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October 26, 2000

Mr. Larry Mctiernan
ROUX ASSOCIATES-MA
25 Corporate Drive
Suite 230
Burlington, MA 01803

Dear Mr. Mctiernan :

Please find enclosed the analytical results of 9 sample(s) received at our laboratory on October 6, 2000. This report contains sections addressing the following information at a minimum:

- sample summary
- analytical methodology
- state certifications
- definition of data qualifiers and terminology
- analytical results
- chain-of-custody

STL Report #7000-2264A	Purchase Order #06626M32
Project ID: INDUSTRIALPLEX	

Copies of this analytical report and supporting data are maintained in our files for a minimum of five years unless special arrangements have been made. Unless specifically indicated, all analytical testing was performed at this laboratory location and no portion of the testing was subcontracted.

We appreciate your selection of our services and welcome any questions or suggestions you may have relative to this report. Please contact your customer service representative at (203) 929-8140 for any additional information. Thank you for utilizing our services; we hope you will consider us for your future analytical needs.

I have reviewed and approved the enclosed data for final release.

Very truly yours,

Jeffrey C. Curran
Laboratory Manager

JCC

7000-2264A
ROUX ASSOCIATES

Case Narrative

Sample Receipt – All samples were received in good condition and at proper temperature.

Semi-Volatile Organics - Semi-volatile organic samples were extracted and analyzed by capillary GC/MS using guidance provided in Methods 3510C/8270C. The instrumentation used was a Hewlett-Packard Gas Chromatograph interfaced with a Mass Selective Detector.

Sample SW-04 had one surrogate out of recovery criteria, but within laboratory sample acceptance criteria.

The spike recoveries for the compounds, 1,2,4-trichlorobenzene and pentachlorophenol, were outside recovery limits for the SW-09MS and 1,2,4-trichlorobenzene was outside recovery limits in SW-09MSD

The spike recoveries for 2,4-dinitrophenol and pentachlorophenol were outside recovery limits for SBLKIQFMS.

Classical Chemistry - Listed below are the wet chemistry analyte methods and references for the samples analyzed in this SDG. Due to an internal tracking error, sample "SW-09" was not used as the duplicate sample. No other analytical problems were encountered.

Analyte	Method	Reference
TSS	160.2	1

References:

1. Methods of Chemical Analysis of Water and Wastes, EPA 600, 1983.

Metals – ICAP metals were determined using a JA61E trace ICAP; mercury was determined by cold vapor technique using a Leeman Labs mercury analyzer; following guidance provided in SW846 according to methods: ICAP – 3010A/6010B; mercury-7470A.

Nickel recovered high for CCV3 analysis but since there was no nickel present in the samples no corrective action was taken.

Lead and selenium failed the controls for spike recovery analysis of sample SW-09 resulting in two "N" flags.

No other problems occurred during analysis. All appropriate protocols were employed. All data appears to be consistent.

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-01

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix: (soil/water) WATER Lab Sample ID: 002264A-01

Sample wt/vol: 830 (g/mL) ML Lab File ID: >Q9634

Level: (low/med) LOW Date Received: 10/06/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/09/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/11/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	12	U
106-44-5	4-Methylphenol	12	U
91-20-3	Naphthalene	12	U
91-57-6	2-Methylnaphthalene	12	U
208-96-8	Acenaphthylene	12	U
83-32-9	Acenaphthene	12	U
86-73-7	Fluorene	12	U
84-66-2	Diethylphthalate	12	U
85-01-8	Phenanthrene	12	U
120-12-7	Anthracene	12	U
206-44-0	Fluoranthene	12	U
129-00-0	Pyrene	12	U
56-55-3	Benzo(a)anthracene	12	U
218-01-9	Chrysene	12	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	JB
205-99-2	Benzo(b)fluoranthene	12	U
207-08-9	Benzo(k)fluoranthene	12	U
50-32-8	Benzo(a)pyrene	12	U
193-39-5	Indeno(1,2,3-cd)pyrene	12	U
53-70-3	Dibenzo(a,h)anthracene	12	U
191-24-2	Benzo(g,h,i)perylene	12	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-10

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix: (soil/water) WATER Lab Sample ID: 002264A-02

Sample wt/vol: 800 (g/mL) ML Lab File ID: >Q9635

Level: (low/med) LOW Date Received: 10/06/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/09/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/11/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	12	U
106-44-5	4-Methylphenol	12	U
91-20-3	Naphthalene	12	U
91-57-6	2-Methylnaphthalene	12	U
208-96-8	Acenaphthylene	12	U
83-32-9	Acenaphthene	12	U
86-73-7	Fluorene	12	U
84-66-2	Diethylphthalate	12	U
85-01-8	Phenanthrene	12	U
120-12-7	Anthracene	12	U
206-44-0	Fluoranthene	12	U
129-00-0	Pyrene	12	U
56-55-3	Benzo(a)anthracene	12	U
218-01-9	Chrysene	12	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	JB
205-99-2	Benzo(b)fluoranthene	12	U
207-08-9	Benzo(k)fluoranthene	12	U
50-32-8	Benzo(a)pyrene	12	U
193-39-5	Indeno(1,2,3-cd)pyrene	12	U
53-70-3	Dibenzo(a,h)anthracene	12	U
191-24-2	Benzo(g,h,i)perylene	12	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-04

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix: (soil/water) WATER Lab Sample ID: 002264A-03

Sample wt/vol: 850 (g/mL) ML Lab File ID: >Q9636

Level: (low/med) LOW Date Received: 10/06/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/09/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/11/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	12	U
108-95-2	Phenol	12	U
111-44-4	bis(2-Chloroethyl)ether	12	U
95-57-8	2-Chlorophenol	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
100-51-6	Benzyl alcohol	12	U
95-50-1	1,2-Dichlorobenzene	12	U
95-48-7	2-Methylphenol	12	U
108-60-1	bis(2-Chloroisopropyl)ether	12	U
106-44-5	4-Methylphenol	12	U
621-64-7	N-Nitroso-di-n-propylamine	12	U
67-72-1	Hexachloroethane	12	U
98-95-3	Nitrobenzene	12	U
78-59-1	Isophorone	12	U
88-75-5	2-Nitrophenol	12	U
105-67-9	2,4-Dimethylphenol	12	U
65-85-0	Benzoic acid	69	
111-91-1	bis(2-Chloroethoxy)methane	12	U
120-83-2	2,4-Dichlorophenol	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U
91-20-3	Naphthalene	12	U
106-47-8	4-Chloroaniline	12	U
87-68-3	Hexachlorobutadiene	12	U
59-50-7	4-Chloro-3-methylphenol	12	U
91-57-6	2-Methylnaphthalene	12	U
77-47-4	Hexachlorocyclopentadiene	12	U
88-06-2	2,4,6-Trichlorophenol	12	U
95-95-4	2,4,5-Trichlorophenol	59	U
91-58-7	2-Chloronaphthalene	12	U
88-74-4	2-Nitroaniline	59	U
131-11-3	Dimethylphthalate	12	U
208-96-8	Acenaphthylene	12	U

CCC5A

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-04

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix: (soil/water) WATER Lab Sample ID: 002264A-03

Sample wt/vol: 850 (g/mL) ML Lab File ID: >Q9636

Level: (low/med) LOW Date Received: 10/06/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/09/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/11/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
606-20-2	2,6-Dinitrotoluene	12	U
99-09-2	3-Nitroaniline	59	U
83-32-9	Acenaphthene	12	U
51-28-5	2,4-Dinitrophenol	59	U
100-02-7	4-Nitrophenol	59	U
132-64-9	Dibenzofuran	12	U
121-14-2	2,4-Dinitrotoluene	12	U
84-66-2	Diethylphthalate	12	U
7005-72-3	4-Chlorophenyl-phenylether	12	U
86-73-7	Fluorene	12	U
100-01-6	4-Nitroaniline	59	U
534-52-1	4,6-Dinitro-2-methylphenol	59	U
86-30-6	N-Nitrosodiphenylamine (1)	12	U
101-55-3	4-Bromophenyl-phenylether	12	U
118-74-1	Hexachlorobenzene	12	U
87-86-5	Pentachlorophenol	59	U
85-01-8	Phenanthrene	12	U
120-12-7	Anthracene	12	U
84-74-2	Di-n-butylphthalate	12	U
206-44-0	Fluoranthene	12	U
129-00-0	Pyrene	12	U
85-68-7	Butylbenzylphthalate	12	U
91-94-1	3,3'-Dichlorobenzidine	24	U
56-55-3	Benzo(a)anthracene	12	U
218-01-9	Chrysene	12	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	JB
117-84-0	Di-n-octylphthalate	12	U
205-99-2	Benzo(b)fluoranthene	12	U
207-08-9	Benzo(k)fluoranthene	12	U
50-32-8	Benzo(a)pyrene	12	U
193-39-5	Indeno(1,2,3-cd)pyrene	12	U
53-70-3	Dibenzo(a,h)anthracene	12	U
191-24-2	Benzo(g,h,i)perylene	12	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-09

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix: (soil/water) WATER Lab Sample ID: 002264A-04

Sample wt/vol: 720 (g/mL) ML Lab File ID: >Q9637

Level: (low/med) LOW Date Received: 10/06/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/09/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/11/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	14	U
108-95-2	Phenol	14	U
111-44-4	bis(2-Chloroethyl)ether	14	U
95-57-8	2-Chlorophenol	14	U
541-73-1	1,3-Dichlorobenzene	14	U
106-46-7	1,4-Dichlorobenzene	14	U
100-51-6	Benzyl alcohol	14	U
95-50-1	1,2-Dichlorobenzene	14	U
95-48-7	2-Methylphenol	14	U
108-60-1	bis(2-Chloroisopropyl)ether	14	U
106-44-5	4-Methylphenol	14	U
621-64-7	N-Nitroso-di-n-propylamine	14	U
67-72-1	Hexachloroethane	14	U
98-95-3	Nitrobenzene	14	U
78-59-1	Isophorone	14	U
88-75-5	2-Nitrophenol	14	U
105-67-9	2,4-Dimethylphenol	14	U
65-85-0	Benzoic acid	69	U
111-91-1	bis(2-Chloroethoxy)methane	14	U
120-83-2	2,4-Dichlorophenol	14	U
120-82-1	1,2,4-Trichlorobenzene	14	U
91-20-3	Naphthalene	14	U
106-47-8	4-Chloroaniline	14	U
87-68-3	Hexachlorobutadiene	14	U
59-50-7	4-Chloro-3-methylphenol	14	U
91-57-6	2-Methylnaphthalene	14	U
77-47-4	Hexachlorocyclopentadiene	14	U
88-06-2	2,4,6-Trichlorophenol	14	U
95-95-4	2,4,5-Trichlorophenol	69	U
91-58-7	2-Chloronaphthalene	14	U
88-74-4	2-Nitroaniline	69	U
131-11-3	Dimethylphthalate	14	U
208-96-8	Acenaphthylene	14	U

CCC6A

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SW-09

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix: (soil/water) WATER Lab Sample ID: 002264A-04

Sample wt/vol: 720 (g/mL) ML Lab File ID: >Q9637

Level: (low/med) LOW Date Received: 10/06/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/09/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/11/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
606-20-2	2,6-Dinitrotoluene	14	U
99-09-2	3-Nitroaniline	69	U
83-32-9	Acenaphthene	14	U
51-28-5	2,4-Dinitrophenol	69	U
100-02-7	4-Nitrophenol	69	U
132-64-9	Dibenzofuran	14	U
121-14-2	2,4-Dinitrotoluene	14	U
84-66-2	Diethylphthalate	14	U
7005-72-3	4-Chlorophenyl-phenylether	14	U
86-73-7	Fluorene	14	U
100-01-6	4-Nitroaniline	69	U
534-52-1	4,6-Dinitro-2-methylphenol	69	U
86-30-6	N-Nitrosodiphenylamine (1)	14	U
101-55-3	4-Bromophenyl-phenylether	14	U
118-74-1	Hexachlorobenzene	14	U
87-86-5	Pentachlorophenol	69	U
85-01-8	Phenanthrene	14	U
120-12-7	Anthracene	14	U
84-74-2	Di-n-butylphthalate	14	U
206-44-0	Fluoranthene	14	U
129-00-0	Pyrene	14	U
85-68-7	Butylbenzylphthalate	14	U
91-94-1	3,3'-Dichlorobenzidine	28	U
56-55-3	Benzo(a)anthracene	14	U
218-01-9	Chrysene	14	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	JB
117-84-0	Di-n-octylphthalate	14	U
205-99-2	Benzo(b)fluoranthene	14	U
207-08-9	Benzo(k)fluoranthene	14	U
50-32-8	Benzo(a)pyrene	14	U
193-39-5	Indeno(1,2,3-cd)pyrene	14	U
53-70-3	Dibenzo(a,h)anthracene	14	U
191-24-2	Benzo(g,h,i)perylene	14	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FIELD BLANK

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix: (soil/water) WATER Lab Sample ID: 002264A-05

Sample wt/vol: 860 (g/mL) ML Lab File ID: >Q9640

Level: (low/med) LOW Date Received: 10/06/00

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/09/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/11/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	12	U
108-95-2	Phenol	12	U
111-44-4	bis(2-Chloroethyl)ether	12	U
95-57-8	2-Chlorophenol	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
100-51-6	Benzyl alcohol	12	U
95-50-1	1,2-Dichlorobenzene	12	U
95-48-7	2-Methylphenol	12	U
108-60-1	bis(2-Chloroisopropyl)ether	12	U
106-44-5	4-Methylphenol	12	U
621-64-7	N-Nitroso-di-n-propylamine	12	U
67-72-1	Hexachloroethane	12	U
98-95-3	Nitrobenzene	12	U
78-59-1	Isophorone	12	U
88-75-5	2-Nitrophenol	12	U
105-67-9	2,4-Dimethylphenol	12	U
65-85-0	Benzoic acid	58	U
111-91-1	bis(2-Chloroethoxy)methane	12	U
120-83-2	2,4-Dichlorophenol	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U
91-20-3	Naphthalene	12	U
106-47-8	4-Chloroaniline	12	U
87-68-3	Hexachlorobutadiene	12	U
59-50-7	4-Chloro-3-methylphenol	12	U
91-57-6	2-Methylnaphthalene	12	U
77-47-4	Hexachlorocyclopentadiene	12	U
88-06-2	2,4,6-Trichlorophenol	12	U
95-95-4	2,4,5-Trichlorophenol	58	U
91-58-7	2-Chloronaphthalene	12	U
88-74-4	2-Nitroaniline	58	U
131-11-3	Dimethylphthalate	12	U
208-96-8	Acenaphthylene	12	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FIELD BLANK

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix: (soil/water) WATER Lab Sample ID: 002264A-05

Sample wt/vol: 860 (g/mL) ML Lab File ID: >Q9640

Level: (low/med) LOW Date Received: 10/06/00

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/09/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/11/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:_____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
606-20-2	2,6-Dinitrotoluene	12	U
99-09-2	3-Nitroaniline	58	U
83-32-9	Acenaphthene	12	U
51-28-5	2,4-Dinitrophenol	58	U
100-02-7	4-Nitrophenol	58	U
132-64-9	Dibenzofuran	12	U
121-14-2	2,4-Dinitrotoluene	12	U
84-66-2	Diethylphthalate	12	U
7005-72-3	4-Chlorophenyl-phenylether	12	U
86-73-7	Fluorene	12	U
100-01-6	4-Nitroaniline	58	U
534-52-1	4,6-Dinitro-2-methylphenol	58	U
86-30-6	N-Nitrosodiphenylamine (1)	12	U
101-55-3	4-Bromophenyl-phenylether	12	U
118-74-1	Hexachlorobenzene	12	U
87-86-5	Pentachlorophenol	58	U
85-01-8	Phenanthrene	12	U
120-12-7	Anthracene	12	U
84-74-2	Di-n-butylphthalate	12	U
206-44-0	Fluoranthene	12	U
129-00-0	Pyrene	12	U
85-68-7	Butylbenzylphthalate	12	U
91-94-1	3,3'-Dichlorobenzidine	23	U
56-55-3	Benzo(a)anthracene	12	U
218-01-9	Chrysene	12	U
117-81-7	bis(2-Ethylhexyl)phthalate	12	U
117-84-0	Di-n-octylphthalate	12	U
205-99-2	Benzo(b)fluoranthene	12	U
207-08-9	Benzo(k)fluoranthene	12	U
50-32-8	Benzo(a)pyrene	12	U
193-39-5	Indeno(1,2,3-cd)pyrene	12	U
53-70-3	Dibenzo(a,h)anthracene	12	U
191-24-2	Benzo(g,h,i)perylene	12	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKIQ

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix: (soil/water) WATER Lab Sample ID: SBLKIQ

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q9631

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/09/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/11/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKIQ

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix: (soil/water) WATER Lab Sample ID: SBLKIQ

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q9631

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/09/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/11/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKIQFMS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix: (soil/water) WATER Lab Sample ID: SBLKIQFMS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q9632

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/09/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/11/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	10	U
108-95-2	Phenol	16	
111-44-4	bis(2-Chloroethyl)ether	33	
95-57-8	2-Chlorophenol	39	
541-73-1	1,3-Dichlorobenzene	32	
106-46-7	1,4-Dichlorobenzene	33	
100-51-6	Benzyl alcohol	30	
95-50-1	1,2-Dichlorobenzene	38	
95-48-7	2-Methylphenol	34	
108-60-1	bis(2-Chloroisopropyl)ether	34	
106-44-5	4-Methylphenol	34	
621-64-7	N-Nitroso-di-n-propylamine	33	
67-72-1	Hexachloroethane	31	
98-95-3	Nitrobenzene	34	
78-59-1	Isophorone	34	
88-75-5	2-Nitrophenol	37	
105-67-9	2,4-Dimethylphenol	33	
65-85-0	Benzoic acid	27	J
111-91-1	bis(2-Chloroethoxy)methane	35	
120-83-2	2,4-Dichlorophenol	39	
120-82-1	1,2,4-Trichlorobenzene	34	
91-20-3	Naphthalene	35	
106-47-8	4-Chloroaniline	34	
87-68-3	Hexachlorobutadiene	34	
59-50-7	4-Chloro-3-methylphenol	38	
91-57-6	2-Methylnaphthalene	35	
77-47-4	Hexachlorocyclopentadiene	21	
88-06-2	2,4,6-Trichlorophenol	36	
95-95-4	2,4,5-Trichlorophenol	36	J
91-58-7	2-Chloronaphthalene	47	
88-74-4	2-Nitroaniline	37	J
131-11-3	Dimethylphthalate	37	
208-96-8	Acenaphthylene	32	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKIQFMS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix: (soil/water) WATER Lab Sample ID: SBLKIQFMS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q9632

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/09/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/11/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
606-20-2	2,6-Dinitrotoluene	37	
99-09-2	3-Nitroaniline	38	J
83-32-9	Acenaphthene	35	
51-28-5	2,4-Dinitrophenol	23	J
100-02-7	4-Nitrophenol	18	J
132-64-9	Dibenzofuran	38	
121-14-2	2,4-Dinitrotoluene	34	
84-66-2	Diethylphthalate	33	
7005-72-3	4-Chlorophenyl-phenylether	34	
86-73-7	Fluorene	35	
100-01-6	4-Nitroaniline	39	J
534-52-1	4,6-Dinitro-2-methylphenol	42	J
86-30-6	N-Nitrosodiphenylamine (1)	41	
101-55-3	4-Bromophenyl-phenylether	34	
118-74-1	Hexachlorobenzene	38	
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	41	
120-12-7	Anthracene	42	
84-74-2	Di-n-butylphthalate	40	
206-44-0	Fluoranthene	44	
129-00-0	Pyrene	38	
85-68-7	Butylbenzylphthalate	41	
91-94-1	3,3'-Dichlorobenzidine	39	
56-55-3	Benzo(a)anthracene	37	
218-01-9	Chrysene	38	
117-81-7	bis(2-Ethylhexyl)phthalate	37	B
117-84-0	Di-n-octylphthalate	36	
205-99-2	Benzo(b)fluoranthene	38	
207-08-9	Benzo(k)fluoranthene	32	
50-32-8	Benzo(a)pyrene	37	
193-39-5	Indeno(1,2,3-cd)pyrene	35	
53-70-3	Dibenzo(a,h)anthracene	35	
191-24-2	Benzo(g,h,i)perylene	36	

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-09MS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix: (soil/water) WATER Lab Sample ID: 002264A-04MS

Sample wt/vol: 870 (g/mL) ML Lab File ID: >Q9638

Level: (low/med) LOW Date Received: 10/06/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/09/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/11/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	11	U
108-95-2	Phenol	48	
111-44-4	bis(2-Chloroethyl)ether	11	U
95-57-8	2-Chlorophenol	100	E
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	46	
100-51-6	Benzyl alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-di-n-propylamine	58	
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic acid	57	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	61	
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	100	E
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	57	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	57	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	11	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-09MS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix: (soil/water) WATER Lab Sample ID: 002264A-04MS

Sample wt/vol: 870 (g/mL) ML Lab File ID: >Q9638

Level: (low/med) LOW Date Received: 10/06/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/09/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/11/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
606-20-2	2,6-Dinitrotoluene	11	U
99-09-2	3-Nitroaniline	57	U
83-32-9	Acenaphthene	47	
51-28-5	2,4-Dinitrophenol	57	U
100-02-7	4-Nitrophenol	56	J
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	50	
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	57	U
534-52-1	4,6-Dinitro-2-methylphenol	57	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	120	E
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	41	
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	23	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	JB
117-84-0	Di-n-octylphthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-09MSD

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix: (soil/water) WATER Lab Sample ID: 002264A-04MSD

Sample wt/vol: 900 (g/mL) ML Lab File ID: >Q9639

Level: (low/med) LOW Date Received: 10/06/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/09/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/11/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	11	U
108-95-2	Phenol	45	
111-44-4	bis(2-Chloroethyl)ether	11	U
95-57-8	2-Chlorophenol	95	E
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	43	
100-51-6	Benzyl alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-di-n-propylamine	54	
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic acid	56	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	57	
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	96	E
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	56	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	56	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	11	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-09MSD

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix: (soil/water) WATER Lab Sample ID: 002264A-04MSD

Sample wt/vol: 900 (g/mL) ML Lab File ID: >Q9639

Level: (low/med) LOW Date Received: 10/06/00

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/09/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/11/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
606-20-2	2,6-Dinitrotoluene	11	U
99-09-2	3-Nitroaniline	56	U
83-32-9	Acenaphthene	44	
51-28-5	2,4-Dinitrophenol	56	U
100-02-7	4-Nitrophenol	51	J
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	47	
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	56	U
534-52-1	4,6-Dinitro-2-methylphenol	56	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	110	E
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	38	
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	JB
117-84-0	Di-n-octylphthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

(1) - Cannot be separated from Diphenylamine

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2264A SAS No.: _____ SDG No.: A2264

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SBLKIQ	85	88	67	33	46	76			0
02	SBLKIQFMS	86	86	81	38	48	81			0
03	SW-01	106	65	69	36	45	74			0
04	SW-10	109	63	71	36	45	80			0
05	SW-04	126*	79	71	38	49	81			1
06	SW-09	87	79	65	42	51	82			0
07	SW-09MS	95	77	59	39	50	85			0
08	SW-09MSD	93	74	56	38	47	81			0
09	FIELD BLANK	86	82	66	34	44	76			0
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(35-114)
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)
S3 (TPH)	= Terphenyl-d14	(33-141)
S4 (PHL)	= Phenol-d5	(10-110)
S5 (2FP)	= 2-Fluorophenol	(21-110)
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)
S7 (2CP)	= 2-Chlorophenol-d4	(-) (advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(-) (advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM II SV-1

3C
WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix Spike - EPA Sample No.: SW-09

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Phenol	110	0	48	44	12-110
2-Chlorophenol	110	0	100	91	27-123
1,4-Dichlorobenzene	57	0	46	81	36- 97
N-Nitroso-di-n-prop.(1)	57	0	58	102	41-116
1,2,4-Trichlorobenzene	57	0	61	107*	39- 98
4-Chloro-3-methylphenol	110	0	100	91	23- 97
Acenaphthene	57	0	47	82	46-118
4-Nitrophenol	110	0	56	51	10- 80
2,4-Dinitrotoluene	57	0	50	88	24- 96
Pentachlorophenol	110	0	120	109*	9-103
Pyrene	57	0	41	72	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	110	45	41	7	42	12-110
2-Chlorophenol	110	95	86	6	40	27-123
1,4-Dichlorobenzene	56	43	77	5	28	36- 97
N-Nitroso-di-n-prop.(1)	56	54	96	6	38	41-116
1,2,4-Trichlorobenzene	56	57	102*	5	28	39- 98
4-Chloro-3-methylphenol	110	96	87	4	42	23- 97
Acenaphthene	56	44	78	5	31	46-118
4-Nitrophenol	110	51	46	10	50	10- 80
2,4-Dinitrotoluene	56	47	84	5	38	24- 96
Pentachlorophenol	110	110	100	9	50	9-103
Pyrene	56	38	68	6	31	26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits.

RPD: 0 out of 11 outside limits
Spike Recovery: 3 out of 22 outside limits

COMMENTS: _____

3C

WATER SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix Spike - EPA Sample No.: SBLKIQ

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE CONCENTRATION (ug/L)	SPIKE % REC #	QC. LIMITS REC.
Phenol	40	0	16	40	24-57
bis(2-Chloroethyl)ether	40	0	33	82	49-133
2-Chlorophenol	40	0	39	98	60-112
1,3-Dichlorobenzene	40	0	32	80	18-143
1,4-Dichlorobenzene	40	0	33	82	21-138
Benzyl alcohol	40	0	30	75	39-117
1,2-Dichlorobenzene	40	0	38	95	21-143
2-Methylphenol	40	0	34	85	49-91
bis(2-Chloroisopropyl)ether	40	0	34	85	54-130
4-Methylphenol	40	0	34	85	48-95
N-Nitroso-di-n-propylamine	40	0	33	82	46-129
Hexachloroethane	40	0	31	78	8-144
Nitrobenzene	40	0	34	85	46-141
Isophorone	40	0	34	85	52-140
2-Nitrophenol	40	0	37	92	69-123
2,4-Dimethylphenol	40	0	33	82	62-121
Benzoic acid	120	0	27	22	0-25
bis(2-Chloroethoxy)methane	40	0	35	88	53-142
2,4-Dichlorophenol	40	0	39	98	66-122
1,2,4-Trichlorobenzene	40	0	34	85	30-142
Naphthalene	40	0	35	88	43-144
4-Chloroaniline	40	0	34	85	48-150
Hexachlorobutadiene	40	0	34	85	5-169
4-Chloro-3-methylphenol	40	0	38	95	63-119
2-Methylnaphthalene	40	0	35	88	37-137
Hexachlorocyclopentadiene	40	0	21	52	1-139
2,4,6-Trichlorophenol	40	0	36	90	70-121
2,4,5-Trichlorophenol	40	0	36	90	71-124
2-Chloronaphthalene	40	0	47	118	52-163
2-Nitroaniline	40	0	37	92	60-139

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 02 out of 65 outside limits

COMMENTS: JW 10-16-02

FORM III SV-1

3C
WATER SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix Spike - EPA Sample No.: SBLKIQ

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE CONCENTRATION (ug/L)	SPIKE % REC #	QC. LIMITS REC.
Dimethylphthalate	40	0	37	92	64-137
Acenaphthylene	40	0	32	80	52-132
2,6-Dinitrotoluene	40	0	37	92	60-142
3-Nitroaniline	40	0	38	95	65-162
Acenaphthene	40	0	35	88	56-144
2,4-Dinitrophenol	40	0	23	58 X	70-139
4-Nitrophenol	40	0	18	45	21-65
Dibenzofuran	40	0	38	95	57-136
2,4-Dinitrotoluene	40	0	34	85	57-131
Diethylphthalate	40	0	33	82	62-132
4-Chlorophenyl-phenylether	40	0	34	85	55-136
Fluorene	40	0	35	88	59-131
4-Nitroaniline	40	0	39	98	67-155
4,6-Dinitro-2-methylphenol	40	0	42	105	77-164
N-Nitrosodiphenylamine (1)	40	0	41	102	67-149
4-Bromophenyl-phenylether	40	0	34	85	57-150
Hexachlorobenzene	40	0	38	95	53-153
Pentachlorophenol	40	0	0	0 X	63-125
Phenanthrene	40	0	41	102	83-124
Anthracene	40	0	42	105	66-138
Di-n-butylphthalate	40	0	40	100	65-146
Fluoranthene	40	0	44	110	63-145
Pyrene	40	0	38	95	66-152
Butylbenzylphthalate	40	0	41	102	64-158
3,3'-Dichlorobenzidine	40	0	39	98	69-159
Benzo(a)anthracene	40	0	37	92	62-151
Chrysene	40	0	38	95	72-141
bis(2-Ethylhexyl)phthalate	40	1	37	90	63-148
Di-n-octylphthalate	40	0	36	90	65-154
Benzo(b)fluoranthene	40	0	38	95	42-172

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 02 out of 65 outside limits

COMMENTS: JW 10/16/02

FORM III SV-1

3C

WATER SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix Spike - EPA Sample No.: SBLKIQ

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE CONCENTRATION (ug/L)	SPIKE % REC #	QC. LIMITS REC.
Benzo(k)fluoranthene	40	0	32	80	55-150
Benzo(a)pyrene	40	0	37	92	68-147
Indeno(1,2,3-cd)pyrene	40	0	35	88	52-157
Dibenzo(a,h)anthracene	40	0	35	88	25-159
Benzo(g,h,i)perylene	40	0	36	90	56-166
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Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 02 out of 65 outside limits

COMMENTS: JW 10/16/02

FORM III SV-1

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKIQ

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2264A SAS No.: _____ SDG No.: A2264

Lab File ID: >Q9631 Lab Sample ID: SBLKIQ

Instrument ID: HP5971Q Date Extracted:10/09/00

Matrix: (soil/water) WATER Date Analyzed: 10/11/00

Level:(low/med) LOW Time Analyzed:1655

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLKIQFMS	SBLKIQFMS	>Q9632	10/11/00
02	SW-01	002264A-01	>Q9634	10/11/00
03	SW-10	002264A-02	>Q9635	10/11/00
04	SW-04	002264A-03	>Q9636	10/11/00
05	SW-09	002264A-04	>Q9637	10/11/00
06	SW-09MS	002264A-04MS	>Q9638	10/11/00
07	SW-09MSD	002264A-04MSD	>Q9639	10/11/00
08	FIELD BLANK	002264A-05	>Q9640	10/11/00
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COMMENTS: _____

FORM IV SV

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2264A SAS No.: _____ SDG No.: A2264

Lab File ID: Q9622 DFTPP Injection Date:10/11/00

Instrument ID: HP5971Q DFTPP Injection Time:1020

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	37.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	53.5
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	52.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	17.1
365	Greater than 1.0% of mass 198	1.52
441	Present, but less than mass 443	7.8
442	40.0 - 100.0% of mass 198	49.7
443	17.0 - 23.0% of mass 442	9.6 (19.3)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020L4	SSTD020L4	>Q9624	10/11/00	1133
02	SSTD050L5	SSTD050L5	>Q9625	10/11/00	1217
03	SSTD080L6	SSTD080L6	>Q9626	10/11/00	1301
04	SSTD120L7	SSTD120L7	>Q9627	10/11/00	1345
05	SSTD160L8	SSTD160L8	>Q9628	10/11/00	1429
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FORM V SV

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2264A SAS No.: _____ SDG No.: A2264

Lab File ID: Q9630 DFTPP Injection Date:10/11/00

Instrument ID: HP5971Q DFTPP Injection Time:1559

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	48.4
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	50.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	19.5
365	Greater than 1.0% of mass 198	2.05
441	Present, but less than mass 443	10.2
442	40.0 - 100.0% of mass 198	66.8
443	17.0 - 23.0% of mass 442	13.0 (19.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050L9	SSTD050L9	>Q9630	10/11/00	1559
02	SBLKIQ	SBLKIQ	>Q9631	10/11/00	1655
03	SBLKIQFMS	SBLKIQFMS	>Q9632	10/11/00	1739
04	SW-01	002264A-01	>Q9634	10/11/00	1907
05	SW-10	002264A-02	>Q9635	10/11/00	1950
06	SW-04	002264A-03	>Q9636	10/11/00	2034
07	SW-09	002264A-04	>Q9637	10/11/00	2119
08	SW-09MS	002264A-04MS	>Q9638	10/11/00	2203
09	SW-09MSD	002264A-04MSD	>Q9639	10/11/00	2247
10	FIELD BLANK	002264A-05	>Q9640	10/11/00	2331
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FORM V SV

6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2264A SAS No.: _____ SDG No.: A2264

Instrument ID: HP5971Q Calibration Date(s): 10/11/00 _____

Calibration Times: 1133 1429

LAB FILE ID: RRF20 = >Q9624 RRF50 = >Q9625
RRF80 = >Q9626 RRF120= >Q9627 RRF160= >Q9628

COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD	
Phenol	*	2.235	2.126	1.974	1.856	1.856	2.009	8.4	*
bis(2-Chloroethyl)ether	*	1.305	1.219	1.119	1.029	0.997	1.134	11.4	*
2-Chlorophenol	*	1.591	1.453	1.362	1.266	1.252	1.385	10.2	*
1,3-Dichlorobenzene	*	1.738	1.651	1.559	1.448	1.406	1.560	8.8	*
1,4-Dichlorobenzene	*	1.461	1.408	1.361	1.276	1.252	1.352	6.5	*
Benzyl alcohol	*	1.198	1.216	1.182	1.101	1.112	1.162	4.5	*
1,2-Dichlorobenzene	*	1.437	1.296	1.198	1.102	1.062	1.219	12.4	*
2-Methylphenol	*	1.512	1.435	1.453	1.342	1.357	1.420	5.0	*
2,2'-oxybis(1-Chloropropane)	*	2.299	2.105	1.964	1.777	1.720	1.973	12.0	*
4-Methylphenol	*	1.659	1.606	1.574	1.423	1.377	1.528	8.0	*
N-Nitroso-di-n-propylamine	*	1.131	1.044	0.988	0.916	0.905	0.997	9.4	*
Hexachloroethane	*	0.662	0.621	0.595	0.560	0.532	0.594	8.6	*
Nitrobenzene	*	0.386	0.360	0.332	0.311	0.300	0.338	10.4	*
Isophorone	*	0.865	0.816	0.774	0.731	0.715	0.780	7.9	*
2-Nitrophenol	*	0.236	0.239	0.230	0.222	0.217	0.229	4.0	*
2,4-Dimethylphenol	*	0.363	0.275	0.310	0.295	0.285	0.306	11.3	*
Benzoic acid	*	0.236	0.263	0.272	0.280	0.285	0.267	7.2	*
bis(2-Chloroethoxy)methane	*	0.492	0.448	0.422	0.402	0.391	0.431	9.4	*
2,4-Dichlorophenol	*	0.308	0.293	0.274	0.260	0.254	0.278	8.1	*
1,2,4-Trichlorobenzene	*	0.318	0.294	0.277	0.265	0.250	0.281	9.4	*
Naphthalene	*	0.969	0.926	0.856	0.803	0.772	0.865	9.5	*
4-Chloroaniline	*	0.498	0.462	0.456	0.434	0.416	0.453	6.8	*
Hexachlorobutadiene	*	0.161	0.154	0.146	0.140	0.136	0.147	6.9	*
4-Chloro-3-methylphenol	*	0.377	0.360	0.339	0.319	0.308	0.341	8.3	*
2-Methylnaphthalene	*	0.691	0.612	0.549	0.495	0.474	0.564	15.7	*
Hexachlorocyclopentadiene	*	0.380	0.396	0.381	0.375	0.359	0.378	3.5	*
2,4,6-Trichlorophenol	*	0.452	0.435	0.422	0.409	0.402	0.424	4.7	*
2,4,5-Trichlorophenol	*	0.461	0.439	0.420	0.404	0.388	0.422	6.8	*
2-Chloronaphthalene	*	1.115	1.017	0.944	0.890	0.854	0.964	10.8	*
2-Nitroaniline	*	0.442	0.454	0.437	0.434	0.428	0.439	2.2	*
Dimethylphthalate	*	1.639	1.565	1.485	1.433	1.384	1.501	6.8	*
Acenaphthylene	*	2.061	1.862	1.715	1.600	1.524	1.752	12.2	*
2,6-Dinitrotoluene	*	0.358	0.358	0.333	0.322	0.307	0.336	6.7	*
3-Nitroaniline	*	0.503	0.512	0.498	0.496	0.489	0.500	1.7	*
Acenaphthene	*	1.069	1.042	0.979	0.952	0.920	0.992	6.2	*
2,4-Dinitrophenol	*	0.152	0.199	0.225	0.239	0.242	0.211	17.7	*
4-Nitrophenol	*	0.189	0.203	0.199	0.201	0.189	0.196	3.4	*

* Compounds with required minimum RRF and maximum %RSD values.

6C
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2264A SAS No.: _____ SDG No.: A2264

Instrument ID: HP5971Q Calibration Date(s):10/11/00 _____

Calibration Times: 1133 1429

LAB FILE ID: RRF20 = >Q9624 RRF50 = >Q9625
RRF80 = >Q9626 RRF120= >Q9627 RRF160= >Q9628

COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD	
Dibenzofuran	*	1.720	1.632	1.505	1.444	1.394	1.539	8.8	*
2,4-Dinitrotoluene	*	0.441	0.453	0.438	0.440	0.433	0.441	1.7	*
Diethylphthalate	*	1.731	1.660	1.552	1.496	1.428	1.573	7.8	*
4-Chlorophenyl-phenyl Ether	*	0.690	0.654	0.598	0.569	0.547	0.612	9.7	*
Fluorene	*	1.322	1.179	1.078	1.022	0.976	1.115	12.4	*
4-Nitroaniline	*	0.477	0.498	0.490	0.488	0.459	0.482	3.1	*
4,6-Dinitro-2-methylphenol	*	0.139	0.145	0.143	0.138	0.133	0.140	3.4	*
N-Nitrosodiphenylamine	*	0.540	0.465	0.415	0.378	0.366	0.433	16.4	*
4-Bromophenyl-phenylether	*	0.218	0.199	0.187	0.173	0.169	0.189	10.6	*
Hexachlorobenzene	*	0.245	0.221	0.208	0.190	0.186	0.210	11.5	*
Pentachlorophenol	*	0.145	0.154	0.142	0.139	0.136	0.143	4.8	*
Phenanthrene	*	0.935	0.844	0.782	0.730	0.714	0.801	11.3	*
Anthracene	*	0.986	0.863	0.786	0.708	0.668	0.802	15.8	*
Carbazole	*	1.134	1.011	0.917	0.850	0.794	0.941	14.3	*
Di-n-butylphthalate	*	1.662	1.428	1.290	1.179	1.093	1.330	16.8	*
Fluoranthene	*	1.387	1.202	1.094	1.007	0.935	1.125	15.7	*
Pyrene	*	1.672	1.571	1.491	1.413	1.294	1.488	9.7	*
Butylbenzylphthalate	*	0.936	0.866	0.839	0.809	0.764	0.843	7.6	*
3,3'-Dichlorobenzidine	*	0.581	0.601	0.579	0.535	0.487	0.557	8.2	*
Benzo(a)anthracene	*	1.381	1.265	1.155	1.044	0.974	1.164	14.1	*
Chrysene	*	1.070	1.080	1.034	0.989	0.946	1.024	5.5	*
bis(2-Ethylhexyl)phthalate	*	1.028	0.912	0.824	0.750	0.683	0.839	16.2	*
Di-n-octylphthalate	*	2.206	2.040	1.953	1.883	1.772	1.971	8.3	*
Benzo(b)fluoranthene	*	1.342	1.365	1.277	1.244	1.234	1.292	4.5	*
Benzo(k)fluoranthene	*	1.167	0.971	0.929	0.862	0.798	0.945	14.8	*
Benzo(a)pyrene	*	1.243	1.189	1.136	1.077	1.026	1.134	7.6	*
Indeno(1,2,3-cd)pyrene	*	1.273	1.192	1.084	1.035	1.025	1.122	9.6	*
Dibenz(a,h)anthracene	*	1.059	0.983	0.886	0.842	0.825	0.919	10.8	*
Benzo(g,h,i)perylene	*	1.132	1.057	0.968	0.950	0.965	1.014	7.7	*
Cyclohexanone		0.960	0.942	0.836	0.716	0.637	0.818	17.2	
Nitrobenzene-D5	*	0.401	0.387	0.371	0.353	0.345	0.371	6.2	*
2-Fluorobiphenyl	*	1.309	1.199	1.113	1.050	1.009	1.136	10.6	*
Terphenyl-D14	*	1.205	1.155	1.129	1.070	0.996	1.111	7.2	*
Phenol-D5	*	2.413	2.444	2.369	2.240	2.268	2.347	3.8	*
2-Fluorophenol	*	1.799	1.875	1.892	1.840	1.850	1.851	1.9	*
2,4,6-Tribromophenol	*	0.221	0.227	0.226	0.225	0.226	0.225	1.0	*

(1) Cannot be separated from Diphenylamine
* Compounds with required minimum RRF and maximum %RSD values.

