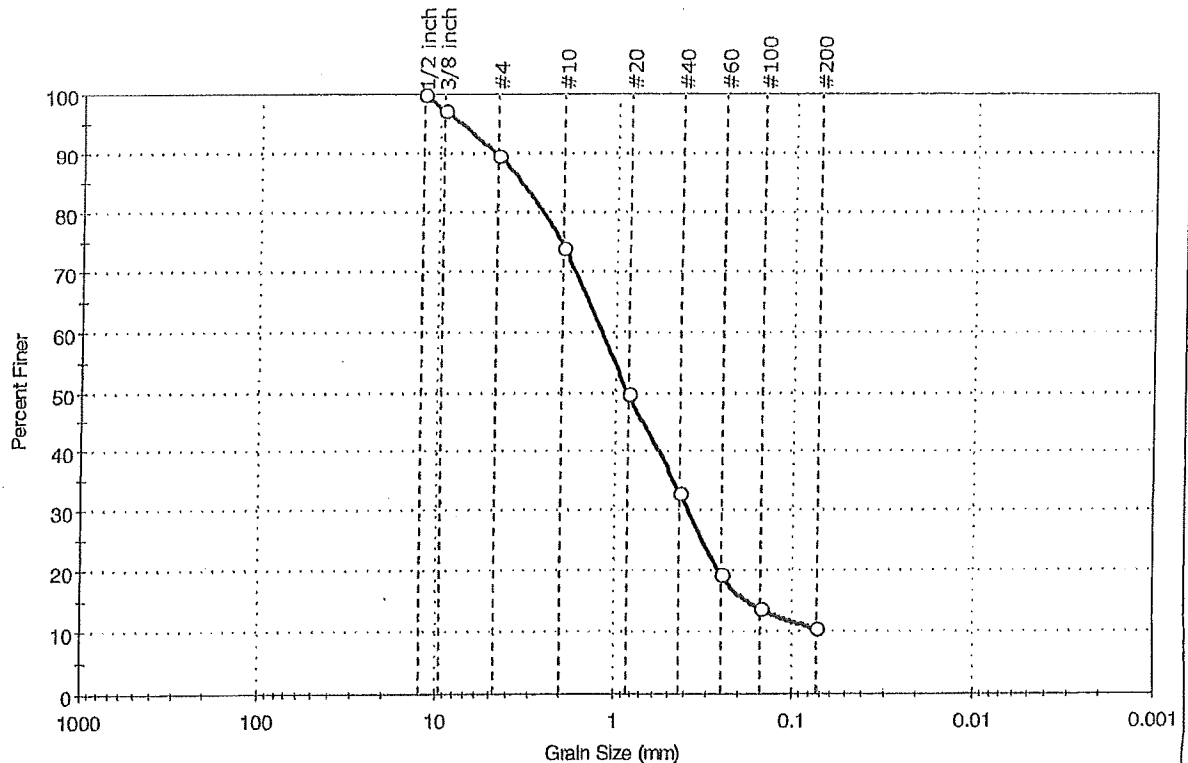
QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
ortho -Terphenyl	2.7	2.3	84 %	30 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Method modified to quantify total petroleum hydrocarbons in the range n-C 9 through n-C 36. Results are quantified on the basis of a series of aromatic and aliphatic hydrocarbons, using 5-alpha-androstane as an internal standard.
Sample extraction performed by EPA Method 3546. Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

Client: Groundwater Analytical	Project No: GTX-6411	
Project: 90057	Tested By: pcs	
Location:	Sample Type: jar	Checked By: jdt
Boring ID: ---	Test Date: 12/20/05	Test Id: 83523
Sample ID: MW-2		
Depth: 13-15		
Test Comment: ---		
Sample Description: Moist, olive brown sand with silt		
Sample Comment: ---		

Particle Size Analysis - ASTM D 422



%Cobble	%Gravel	%Sand	%Silt & Clay Size
---	10.5	79.0	10.5

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1/2 inch	12.50	100		
3/8 inch	9.51	97		
#4	4.75	90		
#10	2.00	74		
#20	0.84	50		
#40	0.42	33		
#60	0.25	19		
#100	0.15	14		
#200	0.074	11		

