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ANALYTICAL REPORT

PROJECT NO. 142541

Focus/US Filter Westates 8270

Lot #: H6D030246

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SEVERN TRENT LABORATORIES, INC.

Kevin S. Woodcock
Project Manager

April 26, 2006

ANALYTICAL METHODS SUMMARY

H6D030246

PARAMETER	ANALYTICAL METHOD
Semivolatile Organic Compounds by GC/MS	SW846 8270C

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

H6D030246

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
H2H34	001	G-2890-R1-SPENT ACTIVATED CARBON	03/28/06	
H2H35	002	G-2894-R1-SCRUBBER BLOWDOWN	03/28/06	
H2H37	003	G-2898-R1-POTW DISCHARGE	03/28/06	
H2H38	004	G-2902-R1-CAUSTIC FEED	03/28/06	
H2H39	005	G-2906-R1-MAKE-UP WATER	03/28/06	
H2H4A	006	G-2988-R2-SPENT ACTIVATED CARBON	03/29/06	
H2H4C	007	G-2992-R2-SCRUBBER BLOWDOWN	03/29/06	
H2H4D	008	G-2996-R2-POTW DISCHARGE	03/29/06	
H2H4E	009	G-3004-R2-MAKE-UP WATER	03/29/06	
H2H4F	010	G-3071-R3-SPENT ACTIVATED CARBON	03/30/06	
H2H4G	011	G-3075-R3-SCRUBBER BLOWDOWN	03/30/06	
H2H4H	012	G-3079-R3-POTW DISCHARGE	03/30/06	
H2H4J	013	G-3087-R3-MAKE-UP WATER	03/30/06	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H6D030246

The results reported herein are applicable to the samples submitted for analysis only.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

Custody seals were not present upon sample receipt at STL Knoxville; however, the samples were hand delivered.

The "Relinquished by" field on the chain of custody documentation did not contain a signature.

Quality Control

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

The dilution factor reported on the sample result form represents a combination of factors (such as dilution, sample weight/volume adjustment, split ratio, etc.) used to adjust the reporting limits and method detection limits.

Surrogate recoveries for sample G-2890-R1-Spent Activated Carbon were outside QC limits. Since the matrix spike/matrix spike duplicate for this sample demonstrated similar surrogate recoveries, the results are attributed to sample matrix effects. In addition, one or more surrogate recoveries for samples G-2988-R2-Spent Activated Carbon and G-3071-R3-Spent Activated Carbon was outside QC limits. Since these samples are similar in nature, the results are attributed to sample matrix effects.

One or more surrogate recoveries for samples G-2894-R1-Scrubber Blowdown, G-2898-R1-POTW Discharge, G-2902-R1-Caustic Feed, G-3004-R2-Make-Up-Water, G-3075-R3-Scrubber Blowdown and G-3087-R3-Make-Up Water were outside QC limits. However, reextraction and reanalysis were not possible due to insufficient sample.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, expires 6/24/05), Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Cert. #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert. #345, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

PROJECT NARRATIVE
H6D030246

Samples G-2890-R1-Spent Activated Carbon, G-2988-R2-Spent Activated Carbon and G-3071-R3-Spent Activated Carbon were reported with elevated reporting limits for all analytes. Based on screening results, a dilution was necessary prior to analysis; the reporting limits were adjusted accordingly.

The matrix spike/matrix spike duplicate recoveries for sample G-2890-R1-Spent Activated Carbon and G-2902-R1-Caustic Feed were outside QC limits for several analytes. The laboratory control sample showed acceptable results indicating that the analysis was in control. The matrix spike/matrix spike duplicate results are attributed to matrix effects.

One surrogate recovery for sample G-2906-R1-Make-Up Water matrix spike duplicate was outside QC limits.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, expires 6/24/05), Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Cert. #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert. #345, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

Sample Data Summary

STL Knoxville - ACS

Client Sample ID: G-2890-R1-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-001 **Work Order #...:** H2H341AA **Matrix.....:** SOLID
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094075
Dilution Factor: 5
% Moisture.....: **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	**570 J**	**1600**	**ug/kg**	**85**
Acenaphthylene	**1300 J**	**1600**	**ug/kg**	**100**
Aniline	ND	1600	ug/kg	160
Anthracene	**200 J**	**1600**	**ug/kg**	**110**
Benz(a)anthracene	ND	1600	ug/kg	100
Benzidine	ND	16000	ug/kg	4200
Benzo(b)fluoranthene	ND	1600	ug/kg	260
Benzo(k)fluoranthene	ND	1600	ug/kg	120
Benzoic acid	ND	8000	ug/kg	850
Benzo(ghi)perylene	ND	1600	ug/kg	100
Benzo(a)pyrene	ND	1600	ug/kg	200
Benzyl alcohol	ND	1600	ug/kg	340
bis(2-Chloroethoxy) methane	ND	1600	ug/kg	340
bis(2-Chloroethyl)-ether	ND	1600	ug/kg	95
bis(2-Ethylhexyl) phthalate	ND	1600	ug/kg	320
4-Bromophenyl phenyl ether	ND	1600	ug/kg	340
Butyl benzyl phthalate	ND	1600	ug/kg	140
Carbazole	ND	1600	ug/kg	140
4-Chloroaniline	ND	1600	ug/kg	340
4-Chloro-3-methylphenol	ND	1600	ug/kg	340
2-Chloronaphthalene	ND	1600	ug/kg	95
2-Chlorophenol	ND	1600	ug/kg	120
4-Chlorophenyl phenyl ether	ND	1600	ug/kg	130
Chrysene	ND	1600	ug/kg	100
Dibenz(a,h)anthracene	ND	1600	ug/kg	340
Dibenzofuran	ND	1600	ug/kg	110
Di-n-butyl phthalate	ND	1600	ug/kg	160
1,2-Dichlorobenzene	**26000**	**1600**	**ug/kg**	**100**
1,3-Dichlorobenzene	ND	1600	ug/kg	85
1,4-Dichlorobenzene	**1900**	**1600**	**ug/kg**	**85**
3,3'-Dichlorobenzidine	ND	8000	ug/kg	340
2,4-Dichlorophenol	ND	1600	ug/kg	95
Diethyl phthalate	ND	1600	ug/kg	85