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2264A SAS No.: _____ SDG No.: A2264

Instrument ID: HP5971Q Calibration Date: 10/11/00 Time: 1559

Lab File ID: >Q9630 Init. Calib. Date(s): 10/11/00 _____

Init. Calib. Times: 1133 1429

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	2.009	2.092		4.1	20.0
bis(2-Chloroethyl)ether	1.134	1.179		4.0	
2-Chlorophenol	1.385	1.432		3.4	
1,3-Dichlorobenzene	1.560	1.649		5.7	
1,4-Dichlorobenzene	1.352	1.404		3.8	20.0
Benzyl alcohol	1.162	1.192		2.6	
1,2-Dichlorobenzene	1.219	1.279		4.9	
2-Methylphenol	1.420	1.442		1.6	
2,2'-oxybis(1-Chloropropane)	1.973	2.044		3.6	
4-Methylphenol	1.528	1.584		3.7	
N-Nitroso-di-n-propylamine	0.997	1.023	0.050	2.6	
Hexachloroethane	0.594	0.612		3.0	
Nitrobenzene	0.338	0.358		5.9	
Isophorone	0.780	0.822		5.4	
2-Nitrophenol	0.229	0.247		7.9	20.0
2,4-Dimethylphenol	0.306	0.274		-10.4	
Benzoic acid	0.267	0.306		14.6	
bis(2-Chloroethoxy)methane	0.431	0.448		3.9	
2,4-Dichlorophenol	0.278	0.298		7.2	20.0
1,2,4-Trichlorobenzene	0.281	0.296		5.3	
Naphthalene	0.865	0.918		6.1	
4-Chloroaniline	0.453	0.468		3.3	
Hexachlorobutadiene	0.147	0.156		6.1	20.0
4-Chloro-3-methylphenol	0.341	0.362		6.2	20.0
2-Methylnaphthalene	0.564	0.611		8.3	
Hexachlorocyclopentadiene	0.378	0.383	0.050	1.3	
2,4,6-Trichlorophenol	0.424	0.427		0.7	20.0
2,4,5-Trichlorophenol	0.422	0.452		7.1	
2-Chloronaphthalene	0.964	1.011		4.9	
2-Nitroaniline	0.439	0.455		3.6	
Dimethylphthalate	1.501	1.582		5.4	
Acenaphthylene	1.752	1.825		4.2	
2,6-Dinitrotoluene	0.336	0.361		7.4	
3-Nitroaniline	0.500	0.530		6.0	
Acenaphthene	0.992	1.034		4.2	20.0
2,4-Dinitrophenol	0.211	0.227	0.050	7.6	
4-Nitrophenol	0.196	0.206	0.050	5.1	

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2264A SAS No.: _____ SDG No.: A2264

Instrument ID: HP5971Q Calibration Date: 10/11/00 Time: 1559

Lab File ID: >Q9630 Init. Calib. Date(s): 10/11/00 _____

Init. Calib. Times: 1133 1429

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dibenzofuran	1.539	1.612		4.7	
2,4-Dinitrotoluene	0.441	0.465		5.4	
Diethylphthalate	1.573	1.664		5.8	
4-Chlorophenyl-Phenyl Ether	0.612	0.643		5.1	
Fluorene	1.115	1.181		5.9	
4-Nitroaniline	0.482	0.519		7.7	
4,6-Dinitro-2-methylphenol	0.140	0.153		9.3	
N-Nitrosodiphenylamine	0.433	0.464		7.2	20.0
4-Bromophenyl-phenylether	0.189	0.203		7.4	
Hexachlorobenzene	0.210	0.228		8.6	
Pentachlorophenol	0.143	0.162		13.3	20.0
Phenanthrene	0.801	0.852		6.4	
Anthracene	0.802	0.876		9.2	
Carbazole	0.941	1.040		10.5	
Di-n-butylphthalate	1.330	1.452		9.2	
Fluoranthene	1.125	1.238		10.0	20.0
Pyrene	1.488	1.528		2.7	
Butylbenzylphthalate	0.843	0.843		0.0	
3,3'-Dichlorobenzidine	0.557	0.615		10.4	
Benzo(a)anthracene	1.164	1.257		8.0	
Chrysene	1.024	1.063		3.8	
bis(2-Ethylhexyl)phthalate	0.839	0.883		5.2	
Di-n-octylphthalate	1.971	2.026		2.8	20.0
Benzo(b)fluoranthene	1.292	1.268		-1.9	
Benzo(k)fluoranthene	0.945	1.054		11.5	
Benzo(a)pyrene	1.134	1.193		5.2	20.0
Indeno(1,2,3-cd)pyrene	1.122	1.156		3.0	
Dibenz(a,h)anthracene	0.919	0.951		3.5	
Benzo(g,h,i)perylene	1.014	1.028		1.4	
Cyclohexanone	0.818	0.908		11.0	
Nitrobenzene-D5	0.371	0.392		5.7	
2-Fluorobiphenyl	1.136	1.178		3.7	
Terphenyl-D14	1.111	1.168		5.1	
Phenol-D5	2.347	2.419		3.1	
2-Fluorophenol	1.851	1.866		0.8	
2,4,6-Tribromophenol	0.225	0.235		4.4	

(1) Cannot be separated from Diphenylamine

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2264A SAS No.: _____ SDG No.: A2264

Lab File ID: (Standard): >Q9630 Date Analyzed:10/11/00

Instrument ID: HP5971Q Time Analyzed:1559

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	126877	9.85	521506	12.82	259537	16.73
	UPPER LIMIT	253754	10.35	1043012	13.32	519074	17.23
	LOWER LIMIT	63438	9.35	260753	12.32	129768	16.23
	EPA SAMPLE NO.						
01	SBLKIQ	141813	9.85	600459	12.82	305813	16.72
02	SBLKIQFMS	120219	9.86	483571	12.82	236358	16.72
03	SW-01	160549	9.85	524898	12.82	310794	16.72
04	SW-10	161671	9.85	519567	12.82	314221	16.71
05	SW-04	173301	9.84	513771	12.82	333443	16.72
06	SW-09	141595	9.85	612839	12.81	315348	16.71
07	SW-09MS	119261	9.85	454022	12.82	276466	16.71
08	SW-09MSD	121381	9.85	458692	12.82	278611	16.71
09	FIELD BLANK	121151	9.84	511073	12.81	262973	16.71
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-1

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2264A SAS No.: _____ SDG No.: A2264

Lab File ID: (Standard): >Q9630 Date Analyzed:10/11/00

Instrument ID: HP5971Q Time Analyzed:1559

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	521931	19.80	378889	25.24	407049	28.24
	UPPER LIMIT	1043862	20.30	757778	25.74	814098	28.74
	LOWER LIMIT	260966	19.30	189444	24.74	203524	27.74
	EPA SAMPLE NO.						
01	SBLKIQ	525110	19.78	447627	25.23	410667	28.22
02	SBLKIQFMS	422455	19.80	328643	25.24	324852	28.23
03	SW-01	546959	19.79	383460	25.23	284475	28.22
04	SW-10	557931	19.78	447706	25.22	305448	28.21
05	SW-04	574514	19.79	440106	25.23	317304	28.22
06	SW-09	546910	19.78	476067	25.22	348444	28.22
07	SW-09MS	426302	19.78	439501	25.23	338477	28.21
08	SW-09MSD	426388	19.78	447050	25.22	348791	28.21
09	FIELD BLANK	459181	19.78	413344	25.22	323000	28.22
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-2

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2264A SAS No.: _____ SDG No.: A2264

SOW No.: ILM04.0

Field Sample ID	Lab Sample ID.
SW-01	002264A-01
SW-10	002264A-02
SW-04	002264A-03
SW-09D	002264A-04D
SW-09S	002264A-04S
SW-09	002264A-04
FIELD BLANK	002264A-05
SW-01	F002264A-01
SW-10	F002264A-02
SW-04	F002264A-03
SW-09D	F002264A-04D
SW-09S	F002264A-04S
SW-09	F002264A-04
FIELD BLANK	F002264A-05
SW-01	T002264A-01
SW-10	T002264A-02
SW-04	T002264A-03
SW-09D	T002264A-04D
SW-09S	T002264A-04S
SW-09	T002264A-04

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: David W. Hoffick Name: David W. Hoffick

Date: 10/25/00 Title: Group Leader

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2264A SAS No.: _____ SDG No.: A2264

SOW No.: ILM04.0

Field Sample ID	Lab Sample ID.
FIELD BLANK	T002264A-05

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: [illegible] Name: Daniel W. Holland

Date: 10/27/00 Title: Group Leader

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-01

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix (soil/water): WATER Lab Sample ID: F002264A-01

Level (low/med): LOW Date Received: 10/06/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-10

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix (soil/water): WATER Lab Sample ID: F002264A-02

Level (low/med): LOW Date Received: 10/06/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-04

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix (soil/water): WATER Lab Sample ID: F002264A-03

Level (low/med): LOW Date Received: 10/06/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-09

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix (soil/water): WATER Lab Sample ID: F002264A-04

Level (low/med): LOW Date Received: 10/06/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	12.3			P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

FIELD BLANK

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix (soil/water): WATER Lab Sample ID: F002264A-05

Level (low/med): LOW Date Received: 10/06/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-01

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix (soil/water): WATER Lab Sample ID: T002264A-01

Level (low/med): LOW Date Received: 10/06/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	1.7	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.0	U	N	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-10

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix (soil/water): WATER Lab Sample ID: T002264A-02

Level (low/med): LOW Date Received: 10/06/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	1.4	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.0	U	N	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-04

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix (soil/water): WATER Lab Sample ID: T002264A-03

Level (low/med): LOW Date Received: 10/06/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	37.3	B		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	13.1			P
7440-39-3	Barium	27.1	B		P
7440-41-7	Beryllium	0.50	U		P
7440-43-9	Cadmium	1.2	B		P
7440-70-2	Calcium	41800			P
7440-47-3	Chromium	1.3	B		P
7440-48-4	Cobalt	1.2	B		P
7440-50-8	Copper	23.1	B		P
7439-89-6	Iron	996.			P
7439-92-1	Lead	2.0	U	N	P
7439-95-4	Magnesium	6280			P
7439-96-5	Manganese	310.			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	2.4	B		P
7440-09-7	Potassium	8150			P
7782-49-2	Selenium	5.0	U	N	P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	42700			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	231.			P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-09

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix (soil/water): WATER Lab Sample ID: T002264A-04

Level (low/med): LOW Date Received: 10/06/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	50.7	B		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	12.6			P
7440-39-3	Barium	26.0	B		P
7440-41-7	Beryllium	0.50	U		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	42600			P
7440-47-3	Chromium	2.2	B		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	7.9	B		P
7439-89-6	Iron	1540			P
7439-92-1	Lead	3.3		N	P
7439-95-4	Magnesium	6580			P
7439-96-5	Manganese	383.			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.5	U		P
7440-09-7	Potassium	8010			P
7782-49-2	Selenium	5.0	U	N	P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	44300			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	160.			P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

FIELD BLANK

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix (soil/water): WATER Lab Sample ID: T002264A-05

Level (low/med): LOW Date Received: 10/06/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13.8	B		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium	0.90	B		P
7440-41-7	Beryllium	0.50	U		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	265.	B		P
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	3.7	B		P
7439-89-6	Iron	32.6	B		P
7439-92-1	Lead	2.0	U	N	P
7439-95-4	Magnesium	42.1	B		P
7439-96-5	Manganese	3.7	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.5	U		P
7440-09-7	Potassium	313.	B		P
7782-49-2	Selenium	5.0	U	N	P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	258.	B		P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	9.9	B		P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2264

Initial Calibration Source: INORG. VENT.

Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum	11000.0	10923.77	99.3	5500.0	5573.28	101.3	5548.10	100.9	P
Antimony	1000.0	1007.38	100.7	500.0	506.55	101.3	493.14	98.6	P
Arsenic	1000.0	1016.27	101.6	500.0	507.73	101.5	514.09	102.8	P
Barium	1000.0	995.15	99.5	500.0	496.92	99.4	498.62	99.7	P
Beryllium	1000.0	1032.77	103.3	500.0	520.29	104.0	524.25	104.8	P
Cadmium	1000.0	1010.92	101.1	500.0	510.18	102.0	513.33	102.7	P
Calcium	27000.0	27470.53	101.7	19800.0	20475.00	103.4	20551.97	103.8	P
Chromium	1000.0	1003.08	100.3	500.0	507.20	101.4	510.01	102.0	P
Cobalt	1000.0	996.10	99.6	500.0	501.54	100.3	506.24	101.2	P
Copper	1000.0	991.47	99.1	500.0	493.17	98.6	497.62	99.5	P
Iron	11000.0	10992.21	99.9	5500.0	5585.21	101.5	5601.31	101.8	P
Lead	1000.0	1009.96	101.0	500.0	511.05	102.2	514.30	102.9	P
Magnesium	27000.0	27184.39	100.7	19800.0	20187.14	102.0	20370.26	102.9	P
Manganese	1000.0	997.87	99.8	500.0	503.76	100.8	508.27	101.6	P
Mercury	5.0	5.26	105.2	5.0	5.37	107.4	5.61	112.2	CV
Nickel	1000.0	971.17	97.1	500.0	490.80	98.2	495.15	99.0	P
Potassium	20000.0	20595.08	103.0	10000.0	10085.18	100.8	9675.56	96.8	P
Selenium	1000.0	1042.38	104.2	500.0	522.87	104.6	529.14	105.8	P
Silver	100.0	100.79	100.8	50.0	50.51	101.0	50.77	101.6	P
Sodium	27000.0	26553.85	98.3	19800.0	20601.17	104.0	20510.35	103.6	P
Thallium	1000.0	1037.21	103.7	500.0	519.71	103.9	523.30	104.7	P
Vanadium	1000.0	1028.52	102.8	500.0	515.59	103.1	517.62	103.5	P
Zinc	1000.0	1022.67	102.3	500.0	519.18	103.8	521.53	104.3	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110 ; Cyanide 85-115;

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2264

Initial Calibration Source: INORG. VENT.

Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum				5500.0	5572.52	101.3	5578.01	101.4	P
Antimony				500.0	498.46	99.7	501.70	100.3	P
Arsenic				500.0	514.70	102.9	517.11	103.4	P
Barium				500.0	499.40	99.9	498.84	99.8	P
Beryllium				500.0	526.16	105.2	525.87	105.2	P
Cadmium				500.0	516.14	103.2	515.36	103.1	P
Calcium				19800.0	20626.16	104.2	20623.62	104.2	P
Chromium				500.0	524.38	104.9	510.89	102.2	P
Cobalt				500.0	509.09	101.8	507.52	101.5	P
Copper				500.0	499.19	99.8	498.47	99.7	P
Iron				5500.0	5703.02	103.7	5625.90	102.3	P
Lead				500.0	514.75	103.0	516.25	103.2	P
Magnesium				19800.0	20460.40	103.3	20394.38	103.0	P
Manganese				500.0	515.49	103.1	509.62	101.9	P
Mercury				5.0	5.07	101.4			CV
Nickel				500.0	1012.91	202.6	497.19	99.4	P
Potassium				10000.0	9737.92	97.4	9780.36	97.8	P
Selenium				500.0	532.24	106.4	529.87	106.0	P
Silver				50.0	50.97	102.0	50.96	101.9	P
Sodium				19800.0	20610.87	104.1	20563.56	103.8	P
Thallium				500.0	528.72	105.7	528.21	105.6	P
Vanadium				500.0	519.31	103.9	518.31	103.7	P
Zinc				500.0	524.59	104.9	523.94	104.8	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110 ; Cyanide 85-115;

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2264

AA CRDL Standard Source: INORG. VENT.

ICP CRDL Standard Source: INORG. VENT.

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R(1)	True	Initial Found	%R(1)	Final Found	%R(1)
Aluminum								
Antimony				120.0	122.78	102.3	122.73	102.3
Arsenic				20.0 ~~5.0~~	21.21	106.1	20.07	100.4
Barium								
Beryllium				10.0	10.14	101.5	10.30	103.1
Cadmium				10.0	10.12	101.2	10.25	102.6
Calcium								
Chromium				20.0	20.68	103.4	20.46	102.3
Cobalt				100.0	101.07	101.1	103.05	103.0
Copper				50.0	49.53	99.1	51.08	102.2
Iron								
Lead				6.0 ~~4.0~~	6.09	101.6	5.95	99.3
Magnesium								
Manganese				30.0	30.46	101.6	31.77	105.9
Mercury								
Nickel				80.0	80.12	100.2	81.68	102.1
Potassium								
Selenium				10.0	8.46	84.7	10.38	103.8
Silver				20.0	21.55	107.8	21.31	106.6
Sodium								
Thallium				20.0	22.00	110.0	15.43	77.2
Vanadium				100.0	101.99	102.0	103.12	103.1
Zinc				40.0	40.50	101.3	41.12	102.8
Cyanide								

U.S. EPA - CLP

3
BLANKS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2264

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	10.0	U	20.7	B	10.8	B	15.1	B	16.229	B	P
Antimony	5.0	U	5.0	U	5.0	U	5.0	U	5.000	U	P
Arsenic	2.5	U	2.5	U	2.5	U	2.5	U	2.500	U	P
Barium	0.5	U	0.5	U	0.5	U	0.5	U	0.500	U	P
Beryllium	0.5	U	0.5	U	0.5	U	0.5	U	0.500	U	P
Cadmium	0.5	U	0.5	U	0.5	U	0.5	U	0.500	U	P
Calcium	10.0	U	10.0	U	10.0	U	10.0	U	10.000	U	P
Chromium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Cobalt	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Copper	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Iron	-14.1	B	10.0	U	10.0	U	10.0	U	10.000	U	P
Lead	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Magnesium	10.0	U	12.9	B	10.0	U	10.0	U	10.000	U	P
Manganese	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Mercury	0.1	U	0.1	U	0.1	U			0.100	U	CV
Nickel	1.5	U	1.5	U	1.5	U	1.5	U	1.500	U	P
Potassium	362.0	B	296.8	B	302.8	B	487.2	B	279.817	B	P
Selenium	5.0	U	5.0	U	5.0	U	5.0	U	5.000	U	P
Silver	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Sodium	20.0	U	20.0	U	20.0	U	34.0	B	20.000	U	P
Thallium	6.0	U	-7.6	B	6.0	U	6.0	U	6.000	U	P
Vanadium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Zinc	5.0	U	5.0	U	5.0	U	5.0	U	13.420	B	P
Cyanide											NR

U.S. EPA - CLP

3
BLANKS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2264

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			19.8	B							P
Antimony			5.0	U							P
Arsenic			2.5	U							P
Barium			0.5	U							P
Beryllium			0.5	U							P
Cadmium			0.5	U							P
Calcium			10.0	U							P
Chromium			1.0	U							P
Cobalt			1.0	U							P
Copper			1.0	U							P
Iron			10.0	U							P
Lead			2.0	U							P
Magnesium			11.7	B							P
Manganese			1.0	U							P
Mercury											NR
Nickel			1.5	U							P
Potassium			224.5	B							P
Selenium			5.0	U							P
Silver			1.0	U							P
Sodium			20.0	U							P
Thallium			6.0	U							P
Vanadium			1.0	U							P
Zinc			5.0	U							P
Cyanide											NR

U.S. EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2264

ID Number: JA61 ICS Source: EPA-LV87

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	Final Found Sol. AB	%R
Aluminum	500000	500000	536571	537898.3	107.5	531572	524353.3	104.8
Antimony		600	4	658.2	109.7	5	650.8	108.4
Arsenic		100	-2	105.1	105.1	-4	103.6	103.6
Barium		500	2	543.8	108.7	2	530.1	106.0
Beryllium		500	0	541.3	108.2	0	530.5	106.1
Cadmium		1000	1	1005.2	100.5	1	985.9	98.5
Calcium	500000	500000	512560	513905.9	102.7	506215	502119.4	100.4
Chromium		500	2	514.5	102.9	2	502.4	100.4
Cobalt		500	-4	503.2	100.6	-5	494.2	98.8
Copper		500	-4	543.5	108.7	-4	532.9	106.5
Iron	200000	200000	199593	200493.9	100.2	198042	196127.2	98.0
Lead		50	-8	45.9	91.8	-9	42.9	85.9
Magnesium	500000	500000	555426	554657.2	110.9	551218	543802.9	108.7
Manganese		500	-4	510.3	102.0	-4	500.5	100.1
Mercury								
Nickel		1000	0	976.7	97.6	4	960.1	96.0
Potassium			588	617.2		459	463.4	
Selenium		50	-7	50.5	101.1	-7	49.5	99.0
Silver		200	1	224.6	112.3	0	219.2	109.6
Sodium			31	37.0		109	51.2	
Thallium		100	1	107.8	107.8	-12	102.5	102.5
Vanadium		500	-2	528.9	105.7	-1	516.4	103.2
Zinc		1000	1	1028.8	102.8	4	1006.0	100.6
Cyanide								

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SW-09S

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix: WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic	75-125	44.6787		12.2734		40.00	81.0		P
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:
Filtered Metals

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SW-09S

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix: WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	1944.0550		50.7051	B	2000.00	94.7		P
Antimony	75-125	483.3455		5.0000	U	500.00	96.7		P
Arsenic	75-125	43.9147		12.6402		40.00	78.2		P
Barium	75-125	1895.5620		26.0002	B	2000.00	93.5		P
Beryllium	75-125	49.4078		0.5000	U	50.00	98.8		P
Cadmium	75-125	3.7549	B	0.5000	U	5.00	75.1		P
Calcium				42639.3000		0.00	0.0		P
Chromium	75-125	188.7635		2.1850	B	200.00	93.3		P
Cobalt	75-125	466.1269		1.0000	U	500.00	93.2		P
Copper	75-125	242.9594		7.8835	B	250.00	94.0		P
Iron	75-125	2454.8220		1537.9980		1000.00	91.7		P
Lead	75-125	15.4626		3.3095		20.00	60.8	N	P
Magnesium				6578.4490		0.00	0.0		P
Manganese	75-125	835.9171		383.2344		500.00	90.5		P
Mercury	75-125	1.0300		0.1000	U	1.00	103.0		CV
Nickel	75-125	462.8994		1.5000	U	500.00	92.6		P
Potassium				8007.6340		0.00	0.0		P
Selenium	75-125	6.5098		5.0000	U	10.00	65.1	N	P
Silver	75-125	47.1451		1.0000	U	50.00	94.3		P
Sodium				44315.3300		0.00	0.0		P
Thallium	75-125	40.3228		6.0000	U	50.00	80.6		P
Vanadium	75-125	471.1544		1.0000	U	500.00	94.2		P
Zinc	75-125	618.8820		160.0025		500.00	91.8		P
Cyanide									NR

Comments:
Total Metals

U.S. EPA - CLP

5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SW-09A

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix: WATER Level (low/med): LOW

Concentration Units: UG/L

Analyte	Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	75-125	20.2078		3.3095		20.00	84.5		P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium	75-125	10.5791		5.0000	U	10.00	105.8		P
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:
Total Metals

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

SW-09D

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix: WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic	.0	12.2734		11.4029		7.4		P
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead								NR
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide								NR

Filtered Metals

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

SW-09D

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix: WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		50.7051	B	55.6603	B	9.3		P
Antimony		5.0000	U	5.0000	U			P
Arsenic	.0	12.6402		14.8260		15.9		P
Barium		26.0002	B	25.3654	B	2.5		P
Beryllium		0.5000	U	0.5000	U			P
Cadmium		0.5000	U	0.5000	U			P
Calcium		42639.3000		41273.2000		3.2		P
Chromium		2.1850	B	1.8973	B	14.1		P
Cobalt		1.0000	U	1.0000	U			P
Copper		7.8835	B	6.6745	B	16.6		P
Iron		1537.9980		1511.2810		1.8		P
Lead	.0	3.3095		2.0000	U			P
Magnesium	.0	6578.4490		6368.7960		3.2		P
Manganese		383.2344		371.0916		3.2		P
Mercury		0.1000	U	0.1000	U			CV
Nickel		1.5000	U	1.7300	B	200.0		P
Potassium	.0	8007.6340		7756.2120		3.2		P
Selenium		5.0000	U	5.0000	U			P
Silver		1.0000	U	1.0000	U			P
Sodium		44315.3300		43097.4000		2.8		P
Thallium		6.0000	U	6.0000	U			P
Vanadium		1.0000	U	1.0000	U			P
Zinc		160.0025		142.5792		11.5		P
Cyanide								NR

Total Metals

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7

LABORATORY CONTROL SAMPLE

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2264

Solid LCS Source: _____

Aqueous LCS Source: INORG. VENT.

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	2400.0	2294.57	95.6						
Antimony	800.0	782.37	97.8						
Arsenic	800.0	783.54	97.9						
Barium	240.0	229.22	95.5						
Beryllium	80.0	81.02	101.3						
Cadmium	240.0	231.09	96.3						
Calcium	12000.0	11815.37	98.5						
Chromium	240.0	233.07	97.1						
Cobalt	240.0	234.64	97.8						
Copper	240.0	227.80	94.9						
Iron	10000.0	9603.90	96.0						
Lead	800.0	774.57	96.8						
Magnesium	6000.0	5846.08	97.4						
Manganese	160.0	154.71	96.7						
Mercury	5.0	5.33	106.6						
Nickel	240.0	233.00	97.1						
Potassium	16000.0	16694.35	104.3						
Selenium	400.0	413.49	103.4						
Silver	240.0	231.22	96.3						
Sodium	2000.0	1918.65	95.9						
Thallium	800.0	786.34	98.3						
Vanadium	240.0	232.90	97.0						
Zinc	240.0	246.34	102.6						
Cyanide									

U.S. EPA - CLP

8
STANDARD ADDITION RESULTS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2264

Concentration Units: ug/L

EPA Sample No.	An	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q

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9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

SW-09L

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix(soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Aluminum	50.70	B	70.80	B	39.6		P
Antimony	5.00	U	25.00	U			P
Arsenic	12.64		12.50	U	100.0		P
Barium	26.00	B	27.14	B	4.4		P
Beryllium	0.50	U	2.50	U			P
Cadmium	0.50	U	2.50	U			P
Calcium	42639.30		42491.28		0.3		P
Chromium	2.18	B	5.00	U	100.0		P
Cobalt	1.00	U	5.00	U			P
Copper	7.88	B	6.61	B	16.1		P
Iron	1538.00		1513.83		1.6		P
Lead	3.31		10.00	U	100.0		P
Magnesium	6578.45		6618.16	B	0.6		P
Manganese	383.23		385.33		0.5		P
Mercury							NR
Nickel	1.50	U	7.50	U			P
Potassium	8007.63		7489.22	B	6.5		P
Selenium	5.00	U	25.00	U			P
Silver	1.00	U	5.00	U			P
Sodium	44315.33		41602.33		6.1		P
Thallium	6.00	U	30.00	U			P
Vanadium	1.00	U	5.00	U			P
Zinc	160.00		157.11		1.8		P
Cyanide							NR

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10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2264

ICP ID Number: JA61 Date: 10/01/00

Flame AA ID Number: _____

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	208.20		200.0	10.0	P
Antimony	206.83		60.0	5.0	P
Arsenic	193.60		10.0	2.5	P
Barium	493.40		200.0	.5	P
Beryllium	234.86		5.0	.5	P
Cadmium	228.80		5.0	.5	P
Calcium	317.93		5000.0	10.0	P
Chromium	267.70		10.0	1.0	P
Cobalt	228.61		50.0	1.0	P
Copper	324.75		25.0	1.0	P
Iron	271.44		100.0	10.0	P
Lead	220.35		3.0	2.0	P
Magnesium	279.07		5000.0	10.0	P
Manganese	257.61		15.0	1.0	P
Mercury			.2		
Nickel	231.60		40.0	1.5	P
Potassium	766.49		5000.0	200.0	P
Selenium	196.02		5.0	5.0	P
Silver	328.06		10.0	1.0	P
Sodium	589.59		5000.0	20.0	P
Thallium	189.90		10.0	6.0	P
Vanadium	292.40		50.0	1.0	P
Zinc	213.85		20.0	5.0	P

Comments:

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2264

ICP ID Number: _____ Date: 10/01/00

Flame AA ID Number: HG4

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		
Antimony			60.0		
Arsenic			10.0		
Barium			200.0		
Beryllium			5.0		
Cadmium			5.0		
Calcium			5000.0		
Chromium			10.0		
Cobalt			50.0		
Copper			25.0		
Iron			100.0		
Lead			3.0		
Magnesium			5000.0		
Manganese			15.0		
Mercury	253.70		.2	.1	CV
Nickel			40.0		
Potassium			5000.0		
Selenium			5.0		
Silver			10.0		
Sodium			5000.0		
Thallium			10.0		
Vanadium			50.0		
Zinc			20.0		

Comments:

U.S. EPA - CLP

11A
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2264

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : Al	Ca	Fe	Mg	Ag
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic						
Barium	493.40	0.0000000	2.3516000	0.0000000	0.0000000	0.0000000
Beryllium	234.86	0.0000000	-2.1540000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	-.0014590	1.1105000	0.0000000	0.0000000	0.0000000
Calcium	317.93	.0086205	0.0000000	0.0000000	.0081618	0.0000000
Chromium	267.70	.0018652		-.0011680	-3.0940000	0.0000000
Cobalt	228.61	0.0000000		.0060000	-13.4160000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	-.4786330
Iron	271.44	.0033661	0.0000000	0.0000000	-.0291150	0.0000000
Lead	220.35	0.0000000	1.9097000	0.0000000	0.0000000	0.0000000
Magnesium	279.07	.0071408	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	-.1392250	.5557496
Mercury						
Nickel	231.60	-.0027450	3.1950000	0.0000000	0.0000000	-.1560630
Potassium	766.49	-.0079430	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.06	0.0000000		0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000		0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	0.0000000	0.0000000	-.0040180	0.0000000	.4159166
Zinc	213.85	.0009443	8.7485000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2264

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : As	B	Ba	Be	Cd
Aluminum	308.21	3.9599940	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	.2221185	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic						
Barium	493.40	0.0000000	0.0000000	0.0000000	.0020452	0.0000000
Beryllium	234.86	2.2054610	0.0000000	3.3925410	0.0000000	.2991092
Cadmium	228.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	5.8517630	0.0000000
Chromium	267.70	-6.3830600	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.61	-.4015400	0.0000000	0.0000000	.0524210	.2877358
Copper	324.75	0.0000000	-14.5688000	0.0000000	0.0000000	0.0000000
Iron	271.44	-2.8353600	0.0000000	1.2696520	.0123381	-1.7637400
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.07	-1.9608300	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	.7548212	0.0000000	0.0000000	0.0000000	.0286714
Mercury						
Nickel	231.60	-.3004870	0.0000000	0.0000000	-.0254260	1.6268810
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	-1.4987800	0.0000000	0.0000000	.0845908	.0375521
Zinc	213.85	-1.3146900	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2264

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : Co	Cr	Cu	K	Mn
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	.8822868
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic						
Barium	493.40	.4458370	0.0000000	0.0000000	0.0000000	-.1513210
Beryllium	234.86	0.0000000	-.1224680	0.0000000	0.0000000	0.0000000
Cadmium	228.80	-2.0803500	-1.0195500	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	.9515125	0.0000000	0.0000000	0.0000000
Chromium	267.70	1.2502400	0.0000000	0.0000000	0.0000000	-.0417720
Cobalt	228.61	0.0000000	.0772782	0.0000000	0.0000000	-.0267550
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	-5.5184100	0.0000000	2.1567660	0.0000000	-3.4565100
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.07	0.0000000	1.3531870	0.0000000	.6270879	.1854641
Manganese	257.61	0.0000000	-.5727500	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	-.0428020	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	0.0000000	.4646357	-.7459740	0.0000000	-.4539330
Zinc	213.85	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2264

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : Mo	Na	Ni	Pb	Sb
Aluminum	308.21	0.0000000	0.0000000	0.0000000	7.4656990	.4182633
Antimony	206.83	0.0000000	.0959060	5.1763370	1.2997970	0.0000000
Arsenic						
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.86	0.0000000	0.0000000	-.0145800	0.0000000	-1.6234400
Cadmium	228.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	.0105777	0.0000000	0.0000000	-1.3041900
Chromium	267.70	1.5194300	0.0000000	.4416338	-.1202820	7.7030790
Cobalt	228.61	-.0124570	0.0000000	2.2201410	.6915992	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	-3.6280800	0.0000000
Iron	271.44	-1.3566400	0.0000000	.5093932	.5134977	1.1269720
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.07	0.0000000	0.0000000	0.0000000	-.5954890	2.3300000
Manganese	257.61	0.0000000	0.0000000	0.0000000	4.4615890	0.0000000
Mercury						
Nickel	231.60	5.5485240	0.0000000	0.0000000	-.2555120	2.1088370
Potassium	766.49	0.0000000	.1218416	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	.9487286	0.0000000	0.0000000	-1.4936400	-.4668710
Zinc	213.85	0.0000000	0.0000000	0.0000000	0.0000000	-.6141440

Comments:

U.S. EPA - CLP

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2264

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : Se	Sn	Ti	Tl	V
Aluminum	308.21	6.2168040	.3024854	0.0000000	0.0000000	0.0000000
Antimony	206.83	3.0897440	-.6053750	0.0000000	0.0000000	0.0000000
Arsenic						
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.86	0.0000000	.6761988	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	1.7640180	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.70	0.0000000	.2208577	.9567213	4.5557730	1.2170310
Cobalt	228.61	2.5668270	.4390100	-.0063100	-6.0023600	0.0000000
Copper	324.75	.0519865	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	-1.8581700	.0754601	0.0000000	0.0000000	0.0000000
Lead	220.35	.9428241	1.1606640	0.0000000	0.0000000	0.0000000
Magnesium	279.07	-.0000450	-.0000240	.0131000	0.0000000	-.0050000
Manganese	257.61	2.4119190	-.3639270	0.0000000	-1.1010300	.9414657
Mercury						
Nickel	231.60	0.0000000	-.7297880	0.0000000	0.0000000	0.0000000
Potassium	766.49	5.3734670	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.06	.5868963	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	3.1253820	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	-.0953390	-.3701520	0.0000000	2.6711040	0.0000000
Zinc	213.85	.1325478	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2264

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : Zn	Zr			
Aluminum	308.21	0.0000000	0.0000000			
Antimony	206.83	-1.0792400	0.0000000			
Arsenic						
Barium	493.40	-.1870990	0.0000000			
Beryllium	234.86	0.0000000	0.0000000			
Cadmium	228.80	0.0000000	0.0000000			
Calcium	317.93	-.4802940	.8045480			
Chromium	267.70	0.0000000	-.0096980			
Cobalt	228.61	-1.6896500	1.0255960			
Copper	324.75	-1.9375200	0.0000000			
Iron	271.44	3.6036430	0.0000000			
Lead	220.35	0.0000000	0.0000000			
Magnesium	279.07	0.0000000	0.0000000			
Manganese	257.61	-.3086080	0.0000000			
Mercury						
Nickel	231.60	-4.4617100	0.0000000			
Potassium	766.49	0.0000000	0.0000000			
Selenium						
Silver	328.06	-1.8535700	0.0000000			
Sodium	589.59	-1.2720500	0.0000000			
Thallium						
Vanadium	292.40	-.1061740	0.0000000			
Zinc	213.85	0.0000000	0.0000000			

Comments:

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12
ICP Linear Ranges (Quarterly)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2264

ICP ID Number: JA61 Date: 10/01/00

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	6.00	500000.0	P
Antimony	6.00	10000.0	P
Arsenic	6.00	10000.0	P
Barium	6.00	10000.0	P
Beryllium	6.00	10000.0	P
Cadmium	6.00	10000.0	P
Calcium	6.00	200000.0	P
Chromium	6.00	200000.0	P
Cobalt	6.00	10000.0	P
Copper	6.00	100000.0	P
Iron	6.00	500000.0	P
Lead	6.00	500000.0	P
Magnesium	6.00	500000.0	P
Manganese	6.00	10000.0	P
Mercury			NR
Nickel	6.00	10000.0	P
Potassium	6.00	100000.0	P
Selenium	6.00	10000.0	P
Silver	6.00	10000.0	P
Sodium	6.00	500000.0	P
Thallium	6.00	100000.0	P
Vanadium	6.00	10000.0	P
Zinc	6.00	10000.0	P

Comments:

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13
PREPARATION LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2264A SAS No.: _____ SDG No.: A2264

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
F002264A-01	10/20/00	100.00	100
F002264A-02	10/20/00	100.00	100
F002264A-03	10/20/00	100.00	100
F002264A-04	10/20/00	100.00	100
F002264A-04D	10/20/00	100.00	100
F002264A-04S	10/20/00	100.00	100
F002264A-05	10/20/00	100.00	100
LCSW1	10/20/00		100
PBW1	10/20/00		100
T002264A-01	10/20/00	100.00	100
T002264A-02	10/20/00	100.00	100
T002264A-03	10/20/00	100.00	100
T002264A-04	10/20/00	100.00	100
T002264A-04D	10/20/00	100.00	100
T002264A-04S	10/20/00	100.00	100
T002264A-05	10/20/00	100.00	100

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PREPARATION LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2264A SAS No.: _____ SDG No.: A2264

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
002264A-01	10/16/00	25.00	25
002264A-02	10/16/00	25.00	25
002264A-03	10/16/00	25.00	25
002264A-04	10/16/00	25.00	25
002264A-04D	10/16/00	25.00	25
002264A-04S	10/16/00	25.00	25
002264A-05	10/16/00	25.00	25
LCSW1	10/16/00		25
LCSW2	10/16/00		25
LCSW3	10/16/00		25
LCSW4	10/16/00		25
PBW1	10/16/00		25
PBW2	10/16/00		25
PBW3	10/16/00		25
PBW4	10/16/00		25

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ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2264

Instrument ID Number: JA61 Method: P

Start Date: 10/24/00 End Date: 10/24/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S1	1.00	1259		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S7	1.00	1304			X	X	X	X	X		X	X	X		X		X		X	X	X	X		X	X	X	
S8	1.00	1309			X	X	X	X	X		X	X	X		X		X		X	X	X	X		X	X	X	
S4	1.00	1313		X		X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
S9	1.00	1317		X						X				X		X							X				
S6	1.00	1320		X						X				X		X							X				
S5	1.00	1323			X															X							
S3	1.00	1326								X				X		X							X				
ICV1	1.00	1326		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CV1	1.00	1331			X															X							
CB1	1.00	1336		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1341																									
ZZZZZZ	1.00	1349																									
ICV1	1.00	1354		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
ICB1	1.00	1401		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1405																									
CRI1	1.00	1410		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAI	1.00	1415		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSABI	1.00	1420		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV1	1.00	1425		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV1A	1.00	1430			X															X							
CCB1	1.00	1435		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
PBW1	1.00	1440		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LCSW1	1.00	1444		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T002264A-01	1.00	1449				X					X				X												
F002264A-01	1.00	1454				X																					
T002264A-02	1.00	1459				X					X				X												
F002264A-02	1.00	1504				X																					
T002264A-03	1.00	1508		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
F002264A-03	1.00	1513				X																					
T002264A-04	1.00	1518		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
F002264A-04	1.00	1523				X																					
CCV2	1.00	1528		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2264

Instrument ID Number: JA61 Method: P

Start Date: 10/24/00 End Date: 10/24/00

EPA Sample No.	D/F	Time	% R	Analytes																						
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV2A	1.00	1532			X															X							
CCB2	1.00	1537		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T002264A-04D	1.00	1542		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T002264A-04S	1.00	1547		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T002264A-04A	1.00	1552	98.7												X						X						
T002264A-04L	5.00	1557		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
F002264A-04D	1.00	1601				X																					
F002264A-04S	1.00	1606				X																					
F002264A-04A	1.00	1611																									
002264A-05	1.00	1616		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
002264A-05	1.00	1621				X																					
ZZZZZZ	1.00	1625																									
CCV3	1.00	1630		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV3A	1.00	1635			X															X							
CCB3	1.00	1640		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1645																									
ZZZZZZ	5.00	1650																									
ZZZZZZ	1.00	1654																									
ZZZZZZ	5.00	1659																									
ZZZZZZ	1.00	1704																									
ZZZZZZ	1.00	1709																									
ZZZZZZ	1.00	1714																									
CRI2	1.00	1718		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAF	1.00	1723		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSABF	1.00	1728		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV4	1.00	1733		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV4A	1.00	1738			X															X							
CCB4	1.00	1743		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2264

Instrument ID Number: HG4 Method: CV

Start Date: 10/16/00 End Date: 10/16/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1527																X									
S0	1.00	1529																X									
S1	1.00	1531																X									
S2	1.00	1533																X									
S5	1.00	1535																X									
S1	1.00	1537																X									
ICV1	1.00	1539																X									
ICB1	1.00	1541																X									
CCV1	1.00	1543																X									
CB1	1.00	1545																X									
BW1	1.00	1546																X									
LCSW1	1.00	1548																X									
ZZZZZZ	1.00	1612																									
ZZZZZZ	1.00	1622																									
ZZZZZZ	1.00	1623																									
ZZZZZZ	1.00	1625																									
ZZZZZZ	1.00	1625																									
ZZZZZZ	1.00	1627																									
ZZZZZZ	1.00	1627																									
ZZZZZZ	1.00	1630																									
ZZZZZZ	1.00	1632																									
ZZZZZZ	1.00	1633																									
ZZZZZZ	1.00	1635																									
CCV2	1.00	1636																X									
CCB2	1.00	1638																X									
ZZZZZZ	1.00	1640																									
002264A-01	1.00	1642																X									
002264A-02	1.00	1643																X									
002264A-03	1.00	1645																X									
002264A-04	1.00	1646																X									
002264A-04D	1.00	1648																X									
002264A-04S	1.00	1649																X									
002264A-05	1.00	1651																X									

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2264

Instrument ID Number: HG4 Method: CV

Start Date: 10/16/00 End Date: 10/16/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1653																									
ZZZZZZ	1.00	1655																									
CCV3	1.00	1658																X									
CCB3	1.00	1700																X									

COVER PAGE - WET CHEM ANALYSES DATA PACKAGE

Lab Name: STL Contract:

Lab Code: STL Case No.: 2264A SAS No.: SDG No.: A2264

SOW No.:

Sample No.	Lab Sample ID
SW-01	002264A-01
SW-10	002264A-02
SW-04	002264A-03
SW-09	002264A-04

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: David Madumadu Name: David Madumadu

Date: 10/19/00 Title: Section Leader

COVER PAGE - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-01

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix (soil/water): WATER Lab Sample ID: 002264A-01

% Solids: 0 Date Received: 10/06/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	5.0	U	mg/L		G

Comments:

FORM I - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-10

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix (soil/water): WATER Lab Sample ID: 002264A-02

% Solids: 0 Date Received: 10/06/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	5.0	U	mg/L		G

Comments:

FORM I - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-04

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix (soil/water): WATER Lab Sample ID: 002264A-03

% Solids: 0 Date Received: 10/06/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	5.0	U	mg/L		G

Comments:

FORM I - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-09

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2264A SAS No.: _____ SDG No.: A2264

Matrix (soil/water): WATER Lab Sample ID: 002264A-04

% Solids: 0 Date Received: 10/06/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	5.0	U	mg/L		G

Comments:

FORM I - WC

WET CHEM ANALYSIS

3
BLANKS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2264A SAS No.: _____ SDG No.: A2264

Analyte	Initial Calib. Blank	C	Continuing Calibration Blank 1	C	2	C	3	C	Prepa-ration Blank	C	units	M
TSS									5.0	U	mg/L	G

FORM III - IN ILM03.0

5
DUPLICATES

SAMPLE NO.

