



19 March 2007
VT DEC Site # 2005-3382
Document No. 207997r01

Mr. David Gillidale
Town of Brookfield
P.O. Box 463
Brookfield, VT 05036

Re: Soil Stockpile Monitoring and
Supply Well Sampling Report
Brookfield Town Garage
Brookfield, Vermont

Dear Mr. Gillidale:

Environmental Compliance Services, Inc. (ECS) has prepared this report summarizing the findings of the on-site soil stockpile monitoring and supply well sampling event conducted on 16 February 2007 at the Brookfield Town Garage (Site) located on Vermont Route 65 in the town of Brookfield, Vermont (Figure 1, Attachment A). The work was performed in general accordance with the 15 January 2007 work plan submitted by ECS, and approved by Mr. Ashley Desmond of the Vermont Department of Environmental Conservation (VT DEC) in a letter dated 1 February 2007.

FINDINGS AND RECOMMENDATIONS

- Photoionization detector (PID) headspace screening of the on-site soil stockpile indicated volatile organic compound (VOC) concentrations ranging from 1.2 to 53.8 parts per million (ppm) with no apparent visual or olfactory evidence of petroleum contamination. Three out of the five soil samples collected for headspace screening exhibited PID values in exceedance of the VT DEC soil threshold guidance level for fuel oil of 10 ppm.
- Toluene and total xylenes were detected in the groundwater sample collected from the on-site bedrock supply well at concentrations of 1.8 and 0.8 micrograms per liter ($\mu\text{g/L}$), respectively, which are well below the Vermont Groundwater Enforcement Standards (VGES). No other targeted VOCs were detected in the groundwater sample.

Based on the above findings, it is the opinion of ECS that the on-site soil stockpile does not meet VT DEC thinspread criteria. ECS recommends the following:

- the on-site bedrock supply well should be sampled on a quarterly basis to confirm the detection of VOCs;
- the soil stockpile should be transported to an approved facility for disposal; or scheduled monitoring and maintenance of the soil stockpile should continue until soil vapor levels from all samples obtained with a PID during an event are non-detectable (<1 parts per million) and there is no

olfactory or visual evidence of contamination. When both conditions are satisfied, then the soils may be thinspread onsite, following approval of the VT DEC.

SOIL STOCKPILE SCREENING

On 16 February 2007, ECS personnel inspected the on-site soil stockpile. The soil pile contains approximately 8 cubic yards of diesel-contaminated soil from the underground storage tank (UST) piping closure assessment completed in May 2005.

Contaminant concentrations in the soil pile were measured from a total of five samples collected at an approximate depth of three feet below the surface of the pile. Each sample was placed into a polyethylene bag, which was sealed, agitated, placed in a heated field vehicle, and allowed to equilibrate prior to headspace screening. Soil VOC concentrations were measured using a Thermo Environmental Instruments Model 580B PID. The PID was calibrated at the site on the day measurements were obtained with isobutylene standard gas to a benzene reference. PID readings ranged from 1.2 to 53.5 ppm, though no visual or olfactory observations of petroleum contamination were noted. The soil pile was re-covered with 6-mil polyethylene sheeting. A summary of the PID readings and sample locations is included on Figure 2 (Attachment A).

SUPPLY WELL SAMPLING AND ANALYSIS

On 16 February 2007, ECS personnel collected a groundwater sample from the on-site bedrock supply well. Prior to sample collection, the well was purged for approximately twenty minutes and the sample was collected from a spigot located within the garage. Water quality parameters including pH, specific conductance, turbidity, dissolved oxygen, temperature, and oxidation/reduction potential were measured throughout purging with a Horiba U-22 meter, and presented in Table 1, below.

TABLE 1
Water Quality Parameter Measurements

Monitoring Date: 16 February 2007

	Temp. (°C)	Specific Conductance (us/cm)	pH	ORP / Eh (mv)	DO (mg/L)	Turbidity (NTU)
Purge Start	8.70	0.280	5.97	155.0	7.15	38.00
Post Purge	8.80	0.250	7.28	117.0	3.39	37.50

A trip blank was included for quality assurance/quality control purposes. The water samples were transported under chain-of-custody in an ice-filled cooler to Spectrum Analytical, Inc. of Agawam, Massachusetts (Vermont Certification # VT-11393) where they were analyzed for the possible presence of VOCs by EPA Method 524.2. The laboratory analytical report is included in Attachment B.

Mr. David Gillidale
19 March 2007
Page 3

Laboratory analytical results indicated the following:

- Toluene was detected at a concentration of 1.8 µg/L which is well below the VGES of 1,000 µg/L.
- Total xylenes were detected at a concentration of 0.8 µg/L which is well below the VGES of 10,000 µg/L.
- No VOCs were detected in the trip blank.

Please call me if you have any questions or concerns regarding the enclosed information or recommendations.