Coefficients

D ₈₅ = 3.6841 mm	D ₃₀ = 0.3774 mm
D ₆₀ = 1.2059 mm	D ₁₅ = 0.1678 mm
D ₅₀ = 0.8426 mm	D ₁₀ = 0.0662 mm
C _u = 18.216	C _c = 1.784

Classification

ASTM N/A

AASHTO Stone Fragments, Gravel and Sand (A-1-b (0))

Sample/Test Description

Sand/Gravel Particle Shape : ANGULAR
Sand/Gravel Hardness : HARD



Project Narrative

Project: Pine St./Artist Res./A6705
Client: Resource Control Associates

Lab ID: 90057
Received: 12-13-05 18:20

A. Documentation and Client Communication

The following documentation discrepancies, and client changes or amendments were noted for this project:

1. Analysis for Grain Size for sample identified as 'MW-1 15.2-16' was cancelled, per Jake LaMarine, 12-15-05.

B. Method Modifications, Non-Conformances and Observations

The sample(s) in this project were analyzed by the references analytical method(s), and no method modifications, non-conformances or analytical issues were noted, except as indicated below:

1. No method modifications, non-conformances or analytical issues were noted.

GROUNDWATER ANALYTICAL

228 Main Street, P.O. Box 1200
Buzzards Bay, MA 02532
Telephone (508) 759-4441 • FAX (508) 759-4475
www.groundwateranalytical.com

CHAIN-OF-CUSTODY RECORD AND WORK ORDER

No 204778

Project Name: PAVING ST / ACIST 285
 Project Number: ALG705
 Address: 474 BEDFORDWAY
 City / State / Zip: PAWTOCKET, RI
 Sampler Name: JAKE LAMARINE
 Project Manager: MJM
 Telephone: 401 728 6860

TURNAROUND
☐ STANDARD (10 Business Days)
☒ PRIORITY (5 Business Days)
☐ RUSH (RAN - Rush requires Rush Authorization Number)
 Please Email to: _____
 Please FAX to: _____

BILLING
☐ Purchase Order No.: _____
☐ Third Party Billing: _____
☐ GWA Quote: _____

ANALYSIS REQUEST									
Options	Verbiage	Seminaries	Performs/PCBE	Matrix	Est. Fee	Val. Fee	Rate	General Chemistry	Other
SWWA	1:1524 24MTR	1:1524 24MTR	1:1524 24MTR	1:1524 24MTR	1:1524 24MTR	1:1524 24MTR	1:1524 24MTR	1:1524 24MTR	1:1524 24MTR
RP03	1:1524 24MTR	1:1524 24MTR	1:1524 24MTR	1:1524 24MTR	1:1524 24MTR	1:1524 24MTR	1:1524 24MTR	1:1524 24MTR	1:1524 24MTR
RCRA/21E	1:1524 24MTR	1:1524 24MTR	1:1524 24MTR	1:1524 24MTR	1:1524 24MTR	1:1524 24MTR	1:1524 24MTR	1:1524 24MTR	1:1524 24MTR

LABORATORY NUMBER (Lab Use Only)									
DATE	TIME	SAMPLE IDENTIFICATION	MATRIX	TYPE	CONTAINER(S)	PRESERVATION	FIELD	ANALYSIS	OTHER
12/12	10:01	MW-1	GROUNDWATER	GRAV	120ml/16 oz Plastic	120ml/16 oz Plastic	X	ANALYSIS	PCB'S
12/12	10:52	MW-2	GROUNDWATER	GRAV	120ml/16 oz Plastic	120ml/16 oz Plastic	X	ANALYSIS	PCB'S
12/12	11:36	MW-3	GROUNDWATER	GRAV	120ml/16 oz Plastic	120ml/16 oz Plastic	X	ANALYSIS	PCB'S
12/12	11:38	MW-4	GROUNDWATER	GRAV	120ml/16 oz Plastic	120ml/16 oz Plastic	X	ANALYSIS	PCB'S
12/12	12:16	B-1	GROUNDWATER	GRAV	120ml/16 oz Plastic	120ml/16 oz Plastic	X	ANALYSIS	PCB'S
12/12	12:13	MW-1 (15.2-16)	GROUNDWATER	GRAV	120ml/16 oz Plastic	120ml/16 oz Plastic	X	ANALYSIS	PCB'S
12/12	12:13	MW-2 (13-15)	GROUNDWATER	GRAV	120ml/16 oz Plastic	120ml/16 oz Plastic	X	ANALYSIS	PCB'S