HDC-1

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2264A SAS No.: _____ SDG No.: A2264

% Solids for Sample: 0 % Solids for Duplicate: 0

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Units	M
TSS	20	265		307		14.7		mg/L	G

FORM V - WC

LABORATORY CONTROL SAMPLE

Lab Name: STL Contract:

Lab Code: STL Case No.: 2264A SAS No.: SDG No.: A2264

Analyte	True	LCS Found	%R	units	LCS Source
TSS	363.7	330	90.7	mg/L	

FORM VI - WC

HOLD TIME REPORT

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2264A SAS No.: _____ SDG No.: A2264

Analyte : TSS

Client Sample ID	Date Received	Date Prepped	Date Analyzed
HDC-1	10/06/00	10/06/00	10/06/00 00:00
SW-01	10/06/00	10/06/00	10/06/00 00:00
SW-10	10/06/00	10/06/00	10/06/00 00:00
SW-04	10/06/00	10/06/00	10/06/00 00:00
SW-09	10/06/00	10/06/00	10/06/00 00:00
001961A-01D		10/06/00	10/06/00 00:00

STL
Committed To Your Success

ORGANICS APPENDIX

U - Indicates that the compound was analyzed for but not detected.

J - Indicates that the compound was analyzed for and determined to be present in the sample. The mass spectrum of the compound meets the identification criteria of the method. The concentration listed is an estimated value, which is less than the specified minimum detection limit but is greater than zero.

B - This flag is used when the analyte is found in the blanks as well as the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of this analyte.

N - Indicates that the compound was analyzed for but not requested as an analyte. Value will not be listed on tabular result sheet.

S - Estimated due to surrogate outliers.

X - Matrix spike compound.

(1) - Cannot be separated.

(2) - Decomposes to azobenzene. Measured and calibrated as azobenzene.

A - This flag indicates that a TIC is a suspected aldol condensation product.

E - Indicates that it exceeds calibration curve range.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

C - Confirmed by GC/MS.

T - Compound present in TCLP blank.

P - This flag is used for a pesticide/aroclor target analyte when there is a greater than 25 percent difference for detected concentrations between the two GC columns (see Form X).

STL
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INORGANICS APPENDIX

C - Concentration qualifiers

U - Indicates analyte was not detected at method reporting limit.

B - Indicates analyte result between IDL and contract required detection limit (CRDL)

Q - QC qualifiers

E - Reported value is estimated because of the presence of interference

M - Duplicate injection precision not met

N - Spiked sample recovery not within control limits

S - The reported value was determined by the method of standard additions (MSA)

W - Post-digest spike recovery furnace analysis was out of 85-115 percent control limit, while sample absorbance was less than 50 percent of spike absorbance

* - Duplicate analysis not within control limit

+ - Correlation coefficient for MSA is less than 0.995

M - Method codes

P - ICP

A - Flame AA

F - Furnace AA

CV - Cold vapor AA (manual)

C - Cyanide

NR - Not Required

NC - Not Calculated as per protocols

STATE CERTIFICATIONS

In some instances it may be necessary for environmental data to be reported to a regulatory authority with reference to a certified laboratory. For your convenience, the laboratory identification numbers for the STL-Connecticut laboratory are provided in the following table. Many states certify laboratories for specific parameters or tests within a category (i.e. method 325.2 for wastewater). The information in the following table indicates the lab is certified in a general category of testing such as drinking water or wastewater analysis. The laboratory should be contacted directly if parameter-specific certification information is required.

STL-Connecticut
Certification Summary (as of April 2000)

State	Agency	Certification	Identification
Connecticut	Department of Health Services	Drinking Water, Wastewater	PH-0497
Maine	Department of Health and Environmental Services	Drinking Water, Wastewater/Solid, Hazardous Waste	CT023
Massachusetts	Department of Environmental Protection	Potable/Non-Potable Water	CT023
New Hampshire	Department of Environmental Services	Drinking Water, Wastewater	2528
New Jersey	Department of Environmental Protection	Drinking Water, Wastewater	46410
New York	Department of Health	CLP, Drinking Water, Wastewater, Solid/ Hazardous Waste	10602
North Carolina	Division of Environmental Management	Wastewater	388
Rhode Island	Department of Health	Chemistry...Non-Potable Water and Wastewater	A43
Washington	Department of Ecology	Wastewater/Hazardous Waste	C231
Wisconsin	Department of Natural Resources	Wastewater	998355710

7000-2264A
ROUX ASSOCIATES-MA
SAMPLE SUMMARY

CLIENT ID	LAB ID	MATRIX	DATE COLLECTED	DATE RECEIVED
SW-01	002264A-01	WATER	10/05/00	10/06/00
SW-10	002264A-02	WATER	10/05/00	10/06/00
SW-04	002264A-03	WATER	10/05/00	10/06/00
SW-09	002264A-04	WATER	10/05/00	10/06/00
SW-09	002264A-04D	WATER	10/05/00	10/06/00
SW-09	002264A-04MS	WATER	10/05/00	10/06/00
SW-09	002264A-04MSD	WATER	10/05/00	10/06/00
SW-09	002264A-04S	WATER	10/05/00	10/06/00
FIELD BLANK	002264A-05	WATER	10/05/00	10/06/00

STL CT ANALYTICAL SUMMARY

Client ID: FIELD BLANK, SW-01, SW-04, SW-09, SW-10
Job Number: 7000-2264A

Date: 10/27/100

Qty	Matrix	Analysis	Description
1	None	DISK	Diskette Prep.
2	WATER	AS-SW846	Arsenic
7	WATER	AS-SW846-D	Arsenic (Dissolved)
2	WATER	BNA-8270C-MISC	Miscellaneous Semi-V
5	WATER	BNA-8270C-TCL	TCL Semi-Volatile Or
2	WATER	CR-SW846	Chromium
2	WATER	HG-SW846	Mercury
2	WATER	MET-PREP-ICAP	Metals ICAP Prep
7	WATER	MET-PREP-ICAP-D	Metals ICAP Prep (Di
5	WATER	MET-SW846-TAL	TAL Metals
2	WATER	PB-SW846	Lead
5	WATER	TSS-160.2	Total Suspended Soli

ROUX CHAIN OF CUSTODY

№ 04819 Y

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

1377 MOTOR PARKWAY
ISLANDIA, NEW YORK 11788
~~(516) 232-2600~~ ~~FAX (516) 232-9898~~
781 270-1600 781 270 9066

ANALYSES

PAGE 1 OF 1

PROJECT NAME: INDUSTRIPLEX

PROJECT NUMBER: 06626M

PROJECT LOCATION: WOBURN, MA

PROJECT MANAGER: Larry McTiernan

SAMPLER(S): Chris Milone

7000-2264A

SAMPLE DESIGNATION / LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	TSS	Diss. Arsenic	Total As, Cr, Pb, Hg	TAL METALS	PAH, Diethylphthalate, 4-Methylphenol, bis-3-ethylhexylphthalate	TCL SVOCs + Cyclohexanone	TOTAL BOTTLES	NOTES
SW-01	10/5/2000	1255	SW	1	1	1		2		5	01
SW-10	↓	1310	SW	1	1	1		2		5	02
SW-04	↓	1320	SW	1	1		1		2	5	03
SW-09	↓	1355	SW	1	3		3		6	13	04
Field Blank	↓	1425	—		1		1		2	4	05

05 °C

~~"PASSED RAD SCREEN"~~

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
Christopher Milone	ROUX	10/5/00	1525		Aimee L Cornell	STL	10/5/00	1525	
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
Aimee L Cornell	STL	10/5/00	17:00		Mike	STL-CT	10-06-00	0915	
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N

DELIVERY METHOD

COMMENTS: * LEVEL 2 Deliverables for Tier II Data Validation

FedEx

FedEx Tracking Number 818837632130

Form I.D. No 0200

1 From

Date 10/5/00

Sender's Name

Phone 978 667-1400

Company TL Billerica

Address 149 Rangeway Rd.

Dept./Floor/Suite/Room

City N. Billerica State MA ZIP 01862

2 Your Internal Billing Reference

3 To

Recipient's Name Sample Recv...

Phone 203 129-8140

Company TL CONN

Address 128 Long Hill Cross Rd

Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

To "HOLD" at FedEx location, print FedEx address here

City Shelton State CT ZIP 06484

818837632130

4a Express Package Service — *Packages up to 150 lbs.* Delivery commitment may be later in some areas

- [x] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Letter Rate not available. Minimum charge: One-pound rate

4b Express Freight Service — *Packages over 150 lbs.* Delivery commitment may be later in some areas

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation

5 Packaging — * Declared value limit $500

- [ ] FedEx Letter*
- [ ] FedEx Pak*
- [x] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling

- [ ] Saturday Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] Sunday Delivery — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked

- [x] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice ____ kg

Dangerous Goods cannot be shipped in FedEx packaging

Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below

- [ ] Sender — Acct. No. in Section 1 will be billed
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Obtain Recip Acct. No.
- [ ] Cash/Check

Total Packages	Total Weight	Total Declared Value†	Total Charges
1	54 lbs	$ .00	

Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See back for details.

8 Release Signature *Sign to authorize delivery without obtaining signature*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Call 1·800·Go·FedEx (800 463-3339)

Visit our Web site at www.fedex.com

Rev. Date 11 Part #156786 ©1992-1999 FedEx GRAF 11/99

360

FedEx FedEx Tracking Number 818837632120

Form ID. No 0200

1 From

Date 10/5/00 [redacted]

Sender's Name _____ Phone 978 667 1400

Company JTL Billerica

Address 149 Range Way Rd

Dept./Floor/Suite/Room

City N. Billerica State MA ZIP 01862

2 Your Internal Billing Reference

3 To

Recipient's Name Simple Cue Phone 203 929-8140

Company JTL CONN

Address 128 Long Hill Cross Rd

We cannot deliver to P.O. boxes or P.O. ZIP codes

Dept./Floor/Suite/Room

To "HOLD" at FedEx location, print FedEx address here

City Shelton State CT ZIP 06484

818837632120

4a Express Package Service — Packages up to 150 lbs. Delivery commitment may be later in some areas

- [ ] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [x] FedEx First Overnight — Earliest AM business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Letter Rate not available. Minimum charge: One-pound rate

4b Express Freight Service — Packages over 150 lbs. Delivery commitment may be later in some areas

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation _____

5 Packaging — * Declared value limit $500

- [ ] FedEx Letter*
- [ ] FedEx Pak*
- [x] Other Pkg — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling

- [ ] **Saturday Delivery** — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] **Sunday Delivery** — Available for FedEx Priority Overnight to select ZIP codes
- [ ] **HOLD Weekday** at FedEx Location — Not available with FedEx First Overnight
- [ ] **HOLD Saturday** at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice 9, UN 1845 _____ x _____ kg

Dangerous Goods cannot be shipped in FedEx packaging

- [ ] Cargo Aircraft Only

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below — Obtain Recip. Acct. No.

- [ ] Sender — Acct. No. in Section 1 will be billed
- [x] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

[redacted]

Total Packages	Total Weight	Total Declared Value†	Total Charges
1	59 lbs	$ .00	Credit Card Auth

†Our liability is limited to $100 unless you declare a higher value. See back for details.

8 Release Signature Sign to authorize delivery without obtaining signature

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Call 1·800·Go·FedEx® (800 463-3339)

Visit our Web site at www.fedex.com

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360

Severn Ti · Connecticut
Internal Chain-of-Custody

Client: ROUX

STL Job #: 7000-2264A

Custody Seal: present / absent
Tamper Evident / Non Tamper Evident
intact / not intact

Airbill# FE

Field C-O-C: present / absent

Date Received: 10-06-00

Sample #s: 01-05

Locations: 95

Laboratory Sample #	Relinquished by	Accepted by	Date	Time	Reason	Relinquished by	Accepted by	Date	Time
1-4	ML	S.	10/11	12	TSS	S.	ML	10/11	1
1-5	ML	JNL	10/9	6:00	BNA	USCL			
5	ML	S.	10/15	8	TSS	S.	ML	10/15	1
1-5	ML	GB	10/16	1150	Hg	GB	ML	10/16	1430
1		~~DM~~	10/1						
~~4 5 DM 10/20~~	~~DM~~	~~Dinamis~~	~~10/20~~	~~1600~~	~~IC Run~~	~~Dinamis~~	~~DM 10/20~~	~~10/20~~	~~2200~~

STL Form# SMF00504.CT

STL

GC-GC/MS Extract Chain of Custody

Fraction: (BNA) Pesticide-PCB / Herbicide / O/P Pesticide / DRO / Other (Circle one)

CLIENT: Rovy

JOB NO: 2264A

SAMPLE IN (Extractions)					SAMPLE IN (Extractions)				
Sample(s)	Date	Time	Sign.	Location	Sample(s)	Date	Time	Sign.	Location
LS	10/10	11 20	RP	29					
LMS/MSD	10/10	11 20	RP	29					

SAMPLE OUT					SAMPLE IN			
Sample(s)	Date	Time	Code	Sign.	Date	Time	Location	Sign.
01-05,040	10/11/00	16 00	AN	EM	10/11/00	17 00	29	EM

Codes: SC = Screening AN = Analysis

Verified By: [signature]

Date: 10/13

Lab Form: SMF01201.CT

Severn Trent Laboratories
128 Long Hill Cross
Shelton, CT 06484
Tel (203) 929-8140
Fax (203)

Committed To *Your* Success

CHAIN OF CUSTODY
ATOMIC SPECTROSCOPY DEPARTMENT

Job Number 002264A Sample Numbers 01 – 05

WATER - SOIL - SLUDGE - EPTOX/TCLP

I confirm that I have performed the preparation below following SOP guidelines and authorize the release of this preparation:

Sample Prep			
			ICP/FLME
			FURN
	Gerald Bao	10-16-00	MERCURY
	Chemist	Date(s)	

I confirm that I have performed the analysis below following SOP guidelines and authorize the release of all associated data:

Analysis			ICP
			FLAME
			FURN
	Gerald Bao	10-16-00	MERCURY
	Chemist	Date(s)	

I have reviewed and authorize the release of this job:

Complete	[illegible]	10/25/00
	Supervisor	Date

Batch Assignment

Severn Trent Laboratories
128 Longhill Cross
Shelton, CT 06484
Tel (203) 929-8140
Fax (203)

Committed To *Your* Success

CHAIN OF CUSTODY
ATOMIC SPECTROSCOPY DEPARTMENT

Job Number 7000-2264A Sample Numbers 1-5 (T&F)

WATER - SOIL - SLUDGE - EPTOX/TCLP

I confirm that I have performed the preparation below following SOP guidelines and authorize the release of this preparation:

Sample Prep			ICP/FLME
	Darlyn Colon	10 20 00	FURN
			MERCURY
	Chemist	Date(s)	

I confirm that I have performed the analysis below following SOP guidelines and authorize the release of all associated data:

Analysis	Nestor Stanley	10/25/00	ICP
			FLAME
			FURN
			MERCURY
	Chemist	Date(s)	

I have reviewed and authorize the release of this job:

Complete _____ Supervisor 10/25/00 Date

Batch Assignment _____

IEA / CT
LABORATORY CHRONICLE

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

JOB #: **7000-2264A**

SAMPLE ID	MATRIX	LIST REQUESTED	DATE RECEIVED	DATE DIGESTED	DATE ANALYZED
SW-01	WATER	AS-SW846	10/06/00	10/20/00	10/21/00
SW-01	WATER	AS-SW846-D	10/06/00		
SW-01	WATER	CR-SW846	10/06/00		
SW-01	WATER	HG-SW846	10/06/00		
SW-01	WATER	PB-SW846	10/06/00		
SW-10	WATER	AS-SW846	10/06/00		
SW-10	WATER	AS-SW846-D	10/06/00		
SW-10	WATER	CR-SW846	10/06/00		
SW-10	WATER	HG-SW846	10/06/00		
SW-10	WATER	PB-SW846	10/06/00		
SW-04	WATER	AS-SW846-D	10/06/00		
SW-04	WATER	MET-SW846-TAL	10/06/00		
SW-09	WATER	AS-SW846-D	10/06/00		
SW-09	WATER	MET-SW846-TAL	10/06/00		
FIELD BLANK	WATER	AS-SW846-D	10/06/00		
FIELD BLANK	WATER	MET-SW846-TAL	10/06/00		

Section Supervisor (signature) [illegible]

Review & Approval (printed name) D. Wolfe

(Date) 10/26/00

QC Supervisor (signature) _____

Review & Approval (printed name) _____

(Date) ___/___/___

Fall Storm 1

SEVERN TRENT SERVICES

STL Connecticut
128 Long Hill Cross Road
Shelton, CT 06484

Tel: 203 929 8140
Fax: 203 929 8142
www.stl-inc.com

October 30, 2000

Mr. Larry Mctiernan
ROUX ASSOCIATES-MA
25 Corporate Drive
Suite 230
Burlington, MA 01803

Dear Mr. Mctiernan :

Please find enclosed the analytical results of 15 sample(s) received at our laboratory on October 11, 2000. This report contains sections addressing the following information at a minimum:

- sample summary
- analytical methodology
- state certifications
- definition of data qualifiers and terminology
- analytical results
- chain-of-custody

STL Report #7000-2279A	Purchase Order #06626M32
Project ID: INDUSTRIALPLEX	

Copies of this analytical report and supporting data are maintained in our files for a minimum of five years unless special arrangements have been made. Unless specifically indicated, all analytical testing was performed at this laboratory location and no portion of the testing was subcontracted.

We appreciate your selection of our services and welcome any questions or suggestions you may have relative to this report. Please contact your customer service representative at (203) 929-8140 for any additional information. Thank you for utilizing our services; we hope you will consider us for your future analytical needs.

I have reviewed and approved the enclosed data for final release.

Very truly yours,

Cheryl A. Cascella for

Jeffrey C. Curran
Laboratory Manager

JCC

7000-2279A
ROUX ASSOCIATES

Case Narrative

Sample Receipt – All samples were received in good condition and at proper temperature.

Classical Chemistry - Listed below are the wet chemistry analyte methods and references for the samples analyzed in this SDG. No analytical problems were encountered.

Analyte	Method	Reference
TSS	160.2	1

References:

1. Methods of Chemical Analysis of Water and Wastes, EPA 600, 1983.

Semi-Volatile Organics - Semi-volatile organic samples were extracted and analyzed by capillary GC/MS using guidance provided in Methods 3510C/8270C. The instrumentation used was a Hewlett-Packard Gas Chromatograph interfaced with a Mass Selective Detector.

Due to insufficient sample volume, samples SW-03 and SW-06 were extracted using half the usual volume and half surrogate. The samples were brought to half the usual volume therefore PQLs were not affected.

The spike recoveries for the compounds, 2,4-dinitrophenol and pentachlorophenol, were outside recovery limits for SBLKSSFMS.

Metals – ICAP metals were determined using a JA61E trace ICAP; mercury was determined by cold vapor technique using a Leeman Labs mercury analyzer; following guidance provided in SW846 according to methods: ICAP – 3010A/6010B; mercury-7470A.

No problems occurred during analysis. All appropriate protocols were employed. All data appears to be consistent.

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-01

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix: (soil/water) WATER Lab Sample ID: 002279A-01

Sample wt/vol: 940 (g/mL) ML Lab File ID: >S1309

Level: (low/med) LOW Date Received: 10/11/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/16/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/23/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	11	U
106-44-5	4-Methylphenol	11	U
91-20-3	Naphthalene	11	U
91-57-6	2-Methylnaphthalene	11	U
208-96-8	Acenaphthylene	11	U
83-32-9	Acenaphthene	11	U
86-73-7	Fluorene	11	U
84-66-2	Diethylphthalate	11	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-10

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix: (soil/water) WATER Lab Sample ID: 002279A-02

Sample wt/vol: 910 (g/mL) ML Lab File ID: >S1310

Level: (low/med) LOW Date Received: 10/11/00

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/16/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/23/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	11	U
106-44-5	4-Methylphenol	11	U
91-20-3	Naphthalene	11	U
91-57-6	2-Methylnaphthalene	11	U
208-96-8	Acenaphthylene	11	U
83-32-9	Acenaphthene	11	U
86-73-7	Fluorene	11	U
84-66-2	Diethylphthalate	11	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-02

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix: (soil/water) WATER Lab Sample ID: 002279A-03

Sample wt/vol: 760 (g/mL) ML Lab File ID: >S1311

Level: (low/med) LOW Date Received: 10/11/00

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/16/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/23/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	13	U
106-44-5	4-Methylphenol	13	U
91-20-3	Naphthalene	13	U
91-57-6	2-Methylnaphthalene	13	U
208-96-8	Acenaphthylene	13	U
83-32-9	Acenaphthene	13	U
86-73-7	Fluorene	13	U
84-66-2	Diethylphthalate	13	U
85-01-8	Phenanthrene	13	U
120-12-7	Anthracene	13	U
206-44-0	Fluoranthene	13	U
129-00-0	Pyrene	13	U
56-55-3	Benzo(a)anthracene	13	U
218-01-9	Chrysene	13	U
117-81-7	bis(2-Ethylhexyl)phthalate	13	U
205-99-2	Benzo(b)fluoranthene	13	U
207-08-9	Benzo(k)fluoranthene	13	U
50-32-8	Benzo(a)pyrene	13	U
193-39-5	Indeno(1,2,3-cd)pyrene	13	U
53-70-3	Dibenzo(a,h)anthracene	13	U
191-24-2	Benzo(g,h,i)perylene	13	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-03

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix: (soil/water) WATER Lab Sample ID: 002279A-04

Sample wt/vol: 500 (g/mL) ML Lab File ID: >S1312

Level: (low/med) LOW Date Received: 10/11/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/16/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/23/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
84-66-2	Diethylphthalate	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-04

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix: (soil/water) WATER Lab Sample ID: 002279A-05

Sample wt/vol: 880 (g/mL) ML Lab File ID: >S1313

Level: (low/med) LOW Date Received: 10/11/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/16/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/23/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	11	U
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic acid	57	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	57	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	57	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	11	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-04

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix: (soil/water) WATER Lab Sample ID: 002279A-05

Sample wt/vol: 880 (g/mL) ML Lab File ID: >S1313

Level: (low/med) LOW Date Received: 10/11/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/16/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/23/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
606-20-2	2,6-Dinitrotoluene	11	U
99-09-2	3-Nitroaniline	57	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	57	U
100-02-7	4-Nitrophenol	57	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	57	U
534-52-1	4,6-Dinitro-2-methylphenol	57	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	57	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	23	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
117-84-0	Di-n-octylphthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-05

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix: (soil/water) WATER Lab Sample ID: 002279A-06

Sample wt/vol: 810 (g/mL) ML Lab File ID: >S1314

Level: (low/med) LOW Date Received: 10/11/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/16/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/23/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	12	U
106-44-5	4-Methylphenol	12	U
91-20-3	Naphthalene	12	U
91-57-6	2-Methylnaphthalene	12	U
208-96-8	Acenaphthylene	12	U
83-32-9	Acenaphthene	12	U
86-73-7	Fluorene	12	U
84-66-2	Diethylphthalate	12	U
85-01-8	Phenanthrene	12	U
120-12-7	Anthracene	12	U
206-44-0	Fluoranthene	12	U
129-00-0	Pyrene	12	U
56-55-3	Benzo(a)anthracene	12	U
218-01-9	Chrysene	12	U
117-81-7	bis(2-Ethylhexyl)phthalate	12	U
205-99-2	Benzo(b)fluoranthene	12	U
207-08-9	Benzo(k)fluoranthene	12	U
50-32-8	Benzo(a)pyrene	12	U
193-39-5	Indeno(1,2,3-cd)pyrene	12	U
53-70-3	Dibenzo(a,h)anthracene	12	U
191-24-2	Benzo(g,h,i)perylene	12	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-06

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix: (soil/water) WATER Lab Sample ID: 002279A-07

Sample wt/vol: 370 (g/mL) ML Lab File ID: >S1315

Level: (low/med) LOW Date Received: 10/11/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/16/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/23/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	14	U
106-44-5	4-Methylphenol	14	U
91-20-3	Naphthalene	14	U
91-57-6	2-Methylnaphthalene	14	U
208-96-8	Acenaphthylene	14	U
83-32-9	Acenaphthene	14	U
86-73-7	Fluorene	14	U
84-66-2	Diethylphthalate	14	U
85-01-8	Phenanthrene	14	U
120-12-7	Anthracene	14	U
206-44-0	Fluoranthene	1	J
129-00-0	Pyrene	.7	J
56-55-3	Benzo(a)anthracene	14	U
218-01-9	Chrysene	14	U
117-81-7	bis(2-Ethylhexyl)phthalate	14	U
205-99-2	Benzo(b)fluoranthene	14	U
207-08-9	Benzo(k)fluoranthene	14	U
50-32-8	Benzo(a)pyrene	14	U
193-39-5	Indeno(1,2,3-cd)pyrene	14	U
53-70-3	Dibenzo(a,h)anthracene	14	U
191-24-2	Benzo(g,h,i)perylene	14	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-07

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix: (soil/water) WATER Lab Sample ID: 002279A-08

Sample wt/vol: 810 (g/mL) ML Lab File ID: >S1333

Level: (low/med) LOW Date Received: 10/11/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/16/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	12	U
106-44-5	4-Methylphenol	12	U
91-20-3	Naphthalene	12	U
91-57-6	2-Methylnaphthalene	12	U
208-96-8	Acenaphthylene	12	U
83-32-9	Acenaphthene	12	U
86-73-7	Fluorene	12	U
84-66-2	Diethylphthalate	12	U
85-01-8	Phenanthrene	12	U
120-12-7	Anthracene	12	U
206-44-0	Fluoranthene	.7	J
129-00-0	Pyrene	.5	J
56-55-3	Benzo(a)anthracene	12	U
218-01-9	Chrysene	12	U
117-81-7	bis(2-Ethylhexyl)phthalate	12	U
205-99-2	Benzo(b)fluoranthene	12	U
207-08-9	Benzo(k)fluoranthene	12	U
50-32-8	Benzo(a)pyrene	12	U
193-39-5	Indeno(1,2,3-cd)pyrene	12	U
53-70-3	Dibenzo(a,h)anthracene	12	U
191-24-2	Benzo(g,h,i)perylene	12	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-08

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix: (soil/water) WATER Lab Sample ID: 002279A-09

Sample wt/vol: 830 (g/mL) ML Lab File ID: >S1340

Level: (low/med) LOW Date Received: 10/11/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/16/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	12	U
106-44-5	4-Methylphenol	12	U
91-20-3	Naphthalene	12	U
91-57-6	2-Methylnaphthalene	12	U
208-96-8	Acenaphthylene	12	U
83-32-9	Acenaphthene	12	U
86-73-7	Fluorene	12	U
84-66-2	Diethylphthalate	12	U
85-01-8	Phenanthrene	12	U
120-12-7	Anthracene	12	U
206-44-0	Fluoranthene	.8	J
129-00-0	Pyrene	.8	J
56-55-3	Benzo(a)anthracene	12	U
218-01-9	Chrysene	12	U
117-81-7	bis(2-Ethylhexyl)phthalate	8	J
205-99-2	Benzo(b)fluoranthene	12	U
207-08-9	Benzo(k)fluoranthene	12	U
50-32-8	Benzo(a)pyrene	12	U
193-39-5	Indeno(1,2,3-cd)pyrene	12	U
53-70-3	Dibenzo(a,h)anthracene	12	U
191-24-2	Benzo(g,h,i)perylene	12	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-09

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix: (soil/water) WATER Lab Sample ID: 002279A-10

Sample wt/vol: 880 (g/mL) ML Lab File ID: >S1334

Level: (low/med) LOW Date Received: 10/11/00

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/16/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	11	U
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic acid	57	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	57	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	57	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	11	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-09

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix: (soil/water) WATER Lab Sample ID: 002279A-10

Sample wt/vol: 880 (g/mL) ML Lab File ID: >S1334

Level: (low/med) LOW Date Received: 10/11/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/16/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
606-20-2	2,6-Dinitrotoluene	11	U
99-09-2	3-Nitroaniline	57	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	57	U
100-02-7	4-Nitrophenol	57	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	57	U
534-52-1	4,6-Dinitro-2-methylphenol	57	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	57	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	23	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
117-84-0	Di-n-octylphthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FIELD BLANK

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix: (soil/water) WATER Lab Sample ID: 002279A-11

Sample wt/vol: 850 (g/mL) ML Lab File ID: >S1337

Level: (low/med) LOW Date Received: 10/11/00

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/16/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	12	U
108-95-2	Phenol	12	U
111-44-4	bis(2-Chloroethyl)ether	12	U
95-57-8	2-Chlorophenol	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
100-51-6	Benzyl alcohol	12	U
95-50-1	1,2-Dichlorobenzene	12	U
95-48-7	2-Methylphenol	12	U
108-60-1	bis(2-Chloroisopropyl)ether	12	U
106-44-5	4-Methylphenol	12	U
621-64-7	N-Nitroso-di-n-propylamine	12	U
67-72-1	Hexachloroethane	12	U
98-95-3	Nitrobenzene	12	U
78-59-1	Isophorone	12	U
88-75-5	2-Nitrophenol	12	U
105-67-9	2,4-Dimethylphenol	12	U
65-85-0	Benzoic acid	59	U
111-91-1	bis(2-Chloroethoxy)methane	12	U
120-83-2	2,4-Dichlorophenol	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U
91-20-3	Naphthalene	12	U
106-47-8	4-Chloroaniline	12	U
87-68-3	Hexachlorobutadiene	12	U
59-50-7	4-Chloro-3-methylphenol	12	U
91-57-6	2-Methylnaphthalene	12	U
77-47-4	Hexachlorocyclopentadiene	12	U
88-06-2	2,4,6-Trichlorophenol	12	U
95-95-4	2,4,5-Trichlorophenol	59	U
91-58-7	2-Chloronaphthalene	12	U
88-74-4	2-Nitroaniline	59	U
131-11-3	Dimethylphthalate	12	U
208-96-8	Acenaphthylene	12	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FIELD BLANK

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix: (soil/water) WATER Lab Sample ID: 002279A-11

Sample wt/vol: 850 (g/mL) ML Lab File ID: >S1337

Level: (low/med) LOW Date Received: 10/11/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/16/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
606-20-2	2,6-Dinitrotoluene	12	U
99-09-2	3-Nitroaniline	59	U
83-32-9	Acenaphthene	12	U
51-28-5	2,4-Dinitrophenol	59	U
100-02-7	4-Nitrophenol	59	U
132-64-9	Dibenzofuran	12	U
121-14-2	2,4-Dinitrotoluene	12	U
84-66-2	Diethylphthalate	12	U
7005-72-3	4-Chlorophenyl-phenylether	12	U
86-73-7	Fluorene	12	U
100-01-6	4-Nitroaniline	59	U
534-52-1	4,6-Dinitro-2-methylphenol	59	U
86-30-6	N-Nitrosodiphenylamine (1)	12	U
101-55-3	4-Bromophenyl-phenylether	12	U
118-74-1	Hexachlorobenzene	12	U
87-86-5	Pentachlorophenol	59	U
85-01-8	Phenanthrene	12	U
120-12-7	Anthracene	12	U
84-74-2	Di-n-butylphthalate	12	U
206-44-0	Fluoranthene	12	U
129-00-0	Pyrene	12	U
85-68-7	Butylbenzylphthalate	12	U
91-94-1	3,3'-Dichlorobenzidine	24	U
56-55-3	Benzo(a)anthracene	12	U
218-01-9	Chrysene	12	U
117-81-7	bis(2-Ethylhexyl)phthalate	12	U
117-84-0	Di-n-octylphthalate	12	U
205-99-2	Benzo(b)fluoranthene	12	U
207-08-9	Benzo(k)fluoranthene	12	U
50-32-8	Benzo(a)pyrene	12	U
193-39-5	Indeno(1,2,3-cd)pyrene	12	U
53-70-3	Dibenzo(a,h)anthracene	12	U
191-24-2	Benzo(g,h,i)perylene	12	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKSS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix: (soil/water) WATER Lab Sample ID: SBLKSS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >S1307

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/16/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/23/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKSS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix: (soil/water) WATER Lab Sample ID: SBLKSS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >S1307

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/16/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/23/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-09MS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix: (soil/water) WATER Lab Sample ID: 002279A-10MS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >S1335

Level: (low/med) LOW Date Received: 10/11/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/16/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	10	U
108-95-2	Phenol	37	
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	71	
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	38	
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	39	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	41	
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	78	
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-09MS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix: (soil/water) WATER Lab Sample ID: 002279A-10MS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >S1335

Level: (low/med) LOW Date Received: 10/11/00

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/16/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	39	
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	43	J
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	46	
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	83	E
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	45	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-09MSD

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix: (soil/water) WATER Lab Sample ID: 002279A-10MSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >S1336

Level: (low/med) LOW Date Received: 10/11/00

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/16/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	10	U
108-95-2	Phenol	37	
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	70	
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	36	
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	39	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	40	
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	81	E
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-09MSD

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix: (soil/water) WATER Lab Sample ID: 002279A-10MSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >S1336

Level: (low/med) LOW Date Received: 10/11/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/16/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	39	
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	44	J
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	46	
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	77	
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	45	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKSSFMS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix: (soil/water) WATER Lab Sample ID: SBLKSSFMS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >S1308

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/16/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/23/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	10	U
108-95-2	Phenol	13	
111-44-4	bis(2-Chloroethyl)ether	35	
95-57-8	2-Chlorophenol	36	
541-73-1	1,3-Dichlorobenzene	34	
106-46-7	1,4-Dichlorobenzene	35	
100-51-6	Benzyl alcohol	32	
95-50-1	1,2-Dichlorobenzene	36	
95-48-7	2-Methylphenol	30	
108-60-1	bis(2-Chloroisopropyl)ether	37	
106-44-5	4-Methylphenol	30	
621-64-7	N-Nitroso-di-n-propylamine	36	
67-72-1	Hexachloroethane	33	
98-95-3	Nitrobenzene	35	
78-59-1	Isophorone	39	
88-75-5	2-Nitrophenol	36	
105-67-9	2,4-Dimethylphenol	30	
65-85-0	Benzoic acid	13	J
111-91-1	bis(2-Chloroethoxy)methane	36	
120-83-2	2,4-Dichlorophenol	39	
120-82-1	1,2,4-Trichlorobenzene	35	
91-20-3	Naphthalene	35	
106-47-8	4-Chloroaniline	35	
87-68-3	Hexachlorobutadiene	36	
59-50-7	4-Chloro-3-methylphenol	38	
91-57-6	2-Methylnaphthalene	36	
77-47-4	Hexachlorocyclopentadiene	23	
88-06-2	2,4,6-Trichlorophenol	38	
95-95-4	2,4,5-Trichlorophenol	38	J
91-58-7	2-Chloronaphthalene	46	
88-74-4	2-Nitroaniline	41	J
131-11-3	Dimethylphthalate	39	
208-96-8	Acenaphthylene	36	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKSSFMS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix: (soil/water) WATER Lab Sample ID: SBLKSSFMS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >S1308

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/16/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/23/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
606-20-2	2,6-Dinitrotoluene	41	
99-09-2	3-Nitroaniline	41	J
83-32-9	Acenaphthene	36	
51-28-5	2,4-Dinitrophenol	22	J
100-02-7	4-Nitrophenol	22	J
132-64-9	Dibenzofuran	41	
121-14-2	2,4-Dinitrotoluene	38	
84-66-2	Diethylphthalate	39	
7005-72-3	4-Chlorophenyl-phenylether	39	
86-73-7	Fluorene	39	
100-01-6	4-Nitroaniline	41	J
534-52-1	4,6-Dinitro-2-methylphenol	39	J
86-30-6	N-Nitrosodiphenylamine (1)	40	
101-55-3	4-Bromophenyl-phenylether	40	
118-74-1	Hexachlorobenzene	41	
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	41	
120-12-7	Anthracene	40	
84-74-2	Di-n-butylphthalate	41	
206-44-0	Fluoranthene	41	
129-00-0	Pyrene	43	
85-68-7	Butylbenzylphthalate	43	
91-94-1	3,3'-Dichlorobenzidine	40	
56-55-3	Benzo(a)anthracene	38	
218-01-9	Chrysene	43	
117-81-7	bis(2-Ethylhexyl)phthalate	45	
117-84-0	Di-n-octylphthalate	42	
205-99-2	Benzo(b)fluoranthene	41	
207-08-9	Benzo(k)fluoranthene	36	
50-32-8	Benzo(a)pyrene	40	
193-39-5	Indeno(1,2,3-cd)pyrene	39	
53-70-3	Dibenzo(a,h)anthracene	38	
191-24-2	Benzo(g,h,i)perylene	40	

(1) - Cannot be separated from Diphenylamine

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SBLKSS	74	66	67	24	35	68			0
02	SBLKSSFMS	84	90	83	32	47	76			0
03	SW-01	77	72	70	28	37	74			0
04	SW-10	71	66	73	26	35	73			0
05	SW-02	75	70	75	46	54	80			0
06	SW-03	62	62	74	34	40	72			0
07	SW-04	68	68	74	27	36	77			0
08	SW-05	72	63	76	27	36	71			0
09	SW-06	64	61	71	42	45	63			0
10	SW-07	73	71	77	25	36	72			0
11	SW-09	74	72	77	36	45	73			0
12	SW-09MS	76	75	77	37	49	75			0
13	SW-09MSD	76	74	77	36	48	77			0
14	FIELD BLANK	70	70	75	38	46	66			0
15	SW-08	78	67	83	31	43	75			0
16										
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18										
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26										
27										
28										
29										
30										

QC LIMITS

S1 (NBZ) = Nitrobenzene-d5 (35-114)
S2 (FBP) = 2-Fluorobiphenyl (43-116)
S3 (TPH) = Terphenyl-d14 (33-141)
S4 (PHL) = Phenol-d5 (10-110)
S5 (2FP) = 2-Fluorophenol (21-110)
S6 (TBP) = 2,4,6-Tribromophenol (10-123)
S7 (2CP) = 2-Chlorophenol-d4 (-) (advisory)
S8 (DCB) = 1,2-Dichlorobenzene-d4 (-) (advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM II SV-1

3C
WATER SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix Spike - EPA Sample No.: SBLKSS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE CONCENTRATION (ug/L)	SPIKE % REC #	QC. LIMITS REC.
Phenol	40	0	13	32	24-57
bis(2-Chloroethyl)ether	40	0	35	88	49-133
2-Chlorophenol	40	0	36	90	60-112
1,3-Dichlorobenzene	40	0	34	85	18-143
1,4-Dichlorobenzene	40	0	35	88	21-138
Benzyl alcohol	40	0	32	80	39-117
1,2-Dichlorobenzene	40	0	36	90	21-143
2-Methylphenol	40	0	30	75	49-91
bis(2-Chloroisopropyl)ether	40	0	37	92	54-130
4-Methylphenol	40	0	30	75	48-95
N-Nitroso-di-n-propylamine	40	0	36	90	46-129
Hexachloroethane	40	0	33	82	8-144
Nitrobenzene	40	0	35	88	46-141
Isophorone	40	0	39	98	52-140
2-Nitrophenol	40	0	36	90	69-123
2,4-Dimethylphenol	40	0	30	75	62-121
Benzoic acid	120	0	13	11	0-25
bis(2-Chloroethoxy)methane	40	0	36	90	53-142
2,4-Dichlorophenol	40	0	39	98	66-122
1,2,4-Trichlorobenzene	40	0	35	88	30-142
Naphthalene	40	0	35	88	43-144
4-Chloroaniline	40	0	35	88	48-150
Hexachlorobutadiene	40	0	36	90	5-169
4-Chloro-3-methylphenol	40	0	38	95	63-119
2-Methylnaphthalene	40	0	36	90	37-137
Hexachlorocyclopentadiene	40	0	23	58	1-139
2,4,6-Trichlorophenol	40	0	38	95	70-121
2,4,5-Trichlorophenol	40	0	38	95	71-124
2-Chloronaphthalene	40	0	46	115	52-163
2-Nitroaniline	40	0	41	102	60-139

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 0 2 out of 65 outside limits

COMMENTS: JW 10/26/00

FORM III SV-1

3C
WATER SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix Spike - EPA Sample No.: SBLKSS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE CONCENTRATION (ug/L)	SPIKE % REC #	QC. LIMITS REC.
Dimethylphthalate	40	0	39	98	64-137
Acenaphthylene	40	0	36	90	52-132
2,6-Dinitrotoluene	40	0	41	102	60-142
3-Nitroaniline	40	0	41	102	65-162
Acenaphthene	40	0	36	90	56-144
2,4-Dinitrophenol	40	0	22	55 *	70-139
4-Nitrophenol	40	0	22	55	21-65
Dibenzofuran	40	0	41	102	57-136
2,4-Dinitrotoluene	40	0	38	95	57-131
Diethylphthalate	40	0	39	98	62-132
4-Chlorophenyl-phenylether	40	0	39	98	55-136
Fluorene	40	0	39	98	59-131
4-Nitroaniline	40	0	41	102	67-155
4,6-Dinitro-2-methylphenol	40	0	39	98	77-164
N-Nitrosodiphenylamine (1)	40	0	40	100	67-149
4-Bromophenyl-phenylether	40	0	40	100	57-150
Hexachlorobenzene	40	0	41	102	53-153
Pentachlorophenol	40	0	0	0 *	63-125
Phenanthrene	40	0	41	102	83-124
Anthracene	40	0	40	100	66-138
Di-n-butylphthalate	40	0	41	102	65-146
Fluoranthene	40	0	41	102	63-145
Pyrene	40	0	43	108	66-152
Butylbenzylphthalate	40	0	43	108	64-158
3,3'-Dichlorobenzidine	40	0	40	100	69-159
Benzo(a)anthracene	40	0	38	95	62-151
Chrysene	40	0	43	108	72-141
bis(2-Ethylhexyl)phthalate	40	0	45	112	63-148
Di-n-octylphthalate	40	0	42	105	65-154
Benzo(b)fluoranthene	40	0	41	102	42-172

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 02 out of 65 outside limits

COMMENTS: JW 10/21/00

FORM III SV-1

3C

WATER SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix Spike - EPA Sample No.: SBLKSS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE CONCENTRATION (ug/L)	SPIKE % REC #	QC. LIMITS REC.
Benzo(k)fluoranthene	40	0	36	90	55-150
Benzo(a)pyrene	40	0	40	100	68-147
Indeno(1,2,3-cd)pyrene	40	0	39	98	52-157
Dibenzo(a,h)anthracene	40	0	38	95	25-159
Benzo(g,h,i)perylene	40	0	40	100	56-166
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Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 02 out of 65 outside limits

COMMENTS: SJ 10/26/00

FORM III SV-1

3C
WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix Spike - EPA Sample No.: SW-09

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Phenol	100	0	37	37	12-110
2-Chlorophenol	100	0	71	71	27-123
1,4-Dichlorobenzene	50	0	38	76	36- 97
N-Nitroso-di-n-prop.(1)	50	0	39	78	41-116
1,2,4-Trichlorobenzene	50	0	41	82	39- 98
4-Chloro-3-methylphenol	100	0	78	78	23- 97
Acenaphthene	50	0	39	78	46-118
4-Nitrophenol	100	0	43	43	10- 80
2,4-Dinitrotoluene	50	0	46	92	24- 96
Pentachlorophenol	100	0	83	83	9-103
Pyrene	50	0	45	90	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	100	37	37	0	42	12-110
2-Chlorophenol	100	70	70	1	40	27-123
1,4-Dichlorobenzene	50	36	72	5	28	36- 97
N-Nitroso-di-n-prop.(1)	50	39	78	0	38	41-116
1,2,4-Trichlorobenzene	50	40	80	2	28	39- 98
4-Chloro-3-methylphenol	100	81	81	4	42	23- 97
Acenaphthene	50	39	78	0	31	46-118
4-Nitrophenol	100	44	44	2	50	10- 80
2,4-Dinitrotoluene	50	46	92	0	38	24- 96
Pentachlorophenol	100	77	77	8	50	9-103
Pyrene	50	45	90	0	31	26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits.