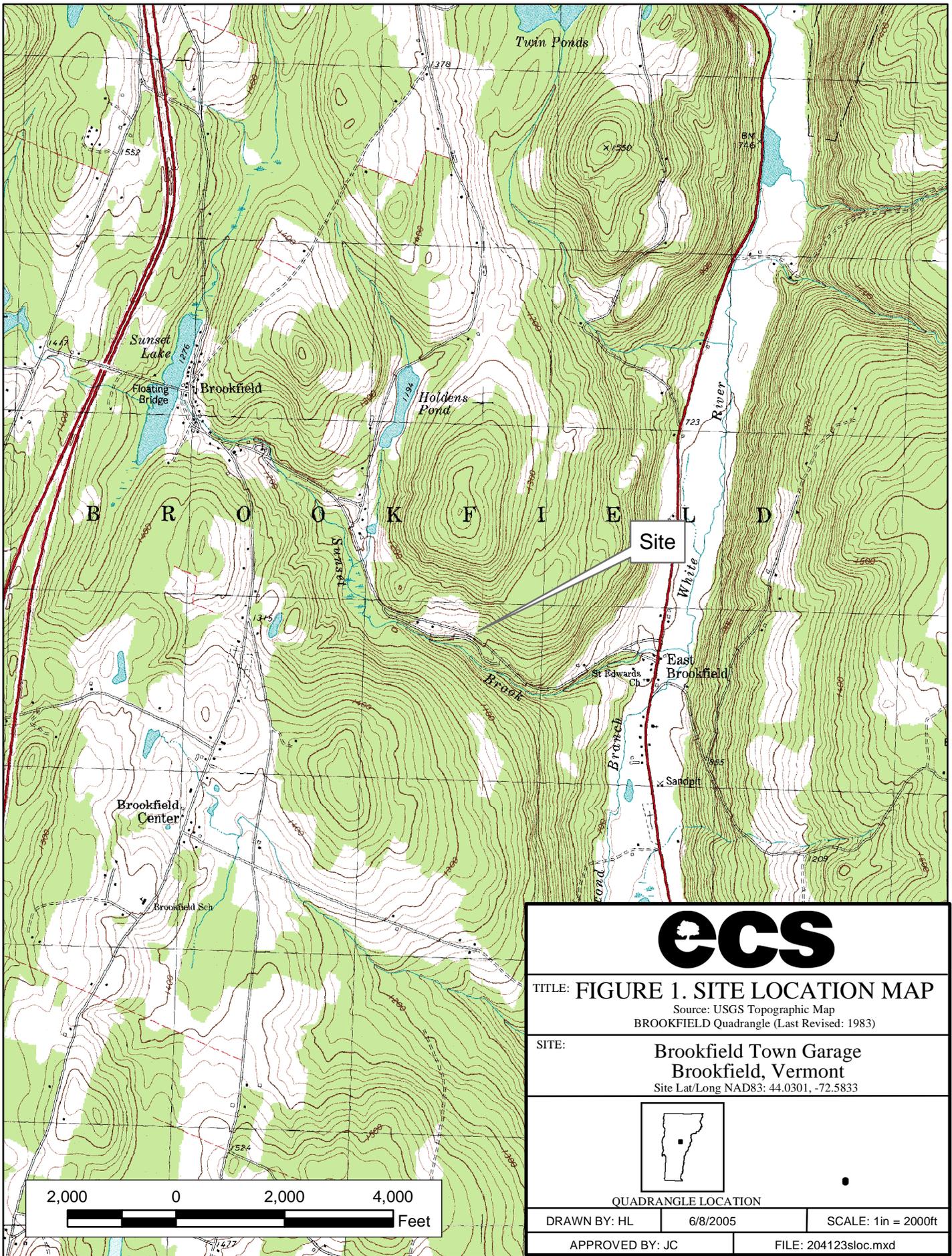
Sincerely,
ENVIRONMENTAL COMPLIANCE SERVICES, INC.

Christopher N. Kinnick
Geologist

Attachment A Figures
Attachment B Laboratory Analytical Report

Cc. Mr. Ashley Desmond, VT DEC

ATTACHMENT A
FIGURES

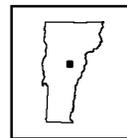


TITLE: FIGURE 1. SITE LOCATION MAP

Source: USGS Topographic Map
 BROOKFIELD Quadrangle (Last Revised: 1983)

SITE:

Brookfield Town Garage
Brookfield, Vermont
 Site Lat/Long NAD83: 44.0301, -72.5833



QUADRANGLE LOCATION

DRAWN BY: HL

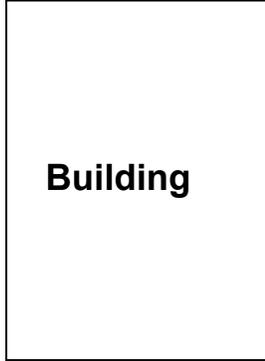
6/8/2005

SCALE: 1in = 2000ft

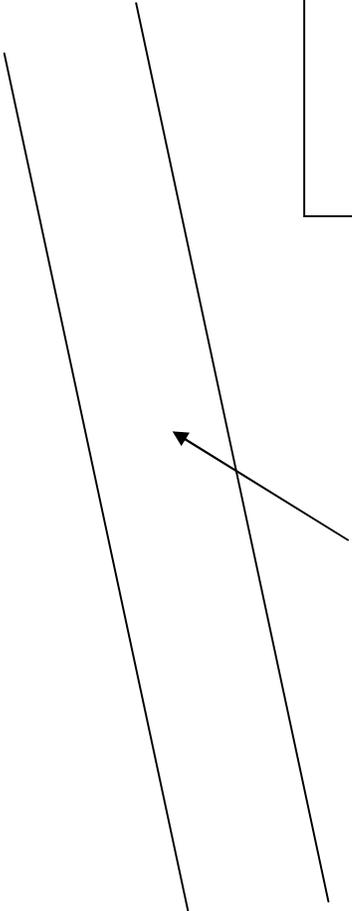
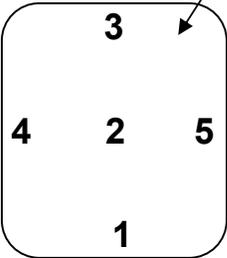
APPROVED BY: JC

FILE: 204123sloc.mxd

← N



Soil Stockpile with PID Screening Locations



PID Screening Location	Sample Depth (ft)	PID Reading (ppm)
1	3	10.5
2	3	6.1
3	3	42.1
4	3	53.5
5	3	1.2
Average		22.7



FIGURE 2.
SOIL STOCKPILE PID SCREENING
LOCATIONS AND RESULTS

Brookfield Town Garage
Brookfield, VT

DRAWN BY: CK | DATE: 2/26/07 | Not to Scale

APPROVED BY: CK | FILE No.: 08-207997.00

ATTACHMENT B

LABORATORY ANALYTICAL REPORT

Report Date:
01-Mar-07 12:10



- Final Report
- Re-Issued Report
- Revised Report

SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report

Environmental Compliance Services
65 Millet Street; Suite 301
Richmond, VT 05477
Attn: Chris Kinnick

Project: Brookfield Garage - Brookfield, VT
Project 08-207997.00

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SA58365-01	Trip Blank	Drinking Water	16-Feb-07 08:15	21-Feb-07 10:00
SA58365-02	Faucet	Drinking Water	16-Feb-07 10:25	21-Feb-07 10:00

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Please note that this report contains 11 pages of analytical data plus Chain of Custody document(s).