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STL Knoxville - ACS

Client Sample ID: G-2890-R1-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-001 **Work Order #...:** H2H341AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	** 1600	ug/kg	** 340
Dimethyl phthalate	ND	** 1600	ug/kg	** 120
1,3-Dinitrobenzene	ND	** 1600	ug/kg	**95**
4,6-Dinitro-2-methylphenol	ND	** 8000	ug/kg	** 850
2,4-Dinitrophenol	ND	** 8000	ug/kg	** 800
2,4-Dinitrotoluene	ND	** 1600	ug/kg	** 340
2,6-Dinitrotoluene	ND	** 1600	ug/kg	** 340
Di-n-octyl phthalate	ND	** 1600	ug/kg	** 150
Diphenylamine	ND	** 1600	ug/kg	** 150
1,2-Diphenylhydrazine	ND	** 1600	ug/kg	** 120
Fluoranthene	**140 J**	**** 1600**	**ug/kg**	**** 130**
Fluorene	**730 J**	**** 1600**	**ug/kg**	**** 85**
Hexachlorobenzene	ND	** 1600	ug/kg	** 90
Hexachlorobutadiene	ND	** 1600	ug/kg	** 85
Hexachlorocyclopentadiene	ND	** 8000	ug/kg	** 850
Hexachloroethane	ND	** 1600	ug/kg	** 110
Indeno(1,2,3-cd)pyrene	ND	** 1600	ug/kg	** 90
Isophorone	ND	** 1600	ug/kg	** 340
2-Methylnaphthalene	**7700**	**** 1600**	**ug/kg**	**** 85**
2-Methylphenol	ND	** 1600	ug/kg	** 100
3-Methylphenol & 4-Methylphenol	**890 J**	**** 1600**	**ug/kg**	**** 220**
Naphthalene	**6500**	**** 1600**	**ug/kg**	**** 85**
2-Nitroaniline	ND	** 8000	ug/kg	** 160
3-Nitroaniline	ND	** 8000	ug/kg	** 95
4-Nitroaniline	ND	** 8000	ug/kg	** 340
Nitrobenzene	ND	** 1600	ug/kg	** 340
2-Nitrophenol	ND	** 1600	ug/kg	** 340
4-Nitrophenol	ND	** 8000	ug/kg	** 850
N-Nitrosodimethylamine	ND	** 1600	ug/kg	** 85
N-Nitrosodiphenylamine	ND	** 1600	ug/kg	** 120
N-Nitrosodi-n-propylamine	ND	** 1600	ug/kg	** 340
Pentachlorophenol	ND	** 8000	ug/kg	** 850
Phenanthrene	**920 J**	**** 1600**	**ug/kg**	**** 95**
Phenol	**2000**	**** 1600**	**ug/kg**	**** 85**
2,2'-oxybis(1-Chloropropane)	ND	** 1600	ug/kg	** 85
Pyrene	**210 J**	**** 1600**	**ug/kg**	**** 140**
Pyridine	ND	** 3300	ug/kg	** 85
1,2,4-Trichlorobenzene	**2000**	**** 1600**	**ug/kg**	**** 85**

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STL Knoxville - ACS

Client Sample ID: G-2890-R1-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-001 **Work Order #...:** H2H341AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	1600	ug/kg	340
2,4,6-Trichloro-phenol	ND	1600	ug/kg	340

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	34 *	(44 - 93)
Phenol-d5	44 *	(47 - 98)
Nitrobenzene-d5	43 *	(45 - 100)
2-Fluorobiphenyl	41 *	(49 - 100)
2,4,6-Tribromophenol	5.5 *	(42 - 124)
Terphenyl-d14	6.6 *	(54 - 121)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2890-R1-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #: H6D030246-001 **Work Order #:** H2H341AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Toluene	108-88-3	24000 NJ	M	2.2315	ug/kg
Tetrachloroethylene	127-18-4	28000 NJ	M	2.537	ug/kg
Ethylbenzene	100-41-4	5900 NJ	M	2.9366	ug/kg
p-Xylene	106-42-3	20000 NJ	M	3.0012	ug/kg
Benzene, 1,3-dimethyl-	108-38-3	8600 NJ	M	3.1951	ug/kg
Ethanol, 2-butoxy-	111-76-2	3200 NJ	M	3.2597	ug/kg
Benzene, (1-methylethyl)-	98-82-8	6800 NJ	M	3.4477	ug/kg
Unknown		5900 NJ	M	3.7415	ug/kg
Unknown		7400 NJ	M	4.0235	ug/kg
Unknown		3100 NJ	M	4.2644	ug/kg
Limonene	138-86-3	35000 NJ	M	4.3056	ug/kg
Benzene, 1-methyl-3-propyl-	1074-43-7	3100 NJ	M	4.4818	ug/kg
Benzene, 1-methyl-3-(1-methyle	535-77-3	2500 NJ	M	4.5465	ug/kg
Benzene, 2-ethyl-1,3-dimethyl-	2870-04-4	2500 NJ	M	4.7404	ug/kg
Undecane	1120-21-4	4600 NJ	M	4.8814	ug/kg
Benzene, 1,2,4,5-tetramethyl-	95-93-2	1500 NJ	M	5.0988	ug/kg
Benzene, 1,2,4,5-tetramethyl-	95-93-2	3100 NJ	M	5.1399	ug/kg
Unknown		1400 NJ	M	5.4396	ug/kg
Unknown		1800 NJ	M	5.8097	ug/kg
Tridecane	629-50-5	1800 NJ	M	6.7028	ug/kg
Naphthalene, 2-methyl-	91-57-6	2500 NJ	M	6.9437	ug/kg
Biphenyl	92-52-4	1500 NJ	M	7.6018	ug/kg
Tetradecane	629-59-4	3300 NJ	M	7.684	ug/kg
Naphthalene, 2,3-dimethyl-	581-40-8	1600 NJ	M	7.9661	ug/kg
Unknown		1700 NJ	M	8.1776	ug/kg
cis-1,2,3,6-Tetrahydrophthalim	27813-21-4	6600 NJ	M	8.3832	ug/kg
1,1'-Biphenyl, 2,3'-dimethyl-	611-43-8	1400 NJ	M	8.677	ug/kg
Diethyltoluamide	134-62-3	2600 NJ	M	8.959	ug/kg
Unknown		3900 NJ	M	11.655	ug/kg
1,4-dioxane	123-91-1	3100 NJ	Q	1.85	ug/kg
acetophenone	98-86-2	ND	Q		ug/kg
benzaldehyde	100-52-7	ND	M		ug/kg
benzonitrile	100-47-0	ND	M		ug/kg
pentachlorobenzene	608-93-5	ND	Q		ug/kg
pentachloronitrobenzene	82-68-8	ND	Q		ug/kg
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/kg