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: _____

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKSS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Lab File ID: >S1307 Lab Sample ID: SBLKSS

Instrument ID: HP5972S Date Extracted: 10/16/00

Matrix: (soil/water) WATER Date Analyzed: 10/23/00

Level: (low/med) LOW Time Analyzed: 1301

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLKSSFMS	SBLKSSFMS	>S1308	10/23/00
02	SW-01	002279A-01	>S1309	10/23/00
03	SW-10	002279A-02	>S1310	10/23/00
04	SW-02	002279A-03	>S1311	10/23/00
05	SW-03	002279A-04	>S1312	10/23/00
06	SW-04	002279A-05	>S1313	10/23/00
07	SW-05	002279A-06	>S1314	10/23/00
08	SW-06	002279A-07	>S1315	10/23/00
09	SW-07	002279A-08	>S1333	10/24/00
10	SW-09	002279A-10	>S1334	10/24/00
11	SW-09MS	002279A-10MS	>S1335	10/24/00
12	SW-09MSD	002279A-10MSD	>S1336	10/24/00
13	FIELD BLANK	002279A-11	>S1337	10/24/00
14	SW-08	002279A-09	>S1340	10/24/00
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COMMENTS: _____

FORM IV SV

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Lab File ID: S1142 DFTPP Injection Date:10/10/00

Instrument ID: HP5972S DFTPP Injection Time:1056

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	44.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	58.9
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	44.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	22.6
365	Greater than 1.0% of mass 198	2.67
441	Present, but less than mass 443	12.3
442	40.0 - 100.0% of mass 198	76.7
443	17.0 - 23.0% of mass 442	14.6 (19.0)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020V7	SSTD020V7	>S1143	10/10/00	1137
02	SSTD050V8	SSTD050V8	>S1144	10/10/00	1219
03	SSTD080V9	SSTD080V9	>S1145	10/10/00	1301
04	SSTD120W1	SSTD120W1	>S1146	10/10/00	1344
05	SSTD160W2	SSTD160W2	>S1147	10/10/00	1425
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FORM V SV

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Lab File ID: S1306 DFTPP Injection Date:10/23/00

Instrument ID: HP5972S DFTPP Injection Time:1221

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	51.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	65.3
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	47.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	22.2
365	Greater than 1.0% of mass 198	2.14
441	Present, but less than mass 443	11.6
442	40.0 - 100.0% of mass 198	72.8
443	17.0 - 23.0% of mass 442	14.2 (19.5)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050Y3	SSTD050Y3	>S1306	10/23/00	1221
02	SBLKSS	SBLKSS	>S1307	10/23/00	1301
03	SBLKSSFMS	SBLKSSFMS	>S1308	10/23/00	1340
04	SW-01	002279A-01	>S1309	10/23/00	1420
05	SW-10	002279A-02	>S1310	10/23/00	1459
06	SW-02	002279A-03	>S1311	10/23/00	1539
07	SW-03	002279A-04	>S1312	10/23/00	1618
08	SW-04	002279A-05	>S1313	10/23/00	1657
09	SW-05	002279A-06	>S1314	10/23/00	1737
10	SW-06	002279A-07	>S1315	10/23/00	1816
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FORM V SV

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Lab File ID: S1325 DFTPP Injection Date:10/24/00

Instrument ID: HP5972S DFTPP Injection Time:1103

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	60.4
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	45.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	22.8
365	Greater than 1.0% of mass 198	2.80
441	Present, but less than mass 443	12.5
442	40.0 - 100.0% of mass 198	78.3
443	17.0 - 23.0% of mass 442	14.9 (19.0)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050Y5	SSTD050Y5	>S1325	10/24/00	1103
02	SW-07	002279A-08	>S1333	10/24/00	1625
03	SW-09	002279A-10	>S1334	10/24/00	1704
04	SW-09MS	002279A-10MS	>S1335	10/24/00	1744
05	SW-09MSD	002279A-10MSD	>S1336	10/24/00	1824
06	FIELD BLANK	002279A-11	>S1337	10/24/00	1903
07	SW-08	002279A-09	>S1340	10/24/00	2102
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FORM V SV

6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Instrument ID: HP5972S Calibration Date(s):10/10/00 _____

Calibration Times: 1137 1425

LAB FILE ID: RRF20 = >S1143 RRF50 = >S1144
RRF80 = >S1145 RRF120= >S1146 RRF160= >S1147

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Phenol	* 1.899	1.702	1.545	1.393	1.325	1.573	14.8 *
bis(2-Chloroethyl)ether	* 1.226	1.144	1.070	0.998	0.972	1.082	9.7 *
2-Chlorophenol	* 1.459	1.359	1.263	1.168	1.099	1.270	11.4 *
1,3-Dichlorobenzene	* 1.594	1.446	1.348	1.237	1.152	1.355	12.8 *
1,4-Dichlorobenzene	* 1.615	1.470	1.358	1.245	1.146	1.367	13.5 *
Benzyl alcohol	* 0.638	0.640	0.580	0.539	0.498	0.579	10.7 *
1,2-Dichlorobenzene	* 1.502	1.352	1.212	1.072	0.974	1.222	17.3 *
2-Methylphenol	* 1.184	1.057	0.946	0.849	0.813	0.970	15.7 *
2,2'-oxybis(1-Chloropropane)	* 2.558	2.233	2.007	1.794	1.698	2.058	16.9 *
4-Methylphenol	* 1.292	1.117	1.018	0.922	0.863	1.042	16.3 *
N-Nitroso-di-n-propylamine	* 1.064	0.966	0.892	0.841	0.809	0.914	11.2 *
Hexachloroethane	* 0.651	0.605	0.573	0.531	0.501	0.572	10.4 *
Nitrobenzene	* 0.454	0.429	0.392	0.378	0.362	0.403	9.4 *
Isophorone	* 0.783	0.728	0.672	0.660	0.658	0.700	7.8 *
2-Nitrophenol	* 0.241	0.232	0.217	0.211	0.207	0.222	6.5 *
2,4-Dimethylphenol	* 0.354	0.336	0.313	0.305	0.301	0.322	7.0 *
Benzoic acid	* 0.227	0.257	0.250	0.248	0.243	0.245	4.6 *
bis(2-Chloroethoxy)methane	* 0.505	0.474	0.437	0.426	0.411	0.451	8.5 *
2,4-Dichlorophenol	* 0.337	0.316	0.289	0.279	0.263	0.297	10.0 *
1,2,4-Trichlorobenzene	* 0.350	0.322	0.297	0.281	0.266	0.303	11.0 *
Naphthalene	* 1.081	0.963	0.858	0.800	0.751	0.891	14.9 *
4-Chloroaniline	* 0.463	0.425	0.385	0.366	0.351	0.398	11.5 *
Hexachlorobutadiene	* 0.189	0.170	0.155	0.147	0.135	0.159	13.2 *
4-Chloro-3-methylphenol	* 0.315	0.303	0.275	0.269	0.261	0.285	8.1 *
2-Methylnaphthalene	* 0.638	0.514	0.438	0.393	0.370	0.471	23.0 *
Hexachlorocyclopentadiene	* 0.208	0.297	0.318	0.336	0.324	0.297	17.3 *
2,4,6-Trichlorophenol	* 0.436	0.431	0.416	0.412	0.394	0.418	4.0 *
2,4,5-Trichlorophenol	* 0.504	0.474	0.458	0.436	0.405	0.455	8.2 *
2-Chloronaphthalene	* 1.358	1.244	1.128	1.041	0.948	1.144	14.2 *
2-Nitroaniline	* 0.470	0.474	0.455	0.450	0.445	0.459	2.8 *
Dimethylphthalate	* 1.566	1.501	1.417	1.362	1.312	1.432	7.2 *
Acenaphthylene	* 2.089	1.898	1.740	1.650	1.538	1.783	12.1 *
2,6-Dinitrotoluene	* 0.386	0.366	0.347	0.339	0.326	0.353	6.7 *
3-Nitroaniline	* 0.402	0.384	0.363	0.363	0.358	0.374	5.0 *
Acenaphthene	* 1.291	1.175	1.086	1.025	0.959	1.107	11.7 *
2,4-Dinitrophenol	* 0.180	0.230	0.241	0.251	0.254	0.231	13.0 *
4-Nitrophenol	* 0.178	0.181	0.174	0.166	0.167	0.173	3.8 *

* Compounds with required minimum RRF and maximum %RSD values.

6C
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Instrument ID: HP5972S Calibration Date(s):10/10/00 _____

Calibration Times: 1137 1425

LAB FILE ID: RRF20 = >S1143 RRF50 = >S1144
RRF80 = >S1145 RRF120= >S1146 RRF160= >S1147

COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD	
Dibenzofuran	*	1.786	1.628	1.466	1.354	1.262	1.499	14.0	*
2,4-Dinitrotoluene	*	0.521	0.508	0.495	0.493	0.478	0.499	3.2	*
Diethylphthalate	*	1.584	1.471	1.410	1.340	1.263	1.414	8.7	*
4-Chlorophenyl-phenyl Ether	*	0.616	0.516	0.455	0.406	0.368	0.472	20.7	*
Fluorene	*	1.293	1.103	0.978	0.883	0.823	1.016	18.4	*
4-Nitroaniline	*	0.420	0.416	0.403	0.391	0.382	0.402	4.0	*
4,6-Dinitro-2-methylphenol	*	0.174	0.183	0.173	0.167	0.153	0.170	6.5	*
N-Nitrosodiphenylamine	*	0.641	0.578	0.520	0.467	0.424	0.526	16.4	*
4-Bromophenyl-phenylether	*	0.247	0.225	0.203	0.190	0.178	0.209	13.2	*
Hexachlorobenzene	*	0.293	0.265	0.236	0.217	0.201	0.242	15.3	*
Pentachlorophenol	*	0.129	0.145	0.140	0.141	0.138	0.139	4.3	*
Phenanthrene	*	1.166	1.022	0.918	0.844	0.789	0.948	15.8	*
Anthracene	*	1.212	1.057	0.925	0.857	0.816	0.973	16.6	*
Carbazole	*	1.098	0.987	0.878	0.820	0.772	0.911	14.5	*
Di-n-butylphthalate	*	1.584	1.400	1.228	1.131	1.059	1.280	16.6	*
Fluoranthene	*	1.096	0.957	0.831	0.750	0.704	0.868	18.4	*
Pyrene	*	1.430	1.363	1.283	1.244	1.204	1.305	7.0	*
Butylbenzylphthalate	*	0.829	0.778	0.742	0.698	0.662	0.742	8.8	*
3,3'-Dichlorobenzidine	*	0.432	0.369	0.332	0.304	0.281	0.344	17.2	*
Benzo(a)anthracene	*	1.144	1.024	0.919	0.848	0.798	0.947	14.7	*
Chrysene	*	1.066	0.943	0.852	0.807	0.771	0.888	13.4	*
bis(2-Ethylhexyl)phthalate	*	1.096	1.004	0.938	0.891	0.857	0.957	9.9	*
Di-n-octylphthalate	*	2.340	2.268	2.016	1.752	1.501	1.975	17.8	*
Benzo(b)fluoranthene	*	1.396	1.253	1.114	1.069	0.898	1.146	16.5	*
Benzo(k)fluoranthene	*	1.155	1.090	0.962	0.789	0.771	0.953	18.2	*
Benzo(a)pyrene	*	1.187	1.088	1.021	0.948	0.878	1.024	11.7	*
Indeno(1,2,3-cd)pyrene	*	1.164	1.231	1.346	1.434	1.420	1.319	9.0	*
Dibenz(a,h)anthracene	*	1.000	1.011	1.055	1.048	0.986	1.020	3.0	*
Benzo(g,h,i)perylene	*	1.006	1.145	1.373	1.535	1.565	1.325	18.4	*
Cyclohexanone		1.034	0.928	0.850	0.775	0.690	0.855	15.6	
Nitrobenzene-D5	*	0.438	0.416	0.392	0.381	0.369	0.399	7.0	*
2-Fluorobiphenyl	*	1.433	1.347	1.246	1.176	1.096	1.260	10.6	*
Terphenyl-D14	*	1.077	0.979	0.912	0.847	0.828	0.929	11.0	*
Phenol-D5	*	1.668	1.506	1.346	1.221	1.157	1.380	15.2	*
2-Fluorophenol	*	1.247	1.224	1.172	1.152	1.119	1.183	4.4	*
2,4,6-Tribromophenol	*	0.248	0.235	0.229	0.218	0.207	0.227	6.9	*

(1) Cannot be separated from Diphenylamine
* Compounds with required minimum RRF and maximum %RSD values.

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Instrument ID: HP5972S Calibration Date: 10/23/00 Time: 1221

Lab File ID: >S1306 Init. Calib. Date(s): 10/10/00 _____

Init. Calib. Times: 1137 1425

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	1.573	1.618		2.9	20.0
bis(2-Chloroethyl)ether	1.082	1.138		5.2	
2-Chlorophenol	1.270	1.350		6.3	
1,3-Dichlorobenzene	1.355	1.497		10.5	
1,4-Dichlorobenzene	1.367	1.502		9.9	20.0
Benzyl alcohol	0.579	0.293		-49.4	
1,2-Dichlorobenzene	1.222	1.390		13.7	
2-Methylphenol	0.970	0.981		1.1	
2,2'-oxybis(1-Chloropropane)	2.058	2.298		11.7	
4-Methylphenol	1.042	1.051		0.9	
N-Nitroso-di-n-propylamine	0.914	0.976	0.050	6.8	
Hexachloroethane	0.572	0.613		7.2	
Nitrobenzene	0.403	0.433		7.4	
Isophorone	0.700	0.736		5.1	
2-Nitrophenol	0.222	0.232		4.5	20.0
2,4-Dimethylphenol	0.322	0.279		-13.4	
Benzoic acid	0.245	0.272		11.0	
bis(2-Chloroethoxy)methane	0.451	0.468		3.8	
2,4-Dichlorophenol	0.297	0.322		8.4	20.0
1,2,4-Trichlorobenzene	0.303	0.326		7.6	
Naphthalene	0.891	0.963		8.1	
4-Chloroaniline	0.398	0.396		-0.5	
Hexachlorobutadiene	0.159	0.175		10.1	20.0
4-Chloro-3-methylphenol	0.285	0.285		0.0	20.0
2-Methylnaphthalene	0.471	0.520		10.4	
Hexachlorocyclopentadiene	0.297	0.302	0.050	1.7	
2,4,6-Trichlorophenol	0.418	0.429		2.6	20.0
2,4,5-Trichlorophenol	0.455	0.456		0.2	
2-Chloronaphthalene	1.144	1.162		1.6	
2-Nitroaniline	0.459	0.481		4.8	
Dimethylphthalate	1.432	1.495		4.4	
Acenaphthylene	1.783	1.968		10.4	
2,6-Dinitrotoluene	0.353	0.382		8.2	
3-Nitroaniline	0.374	0.377		0.8	
Acenaphthene	1.107	1.174		6.0	20.0
2,4-Dinitrophenol	0.231	0.230	0.050	-0.4	
4-Nitrophenol	0.173	0.188	0.050	8.7	

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Instrument ID: HP5972S Calibration Date: 10/23/00 Time: 1221

Lab File ID: >S1306 Init. Calib. Date(s): 10/10/00 _____

Init. Calib. Times: 1137 1425

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dibenzofuran	1.499	1.678		11.9	
2,4-Dinitrotoluene	0.499	0.510		2.2	
Diethylphthalate	1.414	1.490		5.4	
4-Chlorophenyl-Phenyl Ether	0.472	0.549		16.3	
Fluorene	1.016	1.150		13.2	
4-Nitroaniline	0.402	0.409		1.7	
4,6-Dinitro-2-methylphenol	0.170	0.182		7.1	
N-Nitrosodiphenylamine	0.526	0.592		12.5	20.0
4-Bromophenyl-phenylether	0.209	0.229		9.6	
Hexachlorobenzene	0.242	0.274		13.2	
Pentachlorophenol	0.139	0.154		10.8	20.0
Phenanthrene	0.948	1.028		8.4	
Anthracene	0.973	1.055		8.4	
Carbazole	0.911	0.989		8.6	
Di-n-butylphthalate	1.280	1.424		11.2	
Fluoranthene	0.868	0.922		6.2	20.0
Pyrene	1.305	1.375		5.4	
Butylbenzylphthalate	0.742	0.806		8.6	
3,3'-Dichlorobenzidine	0.344	0.359		4.4	
Benzo(a)anthracene	0.947	0.975		3.0	
Chrysene	0.888	1.001		12.7	
bis(2-Ethylhexyl)phthalate	0.957	1.090		13.9	
Di-n-octylphthalate	1.975	2.271		15.0	20.0
Benzo(b)fluoranthene	1.146	1.314		14.6	
Benzo(k)fluoranthene	0.953	1.016		6.6	
Benzo(a)pyrene	1.024	1.082		5.7	20.0
Indeno(1,2,3-cd)pyrene	1.319	1.201		-9.0	
Dibenz(a,h)anthracene	1.020	1.002		-1.8	
Benzo(g,h,i)perylene	1.325	1.106		-16.5	
Cyclohexanone	0.855	0.919		7.5	
Nitrobenzene-D5	0.399	0.417		4.5	
2-Fluorobiphenyl	1.260	1.337		6.1	
Terphenyl-D14	0.929	1.008		8.5	
Phenol-D5	1.380	1.571		13.8	
2-Fluorophenol	1.183	1.222		3.3	
2,4,6-Tribromophenol	0.227	0.241		6.2	

(1) Cannot be separated from Diphenylamine

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Instrument ID: HP5972S Calibration Date: 10/24/00 Time: 1103

Lab File ID: >S1325 Init. Calib. Date(s): 10/10/00 _____

Init. Calib. Times: 1137 1425

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	1.573	1.560		-0.8	20.0
bis(2-Chloroethyl)ether	1.082	1.113		2.9	
2-Chlorophenol	1.270	1.316		3.6	
1,3-Dichlorobenzene	1.355	1.416		4.5	
1,4-Dichlorobenzene	1.367	1.436		5.0	20.0
Benzyl alcohol	0.579	0.489		-15.5	
1,2-Dichlorobenzene	1.222	1.317		7.8	
2-Methylphenol	0.970	0.986		1.6	
2,2'-oxybis(1-Chloropropane)	2.058	2.166		5.2	
4-Methylphenol	1.042	1.037		-0.5	
N-Nitroso-di-n-propylamine	0.914	0.918	0.050	0.4	
Hexachloroethane	0.572	0.591		3.3	
Nitrobenzene	0.403	0.412		2.2	
Isophorone	0.700	0.705		0.7	
2-Nitrophenol	0.222	0.225		1.4	20.0
2,4-Dimethylphenol	0.322	0.328		1.9	
Benzoic acid	0.245	0.242		-1.2	
bis(2-Chloroethoxy)methane	0.451	0.453		0.4	
2,4-Dichlorophenol	0.297	0.311		4.7	20.0
1,2,4-Trichlorobenzene	0.303	0.317		4.6	
Naphthalene	0.891	0.924		3.7	
4-Chloroaniline	0.398	0.409		2.8	
Hexachlorobutadiene	0.159	0.169		6.3	20.0
4-Chloro-3-methylphenol	0.285	0.281		-1.4	20.0
2-Methylnaphthalene	0.471	0.496		5.3	
Hexachlorocyclopentadiene	0.297	0.294	0.050	-1.0	
2,4,6-Trichlorophenol	0.418	0.424		1.4	20.0
2,4,5-Trichlorophenol	0.455	0.448		-1.5	
2-Chloronaphthalene	1.144	1.094		-4.4	
2-Nitroaniline	0.459	0.448		-2.4	
Dimethylphthalate	1.432	1.404		-2.0	
Acenaphthylene	1.783	1.875		5.2	
2,6-Dinitrotoluene	0.353	0.361		2.3	
3-Nitroaniline	0.374	0.359		-4.0	
Acenaphthene	1.107	1.110		0.3	20.0
2,4-Dinitrophenol	0.231	0.199	0.050	-13.8	
4-Nitrophenol	0.173	0.174	0.050	0.6	

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Instrument ID: HP5972S Calibration Date: 10/24/00 Time: 1103

Lab File ID: >S1325 Init. Calib. Date(s): 10/10/00 _____

Init. Calib. Times: 1137 1425

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dibenzofuran	1.499	1.564		4.3	
2,4-Dinitrotoluene	0.499	0.465		-6.8	
Diethylphthalate	1.414	1.392		-1.6	
4-Chlorophenyl-Phenyl Ether	0.472	0.525		11.2	
Fluorene	1.016	1.089		7.2	
4-Nitroaniline	0.402	0.374		-7.0	
4,6-Dinitro-2-methylphenol	0.170	0.170		0.0	
N-Nitrosodiphenylamine	0.526	0.566		7.6	20.0
4-Bromophenyl-phenylether	0.209	0.220		5.3	
Hexachlorobenzene	0.242	0.261		7.8	
Pentachlorophenol	0.139	0.137		-1.4	20.0
Phenanthrene	0.948	0.959		1.2	
Anthracene	0.973	1.000		2.8	
Carbazole	0.911	0.919		0.9	
Di-n-butylphthalate	1.280	1.313		2.6	
Fluoranthene	0.868	0.857		-1.3	20.0
Pyrene	1.305	1.363		4.4	
Butylbenzylphthalate	0.742	0.761		2.6	
3,3'-Dichlorobenzidine	0.344	0.322		-6.4	
Benzo(a)anthracene	0.947	0.923		-2.5	
Chrysene	0.888	0.947		6.6	
bis(2-Ethylhexyl)phthalate	0.957	1.019		6.5	
Di-n-octylphthalate	1.975	2.119		7.3	20.0
Benzo(b)fluoranthene	1.146	1.117		-2.5	
Benzo(k)fluoranthene	0.953	1.126		18.2	
Benzo(a)pyrene	1.024	1.047		2.2	20.0
Indeno(1,2,3-cd)pyrene	1.319	1.166		-11.6	
Dibenz(a,h)anthracene	1.020	0.973		-4.6	
Benzo(g,h,i)perylene	1.325	1.069		-19.3	
Cyclohexanone	0.855	0.997		16.6	
Nitrobenzene-D5	0.399	0.405		1.5	
2-Fluorobiphenyl	1.260	1.292		2.5	
Terphenyl-D14	0.929	0.991		6.7	
Phenol-D5	1.380	1.527		10.6	
2-Fluorophenol	1.183	1.197		1.2	
2,4,6-Tribromophenol	0.227	0.231		1.8	

(1) Cannot be separated from Diphenylamine

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Lab File ID: (Standard): >S1306 Date Analyzed:10/23/00

Instrument ID: HP5972S Time Analyzed:1221

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	131008	8.56	463557	11.52	211717	15.51
	UPPER LIMIT	262016	9.06	927114	12.02	423434	16.01
	LOWER LIMIT	65504	8.06	231778	11.02	105858	15.01
	EPA SAMPLE NO.						
01	SBLKSS	124193	8.55	435426	11.52	218100	15.50
02	SBLKSSFMS	127951	8.56	445954	11.53	203194	15.51
03	SW-01	126700	8.56	450799	11.52	223325	15.50
04	SW-10	128317	8.56	456608	11.52	225287	15.50
05	SW-02	129728	8.56	459884	11.52	224425	15.51
06	SW-03	133617	8.56	468697	11.52	226277	15.51
07	SW-04	130149	8.56	457031	11.52	225354	15.51
08	SW-05	137374	8.56	472562	11.52	226367	15.51
09	SW-06	133055	8.56	468425	11.52	232589	15.51
10							
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21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-1

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Lab File ID: (Standard): >S1306 Date Analyzed:10/23/00

Instrument ID: HP5972S Time Analyzed:1221

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	329199	18.57	220936	24.00	168587	26.73
	UPPER LIMIT	658398	19.07	441872	24.50	337174	27.23
	LOWER LIMIT	164600	18.07	110468	23.50	84294	26.23
	EPA SAMPLE NO.						
01	SBLKSS	350148	18.57	267605	24.00	223309	26.73
02	SBLKSSFMS	312869	18.58	194475	24.00	159764	26.73
03	SW-01	355061	18.57	254378	24.00	192211	26.73
04	SW-10	352050	18.57	247886	24.00	186297	26.73
05	SW-02	353789	18.57	240634	24.00	182318	26.73
06	SW-03	357467	18.57	236911	24.00	179488	26.73
07	SW-04	356833	18.57	252142	24.00	192503	26.73
08	SW-05	336844	18.57	216106	24.00	167012	26.73
09	SW-06	361621	18.57	248297	24.00	188518	26.73
10							
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21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-2

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Lab File ID: (Standard): >S1325 Date Analyzed:10/24/00

Instrument ID: HP5972S Time Analyzed:1103

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	141080	8.50	493790	11.48	225250	15.45
	UPPER LIMIT	282160	9.00	987580	11.98	450500	15.95
	LOWER LIMIT	70540	8.00	246895	10.98	112625	14.95
	EPA SAMPLE NO.						
01	SW-07	136518	8.51	468613	11.47	226017	15.46
02	SW-09	138787	8.50	488743	11.47	232857	15.45
03	SW-09MS	136444	8.51	496077	11.47	234503	15.46
04	SW-09MSD	140294	8.51	499333	11.48	235326	15.46
05	FIELD BLANK	138004	8.51	485795	11.47	233442	15.45
06	SW-08	138774	8.50	473700	11.47	224276	15.45
07							
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20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-1

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2279A SAS No.: _____ SDG No.: A2279

Lab File ID: (Standard): >S1325 Date Analyzed:10/24/00

Instrument ID: HP5972S Time Analyzed:1103

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	344773	18.52	213626	23.94	156262	26.66
	UPPER LIMIT	689546	19.02	427252	24.44	312524	27.16
	LOWER LIMIT	172386	18.02	106813	23.44	78131	26.16
	EPA SAMPLE NO.						
01	SW-07	331538	18.52	209696	23.94	153765	26.66
02	SW-09	352273	18.52	223317	23.94	163223	26.66
03	SW-09MS	353433	18.52	222031	23.95	160907	26.66
04	SW-09MSD	357978	18.52	225387	23.94	163844	26.67
05	FIELD BLANK	363477	18.52	236418	23.94	173646	26.66
06	SW-08	309593	18.52	170974	23.94	142500	26.67
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20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-2

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

SOW No.: ILM04.0

Field Sample ID	Lab Sample ID.
SW-01	F002279A-01
SW-10	F002279A-02
SW-02	F002279A-03
SW-03	F002279A-04
SW-04	F002279A-05
SW-05	F002279A-06
SW-06	F002279A-07
SW-07	F002279A-08
SW-08	F002279A-09
SW-09D	F002279A-10D
SW-09S	F002279A-10S
SW-09	F002279A-10
FIELD BLANK	F002279A-11
SW-01	T002279A-01
SW-10	T002279A-02
SW-02	T002279A-03
SW-03	T002279A-04
SW-04	T002279A-05
SW-05	T002279A-06
SW-06	T002279A-07

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Daniel W. Helfield Name: Daniel W. Helfield

Date: 10/27/00 Title: Group Leader

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

SOW No.: ILM04.0

Field Sample ID	Lab Sample ID.
SW-07	T002279A-08
SW-08	T002279A-09
SW-09D	T002279A-10D
SW-09S	T002279A-10S
SW-09	T002279A-10
FIELD BLANK	T002279A-11

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: [signature] Name: Daniel W. Holfield

Date: 10/27/00 Title: Complex

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-01

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix (soil/water): WATER Lab Sample ID: F002279A-01

Level (low/med): LOW Date Received: 10/11/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-10

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix (soil/water): WATER Lab Sample ID: F002279A-02

Level (low/med): LOW Date Received: 10/11/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-02

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix (soil/water): WATER Lab Sample ID: F002279A-03

Level (low/med): LOW Date Received: 10/11/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-03

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix (soil/water): WATER Lab Sample ID: F002279A-04

Level (low/med): LOW Date Received: 10/11/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-04

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix (soil/water): WATER Lab Sample ID: F002279A-05

Level (low/med): LOW Date Received: 10/11/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-05

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix (soil/water): WATER Lab Sample ID: F002279A-06

Level (low/med): LOW Date Received: 10/11/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-06

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix (soil/water): WATER Lab Sample ID: F002279A-07

Level (low/med): LOW Date Received: 10/11/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-07

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix (soil/water): WATER Lab Sample ID: F002279A-08

Level (low/med): LOW Date Received: 10/11/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-08

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix (soil/water): WATER Lab Sample ID: F002279A-09

Level (low/med): LOW Date Received: 10/11/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-09

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix (soil/water): WATER Lab Sample ID: F002279A-10

Level (low/med): LOW Date Received: 10/11/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

FIELD BLANK

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix (soil/water): WATER Lab Sample ID: F002279A-11

Level (low/med): LOW Date Received: 10/11/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-01

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix (soil/water): WATER Lab Sample ID: T002279A-01

Level (low/med): LOW Date Received: 10/11/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	1.5	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-10

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix (soil/water): WATER Lab Sample ID: T002279A-02

Level (low/med): LOW Date Received: 10/11/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	1.5	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-02

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix (soil/water): WATER Lab Sample ID: T002279A-03

Level (low/med): LOW Date Received: 10/11/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-03

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix (soil/water): WATER Lab Sample ID: T002279A-04

Level (low/med): LOW Date Received: 10/11/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	8.4	B		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	1.2	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	3.9			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-04

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix (soil/water): WATER Lab Sample ID: T002279A-05

Level (low/med): LOW Date Received: 10/11/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	31.3	B		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	10.0			P
7440-39-3	Barium	29.8	B		P
7440-41-7	Beryllium	0.50	U		P
7440-43-9	Cadmium	0.68	B		P
7440-70-2	Calcium	42900			P
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	6.1	B		P
7439-89-6	Iron	800.			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	6330			P
7439-96-5	Manganese	330.			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.5	U		P
7440-09-7	Potassium	7670			P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	41300			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	230.			P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-05

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix (soil/water): WATER Lab Sample ID: T002279A-06

Level (low/med): LOW Date Received: 10/11/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	8.2	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	34.1			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-06

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix (soil/water): WATER Lab Sample ID: T002279A-07

Level (low/med): LOW Date Received: 10/11/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	4.1			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-07

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix (soil/water): WATER Lab Sample ID: T002279A-08

Level (low/med): LOW Date Received: 10/11/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.6	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-08

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix (soil/water): WATER Lab Sample ID: T002279A-09

Level (low/med): LOW Date Received: 10/11/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	6.6	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	17.2			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-09

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix (soil/water): WATER Lab Sample ID: T002279A-10

Level (low/med): LOW Date Received: 10/11/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	55.9	B		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	9.3	B		P
7440-39-3	Barium	25.5	B		P
7440-41-7	Beryllium	0.50	U		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	35300			P
7440-47-3	Chromium	1.7	B		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	6.7	B		P
7439-89-6	Iron	1140			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	5290			P
7439-96-5	Manganese	266.			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.5	U		P
7440-09-7	Potassium	6500			P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	36000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	182.			P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: OPAQUE Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

FIELD BLANK

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix (soil/water): WATER Lab Sample ID: T002279A-11

Level (low/med): LOW Date Received: 10/11/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	20.9	B		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium	5.6	B		P
7440-41-7	Beryllium	0.50	U		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	14500			P
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	1.4	B		P
7439-89-6	Iron	84.4	B		P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	1650	B		P
7439-96-5	Manganese	8.5	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.5	U		P
7440-09-7	Potassium	369.	B		P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	1220	B		P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	7.9	B		P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2279

Initial Calibration Source: INORG. VENT.

Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum	11000.0	11100.09	100.9	5500.0	5550.05	100.9	5496.34	99.9	P
Antimony	1000.0	1020.68	102.1	500.0	504.32	100.9	502.10	100.4	P
Arsenic	1000.0	1020.43	102.0	500.0	512.87	102.6	509.31	101.9	P
Barium	1000.0	1000.41	100.0	500.0	500.96	100.2	499.23	99.8	P
Beryllium	1000.0	1035.02	103.5	500.0	519.90	104.0	518.34	103.7	P
Cadmium	1000.0	1013.68	101.4	500.0	510.35	102.1	505.60	101.1	P
Calcium	27000.0	27643.76	102.4	19800.0	20082.62	101.4	19872.64	100.4	P
Chromium	1000.0	1007.16	100.7	500.0	506.55	101.3	504.16	100.8	P
Cobalt	1000.0	999.30	99.9	500.0	503.26	100.6	501.43	100.3	P
Copper	1000.0	995.16	99.5	500.0	499.36	99.9	499.91	100.0	P
Iron	11000.0	11071.11	100.6	5500.0	5571.04	101.3	5532.54	100.6	P
Lead	1000.0	1016.99	101.7	500.0	512.20	102.4	506.41	101.3	P
Magnesium	27000.0	27315.46	101.2	19800.0	19879.29	100.4	19737.05	99.7	P
Manganese	1000.0	996.15	99.6	500.0	502.89	100.6	503.14	100.6	P
Mercury	5.0	5.09	101.8	5.0	5.09	101.8	5.10	102.0	CV
Nickel	1000.0	976.51	97.6	500.0	492.29	98.4	490.51	98.1	P
Potassium	20000.0	20870.78	104.4	10000.0	9571.01	95.7	9485.14	94.8	P
Selenium	1000.0	1042.17	104.2	500.0	522.91	104.6	518.64	103.7	P
Silver	100.0	101.70	101.7	50.0	50.87	101.8	51.00	102.0	P
Sodium	27000.0	26884.90	99.6	19800.0	20516.62	103.6	20416.47	103.1	P
Thallium	1000.0	1054.85	105.5	500.0	525.71	105.1	532.02	106.4	P
Vanadium	1000.0	1034.37	103.4	500.0	517.45	103.5	514.45	102.9	P
Zinc	1000.0	1026.34	102.6	500.0	516.86	103.4	509.66	101.9	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110 ; Cyanide 85-115;

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2279

Initial Calibration Source: INORG. VENT.

Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum				5500.0	5591.32	101.7	5584.78	101.5	P
Antimony				500.0	511.34	102.3	513.31	102.7	P
Arsenic				500.0	518.55	103.7	515.39	103.1	P
Barium				500.0	503.25	100.6	503.25	100.6	P
Beryllium				500.0	528.09	105.6	525.56	105.1	P
Cadmium				500.0	517.34	103.5	511.61	102.3	P
Calcium				19800.0	20290.94	102.5	20114.46	101.6	P
Chromium				500.0	513.37	102.7	510.73	102.1	P
Cobalt				500.0	511.31	102.3	508.09	101.6	P
Copper				500.0	505.22	101.0	507.58	101.5	P
Iron				5500.0	5629.91	102.4	5598.26	101.8	P
Lead				500.0	519.07	103.8	514.68	102.9	P
Magnesium				19800.0	20296.08	102.5	20099.85	101.5	P
Manganese				500.0	511.37	102.3	509.89	102.0	P
Mercury				5.0	5.04	100.8	5.02	100.4	CV
Nickel				500.0	501.69	100.3	496.23	99.2	P
Potassium				10000.0	9709.47	97.1	9815.35	98.2	P
Selenium				500.0	533.23	106.6	532.44	106.5	P
Silver				50.0	51.36	102.7	50.77	101.5	P
Sodium				19800.0	20635.99	104.2	20612.62	104.1	P
Thallium				500.0	528.12	105.6	524.35	104.9	P
Vanadium				500.0	521.93	104.4	519.59	103.9	P
Zinc				500.0	524.42	104.9	514.71	102.9	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110 ; Cyanide 85-115;

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2279

Initial Calibration Source: INORG. VENT.

Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum				5500.0	5566.25	101.2	5297.13	96.3	P
Antimony				500.0	507.72	101.5	503.38	100.7	P
Arsenic				500.0	516.99	103.4	487.31	97.5	P
Barium				500.0	504.03	100.8	477.68	95.5	P
Beryllium				500.0	522.99	104.6	496.05	99.2	P
Cadmium				500.0	510.37	102.1	482.08	96.4	P
Calcium				19800.0	20020.25	101.1	19021.02	96.1	P
Chromium				500.0	508.78	101.8	481.67	96.3	P
Cobalt				500.0	507.27	101.4	479.31	95.9	P
Copper				500.0	505.33	101.1	478.98	95.8	P
Iron				5500.0	5590.46	101.6	5287.57	96.1	P
Lead				500.0	510.28	102.0	490.43	98.1	P
Magnesium				19800.0	19968.12	100.8	18850.74	95.2	P
Manganese				500.0	507.93	101.6	481.03	96.2	P
Mercury				5.0	5.15	103.0	5.10	102.0	CV
Nickel				500.0	495.44	99.1	467.45	93.5	P
Potassium				10000.0	9617.58	96.2	9658.90	96.6	P
Selenium				500.0	527.94	105.6	508.21	101.6	P
Silver				50.0	51.45	102.9	48.15	96.3	P
Sodium				19800.0	20465.03	103.4	19475.90	98.4	P
Thallium				500.0	529.01	105.8	489.33	97.9	P
Vanadium				500.0	519.25	103.8	492.04	98.4	P
Zinc				500.0	514.31	102.9	486.08	97.2	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110 ; Cyanide 85-115;

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2279

Initial Calibration Source: INORG. VENT.

Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury				5.0	4.99	99.8	4.97	99.4	CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110 ; Cyanide 85-115;

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2279

AA CRDL Standard Source: INORG. VENT.

ICP CRDL Standard Source: INORG. VENT.