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Massachusetts Certification # M-MA138/MA1110
 Connecticut # PH-0777
 Florida # E87600/E87936
 Maine # MA138
 New Hampshire # 2538/2972
 New Jersey # MA011/MA012
 New York # 11393/11840
 Rhode Island # 98
 USDA # S-51435
 Vermont # VT-11393



Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Technical Reviewer's Initial:

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NH-2972, NY-11840, FL-E87936 and NJ-MA012).

Sample Identification

Trip Blank

SA58365-01

Client Project #
08-207997.00Matrix
Drinking WaterCollection Date/Time
16-Feb-07 08:15Received
21-Feb-07

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
<u>524.2 Purgeable Organic Compounds</u>											
Prepared by method SW846 5030 Water MS											
67-64-1	Acetone	BRL		µg/l	10.0	1	EPA 524.2	23-Feb-07	25-Feb-07	7021355	ek
107-13-1	Acrylonitrile	BRL		µg/l	1.0	1	"	"	"	"	"
71-43-2	Benzene	BRL		µg/l	0.5	1	"	"	"	"	"
108-86-1	Bromobenzene	BRL		µg/l	0.5	1	"	"	"	"	"
74-97-5	Bromochloromethane	BRL		µg/l	0.5	1	"	"	"	"	"
75-27-4	Bromodichloromethane	BRL		µg/l	0.5	1	"	"	"	"	"
75-25-2	Bromoform	BRL		µg/l	0.5	1	"	"	"	"	"
74-83-9	Bromomethane	BRL		µg/l	0.5	1	"	"	"	"	"
78-93-3	2-Butanone (MEK)	BRL		µg/l	10.0	1	"	"	"	"	"
104-51-8	n-Butylbenzene	BRL		µg/l	0.5	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/l	0.5	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/l	0.5	1	"	"	"	"	"
75-15-0	Carbon disulfide	BRL		µg/l	0.5	1	"	"	"	"	"
56-23-5	Carbon tetrachloride	BRL		µg/l	0.5	1	"	"	"	"	"
108-90-7	Chlorobenzene	BRL		µg/l	0.5	1	"	"	"	"	"
75-00-3	Chloroethane	BRL		µg/l	0.5	1	"	"	"	"	"
67-66-3	Chloroform	BRL		µg/l	0.5	1	"	"	"	"	"
74-87-3	Chloromethane	BRL		µg/l	0.5	1	"	"	"	"	"
95-49-8	2-Chlorotoluene	BRL		µg/l	0.5	1	"	"	"	"	"
106-43-4	4-Chlorotoluene	BRL		µg/l	0.5	1	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/l	0.5	1	"	"	"	"	"
124-48-1	Dibromochloromethane	BRL		µg/l	0.5	1	"	"	"	"	"
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	0.5	1	"	"	"	"	"
74-95-3	Dibromomethane	BRL		µg/l	0.5	1	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL		µg/l	0.5	1	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL		µg/l	0.5	1	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	0.5	1	"	"	"	"	"
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/l	0.5	1	"	"	"	"	"
75-34-3	1,1-Dichloroethane	BRL		µg/l	0.5	1	"	"	"	"	"
107-06-2	1,2-Dichloroethane	BRL		µg/l	0.5	1	"	"	"	"	"
75-35-4	1,1-Dichloroethene	BRL		µg/l	0.5	1	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	BRL		µg/l	0.5	1	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	BRL		µg/l	0.5	1	"	"	"	"	"
78-87-5	1,2-Dichloropropane	BRL		µg/l	0.5	1	"	"	"	"	"
142-28-9	1,3-Dichloropropane	BRL		µg/l	0.5	1	"	"	"	"	"
594-20-7	2,2-Dichloropropane	BRL		µg/l	0.5	1	"	"	"	"	"
563-58-6	1,1-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/l	0.5	1	"	"	"	"	"
87-68-3	Hexachlorobutadiene	BRL		µg/l	0.5	1	"	"	"	"	"
591-78-6	2-Hexanone (MBK)	BRL		µg/l	10.0	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/l	0.5	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/l	0.5	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	0.5	1	"	"	"	"	"
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/l	10.0	1	"	"	"	"	"
75-09-2	Methylene chloride	BRL		µg/l	0.5	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/l	0.5	1	"	"	"	"	"
103-65-1	n-Propylbenzene	BRL		µg/l	0.5	1	"	"	"	"	"
100-42-5	Styrene	BRL		µg/l	0.5	1	"	"	"	"	"

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

Trip Blank

SA58365-01

Client Project #

08-207997.00

Matrix

Drinking Water

Collection Date/Time

16-Feb-07 08:15

Received

21-Feb-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Volatile Organic Compounds											
<u>524.2 Purgeable Organic Compounds</u>											
Prepared by method SW846 5030 Water MS											
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/l	0.5	1	EPA 524.2	23-Feb-07	25-Feb-07	7021355	ek
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/l	0.5	1	"	"	"	"	"
127-18-4	Tetrachloroethene	BRL		µg/l	0.5	1	"	"	"	"	"
108-88-3	Toluene	BRL		µg/l	0.5	1	"	"	"	"	"
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/l	0.5	1	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/l	0.5	1	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	BRL		µg/l	0.5	1	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	BRL		µg/l	0.5	1	"	"	"	"	"
79-01-6	Trichloroethene	BRL		µg/l	0.5	1	"	"	"	"	"
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/l	0.5	1	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	BRL		µg/l	0.5	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	0.5	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	0.5	1	"	"	"	"	"
75-01-4	Vinyl chloride	BRL		µg/l	0.5	1	"	"	"	"	"
1330-20-7	m,p-Xylene	BRL		µg/l	0.5	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/l	0.5	1	"	"	"	"	"
109-99-9	Tetrahydrofuran	BRL		µg/l	10.0	1	"	"	"	"	"
994-05-8	Tert-amyl methyl ether	BRL		µg/l	0.5	1	"	"	"	"	"
637-92-3	Ethyl tert-butyl ether	BRL		µg/l	0.5	1	"	"	"	"	"
108-20-3	Di-isopropyl ether	BRL		µg/l	0.5	1	"	"	"	"	"
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/l	10.0	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
460-00-4	4-Bromofluorobenzene	103			80-120 %		"	"	"	"	"
2037-26-5	Toluene-d8	100			80-120 %		"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	106			80-120 %		"	"	"	"	"
1868-53-7	Dibromofluoromethane	109			80-120 %		"	"	"	"	"