REMARKS / SPECIAL INSTRUCTIONS

MA DEP MCP Data Enhancement Affirmation
☐ YES ☐ NO MCP Data Certification required.
☐ YES ☐ NO MCP Drinking Water Sample included.
 (Require collection of contingent duplicate sample.
 Trip blanks are also required, if VOA sample collected).
 Signature: _____

DATA QUALITY OBJECTIVES

Regulatory Program
 State: _____
 Standard: _____
☐ CT ☐ MCP GW-1/S-1
☐ ME ☐ MCP GW-2/S-2
☐ MA ☐ NY STARS
☐ NH ☐ Drinking Water
☐ NY ☐ Wastewater
☐ RI ☐ Waste Disposal
☐ VT ☐ Dredge Material

Project Specific QC
 Many regulatory programs and EPA methods require project specific QC. Project specific QC includes Sample Duplicates, Matrix Spikes, and/or Matrix Spike Duplicates. Laboratory QC is not project specific unless prearranged. Project specific QC samples are charged on a per sample basis. Each MS, MSD and Sample Duplicate requires an additional sample aliquot.

Project Specific QC Required
☐ Sample Duplicate
☐ Matrix Spike
☐ Matrix Spike Duplicate

CHAIN-OF-CUSTODY RECORD

NOTE: All samples submitted subject to Standard Terms and Conditions on reverse hereof.

Relinquished by Sample: _____ Date: 12/12/05 Time: 10:01
 Relinquished by: _____ Date: 12/12/05 Time: 10:01
 Received by: _____ Date: 12/12/05 Time: 10:01
 Received by: _____ Date: 12/12/05 Time: 10:01

Shipping/Arrival Number: _____
 Custody Seal Number: _____

GROUNDWATER ANALYTICAL

Groundwater Analytical, Inc.
P.O. Box 1200
228 Main Street
Buzzards Bay, MA 02532

Telephone (508) 759-4441
FAX (508) 759-4475
www.groundwateranalytical.com

December 22, 2005

Mr. Mark House
Resource Control Associates
474 Broadway
Pawtucket, RI 02860

LABORATORY REPORT

Project: **Pine St/ Artist Res./A6705**
Lab ID: **90141**
Received: **12-15-05**

Dear Mark:

Enclosed are the analytical results for the above referenced project. The project was processed for Priority turnaround.

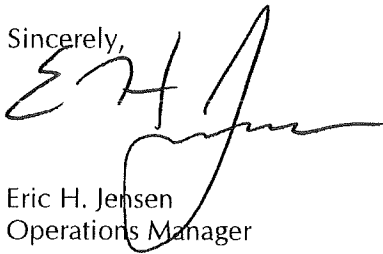
This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NELAC standards, except as may be specifically noted, or described in the project narrative. This report may only be used or reproduced in its entirety.

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,



Eric H. Jensen
Operations Manager

EHJ/kal
Enclosures

Sample Receipt Report

Project: **Pine St/ Artist Res./A6705**
 Client: **Resource Control Associates**
 Lab ID: **90141**