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R(1)	True	Initial Found	%R(1)	Final Found	%R(1)
Aluminum								
Antimony				120.0	126.40	105.3	128.44	107.0
Arsenic				~~5.0~~	21.45	~~429.1~~	18.77	~~375.6~~
Barium					~~[illegible]~~	107.2		93.7
Beryllium				10.0	10.29	102.9	10.45	104.5
Cadmium				10.0	10.67	106.7	10.54	105.4
Calcium								
Chromium				20.0	20.49	102.5	20.65	103.3
Cobalt				100.0	102.20	102.2	103.59	103.6
Copper				50.0	51.17	102.3	51.93	103.9
Iron								
Lead				~~4.0~~	7.05	~~176.4~~	4.54	~~113.6~~
Magnesium						117.7		75.7
Manganese				30.0	30.93	103.1	32.35	107.9
Mercury								
Nickel				80.0	80.38	100.5	82.56	103.2
Potassium								
Selenium				10.0	9.68	96.8	9.56	95.6
Silver				20.0	20.82	104.1	20.95	104.8
Sodium								
Thallium				20.0	17.88	89.4	19.30	96.5
Vanadium				100.0	103.24	103.2	104.19	104.2
Zinc				40.0	39.78	99.5	40.79	102.0
Cyanide								

U.S. EPA - CLP

3
BLANKS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2279

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	10.0	U	14.1	B	10.0	U	10.2	B	10.000	U	P
Antimony	5.0	U	5.0	U	5.3	B	5.0	U	5.000	U	P
Arsenic	2.5	U	2.5	U	2.5	U	2.5	U	2.500	U	P
Barium	0.5	U	0.5	U	0.5	U	0.5	U	0.500	U	P
Beryllium	0.5	U	0.5	U	0.5	U	0.5	U	0.500	U	P
Cadmium	0.5	U	0.5	U	0.5	U	0.5	U	0.500	U	P
Calcium	10.0	U	10.0	U	10.0	U	10.0	U	10.000	U	P
Chromium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Cobalt	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Copper	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Iron	10.0	U	10.0	U	10.0	U	10.0	U	10.000	U	P
Lead	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Magnesium	10.0	U	10.2	B	10.0	U	10.0	U	10.000	U	P
Manganese	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.100	U	CV
Nickel	1.5	U	1.5	U	1.5	U	1.5	U	1.500	U	P
Potassium	200.0	U	200.0	U	200.0	U	200.0	U	200.000	U	P
Selenium	5.0	U	5.0	U	5.0	U	5.0	U	5.000	U	P
Silver	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Sodium	20.0	U	20.0	U	20.0	U	20.0	U	20.000	U	P
Thallium	6.0	U	6.0	U	6.0	U	6.0	U	6.000	U	P
Vanadium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Zinc	5.0	U	5.0	U	5.0	U	5.0	U	5.000	U	P
Cyanide											NR

U.S. EPA - CLP

3
BLANKS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2279

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			10.0	U	12.8	B	23.1	B			P
Antimony			5.0	U	5.0	U	5.0	U			P
Arsenic			2.5	U	-2.8	B	2.5	U			P
Barium			0.5	U	0.5	U	0.5	U			P
Beryllium			0.5	U	0.5	U	0.5	U			P
Cadmium			0.5	U	0.5	U	0.5	U			P
Calcium			10.0	U	10.0	U	10.0	U			P
Chromium			1.0	U	1.0	U	1.0	U			P
Cobalt			1.0	U	1.0	U	1.0	U			P
Copper			1.0	U	1.0	U	1.0	U			P
Iron			10.0	U	10.0	U	10.0	U			P
Lead			2.0	U	2.0	U	2.0	U			P
Magnesium			10.0	U	10.0	U	10.1	B			P
Manganese			1.0	U	1.0	U	1.0	U			P
Mercury			0.1	U	0.1	U	0.1	U			CV
Nickel			1.5	U	1.5	U	1.5	U			P
Potassium			200.0	U	200.0	U	200.0	U			P
Selenium			5.0	U	5.0	U	5.0	U			P
Silver			1.0	U	1.0	U	1.0	U			P
Sodium			20.0	U	20.0	U	20.0	U			P
Thallium			6.5	B	6.0	U	6.0	U			P
Vanadium			1.0	U	1.0	U	1.0	U			P
Zinc			5.0	U	5.0	U	5.0	U			P
Cyanide											NR

U.S. EPA - CLP

3
BLANKS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2279

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury			0.1	U	0.1	U					CV
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

U.S. EPA - CLP

4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2279

ID Number: JA61 ICS Source: EPA-LV87

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	Final Found Sol. AB	%R
Aluminum	500000	500000	556442	545629.9	109.1	555579	536645.4	107.3
Antimony		600	7	673.1	112.1	7	661.5	110.2
Arsenic		100	-3	106.4	106.4	-4	102.8	102.8
Barium		500	2	549.9	109.9	2	538.4	107.6
Beryllium		500	0	542.5	108.5	0	533.7	106.7
Cadmium		1000	2	1012.1	101.2	1	988.5	98.8
Calcium	500000	500000	519978	511450.3	102.2	516239	499683.6	99.9
Chromium		500	2	515.5	103.1	1	505.9	101.1
Cobalt		500	-5	507.5	101.5	-5	498.7	99.7
Copper		500	-4	556.5	111.3	-4	548.9	109.7
Iron	200000	200000	204142	200986.3	100.4	203760	197526.1	98.7
Lead		50	-13	38.3	76.6	-13	36.0	72.1
Magnesium	500000	500000	567155	555540.9	111.1	567834	545166.7	109.0
Manganese		500	-4	511.2	102.2	-4	504.2	100.8
Mercury								
Nickel		1000	1	984.3	98.4	1	967.4	96.7
Potassium			239	189.2		234	151.4	
Selenium		50	-5	51.3	102.7	-5	55.0	110.0
Silver		200	0	227.8	113.9	-1	224.2	112.1
Sodium			28	29.4		72	34.6	
Thallium		100	-5	111.0	111.0	1	107.8	107.8
Vanadium		500	-1	532.8	106.5	-1	522.7	104.5
Zinc		1000	0	1022.7	102.2	2	996.5	99.6
Cyanide								

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SW-09S

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix: WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic	75-125	47.9868		2.5000	U	40.00	120.0		P
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:
Filtered Metals

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SW-09S

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix: WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	1991.3190		55.9211	B	2000.00	96.8		P
Antimony	75-125	492.7794		5.0000	U	500.00	98.6		P
Arsenic	75-125	50.1328		9.3049	B	40.00	102.1		P
Barium	75-125	1921.7100		25.5163	B	2000.00	94.8		P
Beryllium	75-125	49.8860		0.5000	U	50.00	99.8		P
Cadmium	75-125	5.1019		0.5000	U	5.00	102.0		P
Calcium				35309.8300		0.00	0.0		P
Chromium	75-125	190.1060		1.7089	B	200.00	94.2		P
Cobalt	75-125	469.9694		1.0000	U	500.00	94.0		P
Copper	75-125	244.6013		6.6872	B	250.00	95.2		P
Iron	75-125	2160.2210		1138.7330		1000.00	102.1		P
Lead	75-125	21.3897		2.0000	U	20.00	106.9		P
Magnesium				5291.7070		0.00	0.0		P
Manganese	75-125	732.1034		265.9295		500.00	93.2		P
Mercury	75-125	0.9340		0.1000	U	1.00	93.4		CV
Nickel	75-125	467.4199		1.5000	U	500.00	93.5		P
Potassium				6500.6880		0.00	0.0		P
Selenium	75-125	12.3419		5.0000	U	10.00	123.4		P
Silver	75-125	47.2366		1.0000	U	50.00	94.5		P
Sodium				35961.0500		0.00	0.0		P
Thallium	75-125	45.6001		6.0000	U	50.00	91.2		P
Vanadium	75-125	476.7675		1.0000	U	500.00	95.4		P
Zinc	75-125	656.4279		182.5540		500.00	94.8		P
Cyanide									NR

Comments:
Total Metals

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

SW-09D

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix: WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic		2.5000	U	2.5000	U			P
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead								NR
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide								NR

Filtered Metals

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

SW-09D

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix: WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		55.9211	B	60.0012	B	7.0		P
Antimony		5.0000	U	5.0000	U			P
Arsenic		9.3049	B	8.8852	B	4.6		P
Barium		25.5163	B	25.2141	B	1.2		P
Beryllium		0.5000	U	0.5000	U			P
Cadmium		0.5000	U	0.5000	U			P
Calcium		35309.8300		35512.8300		0.6		P
Chromium		1.7089	B	2.2196	B	26.0		P
Cobalt		1.0000	U	1.0000	U			P
Copper		6.6872	B	7.0785	B	5.7		P
Iron		1138.7330		1163.8580		2.2		P
Lead		2.0000	U	2.0000	U			P
Magnesium	.0	5291.7070		5326.9310		0.7		P
Manganese		265.9295		267.9761		0.8		P
Mercury		0.1000	U	0.1000	U			CV
Nickel		1.5000	U	1.8255	B	200.0		P
Potassium	.0	6500.6880		6504.2190				P
Selenium		5.0000	U	5.0000	U			P
Silver		1.0000	U	1.0000	U			P
Sodium		35961.0500		36015.7200		0.2		P
Thallium		6.0000	U	6.0000	U			P
Vanadium		1.0000	U	1.0000	U			P
Zinc		182.5540		179.0873		1.9		P
Cyanide								NR

Total Metals

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7

LABORATORY CONTROL SAMPLE

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2279

Solid LCS Source: _____

Aqueous LCS Source: INORG. VENT.

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	3000.0	2793.64	93.1						
Antimony	1000.0	977.66	97.8						
Arsenic	1000.0	971.73	97.2						
Barium	300.0	286.80	95.6						
Beryllium	100.0	100.23	100.2						
Cadmium	300.0	284.23	94.7						
Calcium	15000.0	14046.04	93.6						
Chromium	300.0	287.13	95.7						
Cobalt	300.0	288.25	96.1						
Copper	300.0	285.53	95.2						
Iron	12500.0	11649.74	93.2						
Lead	1000.0	962.88	96.3						
Magnesium	7500.0	6984.61	93.1						
Manganese	200.0	189.98	95.0						
Mercury	5.0	5.07	101.4						
Nickel	300.0	285.12	95.0						
Potassium	20000.0	20710.58	103.6						
Selenium	500.0	519.23	103.8						
Silver	300.0	289.71	96.6						
Sodium	2500.0	2325.84	93.0						
Thallium	1000.0	963.08	96.3						
Vanadium	300.0	289.96	96.6						
Zinc	300.0	294.75	98.2						
Cyanide									

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8

STANDARD ADDITION RESULTS

Lab Name: STL Contract: ___________

Lab Code: STL Case No.: _______ SAS No.: _______ SDG No.: A2279

Concentration Units: ug/L

EPA Sample No.	An	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q

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9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

SW-09L

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix(soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum			50.00	U	100.0		P
Antimony			25.82	B			P
Arsenic	2.50	U	12.50	U			P
Barium			139.17	B			P
Beryllium			2.50	U			P
Cadmium			2.50	U			P
Calcium			37751.46				P
Chromium			5.00	U			P
Cobalt			5.00	U			P
Copper			6.06	B	24.9		P
Iron			415.24	B	4.5		P
Lead			10.00	U			P
Magnesium			5666.18	B	0.3		P
Manganese			272.14		0.9		P
Mercury							NR
Nickel			7.50	U			P
Potassium			5312.48	B	24.1		P
Selenium			25.00	U			P
Silver			5.00	U			P
Sodium			35569.85		7.5		P
Thallium			30.00	U			P
Vanadium			5.00	U			P
Zinc			218.93		9.9		P
Cyanide							NR

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9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

SW-09L

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix(soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	55.92	B	106.87	B	91.1		P
Antimony	5.00	U	25.00	U			P
Arsenic	9.30	B	12.50	U	100.0		P
Barium	25.52	B	27.30	B	7.0		P
Beryllium	0.50	U	2.50	U			P
Cadmium	0.50	U	2.50	U			P
Calcium	35309.83		35175.06		0.4		P
Chromium	1.71	B	5.00	U	100.0		P
Cobalt	1.00	U	5.00	U			P
Copper	6.69	B	5.37	B	19.7		P
Iron	1138.73		1138.17				P
Lead	2.00	U	10.00	U			P
Magnesium	5291.71		5269.02	B	0.4		P
Manganese	265.93		267.88		0.7		P
Mercury							NR
Nickel	1.50	U	7.50	U			P
Potassium	6500.69		4875.75	B	25.0		P
Selenium	5.00	U	25.00	U			P
Silver	1.00	U	5.00	U			P
Sodium	35961.05		32802.46		8.8		P
Thallium	6.00	U	30.00	U			P
Vanadium	1.00	U	5.00	U			P
Zinc	182.55		179.24		1.8		P
Cyanide							NR

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10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2279

ICP ID Number: JA61 Date: 10/01/00

Flame AA ID Number: _____

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	208.20		200.0	10.0	P
Antimony	206.83		60.0	5.0	P
Arsenic	193.60		10.0	2.5	P
Barium	493.40		200.0	.5	P
Beryllium	234.86		5.0	.5	P
Cadmium	228.80		5.0	.5	P
Calcium	317.93		5000.0	10.0	P
Chromium	267.70		10.0	1.0	P
Cobalt	228.61		50.0	1.0	P
Copper	324.75		25.0	1.0	P
Iron	271.44		100.0	10.0	P
Lead	220.35		3.0	2.0	P
Magnesium	279.07		5000.0	10.0	P
Manganese	257.61		15.0	1.0	P
Mercury			.2		
Nickel	231.60		40.0	1.5	P
Potassium	766.49		5000.0	200.0	P
Selenium	196.02		5.0	5.0	P
Silver	328.06		10.0	1.0	P
Sodium	589.59		5000.0	20.0	P
Thallium	189.90		10.0	6.0	P
Vanadium	292.40		50.0	1.0	P
Zinc	213.85		20.0	5.0	P

Comments:

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2279

ICP ID Number: _____ Date: 10/01/00

Flame AA ID Number: HG4

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		
Antimony			60.0		
Arsenic			10.0		
Barium			200.0		
Beryllium			5.0		
Cadmium			5.0		
Calcium			5000.0		
Chromium			10.0		
Cobalt			50.0		
Copper			25.0		
Iron			100.0		
Lead			3.0		
Magnesium			5000.0		
Manganese			15.0		
Mercury	253.70		.2	.1	CV
Nickel			40.0		
Potassium			5000.0		
Selenium			5.0		
Silver			10.0		
Sodium			5000.0		
Thallium			10.0		
Vanadium			50.0		
Zinc			20.0		

Comments:

U.S. EPA - CLP

11A
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2279

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : Al	Ca	Fe	Mg	Ag
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic						
Barium	493.40	0.0000000	2.3516000	0.0000000	0.0000000	0.0000000
Beryllium	234.86	0.0000000	-2.1540000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	-.0014590	1.1105000	0.0000000	0.0000000	0.0000000
Calcium	317.93	.0086205	0.0000000	0.0000000	.0081618	0.0000000
Chromium	267.70	.0018652		-.0011680	-3.0940000	0.0000000
Cobalt	228.61	0.0000000		.0060000	-13.4160000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	-.4786330
Iron	271.44	.0033661	0.0000000	0.0000000	-.0291150	0.0000000
Lead	220.35	0.0000000	1.9097000	0.0000000	0.0000000	0.0000000
Magnesium	279.07	.0071408	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	-.1392250	.5557496
Mercury						
Nickel	231.60	-.0027450	3.1950000	0.0000000	0.0000000	-.1560630
Potassium	766.49	-.0079430	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.06	0.0000000		0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000		0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	0.0000000	0.0000000	-.0040180	0.0000000	.4159166
Zinc	213.85	.0009443	8.7485000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2279

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : As	B	Ba	Be	Cd
Aluminum	308.21	3.9599940	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	.2221185	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic						
Barium	493.40	0.0000000	0.0000000	0.0000000	.0020452	0.0000000
Beryllium	234.86	2.2054610	0.0000000	3.3925410	0.0000000	.2991092
Cadmium	228.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	5.8517630	0.0000000
Chromium	267.70	-6.3830600	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.61	-.4015400	0.0000000	0.0000000	.0524210	.2877358
Copper	324.75	0.0000000	-14.5688000	0.0000000	0.0000000	0.0000000
Iron	271.44	-2.8353600	0.0000000	1.2696520	.0123381	-1.7637400
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.07	-1.9608300	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	.7548212	0.0000000	0.0000000	0.0000000	.0286714
Mercury						
Nickel	231.60	-.3004870	0.0000000	0.0000000	-.0254260	1.6268810
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	-1.4987800	0.0000000	0.0000000	.0845908	.0375521
Zinc	213.85	-1.3146900	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2279

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : Co	Cr	Cu	K	Mn
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	.8822868
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic						
Barium	493.40	.4458370	0.0000000	0.0000000	0.0000000	-.1513210
Beryllium	234.86	0.0000000	-.1224680	0.0000000	0.0000000	0.0000000
Cadmium	228.80	-2.0803500	-1.0195500	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	.9515125	0.0000000	0.0000000	0.0000000
Chromium	267.70	1.2502400	0.0000000	0.0000000	0.0000000	-.0417720
Cobalt	228.61	0.0000000	.0772782	0.0000000	0.0000000	-.0267550
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	-5.5184100	0.0000000	2.1567660	0.0000000	-3.4565100
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.07	0.0000000	1.3531870	0.0000000	.6270879	.1854641
Manganese	257.61	0.0000000	-.5727500	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	-.0428020	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	0.0000000	.4646357	-.7459740	0.0000000	-.4539330
Zinc	213.85	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2279

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : Mo	Na	Ni	Pb	Sb
Aluminum	308.21	0.0000000	0.0000000	0.0000000	7.4656990	.4182633
Antimony	206.83	0.0000000	.0959060	5.1763370	1.2997970	0.0000000
Arsenic						
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.86	0.0000000	0.0000000	-.0145800	0.0000000	-1.6234400
Cadmium	228.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	.0105777	0.0000000	0.0000000	-1.3041900
Chromium	267.70	1.5194300	0.0000000	.4416338	-.1202820	7.7030790
Cobalt	228.61	-.0124570	0.0000000	2.2201410	.6915992	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	-3.6280800	0.0000000
Iron	271.44	-1.3566400	0.0000000	.5093932	.5134977	1.1269720
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.07	0.0000000	0.0000000	0.0000000	-.5954890	2.3300000
Manganese	257.61	0.0000000	0.0000000	0.0000000	4.4615890	0.0000000
Mercury						
Nickel	231.60	5.5485240	0.0000000	0.0000000	-.2555120	2.1088370
Potassium	766.49	0.0000000	.1218416	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	.9487286	0.0000000	0.0000000	-1.4936400	-.4668710
Zinc	213.85	0.0000000	0.0000000	0.0000000	0.0000000	-.6141440

Comments:

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11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2279

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : Se	Sn	Ti	Tl	V
Aluminum	308.21	6.2168040	.3024854	0.0000000	0.0000000	0.0000000
Antimony	206.83	3.0897440	-.6053750	0.0000000	0.0000000	0.0000000
Arsenic						
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.86	0.0000000	.6761988	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	1.7640180	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.70	0.0000000	.2208577	.9567213	4.5557730	1.2170310
Cobalt	228.61	2.5668270	.4390100	-.0063100	-6.0023600	0.0000000
Copper	324.75	.0519865	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	-1.8581700	.0754601	0.0000000	0.0000000	0.0000000
Lead	220.35	.9428241	1.1606640	0.0000000	0.0000000	0.0000000
Magnesium	279.07	-.0000450	-.0000240	.0131000	0.0000000	-.0050000
Manganese	257.61	2.4119190	-.3639270	0.0000000	-1.1010300	.9414657
Mercury						
Nickel	231.60	0.0000000	-.7297880	0.0000000	0.0000000	0.0000000
Potassium	766.49	5.3734670	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.06	.5868963	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	3.1253820	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	-.0953390	-.3701520	0.0000000	2.6711040	0.0000000
Zinc	213.85	.1325478	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2279

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : Zn	Zr			
Aluminum	308.21	0.0000000	0.0000000			
Antimony	206.83	-1.0792400	0.0000000			
Arsenic						
Barium	493.40	-.1870990	0.0000000			
Beryllium	234.86	0.0000000	0.0000000			
Cadmium	228.80	0.0000000	0.0000000			
Calcium	317.93	-.4802940	.8045480			
Chromium	267.70	0.0000000	-.0096980			
Cobalt	228.61	-1.6896500	1.0255960			
Copper	324.75	-1.9375200	0.0000000			
Iron	271.44	3.6036430	0.0000000			
Lead	220.35	0.0000000	0.0000000			
Magnesium	279.07	0.0000000	0.0000000			
Manganese	257.61	-.3086080	0.0000000			
Mercury						
Nickel	231.60	-4.4617100	0.0000000			
Potassium	766.49	0.0000000	0.0000000			
Selenium						
Silver	328.06	-1.8535700	0.0000000			
Sodium	589.59	-1.2720500	0.0000000			
Thallium						
Vanadium	292.40	-.1061740	0.0000000			
Zinc	213.85	0.0000000	0.0000000			

Comments:

U.S. EPA - CLP

12
ICP Linear Ranges (Quarterly)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2279

ICP ID Number: JA61 Date: 10/01/00

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	6.00	500000.0	P
Antimony	6.00	10000.0	P
Arsenic	6.00	10000.0	P
Barium	6.00	10000.0	P
Beryllium	6.00	10000.0	P
Cadmium	6.00	10000.0	P
Calcium	6.00	200000.0	P
Chromium	6.00	200000.0	P
Cobalt	6.00	10000.0	P
Copper	6.00	100000.0	P
Iron	6.00	500000.0	P
Lead	6.00	500000.0	P
Magnesium	6.00	500000.0	P
Manganese	6.00	10000.0	P
Mercury			NR
Nickel	6.00	10000.0	P
Potassium	6.00	100000.0	P
Selenium	6.00	10000.0	P
Silver	6.00	10000.0	P
Sodium	6.00	500000.0	P
Thallium	6.00	100000.0	P
Vanadium	6.00	10000.0	P
Zinc	6.00	10000.0	P

Comments:

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13
PREPARATION LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
F002279A-01	10/24/00	100.00	100
F002279A-02	10/24/00	100.00	100
F002279A-03	10/24/00	100.00	100
F002279A-04	10/24/00	100.00	100
F002279A-05	10/24/00	100.00	100
F002279A-06	10/24/00	100.00	100
F002279A-07	10/24/00	100.00	100
F002279A-08	10/24/00	100.00	100
F002279A-09	10/24/00	100.00	100
F002279A-10	10/24/00	100.00	100
F002279A-10D	10/24/00	100.00	100
F002279A-10S	10/24/00	100.00	100
F002279A-11	10/24/00	100.00	100
LCSW1	10/24/00	100.00	100
LCSW2	10/24/00	100.00	100
PBW1	10/24/00	100.00	100
PBW2	10/24/00	100.00	100
T002279A-01	10/24/00	100.00	100
T002279A-02	10/24/00	100.00	100
T002279A-03	10/24/00	100.00	100
T002279A-04	10/24/00	100.00	100
T002279A-05	10/24/00	100.00	100
T002279A-06	10/24/00	100.00	100
T002279A-07	10/24/00	100.00	100
T002279A-08	10/24/00	100.00	100
T002279A-09	10/24/00	100.00	100
T002279A-10	10/24/00	100.00	100
T002279A-10D	10/24/00	100.00	100
T002279A-10S	10/24/00	100.00	100
T002279A-11	10/24/00	100.00	100

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13
PREPARATION LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
002279A-01	10/16/00	25.00	25
002279A-02	10/16/00	25.00	25
002279A-03	10/16/00	25.00	25
002279A-04	10/16/00	25.00	25
002279A-05	10/16/00	25.00	25
002279A-06	10/16/00	25.00	25
002279A-07	10/16/00	25.00	25
002279A-08	10/16/00	25.00	25
002279A-09	10/16/00	25.00	25
002279A-10	10/16/00	25.00	25
002279A-10D	10/16/00	25.00	25
002279A-10S	10/16/00	25.00	25
002279A-11	10/16/00	25.00	25
LCSW1	10/16/00	25.00	25
~~LCSW2~~	10/16/00		25
LCSW3	10/16/00		25
~~LCSW4~~	10/16/00		25
PBW1	10/16/00	25.00	25
~~PBW2~~	10/16/00		25
PBW3	10/16/00		25
~~PBW4~~	10/16/00		25

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14
ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2279

Instrument ID Number: JA61 Method: P

Start Date: 10/25/00 End Date: 10/25/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S1	1.00	1052		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S7	1.00	1057			X	X	X	X	X		X	X	X		X		X		X	X	X	X		X	X	X	
S8	1.00	1102			X	X	X	X	X		X	X	X		X		X		X	X	X	X		X	X	X	
S4	1.00	1106		X		X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
S9	1.00	1110		X						X				X		X							X				
S6	1.00	1113		X						X				X		X							X				
S5	1.00	1116			X															X							
S3	1.00	1119								X				X		X							X				
ICV1	1.00	1119		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CV1	1.00	1124			X															X							
ICB1	1.00	1130		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1135																									
CRI1	1.00	1140			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSAI	1.00	1144		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSABI	1.00	1149		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV1	1.00	1154		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV1	1.00	1159			X															X							
CCB1	1.00	1204		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	5.00	1211																									
ZZZZZZ	5.00	1216																									
ZZZZZZ	5.00	1220																									
ZZZZZZ	5.00	1225																									
ZZZZZZ	5.00	1230																									
ZZZZZZ	5.00	1235																									
ZZZZZZ	5.00	1240																									
ZZZZZZ	5.00	1244																									
ZZZZZZ	5.00	1249																									
ZZZZZZ	5.00	1254																									
CCV2	1.00	1259		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV2	1.00	1304			X															X							
CCB2	1.00	1309		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	5.00	1331																									
LCSW1	1.00	1336		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

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ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2279

Instrument ID Number: JA61 Method: P

Start Date: 10/25/00 End Date: 10/25/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
PBW1	1.00	1341		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T002279A-01	1.00	1345				X					X				X												
F002279A-01	1.00	1350				X																					
T002279A-02	1.00	1355				X					X				X												
F002279A-02	1.00	1400				X																					
T002279A-03	1.00	1405				X					X				X												
F002279A-03	1.00	1409				X																					
T002279A-04	1.00	1414				X					X				X												
CCV3	1.00	1422		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV3	1.00	1427			X															X							
CCB3	1.00	1432		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
F002279A-04	1.00	1437				X																					
T002279A-05	1.00	1442		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
F002279A-05	1.00	1446				X																					
T002279A-06	1.00	1451				X					X				X												
F002279A-06	1.00	1456				X																					
T002279A-07	1.00	1501				X					X				X												
F002279A-07	1.00	1506				X																					
T002279A-08	1.00	1510				X					X				X												
F002279A-08	1.00	1515				X																					
T002279A-09	1.00	1520				X					X				X												
CCV4	1.00	1525		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV4	1.00	1530			X															X							
CCB4	1.00	1534		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
F002279A-09	1.00	1541				X																					
T002279A-10	1.00	1546		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
F002279A-10	1.00	1550				X																					
T002279A-10D	1.00	1555		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T002279A-10S	1.00	1600		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T002279A-10A	1.00	1605																									
T002279A-10L	5.00	1610		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
F002279A-10D	1.00	1614				X																					
F002279A-10S	1.00	1619				X																					

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ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2279

Instrument ID Number: JA61 Method: P

Start Date: 10/25/00 End Date: 10/25/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
F002279A-10A	1.00	1624																									
CCV5	1.00	1629		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV5	1.00	1634			X															X							
CCB5	1.00	1639		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
F002279A-10L	5.00	1643		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T002279A-11	1.00	1648		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
F002279A-11	1.00	1653				X																					
ZZZZZZ	1.00	1658																									
ZZZZZZ	1.00	1703																									
RI2	1.00	1707			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSAF	1.00	1712		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSABF	1.00	1717		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV6	1.00	1722		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV6	1.00	1727			X															X							
CCB6	1.00	1732		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

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14
ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2279

Instrument ID Number: HG4 Method: CV

Start Date: 10/17/00 End Date: 10/17/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	0936																X									
S0	1.00	0937																X									
S1	1.00	0939																X									
S2	1.00	0941																X									
S5	1.00	0943																X									
S1	1.00	0945																X									
ICV1	1.00	0948																X									
ICV1	1.00	0948																X									
ICB1	1.00	0950																X									
ICB2	1.00	0950																X									
CCV1	1.00	0951																X									
CCV5	1.00	0951																X									
CCB1	1.00	0953																X									
CCB4	1.00	0953																X									
ZZZZZZ	1.00	0955																									
ZZZZZZ	1.00	0957																									
ZZZZZZ	1.00	0958																									
ZZZZZZ	1.00	1000																									
ZZZZZZ	1.00	1002																									
ZZZZZZ	1.00	1003																									
ZZZZZZ	1.00	1005																									
ZZZZZZ	1.00	1007																									
PBW1	1.00	1008																X									
PBW2	1.00	1008																X									
LCSW1	1.00	1010																X									
LCSW2	1.00	1010																X									
CCV2	1.00	1012																X									
CCV6	1.00	1012																X									
CCB2	1.00	1014																X									
CCB5	1.00	1014																X									
T002279A-01	1.00	1016																X									
T002279A-02	1.00	1017																X									
T002279A-03	1.00	1019																X									

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ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2279

Instrument ID Number: HG4 Method: CV

Start Date: 10/17/00 End Date: 10/17/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
T002279A-04	1.00	1021																X									
T002279A-05	1.00	1023																X									
T002279A-06	1.00	1024																X									
T002279A-07	1.00	1026																X									
T002279A-08	1.00	1027																X									
T002279A-09	1.00	1029																X									
T002279A-10	1.00	1031																X									
CCV3	1.00	1032																X									
CCV7	1.00	1032																X									
CCB3	1.00	1034																X									
CCB6	1.00	1034																X									
T002279A-10D	1.00	1036																X									
T002279A-10S	1.00	1038																X									
ZZZZZZ	1.00	1040																									
ZZZZZZ	1.00	1041																									
ZZZZZZ	1.00	1043																									
ZZZZZZ	1.00	1045																									
ZZZZZZ	1.00	1046																									
ZZZZZZ	1.00	1048																									
ZZZZZZ	1.00	1050																									
ZZZZZZ	1.00	1051																									
CCV4	1.00	1053																X									
CCV8	1.00	1053																X									
CCB4	1.00	1055																X									
CCB7	1.00	1055																X									
ZZZZZZ	1.00	1057																									
ZZZZZZ	1.00	1059																									
ZZZZZZ	1.00	1100																									
ZZZZZZ	1.00	1102																									
ZZZZZZ	1.00	1104																									
ZZZZZZ	1.00	1106																									
ZZZZZZ	1.00	1107																									
ZZZZZZ	1.00	1109																									

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ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2279

Instrument ID Number: HG4 Method: CV

Start Date: 10/17/00 End Date: 10/17/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1111																									
ZZZZZZ	1.00	1113																									
CCV5	1.00	1115																X									
CCV9	1.00	1115																X									
CCB5	1.00	1117																X									
CCB8	1.00	1117																X									
ZZZZZZ	1.00	1118																									
ZZZZZZ	1.00	1120																									
ZZZZZZ	1.00	1122																									
ZZZZZZ	1.00	1124																									
ZZZZZZ	1.00	1125																									
ZZZZZZ	1.00	1127																									
ZZZZZZ	1.00	1129																									
ZZZZZZ	1.00	1130																									
ZZZZZZ	1.00	1132																									
ZZZZZZ	1.00	1134																									
CCV10	1.00	1136																X									
CCV6	1.00	1136																X									
CCB6	1.00	1138																X									
CCB9	1.00	1138																X									
ZZZZZZ	1.00	1144																									
ZZZZZZ	1.00	1145																									
ZZZZZZ	1.00	1147																									
ZZZZZZ	1.00	1148																									
ZZZZZZ	1.00	1150																									
ZZZZZZ	1.00	1152																									
CCV11	1.00	1154																X									
CCV7	1.00	1154																X									
CCB10	1.00	1156																X									
CCB7	1.00	1156																X									
ZZZZZZ	10.0	1158																									
ZZZZZZ	10.0	1159																									
ZZZZZZ	10.0	1201																									

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2279

Instrument ID Number: HG4 Method: CV

Start Date: 10/17/00 End Date: 10/17/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	10.0	1202																									
T002279A-11	1.00	1204																X									
ZZZZZZ	1.00	1205																									
CCV12	1.00	1207																X									
CCV8	1.00	1207																X									
CCB11	1.00	1211																X									
CCB8	1.00	1211																X									

COVER PAGE - WET CHEM ANALYSES DATA PACKAGE

Lab Name: STL Contract:

Lab Code: STL Case No.: 2279A SAS No.: SDG No.: A2279

SOW No.:

Sample No.	Lab Sample ID
SW-01	002279A-01
SW-10	002279A-02
SW-02	002279A-03
SW-03	002279A-04
SW-04	002279A-05
SW-05	002279A-06
SW-06	002279A-07
SW-07	002279A-08
SW-08	002279A-09
SW-09	002279A-10

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name: Daniel W. Hulkal

Date: 10/12/00 Title: Group Leader

COVER PAGE - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-01

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix (soil/water): WATER Lab Sample ID: 002279A-01

% Solids: 0 Date Received: 10/11/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	5.0	U	mg/L		G

Comments:

FORM I - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-10

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix (soil/water): WATER Lab Sample ID: 002279A-02

% Solids: 0 Date Received: 10/11/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	5.0		mg/L		G

Comments:

FORM I - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-02

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix (soil/water): WATER Lab Sample ID: 002279A-03

% Solids: 0 Date Received: 10/11/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	5.0	U	mg/L		G

Comments:

FORM I - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-03

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix (soil/water): WATER Lab Sample ID: 002279A-04

% Solids: 0 Date Received: 10/11/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	5.0	U	mg/L		G

Comments:

FORM I - WC

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-04

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix (soil/water): WATER Lab Sample ID: 002279A-05

% Solids: 0 Date Received: 10/11/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	5.0	U	mg/L		G

Comments:

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-05

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix (soil/water): WATER Lab Sample ID: 002279A-06

% Solids: 0 Date Received: 10/11/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	18.5		mg/L		G

Comments:

FORM I - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-06

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix (soil/water): WATER Lab Sample ID: 002279A-07

% Solids: 0 Date Received: 10/11/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	9.0		mg/L		G

Comments:

FORM I - WC

1
WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-07

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix (soil/water): WATER Lab Sample ID: 002279A-08

% Solids: 0 Date Received: 10/11/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	6.0		mg/L		G

Comments:

FORM I - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-08

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix (soil/water): WATER Lab Sample ID: 002279A-09

% Solids: 0 Date Received: 10/11/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	46.0		mg/L		G

Comments:

FORM I - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-09

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Matrix (soil/water): WATER Lab Sample ID: 002279A-10

% Solids: 0 Date Received: 10/11/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	5.0		mg/L		G

Comments:

FORM I - WC

WET CHEM ANALYSIS

3
BLANKS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Analyte	Initial Calib. Blank	C	Continuing Calibration Blank 1	C	2	C	3	C	Prepa-ration Blank	C	units	M
TSS									5.0	U	mg/L	G

FORM III - IN ILM03.0

5
DUPLICATES

SAMPLE NO.

SW-09

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

% Solids for Sample: 0 % Solids for Duplicate: 0

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Units	M
TSS	20	5		8		46.2		mg/L	G

FORM V - WC

LABORATORY CONTROL SAMPLE

Lab Name: STL Contract:

Lab Code: STL Case No.: 2279A SAS No.: SDG No.: A2279

Analyte	True	LCS Found	%R	units	LCS Source
TSS	363.7	363	99.8	mg/L	

FORM VI - WC

HOLD TIME REPORT

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2279A SAS No.: _____ SDG No.: A2279

Analyte : TSS

Client Sample ID	Date Received	Date Prepped	Date Analyzed
SW-09	10/11/00	10/15/00	10/15/00 00:00
SW-09	10/11/00	10/15/00	10/15/00 00:00
SW-01	10/11/00	10/15/00	10/15/00 00:00
SW-10	10/11/00	10/15/00	10/15/00 00:00
SW-02	10/11/00	10/15/00	10/15/00 00:00
SW-03	10/11/00	10/15/00	10/15/00 00:00
SW-04	10/11/00	10/15/00	10/15/00 00:00
SW-05	10/11/00	10/15/00	10/15/00 00:00
SW-06	10/11/00	10/15/00	10/15/00 00:00
SW-07	10/11/00	10/15/00	10/15/00 00:00
SW-08	10/11/00	10/15/00	10/15/00 00:00

STL
Committed To Your Success

ORGANICS APPENDIX

U - Indicates that the compound was analyzed for but not detected.

J - Indicates that the compound was analyzed for and determined to be present in the sample. The mass spectrum of the compound meets the identification criteria of the method. The concentration listed is an estimated value, which is less than the specified minimum detection limit but is greater than zero.

B - This flag is used when the analyte is found in the blanks as well as the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of this analyte.

N - Indicates that the compound was analyzed for but not requested as an analyte. Value will not be listed on tabular result sheet.

S - Estimated due to surrogate outliers.

X - Matrix spike compound.

(1) - Cannot be separated.

(2) - Decomposes to azobenzene. Measured and calibrated as azobenzene.

A - This flag indicates that a TIC is a suspected aldol condensation product.

E - Indicates that it exceeds calibration curve range.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

C - Confirmed by GC/MS.

T - Compound present in TCLP blank.

P - This flag is used for a pesticide/aroclor target analyte when there is a greater than 25 percent difference for detected concentrations between the two GC columns (see Form X).

Committed To Your Success

INORGANICS APPENDIX

C - Concentration qualifiers

U - Indicates analyte was not detected at method reporting limit.

B - Indicates analyte result between IDL and contract required detection limit (CRDL)

Q - QC qualifiers

E - Reported value is estimated because of the presence of interference

M - Duplicate injection precision not met

N - Spiked sample recovery not within control limits

S - The reported value was determined by the method of standard additions (MSA)

W - Post-digest spike recovery furnace analysis was out of 85-115 percent control limit, while sample absorbance was less than 50 percent of spike absorbance

* - Duplicate analysis not within control limit

+ - Correlation coefficient for MSA is less than 0.995

M - Method codes

P - ICP

A - Flame AA

F - Furnace AA

CV - Cold vapor AA (manual)

C - Cyanide

NR - Not Required

NC - Not Calculated as per protocols

STATE CERTIFICATIONS

In some instances it may be necessary for environmental data to be reported to a regulatory authority with reference to a certified laboratory. For your convenience, the laboratory identification numbers for the STL-Connecticut laboratory are provided in the following table. Many states certify laboratories for specific parameters or tests within a category (i.e. method 325.2 for wastewater). The information in the following table indicates the lab is certified in a general category of testing such as drinking water or wastewater analysis. The laboratory should be contacted directly if parameter-specific certification information is required.