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample IdentificationFaucet
SA58365-02Client Project #
08-207997.00Matrix
Drinking WaterCollection Date/Time
16-Feb-07 10:25Received
21-Feb-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Volatile Organic Compounds											
<u>524.2 Purgeable Organic Compounds</u>											
Prepared by method SW846 5030 Water MS											
67-64-1	Acetone	BRL		µg/l	10.0	1	EPA 524.2	23-Feb-07	25-Feb-07	7021355	ek
107-13-1	Acrylonitrile	BRL		µg/l	1.0	1	"	"	"	"	"
71-43-2	Benzene	BRL		µg/l	0.5	1	"	"	"	"	"
108-86-1	Bromobenzene	BRL		µg/l	0.5	1	"	"	"	"	"
74-97-5	Bromochloromethane	BRL		µg/l	0.5	1	"	"	"	"	"
75-27-4	Bromodichloromethane	BRL		µg/l	0.5	1	"	"	"	"	"
75-25-2	Bromoform	BRL		µg/l	0.5	1	"	"	"	"	"
74-83-9	Bromomethane	BRL		µg/l	0.5	1	"	"	"	"	"
78-93-3	2-Butanone (MEK)	BRL		µg/l	10.0	1	"	"	"	"	"
104-51-8	n-Butylbenzene	BRL		µg/l	0.5	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/l	0.5	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/l	0.5	1	"	"	"	"	"
75-15-0	Carbon disulfide	BRL		µg/l	0.5	1	"	"	"	"	"
56-23-5	Carbon tetrachloride	BRL		µg/l	0.5	1	"	"	"	"	"
108-90-7	Chlorobenzene	BRL		µg/l	0.5	1	"	"	"	"	"
75-00-3	Chloroethane	BRL		µg/l	0.5	1	"	"	"	"	"
67-66-3	Chloroform	BRL		µg/l	0.5	1	"	"	"	"	"
74-87-3	Chloromethane	BRL		µg/l	0.5	1	"	"	"	"	"
95-49-8	2-Chlorotoluene	BRL		µg/l	0.5	1	"	"	"	"	"
106-43-4	4-Chlorotoluene	BRL		µg/l	0.5	1	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/l	0.5	1	"	"	"	"	"
124-48-1	Dibromochloromethane	BRL		µg/l	0.5	1	"	"	"	"	"
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	0.5	1	"	"	"	"	"
74-95-3	Dibromomethane	BRL		µg/l	0.5	1	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL		µg/l	0.5	1	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL		µg/l	0.5	1	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	0.5	1	"	"	"	"	"
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/l	0.5	1	"	"	"	"	"
75-34-3	1,1-Dichloroethane	BRL		µg/l	0.5	1	"	"	"	"	"
107-06-2	1,2-Dichloroethane	BRL		µg/l	0.5	1	"	"	"	"	"
75-35-4	1,1-Dichloroethene	BRL		µg/l	0.5	1	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	BRL		µg/l	0.5	1	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	BRL		µg/l	0.5	1	"	"	"	"	"
78-87-5	1,2-Dichloropropane	BRL		µg/l	0.5	1	"	"	"	"	"
142-28-9	1,3-Dichloropropane	BRL		µg/l	0.5	1	"	"	"	"	"
594-20-7	2,2-Dichloropropane	BRL		µg/l	0.5	1	"	"	"	"	"
563-58-6	1,1-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/l	0.5	1	"	"	"	"	"
87-68-3	Hexachlorobutadiene	BRL		µg/l	0.5	1	"	"	"	"	"
591-78-6	2-Hexanone (MBK)	BRL		µg/l	10.0	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/l	0.5	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/l	0.5	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	0.5	1	"	"	"	"	"
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/l	10.0	1	"	"	"	"	"
75-09-2	Methylene chloride	BRL		µg/l	0.5	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/l	0.5	1	"	"	"	"	"
103-65-1	n-Propylbenzene	BRL		µg/l	0.5	1	"	"	"	"	"
100-42-5	Styrene	BRL		µg/l	0.5	1	"	"	"	"	"

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample IdentificationFaucet
SA58365-02Client Project #
08-207997.00Matrix
Drinking WaterCollection Date/Time
16-Feb-07 10:25Received
21-Feb-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Volatile Organic Compounds											
<u>524.2 Purgeable Organic Compounds</u>											
Prepared by method SW846 5030 Water MS											
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/l	0.5	1	EPA 524.2	23-Feb-07	25-Feb-07	7021355	ek
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/l	0.5	1	"	"	"	"	"
127-18-4	Tetrachloroethene	BRL		µg/l	0.5	1	"	"	"	"	"
108-88-3	Toluene	1.8		µg/l	0.5	1	"	"	"	"	"
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/l	0.5	1	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/l	0.5	1	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	BRL		µg/l	0.5	1	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	BRL		µg/l	0.5	1	"	"	"	"	"
79-01-6	Trichloroethene	BRL		µg/l	0.5	1	"	"	"	"	"
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/l	0.5	1	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	BRL		µg/l	0.5	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	0.5	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	0.5	1	"	"	"	"	"
75-01-4	Vinyl chloride	BRL		µg/l	0.5	1	"	"	"	"	"
1330-20-7	m,p-Xylene	0.8		µg/l	0.5	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/l	0.5	1	"	"	"	"	"
109-99-9	Tetrahydrofuran	BRL		µg/l	10.0	1	"	"	"	"	"
994-05-8	Tert-amyl methyl ether	BRL		µg/l	0.5	1	"	"	"	"	"
637-92-3	Ethyl tert-butyl ether	BRL		µg/l	0.5	1	"	"	"	"	"
108-20-3	Di-isopropyl ether	BRL		µg/l	0.5	1	"	"	"	"	"
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/l	10.0	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
460-00-4	4-Bromofluorobenzene	102			80-120 %		"	"	"	"	"
2037-26-5	Toluene-d8	101			80-120 %		"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	106			80-120 %		"	"	"	"	"
1868-53-7	Dibromofluoromethane	105			80-120 %		"	"	"	"	"