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2894-R1-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-002 **Work Order #...:** H2H351AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

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STL Knoxville - ACS

Client Sample ID: G-2894-R1-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-002 **Work Order #...:** H2H351AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

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STL Knoxville - ACS

Client Sample ID: G-2894-R1-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-002 **Work Order #...:** H2H351AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	39	(36 - 98)
Phenol-d5	43 *	(49 - 109)
Nitrobenzene-d5	52 *	(57 - 120)
2-Fluorobiphenyl	59	(56 - 118)
2,4,6-Tribromophenol	62	(55 - 134)
Terphenyl-d14	66	(33 - 142)

NOTE(S):

* Surrogate recovery is outside stated control limits.

STL Knoxville - ACS

G-2894-R1-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #: H6D030246-002 **Work Order #:** H2H351AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		16 NJ	M	3.9002	ug/L
Unknown		17 NJ	M	4.1117	ug/L
Unknown		5.8 NJ	M	5.6041	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2898-R1-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-003 **Work Order #...:** H2H371AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)- ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

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STL Knoxville - ACS

Client Sample ID: G-2898-R1-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-003 **Work Order #...:** H2H371AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

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STL Knoxville - ACS

Client Sample ID: G-2898-R1-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-003 **Work Order #...:** H2H371AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	41	(36 - 98)
Phenol-d5	50	(49 - 109)
Nitrobenzene-d5	67	(57 - 120)
2-Fluorobiphenyl	82	(56 - 118)
2,4,6-Tribromophenol	54 *	(55 - 134)
Terphenyl-d14	91	(33 - 142)

NOTE(S):

* Surrogate recovery is outside stated control limits.

STL Knoxville - ACS

G-2898-R1-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #: H6D030246-003 **Work Order #:** H2H371AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		4.2 NJ	M	3.6241	ug/L
Unknown		150 NJ	M	3.9061	ug/L
Unknown		97 NJ	M	4.1117	ug/L
Unknown		52 NJ	M	5.6041	ug/L
N,N-Diethyl-p-nitroaniline	2216-15-1	5.9 NJ	M	10.275	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2902-R1-CAUSTIC FEED

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-004 **Work Order #...:** H2H381AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 10 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	100	ug/L	5.0
Acenaphthylene	ND	100	ug/L	5.8
Acetophenone	ND	100	ug/L	7.3
Aniline	ND	100	ug/L	8.7
Anthracene	ND	100	ug/L	8.2
Benz(a)anthracene	ND	100	ug/L	9.3
Benzidine	ND	1000	ug/L	250
Benzo(b)fluoranthene	ND	100	ug/L	10
Benzo(k)fluoranthene	ND	100	ug/L	13
Benzoic acid	ND	500	ug/L	90
Benzo(ghi)perylene	ND	100	ug/L	7.0
Benzo(a)pyrene	ND	100	ug/L	17
Benzyl alcohol	ND	100	ug/L	20
bis(2-Chloroethoxy) methane	ND	100	ug/L	20
bis(2-Chloroethyl)-ether	ND	100	ug/L	6.3
bis(2-Ethylhexyl) phthalate	**41 J**	**100**	**ug/L**	**14**
4-Bromophenyl phenyl ether	ND	100	ug/L	9.9
Butyl benzyl phthalate	ND	100	ug/L	14
Carbazole	ND	100	ug/L	7.9
4-Chloroaniline	ND	100	ug/L	9.5
4-Chloro-3-methylphenol	ND	100	ug/L	50
2-Chloronaphthalene	ND	100	ug/L	7.6
2-Chlorophenol	ND	100	ug/L	6.7
4-Chlorophenyl phenyl ether	ND	100	ug/L	8.9
Chrysene	ND	100	ug/L	8.9
Dibenz(a,h)anthracene	ND	100	ug/L	20
Dibenzofuran	ND	100	ug/L	5.8
Di-n-butyl phthalate	ND	100	ug/L	14
1,2-Dichlorobenzene	ND	100	ug/L	5.8
1,3-Dichlorobenzene	ND	100	ug/L	6.9
1,4-Dichlorobenzene	ND	100	ug/L	7.4
3,3'-Dichlorobenzidine	ND	500	ug/L	20
2,4-Dichlorophenol	ND	100	ug/L	20
Diethyl phthalate	ND	100	ug/L	11