STL-Connecticut
Certification Summary (as of April 2000)

State	Regulatory Agency	Certification	Lab Number
Connecticut	Department of Health Services	Drinking Water, Wastewater	PH-0497
Maine	Department of Health and Environmental Services	Drinking Water, Wastewater/Solid, Hazardous Waste	CT023
Massachusetts	Department of Environmental Protection	Potable/Non-Potable Water	CT023
New Hampshire	Department of Environmental Services	Drinking Water, Wastewater	2528
New Jersey	Department of Environmental Protection	Drinking Water, Wastewater	46410
New York	Department of Health	CLP, Drinking Water, Wastewater, Solid/ Hazardous Waste	10602
North Carolina	Division of Environmental Management	Wastewater	388
Rhode Island	Department of Health	Chemistry...Non-Potable Water and Wastewater	A43
Washington	Department of Ecology	Wastewater/Hazardous Waste	C231
Wisconsin	Department of Natural Resources	Wastewater	998355710

7000-2279A
ROUX ASSOCIATES-MA
SAMPLE SUMMARY

CLIENT ID	LAB ID	MATRIX	DATE COLLECTED	DATE RECEIVED
SW-01	002279A-01	WATER	10/09/00	10/11/00
SW-10	002279A-02	WATER	10/09/00	10/11/00
SW-02	002279A-03	WATER	10/09/00	10/11/00
SW-03	002279A-04	WATER	10/09/00	10/11/00
SW-04	002279A-05	WATER	10/09/00	10/11/00
SW-05	002279A-06	WATER	10/09/00	10/11/00
SW-06	002279A-07	WATER	10/09/00	10/11/00
SW-07	002279A-08	WATER	10/09/00	10/11/00
SW-08	002279A-09	WATER	10/09/00	10/11/00
SW-09	002279A-10	WATER	10/09/00	10/11/00
SW-09	002279A-10D	WATER	10/09/00	10/11/00
SW-09	002279A-10MS	WATER	10/09/00	10/11/00
W-09	002279A-10MSD	WATER	10/09/00	10/11/00
SW-09	002279A-10S	WATER	10/09/00	10/11/00
FIELD BLANK	002279A-11	WATER	10/09/00	10/11/00

STL CT ANALYTICAL SUMMARY

Client ID: FIELD BLANK, SW-01, SW-02, SW-03, SW-04, SW-05, SW-06, SW-07, SW-08, SW-09, SW-10
Job Number: 7000-2279A

Date: 10/31/100

Qty	Matrix	Analysis	Description
1	None	DISK	Diskette Prep.
8	WATER	AS-SW846	Arsenic
13	WATER	AS-SW846-D	Arsenic (Dissolved)
8	WATER	BNA-8270C-MISC	Miscellaneous Semi-V
5	WATER	BNA-8270C-TCL	TCL Semi-Volatile Or
8	WATER	CR-SW846	Chromium
8	WATER	HG-SW846	Mercury
8	WATER	MET-PREP-ICAP	Metals ICAP Prep
13	WATER	MET-PREP-ICAP-D	Metals ICAP Prep (Di
5	WATER	MET-SW846-TAL	TAL Metals
8	WATER	PB-SW846	Lead
11	WATER	TSS-160.2	Total Suspended Soli

ROUX CHAIN OF CUSTODY

№ 04820 Y

ROUX ASSOCIATES, INC.
Environmental Consulting & Management
1377 MOTOR PARKWAY
ISLANDIA, NEW YORK 11788
(516) 232-2600 FAX (516) 232-9898

ANALYSES

PROJECT NAME: INDUSTRIPLEX

PROJECT NUMBER: 06626M

PROJECT LOCATION: WOBURN, MA

PROJECT MANAGER: Larry McTiernan

SAMPLER(S): Chris Milone

7000-2279A

SAMPLE DESIGNATION / LOCATION		DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	TSS	DISS. As.	TOTAL As, Cr, Pb, Hg	TAL METALS	PAH, Dethylphthalate, 4-methylphenol, bis-2-ethylhexylphthalate, Cyclohexanone	TCL SVOCs + Cyclohexanone	TOTAL BOTTLES	NOTES
SW-01	01	10/9/00	1330	SW	1	1	1		2		5	
SW-10	02		1340		1	1	1		2		5	
SW-02	03		1355		1	1	1		2		5	*PASSED RAD SCREEN → samples received with limited volume
SW-03	04		1415		1	1	1		2		5	→ samples received with limited volume
SW-04	05		1435		1	1		1		2	5	
SW-05	06		1450		1	1	1		2		5	
SW-06	07		1505		1	1	1		2		5	→ samples received with limited volume
SW-07	08		1515		1	1	1		2		5	ML 10-11-00
SW-08	09		1530		1	1	1		2		5	
SW-09	10		1600		1	3		3		6	13	Triple volume for MS/MSD

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
Christopher Milone	ROUX	10/10/00	9:00		Aimee L Cormier	STL	10/10/00	9:00	
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
					Mike M	STL-CT	10-11-00	0915	
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N

DELIVERY METHOD

ANALYTICAL LABORATORY

COMMENTS Samples collected. 10/5/00 – 10/9/00
* 7 day Holding time for SVOC Extraction
** Deliverables for Tier II Data Validation

CHAINOF.CDR 12AUG98

ROUX CHAIN OF CUSTODY

№ 04821 Y

ROUX ASSOCIATES, INC.
Environmental Consulting & Management
1377 MOTOR PARKWAY
ISLANDIA, NEW YORK 11788
(516) 232-2600 FAX (516) 232-9898

ANALYSES

PROJECT NAME: INDUSTRIPLEX

PROJECT NUMBER: 06626M

PROJECT LOCATION: WOBURN, MA

PROJECT MANAGER: Larry McTiernan

SAMPLER(S): Chris Milone

SAMPLE DESIGNATION / LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	Diss. As.	TAL METALS	TCL SVOCs + cyclohexanone				TOTAL BOTTLES	NOTES
Field Blank .11	10/9/00	1630	SW	1	1	2				~~8~~ 4	7000-2279A
											5°C
											PASSED RAD SCREEN

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
Christopher J Milone	ROUX	10/10/00	9:00		Lynn L Camell	STL	10/10/00	9:00	
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
					Mike M	STL-CT	10-11-00	09:15	
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N

DELIVERY METHOD

ANALYTICAL LABORATORY

COMMENTS: Deliverables for Tier II Data Validation.

CHAINOF CDR 12AUG98

FedEx

FedEx Tracking Number 818837632082

Form ID No 0200

From

Date 10/10/

Sender's Name Angie Rev. Phone 978 667-1400

Company STL Billerica

Address 149 Rangeway Rd

Dept./Floor/Suite/Room

City N. Billerica State MA ZIP 01862

Your Internal Billing Reference

To

Recipient's Name Angie Rev. Phone 203 929 14

Company STL Conn

Address 125 Long Hill Cross Rd

We cannot deliver to PO boxes or PO ZIP codes

Dept./Floor/Suite/Room

To "HOLD" at FedEx location print FedEx address here

City Shelton State CT ZIP 06484

8188 3763 2082

4a Express Package Service — *Packages up to 150 lbs.* Delivery commitment may be later in some areas

- [X] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Letter Rate not available. Minimum charge: One pound rate

4b Express Freight Service — *Packages over 150 lbs.* Delivery commitment may be later in some areas

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation

5 Packaging — †Declared value limit $500

- [ ] FedEx Letter*
- [ ] FedEx Pak*
- [X] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling

- [ ] Saturday Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] Sunday Delivery — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [ ] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ kg
- [ ] Cargo Aircraft Only

Dangerous Goods cannot be shipped in FedEx packaging.

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below — [ ] Obtain Recip Acct. No

- [ ] Sender — Acct. No. in Section 1 will be billed
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages	Total Weight	Total Declared Value†	Total Charges
1	50 lbs	$ .00	

†Our liability is limited to $100 unless you declare a higher value. See back for details.

Credit Card Auth

8 Release Signature *Sign to authorize delivery without obtaining signature.*

FedEx

FedEx Tracking Number 818837632108

Form ID No 0200

From

Date 10/10/

Sender's Name Angie Rev. Phone 978 667-1400

Company STL Billerica

Address 149 Rangeway Rd.

Dept./Floor/Suite/Room

City N. Billerica State MA ZIP 01862

Your Internal Billing Reference

To

Recipient's Name Angie Rev. Phone 203 929 1410

Company STL Conn

Address 125 Long Hill Cross Rd.

We cannot deliver to PO boxes or PO ZIP codes

Dept./Floor/Suite/Room

To "HOLD" at FedEx location print FedEx address here

City Shelton State CT ZIP 06484

8188 3763 2108

4a Express Package Service — *Packages up to 150 lbs.* Delivery commitment may be later in some areas

- [X] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Letter Rate not available. Minimum charge: One pound rate

4b Express Freight Service — *Packages over 150 lbs.* Delivery commitment may be later in some areas

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation

5 Packaging — †Declared value limit $500

- [ ] FedEx Letter*
- [ ] FedEx Pak*
- [X] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling

- [ ] Saturday Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] Sunday Delivery — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845
- [ ] Cargo Aircraft Only

Dangerous Goods cannot be shipped in FedEx packaging.

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below — [ ] Obtain Recip Acct. No

- [ ] Sender — Acct. No. in Section 1 will be billed
- [X] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages	Total Weight	Total Declared Value†	Total Charges
1	53 lbs	$ .00	

†Our liability is limited to $100 unless you declare a higher value. See back for details.

Credit Card Auth

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Call 1·800·Go·FedEx (800 463 3339)

Visit our Web site at www.fedex.com

GBFE 1199

360

0125

FedEx FedEx Tracking Number 818837632119

Form ID No. 0200

From
Date 10/16/00
Sender's Name Simple Co. Phone 978 667-14
Company TL Billerica
Address 149 Rangeway Rd. Dept./Floor/Suite/Room
City N Billerica State MA ZIP 01862

Your Internal Billing Reference

To
Recipient's Name Simple Co. Phone 203 929-3140
Company TL CONN
Address 128 Long Hill Cross Rd.
We cannot deliver to PO boxes or PO ZIP codes. Dept./Floor/Suite/Room
To "HOLD" at FedEx location, print FedEx address here
City Shelton State CT ZIP 06484

8188 3763 2119

4a Express Package Service — Packages up to 150 lbs. Delivery commitment may be later in some areas
- [x] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Letter Rate not available. Minimum charge: One pound rate

4b Express Freight Service — Packages over 150 lbs. Delivery commitment may be later in some areas
- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation

5 Packaging — * Declared value limit $500
- [ ] FedEx Letter*
- [ ] FedEx Pak*
- [x] Other Pkg. — Includes FedEx Box, FedEx Tube and customer pkg.

6 Special Handling
- [ ] Saturday Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] Sunday Delivery — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked
- [x] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods cannot be shipped in FedEx packaging. [ ] Cargo Aircraft Only

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below. [ ] Obtain Recip Acct. No.
- [ ] Sender — Acct. No. in Section 1 will be billed
- [x] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages	Total Weight	Total Declared Value†	Total Charges
1	60 lbs	$ .00	Credit Card Auth

†Our liability is limited to $100 unless you declare a higher value. See back for details.

8 Release Signature Sign to authorize delivery without obtaining signature.

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

360

FedEx FedEx Tracking Number 818837632093

Form ID No. 0200

From
Date 10/16/00
Sender's Name Simple Co. Phone 978 667-1400
Company TL Billerica
Address 149 Rangeway Rd Dept./Floor/Suite/Room
City N Billerica State MA ZIP 01862

Your Internal Billing Reference

To
Recipient's Name Simple Co. Phone 203 929 3140
Company TL-CONN
Address 128 Long Hill Cross Rd
We cannot deliver to PO boxes or PO ZIP codes. Dept./Floor/Suite/Room
To "HOLD" at FedEx location, print FedEx address here
City Shelton State CT ZIP 06484

8188 3763 2093

4a Express Package Service — Packages up to 150 lbs. Delivery commitment may be later in some areas
- [x] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Letter Rate not available. Minimum charge: One pound rate

4b Express Freight Service — Packages over 150 lbs. Delivery commitment may be later in some areas
- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation

5 Packaging — * Declared value limit $500
- [ ] FedEx Letter*
- [ ] FedEx Pak*
- [x] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling
- [ ] Saturday Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] Sunday Delivery — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked
- [x] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods cannot be shipped in FedEx packaging. [ ] Cargo Aircraft Only

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below. [ ] Obtain Recip Acct. No.
- [ ] Sender — Acct. No. in Section 1 will be billed
- [x] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages	Total Weight	Total Declared Value†	Total Charges
1	50 lbs	$ .00	Credit Card Auth

†Our liability is limited to $100 unless you declare a higher value. See back for details.

8 Release Signature Sign to authorize delivery without obtaining signature.

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Call 1·800·Go·FedEx (800 463 3339)
Visit our Web site at www.fedex.com

360

Severn Ti · Connecticut
Internal Chain-of-Custody

Client: ROUX

STL Job #: 7000-2279A

Custody Seal: present / absent
Tamper Evident /Non Tamper Evident
intact / not intact

Airbill# FE

Field C-O-C: present / absent

Date Received: 10-11-00

Sample #s: 01-11

Locations: R-37

Laboratory Sample #	Relinquished by	Accepted by	Date	Time	Reason	Relinquished by	Accepted by	Date	Time
1—10	[illegible]	[illegible]	[illegible]	[illegible]	TSS	[illegible]	[illegible]	[illegible]	[illegible]
1-3, 5, 6, 9, 11(B) 4, 7, 9(A) 10BCE	[illegible]	[illegible]	10/16/00	9:45	BNA	[illegible]			
1—11	ML	GB	10/16	1050	Hg	GB	ML	10/16	1430

STL Form# SMF00504.CT

STL GC-GC/MS Extract Chain of Custody

Fraction: (BNA) Pesticide-PCB / Herbicide / O/P Pesticide / DRO / Other (Circle one)

CLIENT: Roux

JOB NO: 2279A

SAMPLE IN (Extractions)					SAMPLE IN (Extractions)				
Sample(s)	Date	Time	Sign.	Location	Sample(s)	Date	Time	Sign.	Location
1-10, 10MS	10/20/00	9:30	JNC	29					
10MSD, 11	10/20/00	9:30	JNC	29					

SAMPLE OUT					SAMPLE IN			
Sample(s)	Date	Time	Code	Sign.	Date	Time	Location	Sign.
01-07	10/23/00	13:00	AN	EM	10/23/00	14:30	29	EM
08-11; 100C	10/24/00	11:30	AN	EM	10/24/00	14:00	29	EM

Codes: SC = Screening AN = Analysis

Verified By: [signature] Date: 10-26-00

Lab Form: SMF01201.CT

Severn Trent Laboratories
128 Long Hill Cross
Shelton, CT 06484
Tel (203) 929-8140
Fax (203)

Committed To *Your* Success

CHAIN OF CUSTODY
ATOMIC SPECTROSCOPY DEPARTMENT

Job Number 7000 2279A Sample Numbers 1-11 (T & F)

WATER - SOIL - SLUDGE - EPTOX/TCLP

I confirm that I have performed the preparation below following SOP guidelines and authorize the release of this preparation:

Sample Prep			ICP/FLME
	Darlyn Colon	10/24/00	FURN
			MERCURY
	Chemist	Date(s)	

I confirm that I have performed the analysis below following SOP guidelines and authorize the release of all associated data:

Analysis	Nestor Petrowich	10/26/00	ICP
			FLAME
			FURN
			MERCURY
	Chemist	Date(s)	

I have reviewed and authorize the release of this job:

Complete [signature] 10/26/00
Supervisor Date

Batch Assignment _____

Severn Trent Laboratori
128 Longhill Cross
Shelton, CT 06484
Tel (203) 929-8140
Fax (203)

Committed To *Your* Success

CHAIN OF CUSTODY
ATOMIC SPECTROSCOPY DEPARTMENT

Job Number 002279A Sample Numbers 01- 11.

WATER - SOIL - SLUDGE - EPTOX/TCLP

I confirm that I have performed the preparation below following SOP guidelines and authorize the release of this preparation:

Sample Prep			
			ICP/FLME
			FURN
	Gerald Bro	10-16-00	MERCURY
	Chemist	Date(s)	

I confirm that I have performed the analysis below following SOP guidelines and authorize the release of all associated data:

Analysis			ICP
			FLAME
			FURN
	Gerald Bro	10-16-00	MERCURY
	Chemist	Date(s)	

I have reviewed and authorize the release of this job:

Complete [signature] 10/27/00
Supervisor Date

Batch Assignment _____

Fall Storm 2

SEVERN
TRENT
SERVICES

STL Connecticut
128 Long Hill Cross Road
Shelton, CT 06484

Tel: 203 929 8140
Fax: 203 929 8142
www.stl-inc.com

November 10, 2000

Mr. Larry Mctiernan
ROUX ASSOCIATES-MA
25 Corporate Drive
Suite 230
Burlington, MA 01803

Dear Mr. Mctiernan :

Please find enclosed the analytical results of 15 sample(s) received at our laboratory on October 21, 2000. This report contains sections addressing the following information at a minimum:

- sample summary
- analytical methodology
- state certifications
- definition of data qualifiers and terminology
- analytical results
- chain-of-custody

STL Report #7000-2381A	Purchase Order #06626M32
Project ID: INDUSTRIALPLEX	

Copies of this analytical report and supporting data are maintained in our files for a minimum of five years unless special arrangements have been made. Unless specifically indicated, all analytical testing was performed at this laboratory location and no portion of the testing was subcontracted.

We appreciate your selection of our services and welcome any questions or suggestions you may have relative to this report. Please contact your customer service representative at (203) 929-8140 for any additional information. Thank you for utilizing our services; we hope you will consider us for your future analytical needs.

I have reviewed and approved the enclosed data for final release.

Very truly yours,

Cheryl A. Cascua for

Jeffrey C. Curran
Laboratory Manager

JCC

7000-2381A
ROUX ASSOCIATES

Case Narrative

Sample Receipt – All samples were received in good condition and at proper temperature.

Classical Chemistry - Listed below are the wet chemistry analyte methods and references for the samples analyzed in this SDG. No analytical problems were encountered and all holding times were met.

Analyte	Method	Reference
TSS	160.2	1

References:

1. Methods of Chemical Analysis of Water and Wastes, EPA 600, 1983.

Metals – ICAP metals were determined using a JA61E trace ICAP; mercury was determined by cold vapor technique using a Leeman Labs mercury analyzer; following guidance provided in SW846 according to methods: ICAP – 3010A/6010B; mercury-7470A.

Selenium failed the controls for spike recovery analysis of sample SW-09 total resulting in one "N" flag.

No other problems occurred during analysis. All appropriate protocols were employed. All data appears to be consistent.

Semi-Volatile Organics - Semi-volatile organic samples were extracted and analyzed by capillary GC/MS using guidance provided in Methods 3510C/8270C. The instrumentation used was a Hewlett-Packard Gas Chromatograph interfaced with a Mass Selective Detector.

All samples were extracted, concentrated and analyzed without any apparent problems, except as noted below.

The spike recoveries for the compounds, 2,4,5-trichlorophenol, 2,4-dinitrophenol and pentachlorophenol, were below recovery limits for SBLKLQFMS. The laboratory is in the process of investigating the cause of the poor pentachlorophenol recovery that is isolated to the FMS. Preliminary indications are that the problem is due to the FMS solution since the recoveries of pentachlorophenol in matrix spikes and matrix spike duplicates are within acceptance limits.

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-01

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix: (soil/water) WATER Lab Sample ID: 002381A-01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q9927

Level: (low/med) LOW Date Received: 10/21/00

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/02/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
84-66-2	Diethylphthalate	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-02

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix: (soil/water) WATER Lab Sample ID: 002381A-02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q9928

Level: (low/med) LOW Date Received: 10/21/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/02/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
84-66-2	Diethylphthalate	.5	JB
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-03

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix: (soil/water) WATER Lab Sample ID: 002381A-03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q9929

Level: (low/med) LOW Date Received: 10/21/00

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/02/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
84-66-2	Diethylphthalate	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-04

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix: (soil/water) WATER Lab Sample ID: 002381A-04

Sample wt/vol: 880 (g/mL) ML Lab File ID: >Q9930

Level: (low/med) LOW Date Received: 10/21/00

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/02/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	11	U
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic acid	57	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	57	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	57	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	11	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-04

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix: (soil/water) WATER Lab Sample ID: 002381A-04

Sample wt/vol: 880 (g/mL) ML Lab File ID: >Q9930

Level: (low/med) LOW Date Received: 10/21/00

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/02/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
606-20-2	2,6-Dinitrotoluene	11	U
99-09-2	3-Nitroaniline	57	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	57	U
100-02-7	4-Nitrophenol	57	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	57	U
534-52-1	4,6-Dinitro-2-methylphenol	57	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	57	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	23	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
117-84-0	Di-n-octylphthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

(1) - Cannot be separated from Diphenylamine

007 Rev

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-05

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix: (soil/water) WATER Lab Sample ID: 002381A-05

Sample wt/vol: 770 (g/mL) ML Lab File ID: >Q9931

Level: (low/med) LOW Date Received: 10/21/00

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/02/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	13	U
106-44-5	4-Methylphenol	13	U
91-20-3	Naphthalene	13	U
91-57-6	2-Methylnaphthalene	13	U
208-96-8	Acenaphthylene	13	U
83-32-9	Acenaphthene	13	U
86-73-7	Fluorene	13	U
84-66-2	Diethylphthalate	13	U
85-01-8	Phenanthrene	13	U
120-12-7	Anthracene	13	U
206-44-0	Fluoranthene	13	U
129-00-0	Pyrene	13	U
56-55-3	Benzo(a)anthracene	13	U
218-01-9	Chrysene	13	U
117-81-7	bis(2-Ethylhexyl)phthalate	13	U
205-99-2	Benzo(b)fluoranthene	13	U
207-08-9	Benzo(k)fluoranthene	13	U
50-32-8	Benzo(a)pyrene	13	U
193-39-5	Indeno(1,2,3-cd)pyrene	13	U
53-70-3	Dibenzo(a,h)anthracene	13	U
191-24-2	Benzo(g,h,i)perylene	13	U

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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-06

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix: (soil/water) WATER Lab Sample ID: 002381A-06

Sample wt/vol: 870 (g/mL) ML Lab File ID: >Q9932

Level: (low/med) LOW Date Received: 10/21/00

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/02/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	11	U
106-44-5	4-Methylphenol	11	U
91-20-3	Naphthalene	11	U
91-57-6	2-Methylnaphthalene	11	U
208-96-8	Acenaphthylene	11	U
83-32-9	Acenaphthene	11	U
86-73-7	Fluorene	11	U
84-66-2	Diethylphthalate	11	U
85-01-8	Phenanthrene	.7	J
120-12-7	Anthracene	11	U
206-44-0	Fluoranthene	2	J
129-00-0	Pyrene	1	J
56-55-3	Benzo(a)anthracene	.4	J
218-01-9	Chrysene	1	J
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
205-99-2	Benzo(b)fluoranthene	1	J
207-08-9	Benzo(k)fluoranthene	1	J
50-32-8	Benzo(a)pyrene	.6	J
193-39-5	Indeno(1,2,3-cd)pyrene	.6	J
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	.6	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-07

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix: (soil/water) WATER Lab Sample ID: 002381A-07

Sample wt/vol: 870 (g/mL) ML Lab File ID: >Q9933

Level: (low/med) LOW Date Received: 10/21/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/02/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	11	U
106-44-5	4-Methylphenol	11	U
91-20-3	Naphthalene	11	U
91-57-6	2-Methylnaphthalene	11	U
208-96-8	Acenaphthylene	11	U
83-32-9	Acenaphthene	11	U
86-73-7	Fluorene	11	U
84-66-2	Diethylphthalate	11	U
85-01-8	Phenanthrene	.4	J
120-12-7	Anthracene	11	U
206-44-0	Fluoranthene	1	J
129-00-0	Pyrene	.7	J
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	.7	J
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
205-99-2	Benzo(b)fluoranthene	.6	J
207-08-9	Benzo(k)fluoranthene	.5	J
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-08

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix: (soil/water) WATER Lab Sample ID: 002381A-08

Sample wt/vol: 910 (g/mL) ML Lab File ID: >Q9934

Level: (low/med) LOW Date Received: 10/21/00

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/02/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	11	U
106-44-5	4-Methylphenol	11	U
91-20-3	Naphthalene	11	U
91-57-6	2-Methylnaphthalene	11	U
208-96-8	Acenaphthylene	11	U
83-32-9	Acenaphthene	11	U
86-73-7	Fluorene	11	U
84-66-2	Diethylphthalate	11	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
206-44-0	Fluoranthene	.3	J
129-00-0	Pyrene	.3	J
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	4	J
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-09

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix: (soil/water) WATER Lab Sample ID: 002381A-09

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q9935

Level: (low/med) LOW Date Received: 10/21/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/02/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-09

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix: (soil/water) WATER Lab Sample ID: 002381A-09

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q9935

Level: (low/med) LOW Date Received: 10/21/00

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/02/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-10

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix: (soil/water) WATER Lab Sample ID: 002381A-10

Sample wt/vol: 920 (g/mL) ML Lab File ID: >Q9936

Level: (low/med) LOW Date Received: 10/21/00

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/02/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	11	U
106-44-5	4-Methylphenol	11	U
91-20-3	Naphthalene	11	U
91-57-6	2-Methylnaphthalene	11	U
208-96-8	Acenaphthylene	11	U
83-32-9	Acenaphthene	11	U
86-73-7	Fluorene	11	U
84-66-2	Diethylphthalate	11	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
206-44-0	Fluoranthene	.3	J
129-00-0	Pyrene	.2	J
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB102000

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix: (soil/water) WATER Lab Sample ID: 002381A-11

Sample wt/vol: 680 (g/mL) ML Lab File ID: >Q9922

Level: (low/med) LOW Date Received: 10/21/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/02/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	15	U
108-95-2	Phenol	15	U
111-44-4	bis(2-Chloroethyl)ether	15	U
95-57-8	2-Chlorophenol	15	U
541-73-1	1,3-Dichlorobenzene	15	U
106-46-7	1,4-Dichlorobenzene	15	U
100-51-6	Benzyl alcohol	15	U
95-50-1	1,2-Dichlorobenzene	15	U
95-48-7	2-Methylphenol	15	U
108-60-1	bis(2-Chloroisopropyl)ether	15	U
106-44-5	4-Methylphenol	15	U
621-64-7	N-Nitroso-di-n-propylamine	15	U
67-72-1	Hexachloroethane	15	U
98-95-3	Nitrobenzene	15	U
78-59-1	Isophorone	15	U
88-75-5	2-Nitrophenol	15	U
105-67-9	2,4-Dimethylphenol	15	U
65-85-0	Benzoic acid	74	U
111-91-1	bis(2-Chloroethoxy)methane	15	U
120-83-2	2,4-Dichlorophenol	15	U
120-82-1	1,2,4-Trichlorobenzene	15	U
91-20-3	Naphthalene	15	U
106-47-8	4-Chloroaniline	15	U
87-68-3	Hexachlorobutadiene	15	U
59-50-7	4-Chloro-3-methylphenol	15	U
91-57-6	2-Methylnaphthalene	15	U
77-47-4	Hexachlorocyclopentadiene	15	U
88-06-2	2,4,6-Trichlorophenol	15	U
95-95-4	2,4,5-Trichlorophenol	74	U
91-58-7	2-Chloronaphthalene	15	U
88-74-4	2-Nitroaniline	74	U
131-11-3	Dimethylphthalate	15	U
208-96-8	Acenaphthylene	15	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB102000

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix: (soil/water) WATER Lab Sample ID: 002381A-11

Sample wt/vol: 680 (g/mL) ML Lab File ID: >Q9922

Level: (low/med) LOW Date Received: 10/21/00

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/02/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
606-20-2	2,6-Dinitrotoluene	15	U
99-09-2	3-Nitroaniline	74	U
83-32-9	Acenaphthene	15	U
51-28-5	2,4-Dinitrophenol	74	U
100-02-7	4-Nitrophenol	74	U
132-64-9	Dibenzofuran	15	U
121-14-2	2,4-Dinitrotoluene	15	U
84-66-2	Diethylphthalate	15	U
7005-72-3	4-Chlorophenyl-phenylether	15	U
86-73-7	Fluorene	15	U
100-01-6	4-Nitroaniline	74	U
534-52-1	4,6-Dinitro-2-methylphenol	74	U
86-30-6	N-Nitrosodiphenylamine (1)	15	U
101-55-3	4-Bromophenyl-phenylether	15	U
118-74-1	Hexachlorobenzene	15	U
87-86-5	Pentachlorophenol	74	U
85-01-8	Phenanthrene	15	U
120-12-7	Anthracene	15	U
84-74-2	Di-n-butylphthalate	15	U
206-44-0	Fluoranthene	15	U
129-00-0	Pyrene	15	U
85-68-7	Butylbenzylphthalate	15	U
91-94-1	3,3'-Dichlorobenzidine	29	U
56-55-3	Benzo(a)anthracene	15	U
218-01-9	Chrysene	15	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	J
117-84-0	Di-n-octylphthalate	15	U
205-99-2	Benzo(b)fluoranthene	15	U
207-08-9	Benzo(k)fluoranthene	15	U
50-32-8	Benzo(a)pyrene	15	U
193-39-5	Indeno(1,2,3-cd)pyrene	15	U
53-70-3	Dibenzo(a,h)anthracene	15	U
191-24-2	Benzo(g,h,i)perylene	15	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKLQ

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix: (soil/water) WATER Lab Sample ID: SBLKLQ

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q9920

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/02/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U

0018

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKLQ

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix: (soil/water) WATER Lab Sample ID: SBLKLQ

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q9920

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/02/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	.4	J
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKLQFMS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix: (soil/water) WATER Lab Sample ID: SBLKLQFMS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q9921

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/02/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	10	U
108-95-2	Phenol	16	
111-44-4	bis(2-Chloroethyl)ether	33	
95-57-8	2-Chlorophenol	39	
541-73-1	1,3-Dichlorobenzene	34	
106-46-7	1,4-Dichlorobenzene	34	
100-51-6	Benzyl alcohol	27	
95-50-1	1,2-Dichlorobenzene	39	
95-48-7	2-Methylphenol	22	
108-60-1	bis(2-Chloroisopropyl)ether	34	
106-44-5	4-Methylphenol	21	
621-64-7	N-Nitroso-di-n-propylamine	32	
67-72-1	Hexachloroethane	32	
98-95-3	Nitrobenzene	34	
78-59-1	Isophorone	34	
88-75-5	2-Nitrophenol	35	
105-67-9	2,4-Dimethylphenol	33	
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	37	
120-83-2	2,4-Dichlorophenol	38	
120-82-1	1,2,4-Trichlorobenzene	34	
91-20-3	Naphthalene	34	
106-47-8	4-Chloroaniline	33	
87-68-3	Hexachlorobutadiene	35	
59-50-7	4-Chloro-3-methylphenol	36	
91-57-6	2-Methylnaphthalene	35	
77-47-4	Hexachlorocyclopentadiene	15	
88-06-2	2,4,6-Trichlorophenol	32	
95-95-4	2,4,5-Trichlorophenol	23	J
91-58-7	2-Chloronaphthalene	44	
88-74-4	2-Nitroaniline	34	J
131-11-3	Dimethylphthalate	34	
208-96-8	Acenaphthylene	32	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKLQFMS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix: (soil/water) WATER Lab Sample ID: SBLKLQFMS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q9921

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/02/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
606-20-2	2,6-Dinitrotoluene	34	
99-09-2	3-Nitroaniline	32	J
83-32-9	Acenaphthene	33	
51-28-5	2,4-Dinitrophenol	14	J
100-02-7	4-Nitrophenol	15	J
132-64-9	Dibenzofuran	36	
121-14-2	2,4-Dinitrotoluene	32	
84-66-2	Diethylphthalate	31	B
7005-72-3	4-Chlorophenyl-phenylether	30	
86-73-7	Fluorene	33	
100-01-6	4-Nitroaniline	34	J
534-52-1	4,6-Dinitro-2-methylphenol	38	J
86-30-6	N-Nitrosodiphenylamine (1)	44	
101-55-3	4-Bromophenyl-phenylether	47	
118-74-1	Hexachlorobenzene	42	
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	41	
120-12-7	Anthracene	42	
84-74-2	Di-n-butylphthalate	39	
206-44-0	Fluoranthene	42	
129-00-0	Pyrene	35	
85-68-7	Butylbenzylphthalate	39	
91-94-1	3,3'-Dichlorobenzidine	32	
56-55-3	Benzo(a)anthracene	34	
218-01-9	Chrysene	30	
117-81-7	bis(2-Ethylhexyl)phthalate	30	
117-84-0	Di-n-octylphthalate	34	
205-99-2	Benzo(b)fluoranthene	34	
207-08-9	Benzo(k)fluoranthene	32	
50-32-8	Benzo(a)pyrene	34	
193-39-5	Indeno(1,2,3-cd)pyrene	34	
53-70-3	Dibenzo(a,h)anthracene	34	
191-24-2	Benzo(g,h,i)perylene	36	

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-09MS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix: (soil/water) WATER Lab Sample ID: 002381A-09MS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q9949

Level: (low/med) LOW Date Received: 10/21/00

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/03/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	10	U
108-95-2	Phenol	26	
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	62	
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	32	
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	48	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	42	
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	53	
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-09MS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix: (soil/water) WATER Lab Sample ID: 002381A-09MS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q9949

Level: (low/med) LOW Date Received: 10/21/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/03/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	37	
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	37	J
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	38	
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	78	
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	38	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-09MSD

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix: (soil/water) WATER Lab Sample ID: 002381A-09MSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q9950

Level: (low/med) LOW Date Received: 10/21/00

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/03/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-94-1	Cyclohexanone	10	U
108-95-2	Phenol	26	
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	61	
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	33	
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	50	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	43	
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	52	
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-09MSD

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix: (soil/water) WATER Lab Sample ID: 002381A-09MSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q9950

Level: (low/med) LOW Date Received: 10/21/00

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/26/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/03/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	36	
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	37	J
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	38	
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	89	E
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	.2	J
129-00-0	Pyrene	40	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	.9	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SBLKLQ	72	80	56	28	39	65			0
02	SBLKLQFMS	82	81	70	38	48	71			0
03	FB102000	62	60	56	29	36	55			0
04	SW-01	60	60	52	23	30	65			0
05	SW-02	62	58	54	24	31	66			0
06	SW-03	64	70	56	24	31	48			0
07	SW-04	67	55	53	26	33	66			0
08	SW-05	84	64	57	28	35	47			0
09	SW-06	83	62	54	27	34	46			0
10	SW-07	59	59	57	28	36	68			0
11	SW-08	64	62	59	25	32	62			0
12	SW-09	68	69	60	27	34	56			0
13	SW-10	64	64	57	26	33	65			0
14	SW-09MS	77	72	60	30	35	72			0
15	SW-09MSD	80	73	64	30	35	70			0
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

QC LIMITS

S1 (NBZ) = Nitrobenzene-d5 (35-114)
S2 (FBP) = 2-Fluorobiphenyl (43-116)
S3 (TPH) = Terphenyl-d14 (33-141)
S4 (PHL) = Phenol-d5 (10-110)
S5 (2FP) = 2-Fluorophenol (21-110)
S6 (TBP) = 2,4,6-Tribromophenol (10-123)
S7 (2CP) = 2-Chlorophenol-d4 (-) (advisory)
S8 (DCB) = 1,2-Dichlorobenzene-d4 (-) (advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM II SV-1

3C
WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix Spike - EPA Sample No.: SW-09

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Phenol	100	0	26	26	12-110
2-Chlorophenol	100	0	62	62	27-123
1,4-Dichlorobenzene	50	0	32	64	36- 97
N-Nitroso-di-n-prop.(1)	50	0	48	96	41-116
1,2,4-Trichlorobenzene	50	0	42	84	39- 98
4-Chloro-3-methylphenol	100	0	53	53	23- 97
Acenaphthene	50	0	37	74	46-118
4-Nitrophenol	100	0	37	37	10- 80
2,4-Dinitrotoluene	50	0	38	76	24- 96
Pentachlorophenol	100	0	78	78	9-103
Pyrene	50	0	38	76	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	100	26	26	0	42	12-110
2-Chlorophenol	100	61	61	2	40	27-123
1,4-Dichlorobenzene	50	33	66	3	28	36- 97
N-Nitroso-di-n-prop.(1)	50	50	100	4	38	41-116
1,2,4-Trichlorobenzene	50	43	86	2	28	39- 98
4-Chloro-3-methylphenol	100	52	52	2	42	23- 97
Acenaphthene	50	36	72	3	31	46-118
4-Nitrophenol	100	37	37	0	50	10- 80
2,4-Dinitrotoluene	50	38	76	0	38	24- 96
Pentachlorophenol	100	89	89	13	50	9-103
Pyrene	50	40	80	5	31	26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits.

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: _____

3C
WATER SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix Spike - EPA Sample No.: SBLKLQ

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE CONCENTRATION (ug/L)	SPIKE % REC #	QC. LIMITS REC.
Phenol	40	0	16	40	24-57
bis(2-Chloroethyl)ether	40	0	33	82	49-133
2-Chlorophenol	40	0	39	98	60-112
1,3-Dichlorobenzene	40	0	34	85	18-143
1,4-Dichlorobenzene	40	0	34	85	21-138
Benzyl alcohol	40	0	27	68	39-117
1,2-Dichlorobenzene	40	0	39	98	21-143
2-Methylphenol	40	0	22	55	49-91
bis(2-Chloroisopropyl)ether	40	0	34	85	54-130
4-Methylphenol	40	0	21	52	48-95
N-Nitroso-di-n-propylamine	40	0	32	80	46-129
Hexachloroethane	40	0	32	80	8-144
Nitrobenzene	40	0	34	85	46-141
Isophorone	40	0	34	85	52-140
2-Nitrophenol	40	0	35	88	69-123
2,4-Dimethylphenol	40	0	33	82	62-121
Benzoic acid	120	0	0	0	0-25
bis(2-Chloroethoxy)methane	40	0	37	92	53-142
2,4-Dichlorophenol	40	0	38	95	66-122
1,2,4-Trichlorobenzene	40	0	34	85	30-142
Naphthalene	40	0	34	85	43-144
4-Chloroaniline	40	0	33	82	48-150
Hexachlorobutadiene	40	0	35	88	5-169
4-Chloro-3-methylphenol	40	0	36	90	63-119
2-Methylnaphthalene	40	0	35	88	37-137
Hexachlorocyclopentadiene	40	0	15	38	1-139
2,4,6-Trichlorophenol	40	0	32	80	70-121
2,4,5-Trichlorophenol	40	0	23	58*	71-124
2-Chloronaphthalene	40	0	44	110	52-163
2-Nitroaniline	40	0	34	85	60-139

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 03 out of 65 outside limits

COMMENTS: ZMR 11/7/00

3C
WATER SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix Spike - EPA Sample No.: SBLKLQ

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE CONCENTRATION (ug/L)	SPIKE % REC #	QC. LIMITS REC.
Dimethylphthalate	40	0	34	85	64-137
Acenaphthylene	40	0	32	80	52-132
2,6-Dinitrotoluene	40	0	34	85	60-142
3-Nitroaniline	40	0	32	80	65-162
Acenaphthene	40	0	33	82	56-144
2,4-Dinitrophenol	40	0	14	35*	70-139
4-Nitrophenol	40	0	15	38	21-65
Dibenzofuran	40	0	36	90	57-136
2,4-Dinitrotoluene	40	0	32	80	57-131
Diethylphthalate	40	.4	31	76	62-132
4-Chlorophenyl-phenylether	40	0	30	75	55-136
Fluorene	40	0	33	82	59-131
4-Nitroaniline	40	0	34	85	67-155
4,6-Dinitro-2-methylphenol	40	0	38	95	77-164
N-Nitrosodiphenylamine (1)	40	0	44	110	67-149
4-Bromophenyl-phenylether	40	0	47	118	57-150
Hexachlorobenzene	40	0	42	105	53-153
Pentachlorophenol	40	0	0	0*	63-125
Phenanthrene	40	0	41	102	83-124
Anthracene	40	0	42	105	66-138
Di-n-butylphthalate	40	0	39	98	65-146
Fluoranthene	40	0	42	105	63-145
Pyrene	40	0	35	88	66-152
Butylbenzylphthalate	40	0	39	98	64-158
3,3'-Dichlorobenzidine	40	0	32	80	69-159
Benzo(a)anthracene	40	0	34	85	62-151
Chrysene	40	0	30	75	72-141
bis(2-Ethylhexyl)phthalate	40	0	30	75	63-148
Di-n-octylphthalate	40	0	34	85	65-154
Benzo(b)fluoranthene	40	0	34	85	42-172

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 13 out of 65 outside limits

COMMENTS: 11/7/00

FORM III SV-1

3C

WATER SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix Spike - EPA Sample No.: SBLKLQ

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE CONCENTRATION (ug/L)	SPIKE % REC #	QC. LIMITS REC.
Benzo(k)fluoranthene	40	0	32	80	55-150
Benzo(a)pyrene	40	0	34	85	68-147
Indeno(1,2,3-cd)pyrene	40	0	34	85	52-157
Dibenzo(a,h)anthracene	40	0	34	85	25-159
Benzo(g,h,i)perylene	40	0	36	90	56-166
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Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 03 out of 65 outside limits

COMMENTS: AR 11/7/00

FORM III SV-1

0030

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKLQ

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Lab File ID: >Q9920 Lab Sample ID: SBLKLQ

Instrument ID: HP5971Q Date Extracted:10/26/00

Matrix: (soil/water) WATER Date Analyzed: 11/02/00

Level:(low/med) LOW Time Analyzed:1108

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLKLQFMS	SBLKLQFMS	>Q9921	11/02/00
02	FB102000	002381A-11	>Q9922	11/02/00
03	SW-01	002381A-01	>Q9927	11/02/00
04	SW-02	002381A-02	>Q9928	11/02/00
05	SW-03	002381A-03	>Q9929	11/02/00
06	SW-04	002381A-04	>Q9930	11/02/00
07	SW-05	002381A-05	>Q9931	11/02/00
08	SW-06	002381A-06	>Q9932	11/02/00
09	SW-07	002381A-07	>Q9933	11/02/00
10	SW-08	002381A-08	>Q9934	11/02/00
11	SW-09	002381A-09	>Q9935	11/02/00
12	SW-10	002381A-10	>Q9936	11/02/00
13	SW-09MS	002381A-09MS	>Q9949	11/03/00
14	SW-09MSD	002381A-09MSD	>Q9950	11/03/00
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COMMENTS: _____

FORM IV SV

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Lab File ID: Q9840 DFTPP Injection Date:10/27/00

Instrument ID: HP5971Q DFTPP Injection Time:0953

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	35.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	49.8
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	49.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	17.6
365	Greater than 1.0% of mass 198	1.68
441	Present, but less than mass 443	8.6
442	40.0 - 100.0% of mass 198	54.9
443	17.0 - 23.0% of mass 442	11.2 (20.3)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020K3	SSTD020K3	>Q9841	10/27/00	1036
02	SSTD050K4	SSTD050K4	>Q9842	10/27/00	1119
03	SSTD080K5	SSTD080K5	>Q9843	10/27/00	1201
04	SSTD120K6	SSTD120K6	>Q9844	10/27/00	1244
05	SSTD160K7	SSTD160K7	>Q9845	10/27/00	1326
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FORM V SV

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Lab File ID: Q9919 DFTPP Injection Date:11/02/00

Instrument ID: HP5971Q DFTPP Injection Time:1025

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	31.9
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	45.2
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	48.0
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	19.2
365	Greater than 1.0% of mass 198	1.55
441	Present, but less than mass 443	10.4
442	40.0 - 100.0% of mass 198	66.6
443	17.0 - 23.0% of mass 442	13.1 (19.6)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050L7	SSTD050L7	>Q9919	11/02/00	1025
02	SBLKLQ	SBLKLQ	>Q9920	11/02/00	1108
03	SBLKLQFMS	SBLKLQFMS	>Q9921	11/02/00	1149
04	FB102000	002381A-11	>Q9922	11/02/00	1230
05	SW-01	002381A-01	>Q9927	11/02/00	1555
06	SW-02	002381A-02	>Q9928	11/02/00	1636
07	SW-03	002381A-03	>Q9929	11/02/00	1716
08	SW-04	002381A-04	>Q9930	11/02/00	1757
09	SW-05	002381A-05	>Q9931	11/02/00	1838
10	SW-06	002381A-06	>Q9932	11/02/00	1919
11	SW-07	002381A-07	>Q9933	11/02/00	2000
12	SW-08	002381A-08	>Q9934	11/02/00	2041
13	SW-09	002381A-09	>Q9935	11/02/00	2121
14	SW-10	002381A-10	>Q9936	11/02/00	2202
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FORM V SV