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 7021355 - SW846 5030 Water MS										
Blank (7021355-BLK1)										
Prepared: 23-Feb-07 Analyzed: 24-Feb-07										
Acetone	BRL		µg/l	10.0						
Acrylonitrile	BRL		µg/l	1.0						
Benzene	BRL		µg/l	0.5						
Bromobenzene	BRL		µg/l	0.5						
Bromochloromethane	BRL		µg/l	0.5						
Bromodichloromethane	BRL		µg/l	0.5						
Bromoform	BRL		µg/l	0.5						
Bromomethane	BRL		µg/l	0.5						
2-Butanone (MEK)	BRL		µg/l	10.0						
n-Butylbenzene	BRL		µg/l	0.5						
sec-Butylbenzene	BRL		µg/l	0.5						
tert-Butylbenzene	BRL		µg/l	0.5						
Carbon disulfide	BRL		µg/l	0.5						
Carbon tetrachloride	BRL		µg/l	0.5						
Chlorobenzene	BRL		µg/l	0.5						
Chloroethane	BRL		µg/l	0.5						
Chloroform	BRL		µg/l	0.5						
Chloromethane	BRL		µg/l	0.5						
2-Chlorotoluene	BRL		µg/l	0.5						
4-Chlorotoluene	BRL		µg/l	0.5						
1,2-Dibromo-3-chloropropane	BRL		µg/l	0.5						
Dibromochloromethane	BRL		µg/l	0.5						
1,2-Dibromoethane (EDB)	BRL		µg/l	0.5						
Dibromomethane	BRL		µg/l	0.5						
1,2-Dichlorobenzene	BRL		µg/l	0.5						
1,3-Dichlorobenzene	BRL		µg/l	0.5						
1,4-Dichlorobenzene	BRL		µg/l	0.5						
Dichlorodifluoromethane (Freon12)	BRL		µg/l	0.5						
1,1-Dichloroethane	BRL		µg/l	0.5						
1,2-Dichloroethane	BRL		µg/l	0.5						
1,1-Dichloroethene	BRL		µg/l	0.5						
cis-1,2-Dichloroethene	BRL		µg/l	0.5						
trans-1,2-Dichloroethene	BRL		µg/l	0.5						
1,2-Dichloropropane	BRL		µg/l	0.5						
1,3-Dichloropropane	BRL		µg/l	0.5						
2,2-Dichloropropane	BRL		µg/l	0.5						
1,1-Dichloropropene	BRL		µg/l	0.5						
cis-1,3-Dichloropropene	BRL		µg/l	0.5						
trans-1,3-Dichloropropene	BRL		µg/l	0.5						
Ethylbenzene	BRL		µg/l	0.5						
Hexachlorobutadiene	BRL		µg/l	0.5						
2-Hexanone (MBK)	BRL		µg/l	10.0						
Isopropylbenzene	BRL		µg/l	0.5						
4-Isopropyltoluene	BRL		µg/l	0.5						
Methyl tert-butyl ether	BRL		µg/l	0.5						
4-Methyl-2-pentanone (MIBK)	BRL		µg/l	10.0						
Methylene chloride	BRL		µg/l	0.5						
Naphthalene	BRL		µg/l	0.5						
n-Propylbenzene	BRL		µg/l	0.5						
Styrene	BRL		µg/l	0.5						
1,1,1,2-Tetrachloroethane	BRL		µg/l	0.5						
1,1,2,2-Tetrachloroethane	BRL		µg/l	0.5						
Tetrachloroethene	BRL		µg/l	0.5						

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* Reportable Detection Limit

BRL = Below Reporting Limit

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 7021355 - SW846 5030 Water MS										
Blank (7021355-BLK1)										
Prepared: 23-Feb-07 Analyzed: 24-Feb-07										
Toluene	BRL		µg/l	0.5						
1,2,3-Trichlorobenzene	BRL		µg/l	0.5						
1,2,4-Trichlorobenzene	BRL		µg/l	0.5						
1,1,1-Trichloroethane	BRL		µg/l	0.5						
1,1,2-Trichloroethane	BRL		µg/l	0.5						
Trichloroethene	BRL		µg/l	0.5						
Trichlorofluoromethane (Freon 11)	BRL		µg/l	0.5						
1,2,3-Trichloropropane	BRL		µg/l	0.5						
1,2,4-Trimethylbenzene	BRL		µg/l	0.5						
1,3,5-Trimethylbenzene	BRL		µg/l	0.5						
Vinyl chloride	BRL		µg/l	0.5						
m,p-Xylene	BRL		µg/l	0.5						
o-Xylene	BRL		µg/l	0.5						
Tetrahydrofuran	BRL		µg/l	10.0						
Tert-amyl methyl ether	BRL		µg/l	0.5						
Ethyl tert-butyl ether	BRL		µg/l	0.5						
Di-isopropyl ether	BRL		µg/l	0.5						
Tert-Butanol / butyl alcohol	BRL		µg/l	10.0						
<i>Surrogate: 4-Bromofluorobenzene</i>	50.2		µg/l		50.0		100	80-120		
<i>Surrogate: Toluene-d8</i>	50.9		µg/l		50.0		102	80-120		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	51.5		µg/l		50.0		103	80-120		
<i>Surrogate: Dibromofluoromethane</i>	51.2		µg/l		50.0		102	80-120		
LCS (7021355-BS1)										
Prepared: 23-Feb-07 Analyzed: 24-Feb-07										
Acetone	21.0		µg/l		20.0		105	70-130		
Acrylonitrile	16.4		µg/l		20.0		82.0	70-130		
Benzene	21.7		µg/l		20.0		108	80-120		
Bromobenzene	21.4		µg/l		20.0		107	80-120		
Bromochloromethane	20.4		µg/l		20.0		102	80-120		
Bromodichloromethane	21.8		µg/l		20.0		109	80-120		
Bromoform	20.7		µg/l		20.0		104	80-120		
Bromomethane	23.1		µg/l		20.0		116	80-120		
2-Butanone (MEK)	17.0		µg/l		20.0		85.0	70-130		
n-Butylbenzene	20.7		µg/l		20.0		104	80-120		
sec-Butylbenzene	22.4		µg/l		20.0		112	80-120		
tert-Butylbenzene	22.7		µg/l		20.0		114	80-120		
Carbon disulfide	21.4		µg/l		20.0		107	70-130		
Carbon tetrachloride	23.3		µg/l		20.0		116	80-120		
Chlorobenzene	21.8		µg/l		20.0		109	80-120		
Chloroethane	21.7		µg/l		20.0		108	80-120		
Chloroform	20.4		µg/l		20.0		102	80-120		
Chloromethane	24.9	QC1	µg/l		20.0		124	80-120		
2-Chlorotoluene	22.1		µg/l		20.0		110	80-120		
4-Chlorotoluene	21.5		µg/l		20.0		108	80-120		
1,2-Dibromo-3-chloropropane	18.7		µg/l		20.0		93.5	80-120		
Dibromochloromethane	22.4		µg/l		20.0		112	80-120		
1,2-Dibromoethane (EDB)	21.1		µg/l		20.0		106	80-120		
Dibromomethane	20.9		µg/l		20.0		104	80-120		
1,2-Dichlorobenzene	20.2		µg/l		20.0		101	80-120		
1,3-Dichlorobenzene	21.4		µg/l		20.0		107	80-120		
1,4-Dichlorobenzene	19.8		µg/l		20.0		99.0	80-120		
Dichlorodifluoromethane (Freon12)	29.2	QC2	µg/l		20.0		146	80-120		
1,1-Dichloroethane	21.0		µg/l		20.0		105	80-120		