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STL Knoxville - ACS

Client Sample ID: G-2902-R1-CAUSTIC FEED

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-004 **Work Order #...:** H2H381AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	100	ug/L	11
Dimethyl phthalate	ND	100	ug/L	7.7
1,3-Dinitrobenzene	ND	100	ug/L	96
4,6-Dinitro-2-methylphenol	ND	500	ug/L	50
2,4-Dinitrophenol	ND	500	ug/L	130
2,4-Dinitrotoluene	ND	100	ug/L	20
2,6-Dinitrotoluene	ND	100	ug/L	20
Di-n-octyl phthalate	ND	100	ug/L	20
Diphenylamine	ND	100	ug/L	33
1,2-Diphenylhydrazine	ND	100	ug/L	8.9
Fluoranthene	ND	100	ug/L	10
Fluorene	ND	100	ug/L	6.8
Hexachlorobenzene	ND	100	ug/L	7.6
Hexachlorobutadiene	ND	100	ug/L	8.2
Hexachlorocyclopentadiene	ND	500	ug/L	50
Hexachloroethane	ND	100	ug/L	6.6
Indeno(1,2,3-cd)pyrene	ND	100	ug/L	8.7
Isophorone	ND	100	ug/L	50
2-Methylnaphthalene	ND	100	ug/L	7.2
2-Methylphenol	ND	100	ug/L	9.4
3-Methylphenol & 4-Methylphenol	ND	100	ug/L	15
Naphthalene	ND	100	ug/L	7.1
2-Nitroaniline	ND	500	ug/L	20
3-Nitroaniline	ND	500	ug/L	20
4-Nitroaniline	ND	500	ug/L	50
Nitrobenzene	ND	100	ug/L	20
2-Nitrophenol	ND	100	ug/L	50
4-Nitrophenol	ND	500	ug/L	130
N-Nitrosodimethylamine	ND	100	ug/L	7.0
N-Nitrosodiphenylamine	ND	100	ug/L	8.7
N-Nitrosodi-n-propylamine	ND	100	ug/L	50
Pentachlorophenol	ND	500	ug/L	50
Phenanthrene	ND	100	ug/L	7.0
Phenol	ND	100	ug/L	7.6
2,2'-oxybis(1-Chloropropane)	ND	100	ug/L	5.2
Pyrene	ND	100	ug/L	9.0
Pyridine	ND	200	ug/L	9.7
1,2,4-Trichlorobenzene	ND	100	ug/L	7.4

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STL Knoxville - ACS

Client Sample ID: G-2902-R1-CAUSTIC FEED

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-004 **Work Order #...:** H2H381AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	100	ug/L	50
2,4,6-Trichloro-phenol	ND	100	ug/L	50
Pentachloronitrobenzene	ND	500	ug/L	16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	46	(36 - 98)
Phenol-d5	59	(49 - 109)
Nitrobenzene-d5	68	(57 - 120)
2-Fluorobiphenyl	79	(56 - 118)
2,4,6-Tribromophenol	35 *	(55 - 134)
Terphenyl-d14	92	(33 - 142)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2902-R1-CAUSTIC FEED

GC/MS Semivolatiles

Lot-Sample #: H6D030246-004 **Work Order #:** H2H381AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		62 NJ	M	6.5149	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2906-R1-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-005 **Work Order #...:** H2H391AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

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STL Knoxville - ACS

Client Sample ID: G-2906-R1-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-005 **Work Order #...:** H2H391AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

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STL Knoxville - ACS

Client Sample ID: G-2906-R1-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-005 **Work Order #...:** H2H391AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	49	(36 - 98)
Phenol-d5	53	(49 - 109)
Nitrobenzene-d5	59	(57 - 120)
2-Fluorobiphenyl	72	(56 - 118)
2,4,6-Tribromophenol	67	(55 - 134)
Terphenyl-d14	83	(33 - 142)

STL Knoxville - ACS

G-2906-R1-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #: H6D030246-005 **Work Order #:** H2H391AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		13 NJ	M	3.0778	ug/L
Methane, tribromo-	75-25-2	7.7 NJ	M	3.1306	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2988-R2-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-006 **Work Order #...:** H2H4A1AA **Matrix.....:** SOLID
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094075
Dilution Factor: 5
% Moisture.....: **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	**560 J**	**1600**	**ug/kg**	**85**
Acenaphthylene	**1200 J**	**1600**	**ug/kg**	**100**
Aniline	ND	1600	ug/kg	160
Anthracene	**240 J**	**1600**	**ug/kg**	**110**
Benz(a)anthracene	ND	1600	ug/kg	100
Benzidine	ND	16000	ug/kg	4200
Benzo(b)fluoranthene	ND	1600	ug/kg	260
Benzo(k)fluoranthene	ND	1600	ug/kg	120
Benzoic acid	ND	8000	ug/kg	850
Benzo(ghi)perylene	ND	1600	ug/kg	100
Benzo(a)pyrene	ND	1600	ug/kg	200
Benzyl alcohol	ND	1600	ug/kg	340
bis(2-Chloroethoxy) methane	ND	1600	ug/kg	340
bis(2-Chloroethyl)-ether	ND	1600	ug/kg	95
bis(2-Ethylhexyl) phthalate	ND	1600	ug/kg	320
4-Bromophenyl phenyl ether	ND	1600	ug/kg	340
Butyl benzyl phthalate	ND	1600	ug/kg	140
Carbazole	ND	1600	ug/kg	140
4-Chloroaniline	ND	1600	ug/kg	340
4-Chloro-3-methylphenol	ND	1600	ug/kg	340
2-Chloronaphthalene	ND	1600	ug/kg	95
2-Chlorophenol	ND	1600	ug/kg	120
4-Chlorophenyl phenyl ether	ND	1600	ug/kg	130
Chrysene	ND	1600	ug/kg	100
Dibenz(a,h)anthracene	ND	1600	ug/kg	340
Dibenzofuran	ND	1600	ug/kg	110
Di-n-butyl phthalate	ND	1600	ug/kg	160
1,2-Dichlorobenzene	**23000**	**1600**	**ug/kg**	**100**
1,3-Dichlorobenzene	ND	1600	ug/kg	85
1,4-Dichlorobenzene	**1700**	**1600**	**ug/kg**	**85**
3,3'-Dichlorobenzidine	ND	8000	ug/kg	340
2,4-Dichlorophenol	ND	1600	ug/kg	95
Diethyl phthalate	ND	1600	ug/kg	85