Delivery: **GWA Courier**
 Airbill: **n/a**
 Lab Receipt: **12-15-05**

Temperature: **2.0°C**
 Chain of Custody: **Present**
 Custody Seal(s): **n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
90141-1	MW-1		Aqueous	12/14/05 10:58	EPA 8260B Volatile Organics with Oxygenates				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C640759	40 mL VOA Vial	Proline	BX18879	HCl	R-4601F	10-28-05	11-18-05		
C640758	40 mL VOA Vial	Proline	BX18879	HCl	R-4601F	10-28-05	11-18-05		
C640717	40 mL VOA Vial	Proline	BX18879	HCl	R-4601F	10-28-05	11-18-05		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
90141-2	MW-2		Aqueous	12/14/05 11:20	EPA 8260B Volatile Organics with Oxygenates				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C648042	40 mL VOA Vial	Proline	BX16681	HCl	R-4297A	05-26-05	06-09-05		
C648030	40 mL VOA Vial	Proline	BX16681	HCl	R-4297A	05-26-05	06-09-05		
C648012	40 mL VOA Vial	Proline	BX16681	HCl	R-4297A	05-26-05	06-09-05		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
90141-3	MW-3		Aqueous	12/14/05 12:19	EPA 8260B Volatile Organics with Oxygenates				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C640771	40 mL VOA Vial	Proline	BX18879	HCl	R-4601F	10-28-05	11-18-05		
C640770	40 mL VOA Vial	Proline	BX18879	HCl	R-4601F	10-28-05	11-18-05		
C640729	40 mL VOA Vial	Proline	BX18879	HCl	R-4601F	10-28-05	11-18-05		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
90141-4	MW-4		Aqueous	12/14/05 13:32	EPA 8260B Volatile Organics with Oxygenates				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship		
C640783	40 mL VOA Vial	Proline	BX18879	HCl	R-4601F	10-28-05	11-18-05		
C640782	40 mL VOA Vial	Proline	BX18879	HCl	R-4601F	10-28-05	11-18-05		
C640741	40 mL VOA Vial	Proline	BX18879	HCl	R-4601F	10-28-05	11-18-05		

**EPA Method 8260B
Volatile Organics by GC/MS**

Field ID: MW-1
Project: Pine St/ Artist Res./A6705
Client: Resource Control Associates

Laboratory ID: 90141-01
Sampled: 12-14-05 10:58
Received: 12-15-05 16:50
Analyzed: 12-21-05 21:00
Analyst: CCT

Matrix: Aqueous
Container: 40 mL VOA Vial
Preservation: HCl/Cool

QC Batch ID: VM4-3390-W
Instrument ID: MS-4 HP 6890
Sample Volume: 25 mL
Dilution Factor: 1

Page: 1 of 2

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	<i>trans</i> - 1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl <i>tert</i> - butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	<i>cis</i> - 1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	BRL		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	<i>cis</i> - 1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	<i>trans</i> - 1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	<i>meta</i> - Xylene and <i>para</i> - Xylene	BRL		ug/L	0.5
95-47-6	<i>ortho</i> - Xylene	BRL		ug/L	0.5

**EPA Method 8260B (Continued)
Volatile Organics by GC/MS**

Field ID: MW-1
Project: Pine St/ Artist Res./A6705
Client: Resource Control Associates

Matrix: Aqueous
Container: 40 mL VOA Vial
Preservation: HCl/Cool

Laboratory ID: 90141-01
Sampled: 12-14-05 10:58
Received: 12-15-05 16:50
Analyzed: 12-21-05 21:00
Analyst: CCT

QC Batch ID: VM4-3390-W
Instrument ID: MS-4 HP 6890
Sample Volume: 25 mL
Dilution Factor: 1

Page: 2 of 2

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	n-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	tert-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	sec-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	n-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	tert-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl tert-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	tert-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	9.2	92 %	70 - 130 %
1,2-Dichloroethane-d ₄	10	9.5	95 %	70 - 130 %
Toluene-d ₈	10	9.0	90 %	70 - 130 %
4-Bromofluorobenzene	10	9.5	95 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

**EPA Method 8260B
Volatile Organics by GC/MS**

Field ID: MW-2
Project: Pine St/ Artist Res./A6705
Client: Resource Control Associates

Laboratory ID: 90141-02
Sampled: 12-14-05 11:20
Received: 12-15-05 16:50
Analyzed: 12-21-05 21:29
Analyst: CCT

Matrix: Aqueous
Container: 40 mL VOA Vial
Preservation: HCl/Cool

QC Batch ID: VM4-3390-W
Instrument ID: MS-4 HP 6890
Sample Volume: 25 mL
Dilution Factor: 1