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* Reportable Detection Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 7021355 - SW846 5030 Water MS										
<u>LCS (7021355-BS1)</u>										
Prepared: 23-Feb-07 Analyzed: 24-Feb-07										
1,2-Dichloroethane	21.4		µg/l		20.0		107	80-120		
1,1-Dichloroethene	20.2		µg/l		20.0		101	80-120		
cis-1,2-Dichloroethene	22.1		µg/l		20.0		110	80-120		
trans-1,2-Dichloroethene	20.8		µg/l		20.0		104	80-120		
1,2-Dichloropropane	20.7		µg/l		20.0		104	80-120		
1,3-Dichloropropane	21.1		µg/l		20.0		106	80-120		
2,2-Dichloropropane	16.5		µg/l		20.0		82.5	80-120		
1,1-Dichloropropene	21.7		µg/l		20.0		108	80-120		
cis-1,3-Dichloropropene	20.0		µg/l		20.0		100	80-120		
trans-1,3-Dichloropropene	17.8		µg/l		20.0		89.0	80-120		
Ethylbenzene	21.8		µg/l		20.0		109	80-120		
Hexachlorobutadiene	19.3		µg/l		20.0		96.5	80-120		
2-Hexanone (MBK)	19.1		µg/l		20.0		95.5	70-130		
Isopropylbenzene	20.8		µg/l		20.0		104	80-120		
4-Isopropyltoluene	21.1		µg/l		20.0		106	80-120		
Methyl tert-butyl ether	19.8		µg/l		20.0		99.0	80-120		
4-Methyl-2-pentanone (MIBK)	18.8		µg/l		20.0		94.0	70-130		
Methylene chloride	21.1		µg/l		20.0		106	80-120		
Naphthalene	15.2	QC1	µg/l		20.0		76.0	80-120		
n-Propylbenzene	21.3		µg/l		20.0		106	80-120		
Styrene	21.8		µg/l		20.0		109	80-120		
1,1,1,2-Tetrachloroethane	23.7		µg/l		20.0		118	80-120		
1,1,2,2-Tetrachloroethane	18.7		µg/l		20.0		93.5	80-120		
Tetrachloroethene	20.7		µg/l		20.0		104	80-120		
Toluene	20.7		µg/l		20.0		104	80-120		
1,2,3-Trichlorobenzene	11.3	QC2	µg/l		20.0		56.5	80-120		
1,2,4-Trichlorobenzene	19.2		µg/l		20.0		96.0	80-120		
1,1,1-Trichloroethane	21.9		µg/l		20.0		110	80-120		
1,1,2-Trichloroethane	21.9		µg/l		20.0		110	80-120		
Trichloroethene	23.8		µg/l		20.0		119	80-120		
Trichlorofluoromethane (Freon 11)	22.8		µg/l		20.0		114	80-120		
1,2,3-Trichloropropane	23.6		µg/l		20.0		118	80-120		
1,2,4-Trimethylbenzene	22.5		µg/l		20.0		112	80-120		
1,3,5-Trimethylbenzene	22.2		µg/l		20.0		111	80-120		
Vinyl chloride	24.7	QC1	µg/l		20.0		124	80-120		
m,p-Xylene	43.4		µg/l		40.0		108	80-120		
o-Xylene	22.5		µg/l		20.0		112	80-120		
Tetrahydrofuran	18.9		µg/l		20.0		94.5	70-130		
Tert-amyl methyl ether	21.8		µg/l		20.0		109	70-130		
Ethyl tert-butyl ether	20.9		µg/l		20.0		104	70-130		
Di-isopropyl ether	20.1		µg/l		20.0		100	70-130		
Tert-Butanol / butyl alcohol	108	QC2	µg/l		200		54.0	70-130		
Surrogate: 4-Bromofluorobenzene	52.8		µg/l		50.0		106	80-120		
Surrogate: Toluene-d8	50.0		µg/l		50.0		100	80-120		
Surrogate: 1,2-Dichloroethane-d4	50.2		µg/l		50.0		100	80-120		
Surrogate: Dibromofluoromethane	50.8		µg/l		50.0		102	80-120		
<u>LCS Dup (7021355-BSD1)</u>										
Prepared: 23-Feb-07 Analyzed: 24-Feb-07										
Acetone	20.5		µg/l		20.0		102	70-130	2.90	30
Acrylonitrile	16.1		µg/l		20.0		80.5	70-130	1.85	30
Benzene	20.1		µg/l		20.0		100	80-120	7.69	20
Bromobenzene	19.9		µg/l		20.0		99.5	80-120	7.26	20
Bromochloromethane	19.8		µg/l		20.0		99.0	80-120	2.99	20