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STL Knoxville - ACS

Client Sample ID: G-2988-R2-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-006 Work Order #...: H2H4A1AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	** 1600	ug/kg	** 340
Dimethyl phthalate	ND	** 1600	ug/kg	** 120
1,3-Dinitrobenzene	ND	** 1600	ug/kg	95
4,6-Dinitro-2-methylphenol	ND	** 8000	ug/kg	** 850
2,4-Dinitrophenol	ND	** 8000	ug/kg	** 800
2,4-Dinitrotoluene	ND	** 1600	ug/kg	** 340
2,6-Dinitrotoluene	ND	** 1600	ug/kg	** 340
Di-n-octyl phthalate	ND	** 1600	ug/kg	** 150
Diphenylamine	ND	** 1600	ug/kg	** 150
1,2-Diphenylhydrazine	ND	** 1600	ug/kg	** 120
Fluoranthene	**160 J**	**** 1600**	**ug/kg**	**** 130**
Fluorene	**710 J**	**** 1600**	**ug/kg**	**** 85**
Hexachlorobenzene	ND	** 1600	ug/kg	** 90
Hexachlorobutadiene	ND	** 1600	ug/kg	** 85
Hexachlorocyclopentadiene	ND	** 8000	ug/kg	** 850
Hexachloroethane	ND	** 1600	ug/kg	** 110
Indeno(1,2,3-cd)pyrene	ND	** 1600	ug/kg	** 90
Isophorone	ND	** 1600	ug/kg	** 340
2-Methylnaphthalene	**7600**	**** 1600**	**ug/kg**	**** 85**
2-Methylphenol	ND	** 1600	ug/kg	** 100
3-Methylphenol & 4-Methylphenol	**310 J**	**** 1600**	**ug/kg**	**** 220**
Naphthalene	**5900**	**** 1600**	**ug/kg**	**** 85**
2-Nitroaniline	ND	** 8000	ug/kg	** 160
3-Nitroaniline	ND	** 8000	ug/kg	** 95
4-Nitroaniline	ND	** 8000	ug/kg	** 340
Nitrobenzene	ND	** 1600	ug/kg	** 340
2-Nitrophenol	ND	** 1600	ug/kg	** 340
4-Nitrophenol	ND	** 8000	ug/kg	** 850
N-Nitrosodimethylamine	ND	** 1600	ug/kg	** 85
N-Nitrosodiphenylamine	ND	** 1600	ug/kg	** 120
N-Nitrosodi-n-propylamine	ND	** 1600	ug/kg	** 340
Pentachlorophenol	ND	** 8000	ug/kg	** 850
Phenanthrene	**1000 J**	**** 1600**	**ug/kg**	**** 95**
Phenol	**710 J**	**** 1600**	**ug/kg**	**** 85**
2,2'-oxybis(1-Chloropropane)	ND	** 1600	ug/kg	** 85
Pyrene	**250 J**	**** 1600**	**ug/kg**	**** 140**
Pyridine	ND	** 3300	ug/kg	** 85
1,2,4-Trichlorobenzene	**2000**	**** 1600**	**ug/kg**	**** 85**

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STL Knoxville - ACS

Client Sample ID: G-2988-R2-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-006 **Work Order #...:** H2H4A1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	1600	ug/kg	340
2,4,6-Trichloro-phenol	ND	1600	ug/kg	340

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	32 *	(44 - 93)
Phenol-d5	44 *	(47 - 98)
Nitrobenzene-d5	41 *	(45 - 100)
2-Fluorobiphenyl	41 *	(49 - 100)
2,4,6-Tribromophenol	7.1 *	(42 - 124)
Terphenyl-d14	9.5 *	(54 - 121)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2988-R2-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #: H6D030246-006 **Work Order #:** H2H4A1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Toluene	108-88-3	19000 NJ	Q	2.2315	ug/kg
Tetrachloroethylene	127-18-4	17000 NJ	Q	2.537	ug/kg
Ethylbenzene	100-41-4	6200 NJ	Q	2.9365	ug/kg
p-Xylene	106-42-3	20000 NJ	Q	3.0012	ug/kg
o-Xylene	95-47-6	7700 NJ	Q	3.1951	ug/kg
Unknown		2200 NJ	Q	3.2597	ug/kg
Benzene, (1-methylethyl)-	98-82-8	6600 NJ	Q	3.4477	ug/kg
Unknown		3900 NJ	Q	3.718	ug/kg
Benzene, 1-ethyl-2-methyl-	611-14-3	3900 NJ	Q	3.7474	ug/kg
Benzene, 1,2,4-trimethyl-	95-63-6	6300 NJ	Q	4.0176	ug/kg
Unknown		3200 NJ	Q	4.2644	ug/kg
Limonene	138-86-3	24000 NJ	Q	4.3055	ug/kg
Benzene, 1-methyl-3-propyl-	1074-43-7	2600 NJ	Q	4.4818	ug/kg
Benzene, 1,2,4,5-tetramethyl-	95-93-2	2500 NJ	Q	4.5464	ug/kg
Benzene, 1-ethyl-2,4-dimethyl-	874-41-9	2600 NJ	Q	4.7403	ug/kg
Undecane	1120-21-4	2800 NJ	Q	4.8814	ug/kg
Unknown		1700 NJ	Q	5.0694	ug/kg
Benzene, 1,2,4,5-tetramethyl-	95-93-2	1600 NJ	Q	5.0987	ug/kg
Benzene, 1,2,4,5-tetramethyl-	95-93-2	3100 NJ	Q	5.1399	ug/kg
Unknown		1600 NJ	Q	5.4395	ug/kg
Dodecane	112-40-3	1300 NJ	Q	5.8097	ug/kg
Tridecane	629-50-5	1500 NJ	Q	6.7028	ug/kg
Naphthalene, 2-methyl-	91-57-6	2800 NJ	Q	6.9437	ug/kg
Tetradecane	629-59-4	3100 NJ	Q	7.684	ug/kg
Unknown		1500 NJ	Q	8.1776	ug/kg
cis-1,2,3,6-Tetrahydrophthalim	27813-21-4	3100 NJ	Q	8.3714	ug/kg
Benzene, 1-methyl-4-(phenylmet	620-83-7	1900 NJ	Q	8.677	ug/kg
3,6,9,12,15-Pentaoxanonadecan-	1786-94-3	1300 NJ	Q	9.6876	ug/kg
Unknown		4500 NJ	Q	11.655	ug/kg
1,4-dioxane	123-91-1	1700	Q	1.85	ug/kg
acetophenone	98-86-2	ND	Q		ug/kg
benzaldehyde	100-52-7	ND	M		ug/kg
benzonitrile	100-47-0	ND	M		ug/kg
pentachlorobenzene	608-93-5	ND	Q		ug/kg
pentachloronitrobenzene	82-68-8	ND	Q		ug/kg
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/kg