Page: 1 of 2

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	<i>trans</i> - 1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl <i>tert</i> - butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	<i>cis</i> - 1,2-Dichloroethene	BRL		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	0.6		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	<i>cis</i> - 1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	<i>trans</i> - 1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	41		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	<i>meta</i> - Xylene and <i>para</i> - Xylene	BRL		ug/L	0.5
95-47-6	<i>ortho</i> - Xylene	BRL		ug/L	0.5

**EPA Method 8260B (Continued)
Volatile Organics by GC/MS**

Field ID: MW-2
Project: Pine St/ Artist Res./A6705
Client: Resource Control Associates

Matrix: Aqueous
Container: 40 mL VOA Vial
Preservation: HCl/Cool

Laboratory ID: 90141-02
Sampled: 12-14-05 11:20
Received: 12-15-05 16:50
Analyzed: 12-21-05 21:29
Analyst: CCT

QC Batch ID: VM4-3390-W
Instrument ID: MS-4 HP 6890
Sample Volume: 25 mL
Dilution Factor: 1

Page: 2 of 2

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	n-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	tert-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	sec-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	n-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	tert-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl tert-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	tert-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	9.3	93 %	70 - 130 %
1,2-Dichloroethane-d ₄	10	8.6	86 %	70 - 130 %
Toluene-d ₈	10	9.0	90 %	70 - 130 %
4-Bromofluorobenzene	10	9.4	94 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

**EPA Method 8260B
Volatile Organics by GC/MS**

Field ID: MW-3
Project: Pine St/ Artist Res./A6705
Client: Resource Control Associates

Laboratory ID: 90141-03
Sampled: 12-14-05 12:19
Received: 12-15-05 16:50
Analyzed: 12-21-05 21:58
Analyst: CCT

Matrix: Aqueous
Container: 40 mL VOA Vial
Preservation: HCl/Cool

QC Batch ID: VM4-3390-W
Instrument ID: MS-4 HP 6890
Sample Volume: 25 mL
Dilution Factor: 1

Page: 1 of 2

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	trans- 1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl tert- butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	cis- 1,2-Dichloroethene	1		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	3		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	cis- 1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	trans- 1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	BRL		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	meta- Xylene and para- Xylene	BRL		ug/L	0.5
95-47-6	ortho- Xylene	BRL		ug/L	0.5

**EPA Method 8260B (Continued)
Volatile Organics by GC/MS**

Field ID: MW-3
Project: Pine St/ Artist Res./A6705
Client: Resource Control Associates

Matrix: Aqueous
Container: 40 mL VOA Vial
Preservation: HCl/Cool

Laboratory ID: 90141-03
Sampled: 12-14-05 12:19
Received: 12-15-05 16:50
Analyzed: 12-21-05 21:58
Analyst: CCT

QC Batch ID: VM4-3390-W
Instrument ID: MS-4 HP 6890
Sample Volume: 25 mL
Dilution Factor: 1

Page: 2 of 2

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	n-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	tert-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	sec-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	n-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	BRL		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	tert-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl tert-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	tert-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	9.1	91 %	70 - 130 %
1,2-Dichloroethane-d ₄	10	9.4	94 %	70 - 130 %
Toluene-d ₈	10	9.2	92 %	70 - 130 %
4-Bromofluorobenzene	10	9.3	93 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

**EPA Method 8260B
Volatile Organics by GC/MS**

Field ID: MW-4
Project: Pine St/ Artist Res./A6705
Client: Resource Control Associates

Laboratory ID: 90141-04
Sampled: 12-14-05 13:32
Received: 12-15-05 16:50
Analyzed: 12-21-05 22:27
Analyst: CCT

Matrix: Aqueous
Container: 40 mL VOA Vial
Preservation: HCl/Cool

QC Batch ID: VM4-3390-W
Instrument ID: MS-4 HP 6890
Sample Volume: 25 mL
Dilution Factor: 1