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* Reportable Detection Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 7021355 - SW846 5030 Water MS										
<u>LCS Dup (7021355-BSD1)</u>										
Prepared: 23-Feb-07 Analyzed: 24-Feb-07										
Bromodichloromethane	20.6		µg/l		20.0		103	80-120	5.66	20
Bromoform	20.4		µg/l		20.0		102	80-120	1.94	20
Bromomethane	21.7		µg/l		20.0		108	80-120	7.14	20
2-Butanone (MEK)	16.4		µg/l		20.0		82.0	70-130	3.59	30
n-Butylbenzene	20.1		µg/l		20.0		100	80-120	3.92	20
sec-Butylbenzene	21.8		µg/l		20.0		109	80-120	2.71	20
tert-Butylbenzene	22.0		µg/l		20.0		110	80-120	3.57	20
Carbon disulfide	18.2		µg/l		20.0		91.0	70-130	16.2	30
Carbon tetrachloride	21.4		µg/l		20.0		107	80-120	8.07	20
Chlorobenzene	19.9		µg/l		20.0		99.5	80-120	9.11	20
Chloroethane	19.3		µg/l		20.0		96.5	80-120	11.2	20
Chloroform	19.2		µg/l		20.0		96.0	80-120	6.06	20
Chloromethane	22.8		µg/l		20.0		114	80-120	8.40	20
2-Chlorotoluene	20.7		µg/l		20.0		104	80-120	5.61	20
4-Chlorotoluene	20.1		µg/l		20.0		100	80-120	7.69	20
1,2-Dibromo-3-chloropropane	18.1		µg/l		20.0		90.5	80-120	3.26	20
Dibromochloromethane	21.5		µg/l		20.0		108	80-120	3.64	20
1,2-Dibromoethane (EDB)	20.8		µg/l		20.0		104	80-120	1.90	20
Dibromomethane	20.0		µg/l		20.0		100	80-120	3.92	20
1,2-Dichlorobenzene	19.7		µg/l		20.0		98.5	80-120	2.51	20
1,3-Dichlorobenzene	19.8		µg/l		20.0		99.0	80-120	7.77	20
1,4-Dichlorobenzene	18.3		µg/l		20.0		91.5	80-120	7.87	20
Dichlorodifluoromethane (Freon12)	26.3	QC2	µg/l		20.0		132	80-120	10.1	20
1,1-Dichloroethane	19.6		µg/l		20.0		98.0	80-120	6.90	20
1,2-Dichloroethane	20.3		µg/l		20.0		102	80-120	4.78	20
1,1-Dichloroethene	18.2		µg/l		20.0		91.0	80-120	10.4	20
cis-1,2-Dichloroethene	20.5		µg/l		20.0		102	80-120	7.55	20
trans-1,2-Dichloroethene	19.1		µg/l		20.0		95.5	80-120	8.52	20
1,2-Dichloropropane	19.8		µg/l		20.0		99.0	80-120	4.93	20
1,3-Dichloropropane	19.9		µg/l		20.0		99.5	80-120	6.33	20
2,2-Dichloropropane	15.6	QC1	µg/l		20.0		78.0	80-120	5.61	20
1,1-Dichloropropene	19.3		µg/l		20.0		96.5	80-120	11.2	20
cis-1,3-Dichloropropene	19.2		µg/l		20.0		96.0	80-120	4.08	20
trans-1,3-Dichloropropene	17.3		µg/l		20.0		86.5	80-120	2.85	20
Ethylbenzene	20.2		µg/l		20.0		101	80-120	7.62	20
Hexachlorobutadiene	17.4		µg/l		20.0		87.0	80-120	10.4	20
2-Hexanone (MBK)	18.3		µg/l		20.0		91.5	70-130	4.28	30
Isopropylbenzene	19.6		µg/l		20.0		98.0	80-120	5.94	20
4-Isopropyltoluene	20.6		µg/l		20.0		103	80-120	2.87	20
Methyl tert-butyl ether	19.2		µg/l		20.0		96.0	80-120	3.08	20
4-Methyl-2-pentanone (MIBK)	18.0		µg/l		20.0		90.0	70-130	4.35	30
Methylene chloride	20.2		µg/l		20.0		101	80-120	4.83	20
Naphthalene	16.5		µg/l		20.0		82.5	80-120	8.20	20
n-Propylbenzene	20.2		µg/l		20.0		101	80-120	4.83	20
Styrene	20.3		µg/l		20.0		102	80-120	6.64	20
1,1,1,2-Tetrachloroethane	22.2		µg/l		20.0		111	80-120	6.11	20
1,1,1,2,2-Tetrachloroethane	17.8		µg/l		20.0		89.0	80-120	4.93	20
Tetrachloroethene	18.7		µg/l		20.0		93.5	80-120	10.6	20
Toluene	19.1		µg/l		20.0		95.5	80-120	8.52	20
1,2,3-Trichlorobenzene	12.2	QC2	µg/l		20.0		61.0	80-120	7.66	20
1,2,4-Trichlorobenzene	19.6		µg/l		20.0		98.0	80-120	2.06	20
1,1,1-Trichloroethane	20.0		µg/l		20.0		100	80-120	9.52	20
1,1,2-Trichloroethane	20.5		µg/l		20.0		102	80-120	7.55	20