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2992-R2-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-007 **Work Order #...:** H2H4C1AA **Matrix.....:** WATER
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

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STL Knoxville - ACS

Client Sample ID: G-2992-R2-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-007 **Work Order #...:** H2H4C1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

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STL Knoxville - ACS

Client Sample ID: G-2992-R2-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-007 **Work Order #...:** H2H4C1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	43	(36 - 98)
Phenol-d5	51	(49 - 109)
Nitrobenzene-d5	57	(57 - 120)
2-Fluorobiphenyl	68	(56 - 118)
2,4,6-Tribromophenol	65	(55 - 134)
Terphenyl-d14	63	(33 - 142)

STL Knoxville - ACS

G-2992-R2-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #: H6D030246-007 **Work Order #:** H2H4C1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Chloroiodomethane	593-71-5	4.3 NJ	M	1.9497	ug/L
Unknown		27 NJ	M	3.9004	ug/L
Unknown		43 NJ	M	4.1119	ug/L
Unknown		19 NJ	M	5.6043	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2996-R2-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-008 **Work Order #...:** H2H4D1AA **Matrix.....:** WATER
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

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STL Knoxville - ACS

Client Sample ID: G-2996-R2-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-008 **Work Order #...:** H2H4D1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

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STL Knoxville - ACS

Client Sample ID: G-2996-R2-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-008 **Work Order #...:** H2H4D1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	46	(36 - 98)
Phenol-d5	54	(49 - 109)
Nitrobenzene-d5	61	(57 - 120)
2-Fluorobiphenyl	70	(56 - 118)
2,4,6-Tribromophenol	67	(55 - 134)
Terphenyl-d14	87	(33 - 142)

STL Knoxville - ACS

G-2996-R2-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #: H6D030246-008 **Work Order #:** H2H4D1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		62 NJ	M	3.9003	ug/L
Unknown		5.7 NJ	M	5.6042	ug/L
Unknown		6.3 NJ	M	6.9145	ug/L
N,N-Diethyl-p-nitroaniline	2216-15-1	10 NJ	M	10.269	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3004-R2-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-009 **Work Order #...:** H2H4E1AA **Matrix.....:** WATER
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

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STL Knoxville - ACS

Client Sample ID: G-3004-R2-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-009 **Work Order #...:** H2H4E1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

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STL Knoxville - ACS

Client Sample ID: G-3004-R2-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-009 **Work Order #...:** H2H4E1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	3.0 *	(36 - 98)
Phenol-d5	0.41 *	(49 - 109)
Nitrobenzene-d5	55 *	(57 - 120)
2-Fluorobiphenyl	65	(56 - 118)
2,4,6-Tribromophenol	57	(55 - 134)
Terphenyl-d14	85	(33 - 142)

NOTE(S):

* Surrogate recovery is outside stated control limits.

STL Knoxville - ACS

G-3004-R2-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #: H6D030246-009 **Work Order #:** H2H4E1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		40 NJ	M	2.4724	ug/L
Unknown		29 NJ	M	3.0776	ug/L
Methane, tribromo-	75-25-2	6.5 NJ	M	3.1305	ug/L
Unknown		19 NJ	M	5.2986	ug/L
Unknown		4.7 NJ	M	6.3444	ug/L
Unknown		23 NJ	M	6.4149	ug/L
Unknown		4.8 NJ	M	6.6734	ug/L
Unknown		11 NJ	M	7.2493	ug/L
Unknown		4.5 NJ	M	7.5724	ug/L
(3,5-Dichlorophenyl)diethylami	100030-66-3	34 NJ	M	8.16	ug/L
Unknown		25 NJ	M	8.677	ug/L
Unknown		12 NJ	M	8.7828	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3071-R3-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-010 **Work Order #...:** H2H4F1AA **Matrix.....:** SOLID
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094075
Dilution Factor: 5
% Moisture.....: **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	**780 J**	**1600**	**ug/kg**	**85**
Acenaphthylene	**1600**	**1600**	**ug/kg**	**100**
Aniline	ND	1600	ug/kg	160
Anthracene	**240 J**	**1600**	**ug/kg**	**110**
Benz(a)anthracene	ND	1600	ug/kg	100
Benzidine	ND	16000	ug/kg	4200
Benzo(b)fluoranthene	ND	1600	ug/kg	260
Benzo(k)fluoranthene	ND	1600	ug/kg	120
Benzoic acid	ND	8000	ug/kg	850
Benzo(ghi)perylene	ND	1600	ug/kg	100
Benzo(a)pyrene	ND	1600	ug/kg	200
Benzyl alcohol	ND	1600	ug/kg	340
bis(2-Chloroethoxy) methane	ND	1600	ug/kg	340
bis(2-Chloroethyl)-ether	ND	1600	ug/kg	95
bis(2-Ethylhexyl) phthalate	**410 J**	**1600**	**ug/kg**	**320**
4-Bromophenyl phenyl ether	ND	1600	ug/kg	340
Butyl benzyl phthalate	ND	1600	ug/kg	140
Carbazole	ND	1600	ug/kg	140
4-Chloroaniline	ND	1600	ug/kg	340
4-Chloro-3-methylphenol	ND	1600	ug/kg	340
2-Chloronaphthalene	ND	1600	ug/kg	95
2-Chlorophenol	ND	1600	ug/kg	120
4-Chlorophenyl phenyl ether	ND	1600	ug/kg	130
Chrysene	ND	1600	ug/kg	100
Dibenz(a,h)anthracene	ND	1600	ug/kg	340
Dibenzofuran	ND	1600	ug/kg	110
Di-n-butyl phthalate	ND	1600	ug/kg	160
1,2-Dichlorobenzene	**27000**	**1600**	**ug/kg**	**100**
1,3-Dichlorobenzene	ND	1600	ug/kg	85
1,4-Dichlorobenzene	**2100**	**1600**	**ug/kg**	**85**
3,3'-Dichlorobenzidine	ND	8000	ug/kg	340
2,4-Dichlorophenol	ND	1600	ug/kg	95
Diethyl phthalate	ND	1600	ug/kg	85