Page: 1 of 2

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	0.5
74-87-3	Chloromethane	BRL		ug/L	0.5
75-01-4	Vinyl Chloride	BRL		ug/L	0.5
74-83-9	Bromomethane	BRL		ug/L	0.5
75-00-3	Chloroethane	BRL		ug/L	0.5
75-69-4	Trichlorofluoromethane	BRL		ug/L	0.5
60-29-7	Diethyl Ether	BRL		ug/L	2
75-35-4	1,1-Dichloroethene	BRL		ug/L	0.5
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	5
67-64-1	Acetone	BRL		ug/L	10
75-15-0	Carbon Disulfide	BRL		ug/L	5
75-09-2	Methylene Chloride	BRL		ug/L	2.5
156-60-5	trans- 1,2-Dichloroethene	BRL		ug/L	0.5
1634-04-4	Methyl tert- butyl Ether (MTBE)	BRL		ug/L	0.5
75-34-3	1,1-Dichloroethane	BRL		ug/L	0.5
594-20-7	2,2-Dichloropropane	BRL		ug/L	0.5
156-59-2	cis- 1,2-Dichloroethene	1		ug/L	0.5
78-93-3	2-Butanone (MEK)	BRL		ug/L	5
74-97-5	Bromochloromethane	BRL		ug/L	0.5
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	5
67-66-3	Chloroform	BRL		ug/L	0.5
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	0.5
56-23-5	Carbon Tetrachloride	BRL		ug/L	0.5
563-58-6	1,1-Dichloropropene	BRL		ug/L	0.5
71-43-2	Benzene	BRL		ug/L	0.5
107-06-2	1,2-Dichloroethane	BRL		ug/L	0.5
79-01-6	Trichloroethene	17		ug/L	0.5
78-87-5	1,2-Dichloropropane	BRL		ug/L	0.5
74-95-3	Dibromomethane	BRL		ug/L	0.5
75-27-4	Bromodichloromethane	BRL		ug/L	0.5
123-91-1	1,4-Dioxane	BRL		ug/L	500
10061-01-5	cis- 1,3-Dichloropropene	BRL		ug/L	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	5
108-88-3	Toluene	BRL		ug/L	0.5
10061-02-6	trans- 1,3-Dichloropropene	BRL		ug/L	0.5
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	0.5
127-18-4	Tetrachloroethene	1		ug/L	0.5
142-28-9	1,3-Dichloropropane	BRL		ug/L	0.5
591-78-6	2-Hexanone	BRL		ug/L	5
124-48-1	Dibromochloromethane	BRL		ug/L	0.5
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.5
108-90-7	Chlorobenzene	BRL		ug/L	0.5
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	0.5
100-41-4	Ethylbenzene	BRL		ug/L	0.5
108-38-3/106-42-3	meta- Xylene and para- Xylene	BRL		ug/L	0.5
95-47-6	ortho- Xylene	BRL		ug/L	0.5

**EPA Method 8260B (Continued)
Volatile Organics by GC/MS**

Field ID: MW-4
Project: Pine St/ Artist Res./A6705
Client: Resource Control Associates

Matrix: Aqueous
Container: 40 mL VOA Vial
Preservation: HCl/Cool

Laboratory ID: 90141-04
Sampled: 12-14-05 13:32
Received: 12-15-05 16:50
Analyzed: 12-21-05 22:27
Analyst: CCT

QC Batch ID: VM4-3390-W
Instrument ID: MS-4 HP 6890
Sample Volume: 25 mL
Dilution Factor: 1