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 7021355 - SW846 5030 Water MS										
<u>LCS Dup (7021355-BSD1)</u>										
Prepared: 23-Feb-07 Analyzed: 24-Feb-07										
Trichloroethene	21.6		µg/l		20.0		108	80-120	9.69	20
Trichlorofluoromethane (Freon 11)	19.4		µg/l		20.0		97.0	80-120	16.1	20
1,2,3-Trichloropropane	22.6		µg/l		20.0		113	80-120	4.33	20
1,2,4-Trimethylbenzene	21.3		µg/l		20.0		106	80-120	5.50	20
1,3,5-Trimethylbenzene	20.9		µg/l		20.0		104	80-120	6.51	20
Vinyl chloride	20.6		µg/l		20.0		103	80-120	18.5	20
m,p-Xylene	40.9		µg/l		40.0		102	80-120	5.71	20
o-Xylene	21.2		µg/l		20.0		106	80-120	5.50	20
Tetrahydrofuran	18.2		µg/l		20.0		91.0	70-130	3.77	30
Tert-amyl methyl ether	20.5		µg/l		20.0		102	70-130	6.64	30
Ethyl tert-butyl ether	20.6		µg/l		20.0		103	70-130	0.966	30
Di-isopropyl ether	19.3		µg/l		20.0		96.5	70-130	3.56	30
Tert-Butanol / butyl alcohol	119	QC2	µg/l		200		59.5	70-130	9.69	30
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>53.1</i>		<i>µg/l</i>		<i>50.0</i>		<i>106</i>	<i>80-120</i>		
<i>Surrogate: Toluene-d8</i>	<i>49.4</i>		<i>µg/l</i>		<i>50.0</i>		<i>98.8</i>	<i>80-120</i>		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>50.0</i>		<i>µg/l</i>		<i>50.0</i>		<i>100</i>	<i>80-120</i>		
<i>Surrogate: Dibromofluoromethane</i>	<i>50.6</i>		<i>µg/l</i>		<i>50.0</i>		<i>101</i>	<i>80-120</i>		
<u>Matrix Spike (7021355-MS1)</u> Source: SA58451-01										
Prepared: 23-Feb-07 Analyzed: 24-Feb-07										
Benzene	19.6		µg/l		20.0	BRL	98.0	80-120		
Chlorobenzene	23.5		µg/l		20.0	BRL	118	80-120		
1,1-Dichloroethene	13.4	QM7	µg/l		20.0	BRL	67.0	80-120		
Toluene	20.8		µg/l		20.0	BRL	104	80-120		
Trichloroethene	19.9		µg/l		20.0	BRL	99.5	80-120		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>51.1</i>		<i>µg/l</i>		<i>50.0</i>		<i>102</i>	<i>80-120</i>		
<i>Surrogate: Toluene-d8</i>	<i>49.1</i>		<i>µg/l</i>		<i>50.0</i>		<i>98.2</i>	<i>80-120</i>		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>50.6</i>		<i>µg/l</i>		<i>50.0</i>		<i>101</i>	<i>80-120</i>		
<i>Surrogate: Dibromofluoromethane</i>	<i>51.3</i>		<i>µg/l</i>		<i>50.0</i>		<i>103</i>	<i>80-120</i>		
<u>Matrix Spike Dup (7021355-MSD1)</u> Source: SA58451-01										
Prepared: 23-Feb-07 Analyzed: 24-Feb-07										
Benzene	20.1		µg/l		20.0	BRL	100	80-120	2.02	20
Chlorobenzene	24.6	QM7	µg/l		20.0	BRL	123	80-120	4.15	20
1,1-Dichloroethene	13.9	QM7	µg/l		20.0	BRL	69.5	80-120	3.66	20
Toluene	21.3		µg/l		20.0	BRL	106	80-120	1.90	20
Trichloroethene	20.1		µg/l		20.0	BRL	100	80-120	0.501	20
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>51.5</i>		<i>µg/l</i>		<i>50.0</i>		<i>103</i>	<i>80-120</i>		
<i>Surrogate: Toluene-d8</i>	<i>49.2</i>		<i>µg/l</i>		<i>50.0</i>		<i>98.4</i>	<i>80-120</i>		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>51.1</i>		<i>µg/l</i>		<i>50.0</i>		<i>102</i>	<i>80-120</i>		
<i>Surrogate: Dibromofluoromethane</i>	<i>51.7</i>		<i>µg/l</i>		<i>50.0</i>		<i>103</i>	<i>80-120</i>		

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Notes and Definitions

QC1	Analyte out of acceptance range.
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Brown



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Providing
LABORATORY TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

SAS8305 mg

Special Handling:
 Standard TAT - 7 to 10 business days
 Rush TAT - Date Needed: _____
All TATs subject to laboratory approval.
Min. 24-hour notification needed for rushes.
Samples disposed of after 60 days unless otherwise instructed.

Report To: ECS

65 Mill St. Site 301
Richmond, VT 05477

Invoice To: _____

P.O. No.: _____

RQN: 0002

Project No.: 08-207997.00

Site Name: Brookfield Garage

Location: Brookfield

Sampler(s): IG

State: VT

Project Mgr.: Chris Kimich

1= $\text{Na}_2\text{S}_2\text{O}_3$ 2= HCl 3= H_2SO_4 4= HNO_3 5= NaOH 6=Ascorbic Acid
7= CH_3OH 8= NaHSO_4 9=____ 10=____
DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=____ X2=____ X3=____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:
<u>SAS8305-01</u>	<u>Trip Blank</u>	<u>2/16/07</u>	<u>8:15</u>
<u>1-01</u>	<u>Ferret</u>	<u>2/16/07</u>	<u>10:25</u>

Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic
<u>G</u>	<u>DW</u>	<u>2</u>	<u>3</u>			
<u>C</u>	<u>DW</u>	<u>2</u>	<u>3</u>			

CHTS
1

Containers:

Analyses:

QA Reporting Notes:
(check if needed)

Provide MA DEP MCP CAM Report
 Provide CT DPH RCP Report

QA/QC Reporting Level
 Standard No QC
 Other _____

State specific reporting standards:

Fax results when available to () _____
 E-mail to CKimich@ecsconst.com
E-mail to _____
Condition upon receipt: Cooled Ambient °C 4.1

Requisitioned by: AKC

Received by: Plum

Date:	Time:
<u>2/16/07</u>	<u>15:30</u>
<u>2/21/07</u>	<u>10:00</u>