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STL Knoxville - ACS

Client Sample ID: G-3071-R3-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-010 **Work Order #...:** H2H4F1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	** 1600	ug/kg	** 340
Dimethyl phthalate	ND	** 1600	ug/kg	** 120
1,3-Dinitrobenzene	ND	** 1600	ug/kg	**95**
4,6-Dinitro-2-methylphenol	ND	** 8000	ug/kg	** 850
2,4-Dinitrophenol	ND	** 8000	ug/kg	** 800
2,4-Dinitrotoluene	ND	** 1600	ug/kg	** 340
2,6-Dinitrotoluene	ND	** 1600	ug/kg	** 340
Di-n-octyl phthalate	ND	** 1600	ug/kg	** 150
Diphenylamine	ND	** 1600	ug/kg	** 150
1,2-Diphenylhydrazine	ND	** 1600	ug/kg	** 120
Fluoranthene	**130 J**	**** 1600**	**ug/kg**	**** 130**
Fluorene	**1000 J**	**** 1600**	**ug/kg**	**** 85**
Hexachlorobenzene	ND	** 1600	ug/kg	** 90
Hexachlorobutadiene	ND	** 1600	ug/kg	** 85
Hexachlorocyclopentadiene	ND	** 8000	ug/kg	** 850
Hexachloroethane	ND	** 1600	ug/kg	** 110
Indeno(1,2,3-cd)pyrene	ND	** 1600	ug/kg	** 90
Isophorone	ND	** 1600	ug/kg	** 340
2-Methylnaphthalene	**11000**	**** 1600**	**ug/kg**	**** 85**
2-Methylphenol	ND	** 1600	ug/kg	** 100
3-Methylphenol & 4-Methylphenol	ND	** 1600	ug/kg	** 220
Naphthalene	**8700**	**** 1600**	**ug/kg**	**** 85**
2-Nitroaniline	ND	** 8000	ug/kg	** 160
3-Nitroaniline	ND	** 8000	ug/kg	** 95
4-Nitroaniline	ND	** 8000	ug/kg	** 340
Nitrobenzene	ND	** 1600	ug/kg	** 340
2-Nitrophenol	ND	** 1600	ug/kg	** 340
4-Nitrophenol	ND	** 8000	ug/kg	** 850
N-Nitrosodimethylamine	ND	** 1600	ug/kg	** 85
N-Nitrosodiphenylamine	ND	** 1600	ug/kg	** 120
N-Nitrosodi-n-propylamine	ND	** 1600	ug/kg	** 340
Pentachlorophenol	ND	** 8000	ug/kg	** 850
Phenanthrene	**1100 J**	**** 1600**	**ug/kg**	**** 95**
Phenol	**450 J**	**** 1600**	**ug/kg**	**** 85**
2,2'-oxybis(1-Chloropropane)	ND	** 1600	ug/kg	** 85
Pyrene	**220 J**	**** 1600**	**ug/kg**	**** 140**
Pyridine	ND	** 3300	ug/kg	** 85
1,2,4-Trichlorobenzene	**3000**	**** 1600**	**ug/kg**	**** 85**

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STL Knoxville - ACS

Client Sample ID: G-3071-R3-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-010 **Work Order #...:** H2H4F1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	1600	ug/kg	340
2,4,6-Trichloro-phenol	ND	1600	ug/kg	340