Page: 2 of 2

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene	BRL		ug/L	0.5
75-25-2	Bromoform	BRL		ug/L	0.5
98-82-8	Isopropylbenzene	BRL		ug/L	0.5
108-86-1	Bromobenzene	BRL		ug/L	0.5
79-34-5	1,1,2,2-Tetrachloroethane	BRL		ug/L	0.5
96-18-4	1,2,3-Trichloropropane	BRL		ug/L	0.5
103-65-1	n-Propylbenzene	BRL		ug/L	0.5
95-49-8	2-Chlorotoluene	BRL		ug/L	0.5
108-67-8	1,3,5-Trimethylbenzene	BRL		ug/L	0.5
106-43-4	4-Chlorotoluene	BRL		ug/L	0.5
98-06-6	tert-Butylbenzene	BRL		ug/L	0.5
95-63-6	1,2,4-Trimethylbenzene	BRL		ug/L	0.5
135-98-8	sec-Butylbenzene	BRL		ug/L	0.5
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	0.5
99-87-6	4-Isopropyltoluene	BRL		ug/L	0.5
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	0.5
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	0.5
104-51-8	n-Butylbenzene	BRL		ug/L	0.5
96-12-8	1,2-Dibromo-3-chloropropane	BRL		ug/L	0.5
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	0.5
87-68-3	Hexachlorobutadiene	BRL		ug/L	0.5
91-20-3	Naphthalene	1		ug/L	0.5
87-61-6	1,2,3-Trichlorobenzene	BRL		ug/L	0.5
75-65-0	tert-Butyl Alcohol (TBA)	BRL		ug/L	20
108-20-3	Di-isopropyl Ether (DIPE)	BRL		ug/L	0.5
637-92-3	Ethyl tert-butyl Ether (ETBE)	BRL		ug/L	0.5
994-05-8	tert-Amyl Methyl Ether (TAME)	BRL		ug/L	0.5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	9.3	93 %	70 - 130 %
1,2-Dichloroethane-d ₄	10	9.0	90 %	70 - 130 %
Toluene-d ₈	10	9.1	91 %	70 - 130 %
4-Bromofluorobenzene	10	9.6	96 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

Project Narrative

Project: **Pine St/ Artist Res./A6705**
Client: **Resource Control Associates**

Lab ID: **90141**
Received: **12-15-05 16:50**

A. Documentation and Client Communication

The following documentation discrepancies, and client changes or amendments were noted for this project:

1. No documentation discrepancies, changes, or amendments were noted.

B. Method Modifications, Non-Conformances and Observations

The sample(s) in this project were analyzed by the references analytical method(s), and no method modifications, non-conformances or analytical issues were noted, except as indicated below:

1. No method modifications, non-conformances or analytical issues were noted.

CHAIN-OF-CUSTODY RECORD AND WORK ORDER

**CHAIN-OF-CUSTODY RECORD
AND WORK ORDER**

No 201330

Project Name: ACTIST RES.				Firm: R. C. A.			
Project Number: AL705				Address: 474 Beaconway			
Sampler Name: JAKE LAMARINE				City / State / Zip: Pawtucket, RI			
Project Manager: MADE J. HOUSE				Telephone: 401-728-6860			
TURNAROUND <input type="checkbox"/> STANDARD (10 Business Days) <input checked="" type="checkbox"/> PRIORITY (5 Business Days) <input type="checkbox"/> RUSH (RAN- (Fleet requires Rush Authorization Number)) <input type="checkbox"/> Please Email to: _____ <input type="checkbox"/> Please FAX to: _____							
BILLING <input type="checkbox"/> Purchase Order No.: _____ <input type="checkbox"/> Third Party Billing: _____ <input type="checkbox"/> GWA Quote: _____							
ANALYSIS REQUEST <div style="display: flex; justify-content: space-between;"> <div> Options <input type="checkbox"/> NO SLOTTING <input type="checkbox"/> NO SLOTTING <input type="checkbox"/> NO SLOTTING </div> <div> Sanitizing <input type="checkbox"/> NO SLOTTING <input type="checkbox"/> NO SLOTTING <input type="checkbox"/> NO SLOTTING </div> <div> Matrix <input type="checkbox"/> NO SLOTTING <input type="checkbox"/> NO SLOTTING <input type="checkbox"/> NO SLOTTING </div> <div> Lab Use Only <input type="checkbox"/> NO SLOTTING <input type="checkbox"/> NO SLOTTING <input type="checkbox"/> NO SLOTTING </div> </div>							
DATA QUALITY OBJECTIVES <div style="display: flex; justify-content: space-between;"> <div> Regulatory Program <input type="checkbox"/> CT <input type="checkbox"/> ME <input type="checkbox"/> MA <input type="checkbox"/> NH <input type="checkbox"/> RI <input type="checkbox"/> VT </div> <div> Deliverables <input type="checkbox"/> PWS Form <input type="checkbox"/> MWRA <input type="checkbox"/> NY STARS <input type="checkbox"/> Drinking Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Waste Disposal <input type="checkbox"/> Dredge Material </div> </div>							
REMARKS / SPECIAL INSTRUCTIONS MA DEP MCP Data Enhancement Affirmation <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO MCP Data Certification required. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO MCP Drinking Water Sample included. (Require collection of contingent duplicate sample. Trip blank also required, (VQA sample collected). Signature: _____							
CHAIN-OF-CUSTODY RECORD NOTE: All samples submitted subject to Standard Terms and Conditions on reverse hereto. <div style="display: flex; justify-content: space-between;"> <div> Relinquished by Sampler: Date: 11/15/15 </div> <div> Received by: Date: 11/15/15 </div> </div> <div style="display: flex; justify-content: space-between;"> <div> Relinquished by: Date: 11/15/15 </div> <div> Received by: Date: 11/15/15 </div> </div> <div style="display: flex; justify-content: space-between;"> <div> Relinquished by: Date: 11/15/15 </div> <div> Received by: Date: 11/15/15 </div> </div> <div style="display: flex; justify-content: space-between;"> <div> Method of Shipment: <input type="checkbox"/> GWA Courier <input type="checkbox"/> Express Mail <input type="checkbox"/> Federal Express </div> <div> Shipping/Label Number: 12 </div> <div> Custody Seal Number: </div> </div>							