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	32 *	(44 - 93)
Phenol-d5	46 *	(47 - 98)
Nitrobenzene-d5	47	(45 - 100)
2-Fluorobiphenyl	46 *	(49 - 100)
2,4,6-Tribromophenol	4.7 *	(42 - 124)
Terphenyl-d14	6.1 *	(54 - 121)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3071-R3-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #: H6D030246-010 **Work Order #:** H2H4F1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Toluene	108-88-3	13000 NJ	M	2.2317	ug/kg
Tetrachloroethylene	127-18-4	12000 NJ	M	2.5372	ug/kg
Ethylbenzene	100-41-4	4400 NJ	M	2.9367	ug/kg
p-Xylene	106-42-3	14000 NJ	M	2.9955	ug/kg
Styrene	100-42-5	9700 NJ	M	3.1718	ug/kg
Ethylbenzene	100-41-4	6100 NJ	M	3.1953	ug/kg
Benzene, (1-methylethyl)-	98-82-8	5400 NJ	M	3.4479	ug/kg
Benzene, 1-ethyl-2-methyl-	611-14-3	3900 NJ	M	3.7476	ug/kg
Decane	124-18-5	7100 NJ	M	4.0237	ug/kg
Unknown		3000 NJ	M	4.2646	ug/kg
Unknown		21000 NJ	M	4.3058	ug/kg
Benzene, 1-methyl-3-propyl-	1074-43-7	2600 NJ	M	4.482	ug/kg
Benzene, 1-ethyl-2,4-dimethyl-	874-41-9	2500 NJ	M	4.5466	ug/kg
Benzene, 2-ethyl-1,3-dimethyl-	2870-04-4	2800 NJ	M	4.7405	ug/kg
Undecane	1120-21-4	3000 NJ	M	4.8816	ug/kg
Benzene, 1,2,4,5-tetramethyl-	95-93-2	1500 NJ	M	5.099	ug/kg
Benzene, 1,2,4,5-tetramethyl-	95-93-2	2800 NJ	M	5.1401	ug/kg
Unknown		1400 NJ	M	5.4456	ug/kg
Dodecane	112-40-3	1400 NJ	M	5.8099	ug/kg
Tridecane	629-50-5	1700 NJ	M	6.703	ug/kg
Naphthalene, 1-methyl-	90-12-0	2700 NJ	M	6.9439	ug/kg
Biphenyl	92-52-4	1600 NJ	M	7.602	ug/kg
Tetradecane	629-59-4	3300 NJ	M	7.6842	ug/kg
Naphthalene, 2,3-dimethyl-	581-40-8	1500 NJ	M	7.9662	ug/kg
Bacchotricuneatin c	66563-30-2	1600 NJ	M	8.1778	ug/kg
1H-Isoindole-1,3(2H)-dione, 3a	1469-48-3	1300 NJ	M	8.3658	ug/kg
Benzene, 1-methyl-4-(phenylmet	620-83-7	1400 NJ	M	8.6772	ug/kg
Benzene, 1-methyl-2-[(3-methyl	21895-13-6	1700 NJ	M	9.2471	ug/kg
Unknown		7000 NJ	M	11.656	ug/kg
1,4-dioxane	123-91-1	650 NJ	Q	1.85	ug/kg
acetophenone	98-86-2	ND	Q		ug/kg
benzaldehyde	100-52-7	ND	M		ug/kg
benzonitrile	100-47-0	ND	M		ug/kg
pentachlorobenzene	608-93-5	ND	Q		ug/kg
pentachloronitrobenzene	82-68-8	ND	Q		ug/kg
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/kg

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3075-R3-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-011 **Work Order #...:** H2H4G1AA **Matrix.....:** WATER
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

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STL Knoxville - ACS

Client Sample ID: G-3075-R3-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-011 **Work Order #...:** H2H4G1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

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STL Knoxville - ACS

Client Sample ID: G-3075-R3-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-011 **Work Order #...:** H2H4G1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	38	(36 - 98)
Phenol-d5	44 *	(49 - 109)
Nitrobenzene-d5	53 *	(57 - 120)
2-Fluorobiphenyl	64	(56 - 118)
2,4,6-Tribromophenol	55	(55 - 134)
Terphenyl-d14	46	(33 - 142)

NOTE(S):

* Surrogate recovery is outside stated control limits.

STL Knoxville - ACS

G-3075-R3-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #: H6D030246-011 **Work Order #:** H2H4G1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Chloroiodomethane	593-71-5	5.7 NJ	M	1.9496	ug/L
Unknown		110 NJ	M	3.9003	ug/L
Unknown		97 NJ	M	4.1118	ug/L
Unknown		44 NJ	M	5.6042	ug/L
Unknown		4.5 NJ	M	10.845	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3079-R3-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-012 **Work Order #...:** H2H4H1AA **Matrix.....:** WATER
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3079-R3-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-012 **Work Order #...:** H2H4H1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

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STL Knoxville - ACS

Client Sample ID: G-3079-R3-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-012 **Work Order #...:** H2H4H1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	42	(36 - 98)
Phenol-d5	51	(49 - 109)
Nitrobenzene-d5	62	(57 - 120)
2-Fluorobiphenyl	74	(56 - 118)
2,4,6-Tribromophenol	57	(55 - 134)
Terphenyl-d14	88	(33 - 142)

STL Knoxville - ACS

G-3079-R3-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #: H6D030246-012 **Work Order #:** H2H4H1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		140 NJ	M	3.9002	ug/L
Unknown		56 NJ	M	4.1118	ug/L
Unknown		22 NJ	M	5.6042	ug/L
N,N-Diethyl-p-nitroaniline	2216-15-1	4.8 NJ	M	10.269	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3087-R3-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-013 **Work Order #...:** H2H4J1AA **Matrix.....:** WATER
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

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STL Knoxville - ACS

Client Sample ID: G-3087-R3-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-013 **Work Order #...:** H2H4J1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

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STL Knoxville - ACS

Client Sample ID: G-3087-R3-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-013 **Work Order #...:** H2H4J1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	0.87 *	(36 - 98)
Phenol-d5	0.0	(49 - 109)
Nitrobenzene-d5	54 *	(57 - 120)
2-Fluorobiphenyl	66	(56 - 118)
2,4,6-Tribromophenol	43 *	(55 - 134)
Terphenyl-d14	86	(33 - 142)

NOTE(S):

* Surrogate recovery is outside stated control limits.

STL Knoxville - ACS

G-3087-R3-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #: H6D030246-013 **Work Order #:** H2H4J1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		4.2 NJ	M	2.2786	ug/L
Unknown		76 NJ	M	2.4725	ug/L
Unknown		30 NJ	M	3.0777	ug/L
Methane, tribromo-	75-25-2	6.1 NJ	M	3.1306	ug/L
Unknown		18 NJ	M	5.2986	ug/L
Unknown		4.5 NJ	M	6.3445	ug/L
Unknown		20 NJ	M	6.415	ug/L
Unknown		8.8 NJ	M	7.2493	ug/L
Unknown		5.7 NJ	M	7.5725	ug/L
(3,5-Dichlorophenyl)diethylami	100030-66-3	36 NJ	M	8.1601	ug/L
Unknown		28 NJ	M	8.6771	ug/L
Unknown		18 NJ	M	8.7829	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.