APPENDIX D

Additional Limitations

ADDITIONAL LIMITATIONS

1. The observations described in this Report were made under the conditions stated herein. The conclusions presented in the Report are based solely upon the services described therein and not on scientific tasks or procedures beyond the scope of described services or the time and budgetary constraints imposed by Client. The work described in the Report was carried out in accordance with our Proposal and Associated Statement of Standard Terms and Conditions.
2. In preparing the Report, Resource Controls has relied on certain information provided by state and local officials and other parties referenced therein and on information contained in the files of state and/or local agencies available to Resource Controls at the time of the site evaluation. Although there may have been some degree of overlap in the information provided by the various sources, Resource Controls did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of this site assessment.
3. Observations and explorations were made of the site as indicated within the Report. Where access to portions of the site were unavailable or limited, Resource Controls renders no opinion as to the presence of hazardous materials, asbestos, lead paint or oil, or to the presence of indirect evidence relating to the same, in that portion of the site or structure. In addition, Resource Controls renders no opinion as to the presence of hazardous materials, lead paint, oil or asbestos or to the presence of indirect evidence relating to hazardous materials, oil, lead paint or asbestos, where direct observation of the interior walls, floor, or ceiling of a structure on a site was obstructed by objects or coverings on or over these structures.
4. The purpose of this Report was to assess the physical and chemical characteristics of the subject site with respect to the presence in the environment of hazardous materials, lead paint, asbestos or oil. No specific attempt was made to check the regulatory compliance of present or past owners or operators of the site with federal, state or local laws and regulations, environmental or otherwise.
5. Except as noted within the text of this Report, no quantitative laboratory testing was performed as part of this evaluation. Where such analyses have been conducted by an outside laboratory, Resource Controls has relied upon the data provided and has not conducted an independent third party evaluation of the reliability of this data.
6. Chemical analyses performed for specific parameters during the course of studies have been used, in part, as a basis for determining the areas of environmental concern. Additional chemical constituents not searched for may be present at the site. Defined areas of environmental concern do not cover the potential additional constituents.
7. Governmental agencies' interpretations, requirements and enforcement policies may impact the type and scope of any site remediation required for a site. In addition, statutes, rules and regulations may be legislatively changed and inter-agency and intra-agency policies may be changed from present practice. If such changes occur, it may be necessary to re-evaluate their impact on the scope of any site remediation required.
8. Any water level readings made in the test pits, borings and/or wells and were made under the conditions stated on the logs. This data may have been reviewed and interpretations have been made in the text of this Report. However, it must be noted that fluctuations in the level of groundwater may occur due to variations in rainfall, temperature and other factors different from those prevailing at the time measurements were made.