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Lab File ID: Q9939 DFTPP Injection Date:11/03/00

Instrument ID: HP5971Q DFTPP Injection Time:1235

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	35.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	50.4
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	50.0
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	18.2
365	Greater than 1.0% of mass 198	1.50
441	Present, but less than mass 443	9.9
442	40.0 - 100.0% of mass 198	63.6
443	17.0 - 23.0% of mass 442	12.0 (18.8)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020M2	SSTD020M2	>Q9940	11/03/00	1337
02	SSTD050M3	SSTD050M3	>Q9941	11/03/00	1417
03	SSTD080M4	SSTD080M4	>Q9942	11/03/00	1458
04	SSTD120M5	SSTD120M5	>Q9943	11/03/00	1539
05	SSTD160M6	SSTD160M6	>Q9944	11/03/00	1619
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FORM V SV

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Lab File ID: Q9946 DFTPP Injection Date:11/03/00

Instrument ID: HP5971Q DFTPP Injection Time:1741

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	35.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	50.5
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	49.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	17.7
365	Greater than 1.0% of mass 198	1.51
441	Present, but less than mass 443	8.6
442	40.0 - 100.0% of mass 198	56.2
443	17.0 - 23.0% of mass 442	11.1 (19.7)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050M7	SSTD050M7	>Q9946	11/03/00	1741
02	SW-09MS	002381A-09MS	>Q9949	11/03/00	1943
03	SW-09MSD	002381A-09MSD	>Q9950	11/03/00	2023
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FORM V SV

0035

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Instrument ID: HP5971Q Calibration Date(s):10/27/00 _____

Calibration Times: 1036 1326

LAB FILE ID: RRF20 = >Q9841 RRF50 = >Q9842
RRF80 = >Q9843 RRF120= >Q9844 RRF160= >Q9845

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Phenol	* 2.395	2.228	2.094	1.902	1.713	2.066	13.0 *
bis(2-Chloroethyl)ether	* 1.193	1.126	1.077	0.992	0.931	1.064	9.8 *
2-Chlorophenol	* 1.539	1.403	1.344	1.249	1.181	1.343	10.3 *
1,3-Dichlorobenzene	* 1.648	1.583	1.512	1.397	1.337	1.495	8.6 *
1,4-Dichlorobenzene	* 1.421	1.363	1.325	1.238	1.190	1.307	7.1 *
Benzyl alcohol	* 1.136	1.209	1.193	1.116	1.035	1.138	6.1 *
1,2-Dichlorobenzene	* 1.380	1.247	1.168	1.064	0.980	1.168	13.4 *
2-Methylphenol	* 1.488	1.539	1.482	1.374	1.292	1.435	7.0 *
2,2'-oxybis(1-Chloropropane)	* 2.057	1.896	1.774	1.613	1.426	1.753	14.0 *
4-Methylphenol	* 1.513	1.464	1.373	1.251	1.122	1.345	11.8 *
N-Nitroso-di-n-propylamine	* 1.038	1.001	0.950	0.870	0.827	0.937	9.4 *
Hexachloroethane	* 0.600	0.581	0.562	0.521	0.488	0.550	8.3 *
Nitrobenzene	* 0.370	0.352	0.329	0.306	0.293	0.330	9.6 *
Isophorone	* 0.827	0.834	0.797	0.723	0.700	0.776	7.9 *
2-Nitrophenol	* 0.245	0.252	0.244	0.230	0.222	0.239	5.1 *
2,4-Dimethylphenol	* 0.350	0.343	0.327	0.300	0.289	0.322	8.2 *
Benzoic acid	* 0.246	0.290	0.305	0.283	0.300	0.285	8.2 *
bis(2-Chloroethoxy)methane	* 0.480	0.470	0.449	0.412	0.398	0.442	8.1 *
2,4-Dichlorophenol	* 0.310	0.305	0.288	0.267	0.252	0.284	8.7 *
1,2,4-Trichlorobenzene	* 0.313	0.302	0.285	0.262	0.250	0.282	9.4 *
Naphthalene	* 0.949	0.912	0.859	0.794	0.742	0.851	9.9 *
4-Chloroaniline	* 0.496	0.503	0.477	0.434	0.407	0.463	8.9 *
Hexachlorobutadiene	* 0.153	0.155	0.149	0.140	0.135	0.146	5.9 *
4-Chloro-3-methylphenol	* 0.367	0.382	0.364	0.320	0.299	0.346	10.2 *
2-Methylnaphthalene	* 0.678	0.606	0.545	0.482	0.438	0.550	17.4 *
Hexachlorocyclopentadiene	* 0.212	0.290	0.302	0.305	0.306	0.283	14.2 *
2,4,6-Trichlorophenol	* 0.450	0.452	0.435	0.404	0.395	0.427	6.2 *
2,4,5-Trichlorophenol	* 0.466	0.460	0.424	0.397	0.386	0.427	8.4 *
2-Chloronaphthalene	* 1.082	0.995	0.937	0.854	0.811	0.936	11.6 *
2-Nitroaniline	* 0.425	0.458	0.447	0.408	0.403	0.428	5.6 *
Dimethylphthalate	* 1.600	1.631	1.555	1.381	1.334	1.500	8.9 *
Acenaphthylene	* 2.067	1.917	1.778	1.600	1.474	1.767	13.5 *
2,6-Dinitrotoluene	* 0.334	0.330	0.319	0.283	0.277	0.309	8.7 *
3-Nitroaniline	* 0.510	0.525	0.506	0.455	0.434	0.486	8.1 *
Acenaphthene	* 1.011	1.022	0.980	0.894	0.853	0.952	7.8 *
2,4-Dinitrophenol	* 0.157	0.233	0.266	0.249	0.265	0.234	19.3 *
4-Nitrophenol	* 0.187	0.213	0.223	0.200	0.197	0.204	6.9 *

* Compounds with required minimum RRF and maximum %RSD values.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Instrument ID: HP5971Q Calibration Date(s):10/27/00 _____

Calibration Times: 1036 1326

LAB FILE ID: RRF20 = >Q9841 RRF50 = >Q9842
RRF80 = >Q9843 RRF120= >Q9844 RRF160= >Q9845

COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD	
Dibenzofuran	*	1.645	1.566	1.485	1.327	1.225	1.450	11.9	*
2,4-Dinitrotoluene	*	0.472	0.496	0.492	0.445	0.440	0.469	5.5	*
Diethylphthalate	*	1.688	1.684	1.602	1.402	1.325	1.540	10.8	*
4-Chlorophenyl-phenyl Ether	*	0.653	0.608	0.570	0.505	0.454	0.558	14.2	*
Fluorene	*	1.294	1.171	1.078	0.940	0.875	1.072	15.8	*
4-Nitroaniline	*	0.502	0.535	0.535	0.483	0.469	0.505	5.9	*
4,6-Dinitro-2-methylphenol	*	0.146	0.160	0.155	0.141	0.134	0.147	7.1	*
N-Nitrosodiphenylamine	*	0.514	0.453	0.410	0.363	0.341	0.416	16.8	*
4-Bromophenyl-phenylether	*	0.208	0.203	0.188	0.171	0.165	0.187	10.1	*
Hexachlorobenzene	*	0.238	0.227	0.209	0.191	0.184	0.210	10.9	*
Pentachlorophenol	*	0.124	0.139	0.139	0.130	0.132	0.133	4.8	*
Phenanthrene	*	0.894	0.835	0.768	0.703	0.669	0.774	12.0	*
Anthracene	*	0.955	0.858	0.762	0.685	0.649	0.782	16.1	*
Carbazole	*	1.104	1.004	0.918	0.807	0.763	0.919	15.2	*
Di-n-butylphthalate	*	1.602	1.409	1.271	1.112	1.018	1.282	18.2	*
Fluoranthene	*	1.412	1.189	1.086	0.950	0.868	1.101	19.4	*
Pyrene	*	1.441	1.526	1.476	1.358	1.472	1.455	4.3	*
Butylbenzylphthalate	*	0.820	0.850	0.832	0.763	0.831	0.819	4.0	*
3,3'-Dichlorobenzidine	*	0.564	0.548	0.522	0.495	0.465	0.519	7.7	*
Benzo(a)anthracene	*	1.283	1.203	1.159	1.080	1.143	1.174	6.4	*
Chrysene	*	0.898	0.901	0.879	0.865	0.920	0.893	2.4	*
bis(2-Ethylhexyl)phthalate	*	0.880	0.858	0.831	0.767	0.807	0.829	5.3	*
Di-n-octylphthalate	*	2.168	2.400	2.199	1.897	1.841	2.101	11.0	*
Benzo(b)fluoranthene	*	1.447	1.469	1.310	1.311	1.216	1.351	7.8	*
Benzo(k)fluoranthene	*	1.109	1.003	0.947	0.788	0.789	0.927	15.0	*
Benzo(a)pyrene	*	1.256	1.233	1.135	1.074	1.034	1.146	8.4	*
Indeno(1,2,3-cd)pyrene	*	1.323	1.179	1.098	1.096	1.108	1.161	8.3	*
Dibenz(a,h)anthracene	*	1.093	0.958	0.867	0.850	0.839	0.921	11.6	*
Benzo(g,h,i)perylene	*	1.176	1.022	1.008	1.020	1.041	1.053	6.6	*
Cyclohexanone		0.884	0.919	0.738	0.640	0.548	0.746	21.1	
Nitrobenzene-D5	*	0.390	0.390	0.376	0.354	0.346	0.371	5.5	*
2-Fluorobiphenyl	*	1.258	1.159	1.092	1.022	0.951	1.096	10.9	*
Terphenyl-D14	*	1.051	1.145	1.116	1.035	1.122	1.094	4.4	*
Phenol-D5	*	2.413	2.528	2.416	2.311	2.104	2.354	6.8	*
2-Fluorophenol	*	1.769	1.919	1.912	1.878	1.841	1.864	3.3	*
2,4,6-Tribromophenol	*	0.225	0.246	0.244	0.221	0.219	0.231	5.6	*

(1) Cannot be separated from Diphenylamine
* Compounds with required minimum RRF and maximum %RSD values.

6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Instrument ID: HP5971Q Calibration Date(s):11/03/00 _____

Calibration Times: 1337 1619

LAB FILE ID: RRF20 = >Q9940 RRF50 = >Q9941
RRF80 = >Q9942 RRF120= >Q9943 RRF160= >Q9944

COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD	
Phenol	*	2.335	2.247	1.968	1.867	1.887	2.061	10.5	*
bis(2-Chloroethyl)ether	*	1.235	1.190	1.081	1.018	1.023	1.109	8.9	*
2-Chlorophenol	*	1.588	1.489	1.360	1.295	1.323	1.411	8.8	*
1,3-Dichlorobenzene	*	1.621	1.601	1.483	1.431	1.418	1.511	6.3	*
1,4-Dichlorobenzene	*	1.461	1.437	1.342	1.297	1.297	1.367	5.7	*
Benzyl alcohol	*	1.019	1.104	1.082	1.012	1.051	1.054	3.8	*
1,2-Dichlorobenzene	*	1.414	1.331	1.176	1.121	1.096	1.228	11.3	*
2-Methylphenol	*	1.481	1.579	1.448	1.370	1.404	1.456	5.5	*
2,2'-oxybis(1-Chloropropane)	*	2.038	1.935	1.714	1.596	1.587	1.774	11.5	*
4-Methylphenol	*	1.484	1.500	1.369	1.288	1.313	1.391	7.0	*
N-Nitroso-di-n-propylamine	*	1.026	0.982	0.922	0.865	0.884	0.936	7.2	*
Hexachloroethane	*	0.570	0.571	0.530	0.513	0.502	0.537	6.0	*
Nitrobenzene	*	0.367	0.356	0.340	0.325	0.307	0.339	7.1	*
Isophorone	*	0.812	0.826	0.798	0.763	0.743	0.788	4.4	*
2-Nitrophenol	*	0.240	0.250	0.247	0.242	0.232	0.242	2.9	*
2,4-Dimethylphenol	*	0.342	0.352	0.343	0.332	0.319	0.338	3.7	*
Benzoic acid	*	0.173	0.240	0.274	0.272	0.276	0.247	17.8	*
bis(2-Chloroethoxy)methane	*	0.500	0.494	0.472	0.448	0.436	0.470	5.9	*
2,4-Dichlorophenol	*	0.306	0.307	0.295	0.282	0.272	0.292	5.2	*
1,2,4-Trichlorobenzene	*	0.319	0.305	0.287	0.277	0.264	0.290	7.6	*
Naphthalene	*	0.973	0.956	0.883	0.846	0.816	0.895	7.6	*
4-Chloroaniline	*	0.493	0.510	0.484	0.458	0.444	0.478	5.6	*
Hexachlorobutadiene	*	0.153	0.158	0.152	0.148	0.142	0.151	4.0	*
4-Chloro-3-methylphenol	*	0.365	0.382	0.372	0.355	0.339	0.363	4.5	*
2-Methylnaphthalene	*	0.680	0.643	0.551	0.509	0.488	0.574	14.6	*
Hexachlorocyclopentadiene	*	0.099	0.164	0.225	0.234	0.226	0.190	30.5	*
2,4,6-Trichlorophenol	*	0.437	0.436	0.427	0.400	0.382	0.416	5.8	*
2,4,5-Trichlorophenol	*	0.455	0.440	0.418	0.399	0.373	0.417	7.8	*
2-Chloronaphthalene	*	1.114	1.007	0.907	0.844	0.781	0.931	14.2	*
2-Nitroaniline	*	0.421	0.415	0.421	0.400	0.383	0.408	4.0	*
Dimethylphthalate	*	1.607	1.555	1.494	1.396	1.308	1.472	8.2	*
Acenaphthylene	*	2.098	1.932	1.753	1.597	1.484	1.773	14.0	*
2,6-Dinitrotoluene	*	0.329	0.312	0.306	0.286	0.273	0.301	7.3	*
3-Nitroaniline	*	0.459	0.460	0.437	0.422	0.414	0.438	4.8	*
Acenaphthene	*	1.057	1.004	0.946	0.886	0.829	0.944	9.6	*
2,4-Dinitrophenol	*	0.106	0.176	0.220	0.224	0.230	0.191	27.3	*
4-Nitrophenol	*	0.168	0.182	0.184	0.172	0.167	0.175	4.5	*

* Compounds with required minimum RRF and maximum %RSD values.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Instrument ID: HP5971Q Calibration Date(s):11/03/00 _____

Calibration Times: 1337 1619

LAB FILE ID: RRF20 = >Q9940 RRF50 = >Q9941
RRF80 = >Q9942 RRF120= >Q9943 RRF160= >Q9944

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Dibenzofuran	* 1.647	1.530	1.427	1.306	1.217	1.425	12.0 *
2,4-Dinitrotoluene	* 0.469	0.462	0.469	0.441	0.435	0.455	3.5 *
Diethylphthalate	* 1.664	1.619	1.536	1.422	1.332	1.515	9.1 *
4-Chlorophenyl-phenyl Ether	* 0.631	0.564	0.506	0.452	0.415	0.514	16.8 *
Fluorene	* 1.345	1.226	1.063	0.950	0.876	1.092	17.7 *
4-Nitroaniline	* 0.484	0.494	0.501	0.476	0.468	0.485	2.7 *
4,6-Dinitro-2-methylphenol	* 0.133	0.147	0.152	0.146	0.142	0.144	4.9 *
N-Nitrosodiphenylamine	* 0.522	0.464	0.423	0.385	0.356	0.430	15.2 *
4-Bromophenyl-phenylether	* 0.212	0.202	0.193	0.182	0.171	0.192	8.4 *
Hexachlorobenzene	* 0.245	0.229	0.220	0.203	0.195	0.218	9.2 *
Pentachlorophenol	* 0.086	0.112	0.125	0.122	0.121	0.113	14.1 *
Phenanthrene	* 0.923	0.881	0.802	0.754	0.723	0.817	10.3 *
Anthracene	* 0.978	0.882	0.790	0.726	0.688	0.813	14.5 *
Carbazole	* 1.094	1.024	0.926	0.854	0.814	0.942	12.4 *
Di-n-butylphthalate	* 1.620	1.482	1.304	1.212	1.129	1.349	14.8 *
Fluoranthene	* 1.407	1.246	1.082	1.015	0.966	1.143	15.9 *
Pyrene	* 1.437	1.396	1.420	1.332	1.245	1.366	5.7 *
Butylbenzylphthalate	* 0.850	0.824	0.836	0.787	0.730	0.805	6.0 *
3,3'-Dichlorobenzidine	* 0.492	0.503	0.449	0.421	0.380	0.449	11.3 *
Benzo(a)anthracene	* 1.322	1.263	1.160	1.085	1.030	1.172	10.3 *
Chrysene	* 0.978	0.972	0.867	0.820	0.752	0.878	11.1 *
bis(2-Ethylhexyl)phthalate	* 0.836	0.792	0.749	0.688	0.634	0.740	10.9 *
Di-n-octylphthalate	* 2.252	2.287	2.302	2.136	2.003	2.196	5.7 *
Benzo(b)fluoranthene	* 1.402	1.369	1.320	1.253	1.405	1.350	4.7 *
Benzo(k)fluoranthene	* 1.179	1.127	0.978	0.916	0.683	0.977	20.0 *
Benzo(a)pyrene	* 1.238	1.242	1.157	1.100	1.076	1.163	6.6 *
Indeno(1,2,3-cd)pyrene	* 1.364	1.310	1.195	1.205	1.255	1.266	5.6 *
Dibenz(a,h)anthracene	* 1.113	1.064	0.944	0.915	0.940	0.995	8.8 *
Benzo(g,h,i)perylene	* 1.144	1.145	1.049	1.090	1.168	1.119	4.3 *
Cyclohexanone	0.875	0.888	0.652	0.559	0.491	0.693	26.2
Nitrobenzene-D5	* 0.387	0.386	0.380	0.368	0.362	0.377	3.0 *
2-Fluorobiphenyl	* 1.295	1.190	1.087	0.991	0.911	1.095	14.0 *
Terphenyl-D14	* 1.060	1.047	1.074	1.022	0.965	1.034	4.1 *
Phenol-D5	* 2.389	2.523	2.369	2.254	2.305	2.368	4.3 *
2-Fluorophenol	* 1.718	1.885	1.951	1.950	1.986	1.898	5.6 *
2,4,6-Tribromophenol	* 0.213	0.216	0.222	0.217	0.210	0.216	2.1 *

(1) Cannot be separated from Diphenylamine
* Compounds with required minimum RRF and maximum %RSD values.

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Instrument ID: HP5971Q Calibration Date: 11/02/00 Time: 1025

Lab File ID: >Q9919 Init. Calib. Date(s): 10/27/00 _____

Init. Calib. Times: 1036 1326

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	2.066	1.949		-5.7	20.0
bis(2-Chloroethyl)ether	1.064	1.042		-2.1	
2-Chlorophenol	1.343	1.299		-3.3	
1,3-Dichlorobenzene	1.495	1.458		-2.5	
1,4-Dichlorobenzene	1.307	1.280		-2.1	20.0
Benzyl alcohol	1.138	0.823		-27.7	
1,2-Dichlorobenzene	1.168	1.197		2.5	
2-Methylphenol	1.435	1.323		-7.8	
2,2'-oxybis(1-Chloropropane)	1.753	1.695		-3.3	
4-Methylphenol	1.345	1.256		-6.6	
N-Nitroso-di-n-propylamine	0.937	0.869	0.050	-7.3	
Hexachloroethane	0.550	0.524		-4.7	
Nitrobenzene	0.330	0.319		-3.3	
Isophorone	0.776	0.732		-5.7	
2-Nitrophenol	0.239	0.226		-5.4	20.0
2,4-Dimethylphenol	0.322	0.319		-0.9	
Benzoic acid	0.285	0.205		-28.1	
bis(2-Chloroethoxy)methane	0.442	0.432		-2.3	
2,4-Dichlorophenol	0.284	0.274		-3.5	20.0
1,2,4-Trichlorobenzene	0.282	0.274		-2.8	
Naphthalene	0.851	0.846		-0.6	
4-Chloroaniline	0.463	0.452		-2.4	
Hexachlorobutadiene	0.146	0.144		-1.4	20.0
4-Chloro-3-methylphenol	0.346	0.343		-0.9	20.0
2-Methylnaphthalene	0.550	0.552		0.4	
Hexachlorocyclopentadiene	0.283	0.197	0.050	-30.4	
2,4,6-Trichlorophenol	0.427	0.381		-10.8	20.0
2,4,5-Trichlorophenol	0.427	0.386		-9.6	
2-Chloronaphthalene	0.936	0.891		-4.8	
2-Nitroaniline	0.428	0.388		-9.3	
Dimethylphthalate	1.500	1.395		-7.0	
Acenaphthylene	1.767	1.741		-1.5	
2,6-Dinitrotoluene	0.309	0.286		-7.4	
3-Nitroaniline	0.486	0.419		-13.8	
Acenaphthene	0.952	0.886		-6.9	20.0
2,4-Dinitrophenol	0.234	0.198	0.050	-15.4	
4-Nitrophenol	0.204	0.173	0.050	-15.2	

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Instrument ID: HP5971Q Calibration Date: 11/02/00 Time: 1025

Lab File ID: >Q9919 Init. Calib. Date(s): 10/27/00 _____ ____

Init. Calib. Times: 1036 1326

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dibenzofuran	1.450	1.366		-5.8	
2,4-Dinitrotoluene	0.469	0.425		-9.4	
Diethylphthalate	1.540	1.454		-5.6	
4-Chlorophenyl-Phenyl Ether	0.558	0.508		-9.0	
Fluorene	1.072	1.071		-0.1	
4-Nitroaniline	0.505	0.452		-10.5	
4,6-Dinitro-2-methylphenol	0.147	0.146		-0.7	
N-Nitrosodiphenylamine	0.416	0.424		1.9	20.0
4-Bromophenyl-phenylether	0.187	0.184		-1.6	
Hexachlorobenzene	0.210	0.211		0.5	
Pentachlorophenol	0.133	0.115		-13.5	20.0
Phenanthrene	0.774	0.762		-1.6	
Anthracene	0.782	0.788		0.8	
Carbazole	0.919	0.918		-0.1	
Di-n-butylphthalate	1.282	1.323		3.2	
Fluoranthene	1.101	1.123		2.0	20.0
Pyrene	1.455	1.233		-15.2	
Butylbenzylphthalate	0.819	0.716		-12.6	
3,3'-Dichlorobenzidine	0.519	0.451		-13.1	
Benzo(a)anthracene	1.174	1.069		-8.9	
Chrysene	0.893	0.808		-9.5	
bis(2-Ethylhexyl)phthalate	0.829	0.662		-20.1	
Di-n-octylphthalate	2.101	1.976		-6.0	20.0
Benzo(b)fluoranthene	1.351	1.236		-8.5	
Benzo(k)fluoranthene	0.927	0.914		-1.4	
Benzo(a)pyrene	1.146	1.079		-5.8	20.0
Indeno(1,2,3-cd)pyrene	1.161	1.118		-3.7	
Dibenz(a,h)anthracene	0.921	0.898		-2.5	
Benzo(g,h,i)perylene	1.053	0.967		-8.2	
Cyclohexanone	0.746	0.805		7.9	
Nitrobenzene-D5	0.371	0.347		-6.5	
2-Fluorobiphenyl	1.096	1.038		-5.3	
Terphenyl-D14	1.094	0.934		-14.6	
Phenol-D5	2.354	2.184		-7.2	
2-Fluorophenol	1.864	1.672		-10.3	
2,4,6-Tribromophenol	0.231	0.201		-13.0	

(1) Cannot be separated from Diphenylamine

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Instrument ID: HP5971Q Calibration Date: 11/03/00 Time: 1741

Lab File ID: >Q9946 Init. Calib. Date(s): 11/03/00 _____

Init. Calib. Times: 1337 1619

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	2.061	2.141		3.9	20.0
bis(2-Chloroethyl)ether	1.109	1.149		3.6	
2-Chlorophenol	1.411	1.449		2.7	
1,3-Dichlorobenzene	1.511	1.608		6.4	
1,4-Dichlorobenzene	1.367	1.401		2.5	20.0
Benzyl alcohol	1.054	1.146		8.7	
1,2-Dichlorobenzene	1.228	1.282		4.4	
2-Methylphenol	1.456	1.546		6.2	
2,2'-oxybis(1-Chloropropane)	1.774	1.873		5.6	
4-Methylphenol	1.391	1.484		6.7	
N-Nitroso-di-n-propylamine	0.936	0.967	0.050	3.3	
Hexachloroethane	0.537	0.558		3.9	
Nitrobenzene	0.339	0.362		6.8	
Isophorone	0.788	0.849		7.7	
2-Nitrophenol	0.242	0.257		6.2	20.0
2,4-Dimethylphenol	0.338	0.361		6.8	
Benzoic acid	0.247	0.258		4.4	
bis(2-Chloroethoxy)methane	0.470	0.501		6.6	
2,4-Dichlorophenol	0.292	0.314		7.5	20.0
1,2,4-Trichlorobenzene	0.290	0.310		6.9	
Naphthalene	0.895	0.946		5.7	
4-Chloroaniline	0.478	0.527		10.2	
Hexachlorobutadiene	0.151	0.160		6.0	20.0
4-Chloro-3-methylphenol	0.363	0.400		10.2	20.0
2-Methylnaphthalene	0.574	0.610		6.3	
Hexachlorocyclopentadiene	0.190	0.228	0.050	20.0	
2,4,6-Trichlorophenol	0.416	0.450		8.2	20.0
2,4,5-Trichlorophenol	0.417	0.447		7.2	
2-Chloronaphthalene	0.931	1.002		7.6	
2-Nitroaniline	0.408	0.444		8.8	
Dimethylphthalate	1.472	1.610		9.4	
Acenaphthylene	1.773	1.925		8.6	
2,6-Dinitrotoluene	0.301	0.329		9.3	
3-Nitroaniline	0.438	0.464		5.9	
Acenaphthene	0.944	1.007		6.7	20.0
2,4-Dinitrophenol	0.191	0.216	0.050	13.1	
4-Nitrophenol	0.175	0.194	0.050	10.8	

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Instrument ID: HP5971Q Calibration Date: 11/03/00 Time: 1741

Lab File ID: >Q9946 Init. Calib. Date(s): 11/03/00 _____

Init. Calib. Times: 1337 1619

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dibenzofuran	1.425	1.541		8.1	
2,4-Dinitrotoluene	0.455	0.490		7.7	
Diethylphthalate	1.515	1.653		9.1	
4-Chlorophenyl-Phenyl Ether	0.514	0.556		8.2	
Fluorene	1.092	1.194		9.3	
4-Nitroaniline	0.485	0.524		8.0	
4,6-Dinitro-2-methylphenol	0.144	0.162		12.5	
N-Nitrosodiphenylamine	0.430	0.479		11.4	20.0
4-Bromophenyl-phenylether	0.192	0.211		9.9	
Hexachlorobenzene	0.218	0.246		12.8	
Pentachlorophenol	0.113	0.129		14.2	20.0
Phenanthrene	0.817	0.866		6.0	
Anthracene	0.813	0.888		9.2	
Carbazole	0.942	1.045		10.9	
Di-n-butylphthalate	1.349	1.480		9.7	
Fluoranthene	1.143	1.214		6.2	20.0
Pyrene	1.366	1.477		8.1	
Butylbenzylphthalate	0.805	0.840		4.4	
3,3'-Dichlorobenzidine	0.449	0.485		8.0	
Benzo(a)anthracene	1.172	1.224		4.4	
Chrysene	0.878	0.929		5.8	
bis(2-Ethylhexyl)phthalate	0.740	0.790		6.8	
Di-n-octylphthalate	2.196	2.454		11.7	20.0
Benzo(b)fluoranthene	1.350	1.428		5.8	
Benzo(k)fluoranthene	0.977	1.041		6.6	
Benzo(a)pyrene	1.163	1.246		7.1	20.0
Indeno(1,2,3-cd)pyrene	1.266	1.235		-2.4	
Dibenz(a,h)anthracene	0.995	1.002		0.7	
Benzo(g,h,i)perylene	1.119	1.060		-5.3	
Cyclohexanone	0.693	0.865		24.8	
Nitrobenzene-D5	0.377	0.397		5.3	
2-Fluorobiphenyl	1.095	1.180		7.8	
Terphenyl-D14	1.034	1.127		9.0	
Phenol-D5	2.368	2.499		5.5	
2-Fluorophenol	1.898	1.951		2.8	
2,4,6-Tribromophenol	0.216	0.232		7.4	

(1) Cannot be separated from Diphenylamine

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Lab File ID: (Standard): >Q9919 Date Analyzed:11/02/00

Instrument ID: HP5971Q Time Analyzed:1025

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	102967	8.93	423651	11.90	228159	15.83
	UPPER LIMIT	205934	9.43	847302	12.40	456318	16.33
	LOWER LIMIT	51484	8.43	211826	11.40	114080	15.33
	EPA SAMPLE NO.						
01	SBLKLQ	141022	8.93	636293	11.89	333659	15.84
02	SBLKLQFMS	118130	8.93	476800	11.90	251198	15.84
03	FB102000	147230	8.94	634096	11.89	341768	15.83
04	SW-01	142588	8.94	618364	11.89	320366	15.83
05	SW-02	136235	8.93	586872	11.90	282317	15.84
06	SW-03	144519	8.94	616191	11.89	312646	15.84
07	SW-04	158639	8.92	620711	11.89	323828	15.84
08	SW-05	148798	8.93	472768	11.90	305378	15.84
09	SW-06	138016	8.92	462222	11.89	299953	15.83
10	SW-07	127021	8.93	607929	11.90	312623	15.84
11	SW-08	134206	8.92	567266	11.89	276481	15.84
12	SW-09	122740	8.93	555795	11.90	284627	15.84
13	SW-10	153132	8.93	663351	11.90	332610	15.84
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-1

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Lab File ID: (Standard): >Q9919 Date Analyzed:11/02/00

Instrument ID: HP5971Q Time Analyzed:1025

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	452254	18.89	367043	24.30	332469	27.05
	UPPER LIMIT	904508	19.39	734086	24.80	664938	27.55
	LOWER LIMIT	226127	18.39	183522	23.80	166234	26.55
	EPA SAMPLE NO.						
01	SBLKLQ	587283	18.89	555763	24.30	454568	27.05
02	SBLKLQFMS	406385	18.90	350521	24.31	308265	27.05
03	FB102000	590487	18.89	532604	24.30	440084	27.04
04	SW-01	466293	18.90	406874	24.30	276734	27.05
05	SW-02	479048	18.90	415337	24.31	314729	27.05
06	SW-03	535634	18.89	455591	24.30	348124	27.05
07	SW-04	486631	18.90	410583	24.30	285645	27.05
08	SW-05	490947	18.90	398668	24.31	305243	27.05
09	SW-06	503242	18.89	470299	24.30	363384	27.05
10	SW-07	508444	18.90	406334	24.31	287150	27.05
11	SW-08	462089	18.89	348442	24.30	256200	27.05
12	SW-09	484888	18.89	401976	24.31	293452	27.05
13	SW-10	517825	18.90	418474	24.31	289057	27.05
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-2

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Lab File ID: (Standard): >Q9946 Date Analyzed:11/03/00

Instrument ID: HP5971Q Time Analyzed:1741

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	116265	8.87	473446	11.84	254241	15.79
	UPPER LIMIT	232530	9.37	946892	12.34	508482	16.29
	LOWER LIMIT	58132	8.37	236723	11.34	127120	15.29
	EPA SAMPLE NO.						
01	SW-09MS	109141	8.87	433170	11.84	263775	15.78
02	SW-09MSD	129787	8.88	505451	11.83	315656	15.78
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-1

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2381A SAS No.: _____ SDG No.: A2381

Lab File ID: (Standard): >Q9946 Date Analyzed:11/03/00

Instrument ID: HP5971Q Time Analyzed:1741

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	495424	18.84	362236	24.25	306111	26.98
	UPPER LIMIT	990848	19.34	724472	24.75	612222	27.48
	LOWER LIMIT	247712	18.34	181118	23.75	153056	26.48
	EPA SAMPLE NO.						
01	SW-09MS	409840	18.84	408640	24.24	320202	26.98
02	SW-09MSD	478913	18.84	429367	24.24	311898	26.97
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-2

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

SOW No.: ILM04.0

Field Sample ID	Lab Sample ID.
SW-01	002381A-01
SW-02	002381A-02
SW-03	002381A-03
SW-04	002381A-04
SW-05	002381A-05
SW-06	002381A-06
SW-07	002381A-07
SW-08	002381A-08
SW-09D	002381A-09D
SW-09S	002381A-09S
SW-09	002381A-09
SW-10	002381A-10
FB102000	002381A-11
SW-01	F002381A-01
SW-02	F002381A-02
SW-03	F002381A-03
SW-04	F002381A-04
SW-05	F002381A-05
SW-06	F002381A-06
SW-07	F002381A-07

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: [signature] Name: David W. Helfrich

Date: 11/7/00 Title: Group Leader

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

SOW No.: ILM04.0

Field Sample ID	Lab Sample ID.
SW-08	F002381A-08
SW-09D	F002381A-09D
SW-09S	F002381A-09S
SW-09	F002381A-09
SW-10	F002381A-10
FB102000	F002381A-11
SW-01	T002381A-01
SW-02	T002381A-02
SW-03	T002381A-03
SW-04	T002381A-04
SW-05	T002381A-05
SW-06	T002381A-06
SW-07	T002381A-07
SW-08	T002381A-08
SW-09D	T002381A-09D
SW-09S	T002381A-09S
SW-09	T002381A-09
SW-10	T002381A-10
FB102000	T002381A-11

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Daniel W. Helfrich Name: Daniel W. Helfrich

Date: 11/7/00 Title: Group Leader

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-01

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix (soil/water): WATER Lab Sample ID: F002381A-01

Level (low/med): LOW Date Received: 10/21/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	5.0	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-02

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix (soil/water): WATER Lab Sample ID: F002381A-02

Level (low/med): LOW Date Received: 10/21/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-03

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix (soil/water): WATER Lab Sample ID: F002381A-03

Level (low/med): LOW Date Received: 10/21/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	9.3	B		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-04

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix (soil/water): WATER Lab Sample ID: F002381A-04

Level (low/med): LOW Date Received: 10/21/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	10.8			P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-05

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix (soil/water): WATER Lab Sample ID: F002381A-05

Level (low/med): LOW Date Received: 10/21/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-06

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix (soil/water): WATER Lab Sample ID: F002381A-06

Level (low/med): LOW Date Received: 10/21/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	B		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-07

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix (soil/water): WATER Lab Sample ID: F002381A-07

Level (low/med): LOW Date Received: 10/21/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-08

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix (soil/water): WATER Lab Sample ID: F002381A-02

Level (low/med): LOW Date Received: 10/21/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-09

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix (soil/water): WATER Lab Sample ID: F002381A-09

Level (low/med): LOW Date Received: 10/21/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	10.8			P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-10

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix (soil/water): WATER Lab Sample ID: F002381A-10

Level (low/med): LOW Date Received: 10/21/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.8	B		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

FB102000

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix (soil/water): WATER Lab Sample ID: F002381A-11

Level (low/med): LOW Date Received: 10/21/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-01

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix (soil/water): WATER Lab Sample ID: T002381A-01

Level (low/med): LOW Date Received: 10/21/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	6.2	B		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	13.7			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	16.4			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-02

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix (soil/water): WATER Lab Sample ID: T002381A-02

Level (low/med): LOW Date Received: 10/21/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.6	B		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	5.0	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	4.8			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-03

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix (soil/water): WATER Lab Sample ID: T002381A-03

Level (low/med): LOW Date Received: 10/21/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	12.2			P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	2.2	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	3.7			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-04

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix (soil/water): WATER Lab Sample ID: T002381A-04

Level (low/med): LOW Date Received: 10/21/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	71.0	B		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	30.5			P
7440-39-3	Barium	27.5	B		P
7440-41-7	Beryllium	0.50	U		P
7440-43-9	Cadmium	0.70	B		P
7440-70-2	Calcium	37900			P
7440-47-3	Chromium	1.7	B		P
7440-48-4	Cobalt	1.5	B		P
7440-50-8	Copper	10.7	B		P
7439-89-6	Iron	2520			P
7439-92-1	Lead	3.4			P
7439-95-4	Magnesium	5530			P
7439-96-5	Manganese	359.			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	2.1	B		P
7440-09-7	Potassium	6760			P
7782-49-2	Selenium	5.0	U	N	P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	39600			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	225.			P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-05

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix (soil/water): WATER Lab Sample ID: T002381A-05

Level (low/med): LOW Date Received: 10/21/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	1.4	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	8.9			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-06

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix (soil/water): WATER Lab Sample ID: T002381A-06

Level (low/med): LOW Date Received: 10/21/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	5.6			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-07

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix (soil/water): WATER Lab Sample ID: T002381A-07

Level (low/med): LOW Date Received: 10/21/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	1.7	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	6.9			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-08

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix (soil/water): WATER Lab Sample ID: T002381A-08

Level (low/med): LOW Date Received: 10/21/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.8	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	7.3			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-09

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix (soil/water): WATER Lab Sample ID: T002381A-09

Level (low/med): LOW Date Received: 10/21/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	181.	B		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	19.4			P
7440-39-3	Barium	25.7	B		P
7440-41-7	Beryllium	0.50	U		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	33600			P
7440-47-3	Chromium	4.2	B		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	10.7	B		P
7439-89-6	Iron	1900			P
7439-92-1	Lead	3.1			P
7439-95-4	Magnesium	5090			P
7439-96-5	Manganese	266.			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	3.0	B		P
7440-09-7	Potassium	6320			P
7782-49-2	Selenium	5.0	U	N	P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	31800			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	198.			P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-10

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix (soil/water): WATER Lab Sample ID: T002381A-10

Level (low/med): LOW Date Received: 10/21/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	7.6	B		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	14.0			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	16.9			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

FB102000

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix (soil/water): WATER Lab Sample ID: T002381A-11

Level (low/med): LOW Date Received: 10/21/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	110.	B		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium	7.1	B		P
7440-41-7	Beryllium	0.50	U		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	35700			P
7440-47-3	Chromium	2.5	B		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	4.2	B		P
7439-89-6	Iron	110.			P
7439-92-1	Lead	2.9	B		P
7439-95-4	Magnesium	4230	B		P
7439-96-5	Manganese	13.4	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.7	B		P
7440-09-7	Potassium	902.	B		P
7782-49-2	Selenium	5.0	U	N	P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	2690	B		P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	16.8	B		P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

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2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2381

Initial Calibration Source: INORG. VENT.

Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum	11000.0	11097.13	100.9	5500.0	5478.98	99.6	5427.38	98.7	P
Antimony	1000.0	1014.97	101.5	500.0	510.84	102.2	504.82	101.0	P
Arsenic	1000.0	1023.36	102.3	500.0	505.29	101.0	506.41	101.3	P
Barium	1000.0	1009.37	100.9	500.0	504.52	100.9	507.03	101.4	P
Beryllium	1000.0	1039.45	103.9	500.0	515.19	103.0	512.48	102.5	P
Cadmium	1000.0	1022.41	102.2	500.0	509.07	101.8	507.87	101.6	P
Calcium	27000.0	26848.31	99.4	19800.0	19655.93	99.3	19491.68	98.4	P
Chromium	1000.0	1014.04	101.4	500.0	504.33	100.9	502.02	100.4	P
Cobalt	1000.0	1002.04	100.2	500.0	496.59	99.3	493.31	98.7	P
Copper	1000.0	999.80	100.0	500.0	494.62	98.9	492.25	98.4	P
Iron	11000.0	11044.90	100.4	5500.0	5534.12	100.6	5503.80	100.1	P
Lead	1000.0	1015.01	101.5	500.0	502.67	100.5	502.06	100.4	P
Magnesium	27000.0	26664.59	98.8	19800.0	19395.53	98.0	19255.78	97.2	P
Manganese	1000.0	996.39	99.6	500.0	494.88	99.0	490.97	98.2	P
Mercury	5.0	4.98	99.6	5.0	5.16	103.2	4.69	93.8	CV
Nickel	1000.0	978.18	97.8	500.0	488.23	97.6	486.27	97.2	P
Potassium	20000.0	20761.20	103.8	10000.0	9720.99	97.2	9629.57	96.3	P
Selenium	1000.0	1049.10	104.9	500.0	520.24	104.0	519.35	103.9	P
Silver	100.0	102.96	103.0	50.0	51.65	103.3	51.66	103.3	P
Sodium	27000.0	26603.55	98.5	19800.0	20663.47	104.4	20508.31	103.6	P
Thallium	1000.0	1055.24	105.5	500.0	526.84	105.4	523.61	104.7	P
Vanadium	1000.0	1047.15	104.7	500.0	521.46	104.3	522.24	104.4	P
Zinc	1000.0	1034.92	103.5	500.0	514.78	103.0	511.87	102.4	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110 ; Cyanide 85-115;

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2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2381

Initial Calibration Source: INORG. VENT.

Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum				5500.0	5477.02	99.6	5485.12	99.7	P
Antimony				500.0	508.36	101.7	512.25	102.4	P
Arsenic				500.0	504.63	100.9	502.51	100.5	P
Barium				500.0	510.41	102.1	512.11	102.4	P
Beryllium				500.0	514.29	102.8	511.76	102.4	P
Cadmium				500.0	509.51	101.9	508.41	101.7	P
Calcium				19800.0	19540.35	98.7	19434.67	98.2	P
Chromium				500.0	504.43	100.9	503.01	100.6	P
Cobalt				500.0	495.94	99.2	494.11	98.8	P
Copper				500.0	496.99	99.4	496.29	99.2	P
Iron				5500.0	5537.06	100.7	5505.78	100.1	P
Lead				500.0	502.33	100.5	497.90	99.6	P
Magnesium				19800.0	19352.08	97.7	19161.29	96.8	P
Manganese				500.0	494.76	99.0	492.14	98.4	P
Mercury				5.0	4.90	98.0	4.93	98.6	CV
Nickel				500.0	486.36	97.3	484.66	96.9	P
Potassium				10000.0	9570.17	95.7	9709.62	97.1	P
Selenium				500.0	520.56	104.1	521.57	104.3	P
Silver				50.0	51.86	103.7	51.81	103.6	P
Sodium				19800.0	20585.67	104.0	20647.31	104.3	P
Thallium				500.0	522.30	104.5	522.64	104.5	P
Vanadium				500.0	525.09	105.0	526.30	105.3	P
Zinc				500.0	511.85	102.4	508.73	101.7	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110 ; Cyanide 85-115;

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2381

Initial Calibration Source: INORG. VENT.

Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum				5500.0	5538.43	100.7			P
Antimony				500.0	510.68	102.1			P
Arsenic				500.0	508.88	101.8			P
Barium				500.0	516.48	103.3			P
Beryllium				500.0	516.63	103.3			P
Cadmium				500.0	511.15	102.2			P
Calcium				19800.0	19640.71	99.2			P
Chromium				500.0	507.14	101.4			P
Cobalt				500.0	498.64	99.7			P
Copper				500.0	499.38	99.9			P
Iron				5500.0	5574.85	101.4			P
Lead				500.0	502.45	100.5			P
Magnesium				19800.0	19294.41	97.4			P
Manganese				500.0	497.39	99.5			P
Mercury				5.0	4.35	87.0	4.46	89.2	CV
Nickel				500.0	488.18	97.6			P
Potassium				10000.0	9603.69	96.0			P
Selenium				500.0	521.85	104.4			P
Silver				50.0	52.30	104.6			P
Sodium				19800.0	20763.20	104.9			P
Thallium				500.0	540.69	108.1			P
Vanadium				500.0	529.13	105.8			P
Zinc				500.0	513.39	102.7			P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110 ; Cyanide 85-115;

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2381

Initial Calibration Source: INORG. VENT.

Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury				5.0	4.38	87.6	4.27	85.4	CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110 ; Cyanide 85-115;

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2381

AA CRDL Standard Source: INORG. VENT.

ICP CRDL Standard Source: INORG. VENT.

Concentration Units: ug/L

Analyte	CRDL Standard for AA True	Found	%R(1)	CRDL Standard for ICP True	Initial Found 10/11/2100	%R(1)	Final Found	%R(1)
Aluminum								
Antimony				120.0	122.83	102.4	126.51	105.4
Arsenic				20.0 ~~5.0~~	18.11	~~362.4~~ 90.6	19.65	~~393.2~~ 98.2
Barium								
Beryllium				10.0	10.13	101.3	10.27	102.7
Cadmium				10.0	10.30	103.1	10.51	105.1
Calcium								
Chromium				20.0	20.25	101.3	20.63	103.2
Cobalt				100.0	99.81	99.8	101.11	101.1
Copper				50.0	51.23	102.5	52.01	104.0
Iron								
Lead				6.0 ~~4.0~~	5.63	~~140.9~~ 93.8	9.09	~~227.4~~ 151.5
Magnesium								
Manganese				30.0	30.26	100.9	30.58	101.9
Mercury								
Nickel				80.0	80.32	100.4	81.22	101.5
Potassium								
Selenium				10.0	11.74	117.4	10.26	102.7
Silver				20.0	21.03	105.2	21.17	105.9
Sodium								
Thallium				20.0	9.34	46.7	11.93	59.7
Vanadium				100.0	102.01	102.0	104.87	104.9
Zinc				40.0	39.48	98.7	40.19	100.5
Cyanide								

U.S. EPA - CLP

3
BLANKS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2381

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	10.0	U	10.0	U	10.0	U	-10.8	B	10.000	U	P
Antimony	7.1	B	5.0	U	5.0	U	5.0	U	5.000	U	P
Arsenic	2.5	U	2.5	U	2.5	U	2.5	U	2.500	U	P
Barium	0.5	U	0.5	U	0.5	U	0.5	U	0.500	U	P
Beryllium	0.5	U	0.5	U	0.5	U	0.5	U	0.500	U	P
Cadmium	0.5	U	0.5	U	0.5	U	0.5	U	0.500	U	P
Calcium	10.0	U	11.2	B	10.0	U	10.0	U	10.000	U	P
Chromium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Cobalt	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Copper	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Iron	10.0	U	10.0	U	10.0	U	10.0	U	10.000	U	P
Lead	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Magnesium	10.0	U	10.0	U	10.0	U	10.0	U	10.000	U	P
Manganese	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.100	U	CV
Nickel	1.5	U	1.5	U	1.5	U	1.5	U	1.500	U	P
Potassium	200.0	U	200.0	U	200.0	U	200.0	U	200.000	U	P
Selenium	5.0	U	5.0	U	5.0	U	5.0	U	5.000	U	P
Silver	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Sodium	20.0	U	20.0	U	20.0	U	20.0	U	20.000	U	P
Thallium	6.0	U	-6.6	B	6.0	U	-7.7	B	6.000	U	P
Vanadium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Zinc	5.0	U	5.0	U	5.0	U	5.0	U	5.000	U	P
Cyanide											NR

U.S. EPA - CLP

3
BLANKS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2381

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			-10.8	B	10.0	U			10.000	U	P
Antimony			5.0	U	5.0	U			5.000	U	P
Arsenic			2.5	U	2.5	U			2.500	U	P
Barium			0.5	U	0.5	U			0.500	U	P
Beryllium			0.5	U	0.5	U			0.500	U	P
Cadmium			0.5	U	0.5	U			0.500	U	P
Calcium			10.0	U	12.1	B			10.251	B	P
Chromium			1.0	U	1.0	U			1.000	U	P
Cobalt			1.0	U	1.0	U			1.000	U	P
Copper			1.0	U	1.0	U			1.000	U	P
Iron			-15.1	B	10.0	U			10.000	U	P
Lead			2.0	B	3.0	B			2.008	B	P
Magnesium			10.0	U	10.0	U			10.000	U	P
Manganese			1.0	U	1.0	U			1.000	U	P
Mercury			0.1	U	0.1	U	0.1	U	0.100	U	CV
Nickel			1.5	U	1.5	U			1.500	U	P
Potassium			200.0	U	200.0	U			200.000	U	P
Selenium			5.0	U	5.0	U			5.000	U	P
Silver			1.0	U	1.0	U			1.000	U	P
Sodium			20.0	U	20.0	U			20.000	U	P
Thallium			-8.8	B	6.0	U			6.000	U	P
Vanadium			1.0	U	1.0	U			1.000	U	P
Zinc			5.0	U	5.0	U			5.000	U	P
Cyanide											NR

U.S. EPA - CLP

3
BLANKS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2381

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury			0.10	U							CV
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

U.S. EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2381

ID Number: JA61 ICS Source: EPA-LV87

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	Final Found Sol. AB	%R
Aluminum	500000	500000	537208	525887.8	105.1	544726	532726.1	106.5
Antimony		600	4	662.3	110.3	8	668.9	111.4
Arsenic		100	5	108.4	108.4	2	113.7	113.7
Barium		500	3	539.6	107.9	3	551.7	110.3
Beryllium		500	0	530.2	106.0	0	529.2	105.8
Cadmium		1000	2	995.2	99.5	3	999.2	99.9
Calcium	500000	500000	514153	503971.4	100.7	512457	500427.0	100.0
Chromium		500	2	503.8	100.7	2	506.4	101.2
Cobalt		500	-5	491.3	98.2	-5	490.5	98.1
Copper		500	-3	532.9	106.5	-2	537.2	107.4
Iron	200000	200000	202157	198265.0	99.1	203475	199182.9	99.5
Lead		50	-3	45.6	91.2	-6	45.6	91.2
Magnesium	500000	500000	553159	540268.2	108.0	550812	535323.8	107.0
Manganese		500	-4	494.3	98.8	-4	492.1	98.4
Mercury								
Nickel		1000	-1	960.6	96.0	6	957.0	95.7
Potassium			250	155.5		203	125.9	
Selenium		50	2	55.5	111.0	-4	58.8	117.7
Silver		200	0	223.6	111.8	0	229.3	114.6
Sodium			18	16.2		11	8.9	
Thallium		100	-6	120.4	120.4	13	114.7	114.7
Vanadium		500	-1	525.4	105.0	-1	534.8	106.9
Zinc		1000	1	1010.0	101.0	1	1006.9	100.6
Cyanide								

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SW-09S

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix: WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic	75-125	55.3537		10.8104		40.00	111.4		P
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:
Filtered Metals

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SW-09S

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix: WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	2053.6190		180.9512	B	2000.00	93.6		P
Antimony	75-125	473.9596		5.0000	U	500.00	94.8		P
Arsenic	75-125	60.4296		19.4250		40.00	102.5		P
Barium	75-125	1937.6590		25.7161	B	2000.00	95.6		P
Beryllium	75-125	49.1674		0.5000	U	50.00	98.3		P
Cadmium	75-125	5.3225		0.5000	U	5.00	106.4		P
Calcium				33623.6500		0.00	0.0		P
Chromium	75-125	191.9539		4.2211	B	200.00	93.9		P
Cobalt	75-125	462.6368		1.0000	U	500.00	92.5		P
Copper	75-125	240.9712		10.7300	B	250.00	92.1		P
Iron	75-125	2802.9950		1895.2710		1000.00	90.8		P
Lead	75-125	22.6609		3.0718		20.00	97.9		P
Magnesium				5093.4390		0.00	0.0		P
Manganese	75-125	716.6382		266.0274		500.00	90.1		P
Mercury	75-125	0.9490		0.1000	U	1.00	94.9		CV
Nickel	75-125	463.3536		2.9629	B	500.00	92.1		P
Potassium				6321.3360		0.00	0.0		P
Selenium	75-125	12.5824		5.0000	U	10.00	125.8	N	P
Silver	75-125	48.1931		1.0000	U	50.00	96.4		P
Sodium				31808.1500		0.00	0.0		P
Thallium	75-125	47.8735		6.0000	U	50.00	95.7		P
Vanadium	75-125	482.1752		1.0000	U	500.00	96.4		P
Zinc	75-125	663.8333		198.0481		500.00	93.2		P
Cyanide									NR

Comments:
Total Metals

U.S. EPA - CLP

5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SW-09A

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix: WATER Level (low/med): LOW

Concentration Units: UG/L

Analyte	Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium	75-125	10.6530		5.0000	U	10.00	106.5		P
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:
Total Metals

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

SW-09D

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix: WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic	.0	10.8104		10.5876		2.1		P
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead								NR
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide								NR

Filtered Metals

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

SW-09D

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix: WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		180.9512	B	160.9552	B	11.7		P
Antimony		5.0000	U	5.0000	U			P
Arsenic	.0	19.4250		20.2249		4.0		P
Barium		25.7161	B	30.5561	B	17.2		P
Beryllium		0.5000	U	0.5000	U			P
Cadmium		0.5000	U	0.5051	B	200.0		P
Calcium		33623.6500		33281.7300		1.0		P
Chromium		4.2211	B	3.7222	B	12.6		P
Cobalt		1.0000	U	1.0000	U			P
Copper		10.7300	B	9.7882	B	9.2		P
Iron		1895.2710		1854.5500		2.2		P
Lead	.0	3.0718		5.1498		50.5		P
Magnesium	.0	5093.4390		5023.0640		1.4		P
Manganese		266.0274		264.6417		0.5		P
Mercury		0.1000	U	0.1000	U			CV
Nickel		2.9629	B	2.7040	B	9.1		P
Potassium	.0	6321.3360		6277.6160		0.7		P
Selenium		5.0000	U	5.0000	U			P
Silver		1.0000	U	1.0000	U			P
Sodium		31808.1500		32025.2700		0.7		P
Thallium		6.0000	U	6.0000	U			P
Vanadium		1.0000	U	1.0000	U			P
Zinc		198.0481		208.4050		5.1		P
Cyanide								NR

Total Metals

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2381

Solid LCS Source: _____

Aqueous LCS Source: INORG. VENT.

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	3000.0	2878.20	95.9						
Antimony	1000.0	991.91	99.2						
Arsenic	1000.0	987.92	98.8						
Barium	300.0	299.15	99.7						
Beryllium	100.0	101.75	101.8						
Cadmium	300.0	291.80	97.3						
Calcium	15000.0	15496.89	103.3						
Chromium	300.0	294.94	98.3						
Cobalt	300.0	291.53	97.2						
Copper	300.0	291.11	97.0						
Iron	12500.0	11753.62	94.0						
Lead	1000.0	962.12	96.2						
Magnesium	7500.0	7278.48	97.0						
Manganese	200.0	193.25	96.6						
Mercury	5.0	5.19	103.8						
Nickel	300.0	291.50	97.2						
Potassium	20000.0	21288.96	106.4						
Selenium	500.0	519.44	103.9						
Silver	300.0	299.30	99.8						
Sodium	2500.0	2590.86	103.6						
Thallium	1000.0	983.42	98.3						
Vanadium	300.0	300.65	100.2						
Zinc	300.0	306.75	102.2						
Cyanide									

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7
LABORATORY CONTROL SAMPLE

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2381

Solid LCS Source: _____

Aqueous LCS Source: INORG. VENT.

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	3000.0	2960.54	98.7						
Antimony	1000.0	1012.97	101.3						
Arsenic	1000.0	989.06	98.9						
Barium	300.0	302.70	100.9						
Beryllium	100.0	101.98	102.0						
Cadmium	300.0	293.50	97.8						
Calcium	15000.0	15841.83	105.6						
Chromium	300.0	295.08	98.4						
Cobalt	300.0	293.01	97.7						
Copper	300.0	293.37	97.8						
Iron	12500.0	12051.74	96.4						
Lead	1000.0	961.33	96.1						
Magnesium	7500.0	7459.37	99.4						
Manganese	200.0	194.49	97.2						
Mercury	5.00	5.01	100.0						
Nickel	300.0	293.82	97.9						
Potassium	20000.0	21414.29	107.1						
Selenium	500.0	522.92	104.6						
Silver	300.0	303.17	101.0						
Sodium	2500.0	2664.16	106.6						
Thallium	1000.0	1006.90	100.7						
Vanadium	300.0	303.60	101.2						
Zinc	300.0	308.82	102.9						
Cyanide									

U.S. EPA - CLP

8
STANDARD ADDITION RESULTS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2381

Concentration Units: ug/L

EPA Sample No.	An	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q

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9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

SW-09L

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix(soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	180.95	B	132.46	B	26.8		P
Antimony	5.00	U	25.00	U			P
Arsenic	19.42		12.59	B	35.2		P
Barium	25.72	B	27.10	B	5.4		P
Beryllium	0.50	U	2.50	U			P
Cadmium	0.50	U	2.50	U			P
Calcium	33623.65		32864.72		2.2		P
Chromium	4.22	B	5.00	U	100.0		P
Cobalt	1.00	U	5.00	U			P
Copper	10.73	B	14.24	B	32.7		P
Iron	1895.27		1805.03		4.8		P
Lead	3.07		12.13	B	294.9		P
Magnesium	5093.44		5000.01	B	1.8		P
Manganese	266.03		263.05		1.1		P
Mercury							NR
Nickel	2.96	B	7.50	U	100.0		P
Potassium	6321.34		4372.30	B	30.8		P
Selenium	5.00	U	25.00	U			P
Silver	1.00	U	5.00	U			P
Sodium	31808.15		29029.72		8.7		P
Thallium	6.00	U	30.00	U			P
Vanadium	1.00	U	5.00	U			P
Zinc	198.05		192.30		2.9		P
Cyanide							NR

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10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2381

ICP ID Number: JA61 Date: 10/01/00

Flame AA ID Number: _____

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	208.20		200.0	10.0	P
Antimony	206.83		60.0	5.0	P
Arsenic	193.60		10.0	2.5	P
Barium	493.40		200.0	.5	P
Beryllium	234.86		5.0	.5	P
Cadmium	228.80		5.0	.5	P
Calcium	317.93		5000.0	10.0	P
Chromium	267.70		10.0	1.0	P
Cobalt	228.61		50.0	1.0	P
Copper	324.75		25.0	1.0	P
Iron	271.44		100.0	10.0	P
Lead	220.35		3.0	2.0	P
Magnesium	279.07		5000.0	10.0	P
Manganese	257.61		15.0	1.0	P
Mercury			.2		
Nickel	231.60		40.0	1.5	P
Potassium	766.49		5000.0	200.0	P
Selenium	196.02		5.0	5.0	P
Silver	328.06		10.0	1.0	P
Sodium	589.59		5000.0	20.0	P
Thallium	189.90		10.0	6.0	P
Vanadium	292.40		50.0	1.0	P
Zinc	213.85		20.0	5.0	P

Comments:

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2381

ICP ID Number: _____ Date: 10/01/00

Flame AA ID Number: HG4

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		
Antimony			60.0		
Arsenic			10.0		
Barium			200.0		
Beryllium			5.0		
Cadmium			5.0		
Calcium			5000.0		
Chromium			10.0		
Cobalt			50.0		
Copper			25.0		
Iron			100.0		
Lead			3.0		
Magnesium			5000.0		
Manganese			15.0		
Mercury	253.70		.2	.1	CV
Nickel			40.0		
Potassium			5000.0		
Selenium			5.0		
Silver			10.0		
Sodium			5000.0		
Thallium			10.0		
Vanadium			50.0		
Zinc			20.0		

Comments:

U.S. EPA - CLP

11A
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2381

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : Al	Ca	Fe	Mg	Ag
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic						
Barium	493.40	0.0000000	2.3516000	0.0000000	0.0000000	0.0000000
Beryllium	234.86	0.0000000	-2.1540000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	-.0014590	1.1105000	0.0000000	0.0000000	0.0000000
Calcium	317.93	.0086205	0.0000000	0.0000000	.0081618	0.0000000
Chromium	267.70	.0018652		-.0011680	-3.0940000	0.0000000
Cobalt	228.61	0.0000000		.0060000	-13.4160000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	-.4786330
Iron	271.44	.0033661	0.0000000	0.0000000	-.0291150	0.0000000
Lead	220.35	0.0000000	1.9097000	0.0000000	0.0000000	0.0000000
Magnesium	279.07	.0071408	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	-.1392250	.5557496
Mercury						
Nickel	231.60	-.0027450	3.1950000	0.0000000	0.0000000	-.1560630
Potassium	766.49	-.0079430	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.06	0.0000000		0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000		0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	0.0000000	0.0000000	-.0040180	0.0000000	.4159166
Zinc	213.85	.0009443	8.7485000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2381

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : As	B	Ba	Be	Cd
Aluminum	308.21	3.9599940	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	.2221185	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic						
Barium	493.40	0.0000000	0.0000000	0.0000000	.0020452	0.0000000
Beryllium	234.86	2.2054610	0.0000000	3.3925410	0.0000000	.2991092
Cadmium	228.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	5.8517630	0.0000000
Chromium	267.70	-6.3830600	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.61	-.4015400	0.0000000	0.0000000	.0524210	.2877358
Copper	324.75	0.0000000	-14.5688000	0.0000000	0.0000000	0.0000000
Iron	271.44	-2.8353600	0.0000000	1.2696520	.0123381	-1.7637400
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.07	-1.9608300	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	.7548212	0.0000000	0.0000000	0.0000000	.0286714
Mercury						
Nickel	231.60	-.3004870	0.0000000	0.0000000	-.0254260	1.6268810
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	-1.4987800	0.0000000	0.0000000	.0845908	.0375521
Zinc	213.85	-1.3146900	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2381

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : Co	Cr	Cu	K	Mn
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	.8822868
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic						
Barium	493.40	.4458370	0.0000000	0.0000000	0.0000000	-.1513210
Beryllium	234.86	0.0000000	-.1224680	0.0000000	0.0000000	0.0000000
Cadmium	228.80	-2.0803500	-1.0195500	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	.9515125	0.0000000	0.0000000	0.0000000
Chromium	267.70	1.2502400	0.0000000	0.0000000	0.0000000	-.0417720
Cobalt	228.61	0.0000000	.0772782	0.0000000	0.0000000	-.0267550
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	-5.5184100	0.0000000	2.1567660	0.0000000	-3.4565100
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.07	0.0000000	1.3531870	0.0000000	.6270879	.1854641
Manganese	257.61	0.0000000	-.5727500	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	-.0428020	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	0.0000000	.4646357	-.7459740	0.0000000	-.4539330
Zinc	213.85	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2381

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : Mo	Na	Ni	Pb	Sb
Aluminum	308.21	0.0000000	0.0000000	0.0000000	7.4656990	.4182633
Antimony	206.83	0.0000000	.0959060	5.1763370	1.2997970	0.0000000
Arsenic						
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.86	0.0000000	0.0000000	-.0145800	0.0000000	-1.6234400
Cadmium	228.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	.0105777	0.0000000	0.0000000	-1.3041900
Chromium	267.70	1.5194300	0.0000000	.4416338	-.1202820	7.7030790
Cobalt	228.61	-.0124570	0.0000000	2.2201410	.6915992	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	-3.6280800	0.0000000
Iron	271.44	-1.3566400	0.0000000	.5093932	.5134977	1.1269720
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.07	0.0000000	0.0000000	0.0000000	-.5954890	2.3300000
Manganese	257.61	0.0000000	0.0000000	0.0000000	4.4615890	0.0000000
Mercury						
Nickel	231.60	5.5485240	0.0000000	0.0000000	-.2555120	2.1088370
Potassium	766.49	0.0000000	.1218416	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	.9487286	0.0000000	0.0000000	-1.4936400	-.4668710
Zinc	213.85	0.0000000	0.0000000	0.0000000	0.0000000	-.6141440

Comments:

U.S. EPA - CLP

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2381

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : Se	Sn	Ti	Tl	V
Aluminum	308.21	6.2168040	.3024854	0.0000000	0.0000000	0.0000000
Antimony	206.83	3.0897440	-.6053750	0.0000000	0.0000000	0.0000000
Arsenic						
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.86	0.0000000	.6761988	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	1.7640180	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.70	0.0000000	.2208577	.9567213	4.5557730	1.2170310
Cobalt	228.61	2.5668270	.4390100	-.0063100	-6.0023600	0.0000000
Copper	324.75	.0519865	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	-1.8581700	.0754601	0.0000000	0.0000000	0.0000000
Lead	220.35	.9428241	1.1606640	0.0000000	0.0000000	0.0000000
Magnesium	279.07	-.0000450	-.0000240	.0131000	0.0000000	-.0050000
Manganese	257.61	2.4119190	-.3639270	0.0000000	-1.1010300	.9414657
Mercury						
Nickel	231.60	0.0000000	-.7297880	0.0000000	0.0000000	0.0000000
Potassium	766.49	5.3734670	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.06	.5868963	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	3.1253820	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	-.0953390	-.3701520	0.0000000	2.6711040	0.0000000
Zinc	213.85	.1325478	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2381

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : Zn	Zr			
Aluminum	308.21	0.0000000	0.0000000			
Antimony	206.83	-1.0792400	0.0000000			
Arsenic						
Barium	493.40	-.1870990	0.0000000			
Beryllium	234.86	0.0000000	0.0000000			
Cadmium	228.80	0.0000000	0.0000000			
Calcium	317.93	-.4802940	.8045480			
Chromium	267.70	0.0000000	-.0096980			
Cobalt	228.61	-1.6896500	1.0255960			
Copper	324.75	-1.9375200	0.0000000			
Iron	271.44	3.6036430	0.0000000			
Lead	220.35	0.0000000	0.0000000			
Magnesium	279.07	0.0000000	0.0000000			
Manganese	257.61	-.3086080	0.0000000			
Mercury						
Nickel	231.60	-4.4617100	0.0000000			
Potassium	766.49	0.0000000	0.0000000			
Selenium						
Silver	328.06	-1.8535700	0.0000000			
Sodium	589.59	-1.2720500	0.0000000			
Thallium						
Vanadium	292.40	-.1061740	0.0000000			
Zinc	213.85	0.0000000	0.0000000			

Comments:

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12
ICP Linear Ranges (Quarterly)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2381

ICP ID Number: JA61 Date: 10/01/00

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	6.00	500000.0	P
Antimony	6.00	10000.0	P
Arsenic	6.00	10000.0	P
Barium	6.00	10000.0	P
Beryllium	6.00	10000.0	P
Cadmium	6.00	10000.0	P
Calcium	6.00	200000.0	P
Chromium	6.00	200000.0	P
Cobalt	6.00	10000.0	P
Copper	6.00	100000.0	P
Iron	6.00	500000.0	P
Lead	6.00	500000.0	P
Magnesium	6.00	500000.0	P
Manganese	6.00	10000.0	P
Mercury			NR
Nickel	6.00	10000.0	P
Potassium	6.00	100000.0	P
Selenium	6.00	10000.0	P
Silver	6.00	10000.0	P
Sodium	6.00	500000.0	P
Thallium	6.00	100000.0	P
Vanadium	6.00	10000.0	P
Zinc	6.00	10000.0	P

Comments:

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13
PREPARATION LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Method: P

EPA Sample No.	Preparation Date	Weight (~~gram~~ mL)	Volume (mL)
F002381A-01	11/03/00	100.00	100
F002381A-02	11/03/00	100.00	100
F002381A-03	11/03/00	100.00	100
F002381A-04	11/03/00	100.00	100
F002381A-05	11/03/00	100.00	100
F002381A-06	11/03/00	100.00	100
F002381A-07	11/03/00	100.00	100
F002381A-08	11/03/00	100.00	100
F002381A-09	11/03/00	100.00	100
F002381A-09D	11/03/00	100.00	100
F002381A-09S	11/03/00	100.00	100
F002381A-10	11/03/00	100.00	100
F002381A-11	11/03/00	100.00	100
LCSW1	11/03/00	100.00	100
LCSW2	11/03/00	100.00	100
LCSW3	11/03/00	100.00	100
PBW1	11/03/00	100.00	100
PBW2	11/03/00	100.00	100
PBW3	11/03/00	100.00	100
T002381A-01	11/03/00	100.00	100
T002381A-02	11/03/00	100.00	100
T002381A-03	11/03/00	100.00	100
T002381A-04	11/03/00	100.00	100
T002381A-05	11/03/00	100.00	100
T002381A-06	11/03/00	100.00	100
T002381A-07	11/03/00	100.00	100
T002381A-08	11/03/00	100.00	100
T002381A-09	11/03/00	100.00	100
T002381A-09D	11/03/00	100.00	100
T002381A-09S	11/03/00	100.00	100
T002381A-10	11/03/00	100.00	100
T002381A-11	11/03/00	100.00	100

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13
PREPARATION LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Method: CV

EPA Sample No.	Preparation Date	Weight (~~gram~~ mL)	Volume (mL)
002381A-01	11/01/00	25.00	25
002381A-02	11/01/00	25.00	25
002381A-03	11/01/00	25.00	25
002381A-04	11/01/00	25.00	25
002381A-05	11/01/00	25.00	25
002381A-06	11/01/00	25.00	25
002381A-07	11/01/00	25.00	25
002381A-08	11/01/00	25.00	25
002381A-09	11/01/00	25.00	25
002381A-09D	11/01/00	25.00	25
002381A-09S	11/01/00	25.00	25
002381A-10	11/01/00	25.00	25
002381A-11	11/01/00	25.00	25
LCSW1	11/01/00	25.00	25
LCSW2	11/01/00	25.00	25
LCSW3	11/01/00	25.00	25
LCSW4	11/01/00	25.00	25
PBW1	11/01/00	25.00	25
PBW2	11/01/00	25.00	25
PBW3	11/01/00	25.00	25
PBW4	11/01/00	25.00	25

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14
ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2381

Instrument ID Number: JA61 Method: P

Start Date: 11/06/00 End Date: 11/06/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S1	1.00	1421		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S7	1.00	1426			X	X	X	X	X		X	X	X		X		X		X	X	X	X		X	X	X	
S8	1.00	1430			X	X	X	X	X		X	X	X		X		X		X	X	X	X		X	X	X	
S4	1.00	1435		X		X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
S9	1.00	1438		X						X				X		X							X				
S6	1.00	1442		X						X				X		X							X				
S5	1.00	1445			X															X							
S3	1.00	1448								X				X		X							X				
ICV1	1.00	1448		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CV1	1.00	1453			X															X							
CB1	1.00	1458		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1523																									
CRI1	1.00	1527			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSAI	1.00	1532		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSABI	1.00	1537		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV1	1.00	1542		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV1	1.00	1547			X															X							
CCB1	1.00	1551		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
PBW1	1.00	1556		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LCSW1	1.00	1601		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1606																									
T002381A-01	1.00	1611				X					X				X												
F002381A-01	1.00	1616				X																					
T002381A-02	1.00	1620				X					X				X												
F002381A-02	1.00	1625				X																					
T002381A-03	1.00	1630				X					X				X												
F002381A-03	1.00	1635				X																					
T002381A-04	1.00	1639		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV2	1.00	1644		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV2	1.00	1649			X															X							
CCB2	1.00	1654		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
F002381A-04	1.00	1659				X																					
T002381A-05	1.00	1704				X					X				X												

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2381

Instrument ID Number: JA61 Method: P

Start Date: 11/06/00 End Date: 11/06/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
F002381A-05	1.00	1708				X																					
T002381A-06	1.00	1713				X					X				X												
F002381A-06	1.00	1718				X																					
T002381A-07	1.00	1723				X					X				X												
F002381A-07	1.00	1728				X																					
T002381A-08	1.00	1732				X					X				X												
F002381A-08	1.00	1737				X																					
T002381A-09	1.00	1742		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV3	1.00	1747		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV3	1.00	1752			X															X							
CCB3	1.00	1757		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T002381A-09D	1.00	1801		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T002381A-09S	1.00	1806		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T002381A-09A	1.00	1811	97.4																		X						
T002381A-09L	5.00	1816		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
F002381A-09	1.00	1821				X																					
F002381A-09D	1.00	1825				X																					
F002381A-09S	1.00	1830				X																					
F002381A-09A	1.00	1835																									
T002381A-10	1.00	1840				X					X				X												
F002381A-10	1.00	1845				X																					
CCV4	1.00	1850		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV4	1.00	1854			X															X							
CCB4	1.00	1859		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T002381A-10L	5.00	1904		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T002381A-11	1.00	1909		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
F002381A-11	1.00	1914				X																					
PBW2	1.00	1918		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LCSW2	1.00	1923		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRI2	1.00	1928			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSAF	1.00	1933		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSABF	1.00	1938		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV5	1.00	1943		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2381

Instrument ID Number: JA61 Method: P

Start Date: 11/06/00 End Date: 11/06/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV5	1.00	1947			X															X							
CCB5	1.00	1952		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

FORM XIV - IN ILM04.0

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2381

Instrument ID Number: HG4 Method: CV

Start Date: 11/02/00 End Date: 11/02/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1602																X									
S0	1.00	1604																X									
S1	1.00	1606																X									
S2	1.00	1608																X									
S5	1.00	1610																X									
S1	1.00	1612																X									
ICV1	1.00	1614																X									
ICB1	1.00	1616																X									
CCV1	1.00	1618																X									
CCB1	1.00	1620																X									
BW1	1.00	1622																X									
LCSW1	1.00	1623																X									
ZZZZZZ	1.00	1625																									
ZZZZZZ	1.00	1627																									
ZZZZZZ	1.00	1629																									
ZZZZZZ	1.00	1630																									
ZZZZZZ	1.00	1632																									
ZZZZZZ	1.00	1634																									
ZZZZZZ	1.00	1636																									
ZZZZZZ	1.00	1638																									
CCV2	1.00	1639																X									
CCB2	1.00	1641																X									
ZZZZZZ	1.00	1643																									
ZZZZZZ	1.00	1645																									
002381A-01	1.00	1646																X									
002381A-02	1.00	1648																X									
002381A-03	1.00	1650																X									
002381A-04	1.00	1651																X									
002381A-05	1.00	1653																X									
002381A-06	1.00	1655																X									
002381A-07	1.00	1656																X									
002381A-08	1.00	1658																X									
CCV3	1.00	1700																X									

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2381

Instrument ID Number: HG4 Method: CV

Start Date: 11/02/00 End Date: 11/02/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB3	1.00	1702																X									
002381A-09	1.00	1703																X									
002381A-09D	1.00	1705																X									
002381A-09S	1.00	1707																X									
ZZZZZZ	1.00	1709																									
ZZZZZZ	1.00	1711																									
ZZZZZZ	1.00	1712																									
ZZZZZZ	1.00	1714																									
ZZZZZZ	1.00	1716																									
ZZZZZZ	10.0	1718																									
ZZZZZZ	10.0	1720																									
CCV4	1.00	1721																X									
CCB4	1.00	1723																X									
ZZZZZZ	10.0	1813																									
ZZZZZZ	10.0	1815																									
ZZZZZZ	10.0	1816																									
ZZZZZZ	10.0	1818																									
ZZZZZZ	10.0	1820																									
ZZZZZZ	10.0	1821																									
ZZZZZZ	10.0	1823																									
ZZZZZZ	10.0	1828																									
ZZZZZZ	10.0	1830																									
ZZZZZZ	10.0	1831																									
CCV5	1.00	1833																X									
CCB5	1.00	1836																X									
ZZZZZZ	10.0	1837																									
ZZZZZZ	10.0	1839																									
ZZZZZZ	10.0	1841																									
ZZZZZZ	10.0	1842																									
ZZZZZZ	10.0	1844																									
ZZZZZZ	10.0	1846																									
ZZZZZZ	10.0	1847																									
ZZZZZZ	10.0	1849																									

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2381

Instrument ID Number: HG4 Method: CV

Start Date: 11/02/00 End Date: 11/02/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1851																									
ZZZZZZ	1.00	1852																									
CCV6	1.00	1856																X									
CCB6	1.00	1901																X									
ZZZZZZ	10.0	1902																									
ZZZZZZ	1.00	1904																									
ZZZZZZ	1.00	1906																									
ZZZZZZ	1.00	1908																									
ZZZZZZ	1.00	1910																									
ZZZZZZ	1.00	1911																									
ZZZZZZ	1.00	1913																									
ZZZZZZ	1.00	1915																									
ZZZZZZ	1.00	1916																									
ZZZZZZ	1.00	1918																									
CCV7	1.00	1920																X									
CCB7	1.00	1922																X									
ZZZZZZ	1.00	1924																									
002381A-10	1.00	1926																X									
002381A-11	1.00	1928																X									
ZZZZZZ	10.0	1929																									
CCV8	1.00	1931																X									
CCB8	1.00	1934																X									

COVER PAGE - WET CHEM ANALYSES DATA PACKAGE

Lab Name: STL Contract:

Lab Code: STL Case No.: 2381A SAS No.: SDG No.: A2381

SOW No.:

Sample No.	Lab Sample ID
SW-01	002381A-01
SW-02	002381A-02
SW-03	002381A-03
SW-04	002381A-04
SW-05	002381A-05
SW-06	002381A-06
SW-07	002381A-07
SW-08	002381A-08
SW-09	002381A-09
SW-10	002381A-10

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: David Madumadu Name: DAVID MADUMADU

Date: 11/01/00 Title: SECTION LEADER

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-01

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix (soil/water): WATER Lab Sample ID: 002381A-01

% Solids: 0 Date Received: 10/21/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	25.5		mg/L		G

Comments:

FORM I - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-02

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix (soil/water): WATER Lab Sample ID: 002381A-02

% Solids: 0 Date Received: 10/21/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	12.0		mg/L		G

Comments:

FORM I - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-03

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix (soil/water): WATER Lab Sample ID: 002381A-03

% Solids: 0 Date Received: 10/21/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	5.0		mg/L		G

Comments:

FORM I - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-04

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix (soil/water): WATER Lab Sample ID: 002381A-04

% Solids: 0 Date Received: 10/21/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	7.5		mg/L		G

Comments:

FORM I - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-05

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix (soil/water): WATER Lab Sample ID: 002381A-05

% Solids: 0 Date Received: 10/21/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	9.3		mg/L		G

Comments:

FORM I - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-06

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix (soil/water): WATER Lab Sample ID: 002381A-06

% Solids: 0 Date Received: 10/21/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	5.0	U	mg/L		G

Comments:

FORM I - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-07

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix (soil/water): WATER Lab Sample ID: 002381A-07

% Solids: 0 Date Received: 10/21/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	9.0		mg/L		G

Comments:

FORM I - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-08

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix (soil/water): WATER Lab Sample ID: 002381A-08

% Solids: 0 Date Received: 10/21/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	6.0		mg/L		G

Comments:

FORM I - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-09

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix (soil/water): WATER Lab Sample ID: 002381A-09

% Solids: 0 Date Received: 10/21/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	5.0	U	mg/L		G

Comments:

FORM I - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-10

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Matrix (soil/water): WATER Lab Sample ID: 002381A-10

% Solids: 0 Date Received: 10/21/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	23.5		mg/L		G

Comments:

FORM I - WC

WET CHEM ANALYSIS

3
BLANKS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Analyte	Initial Calib. Blank	C	Continuing Calibration Blank 1	C	2	C	3	C	Prepa-ration Blank	C	units	M
TSS									5.0	U	mg/L	G

FORM III - IN ILM03.0

5
DUPLICATES

SAMPLE NO.

SW-09

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

% Solids for Sample: 0 % Solids for Duplicate: 0

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Units	M
TSS	20	5	U	5	U			mg/L	G

FORM V - WC

LABORATORY CONTROL SAMPLE

Lab Name: STL Contract:

Lab Code: STL Case No.: 2381A SAS No.: SDG No.: A2381

Analyte	True	LCS Found	%R	units	LCS Source
TSS	162.9	179	109.9	mg/L	

HOLD TIME REPORT

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2381A SAS No.: _____ SDG No.: A2381

Analyte : TSS

Client Sample ID	Date Received	Date Prepped	Date Analyzed
SW-01	10/21/00	10/23/00	10/23/00 00:00
SW-02	10/21/00	10/23/00	10/23/00 00:00
SW-03	10/21/00	10/23/00	10/23/00 00:00
SW-04	10/21/00	10/23/00	10/23/00 00:00
SW-05	10/21/00	10/23/00	10/23/00 00:00
SW-06	10/21/00	10/23/00	10/23/00 00:00
SW-07	10/21/00	10/23/00	10/23/00 00:00
SW-08	10/21/00	10/23/00	10/23/00 00:00
SW-10	10/21/00	10/23/00	10/23/00 00:00
SW-09	10/21/00	10/23/00	10/23/00 00:00
SW-09	10/21/00	10/23/00	10/23/00 00:00

STL
Committed To Your Success

ORGANICS APPENDIX

U - Indicates that the compound was analyzed for but not detected.

J - Indicates that the compound was analyzed for and determined to be present in the sample. The mass spectrum of the compound meets the identification criteria of the method. The concentration listed is an estimated value, which is less than the specified minimum detection limit but is greater than zero.

B - This flag is used when the analyte is found in the blanks as well as the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of this analyte.

N - Indicates that the compound was analyzed for but not requested as an analyte. Value will not be listed on tabular result sheet.

S - Estimated due to surrogate outliers.

X - Matrix spike compound.

(1) - Cannot be separated.

(2) - Decomposes to azobenzene. Measured and calibrated as azobenzene.

A - This flag indicates that a TIC is a suspected aldol condensation product.

E - Indicates that it exceeds calibration curve range.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

C - Confirmed by GC/MS.

T - Compound present in TCLP blank.

P - This flag is used for a pesticide/aroclor target analyte when there is a greater than 25 percent difference for detected concentrations between the two GC columns (see Form X).

Committed To Your Success

INORGANICS APPENDIX

C Concentration qualifiers

U - Indicates analyte was not detected at method reporting limit.

B - Indicates analyte result between IDL and contract required detection limit (CRDL)

Q - QC qualifiers

E - Reported value is estimated because of the presence of interference

M - Duplicate injection precision not met

N - Spiked sample recovery not within control limits

S - The reported value was determined by the method of standard additions (MSA)

W - Post-digest spike recovery furnace analysis was out of 85-115 percent control limit, while sample absorbance was less than 50 percent of spike absorbance

* - Duplicate analysis not within control limit

+ - Correlation coefficient for MSA is less than 0.995

M - Method codes

P - ICP

A - Flame AA

F - Furnace AA

CV - Cold vapor AA (manual)

C - Cyanide

NR - Not Required

NC - Not Calculated as per protocols

STATE CERTIFICATIONS

In some instances it may be necessary for environmental data to be reported to a regulatory authority with reference to a certified laboratory. For your convenience, the laboratory identification numbers for the STL-Connecticut laboratory are provided in the following table. Many states certify laboratories for specific parameters or tests within a category (i.e. method 325.2 for wastewater). The information in the following table indicates the lab is certified in a general category of testing such as drinking water or wastewater analysis. The laboratory should be contacted directly if parameter-specific certification information is required.

STL-Connecticut
Certification Summary (as of April 2000)

State	Regulatory Agency	Certification	Lab Number
Connecticut	Department of Health Services	Drinking Water, Wastewater	PH-0497
Maine	Department of Health and Environmental Services	Drinking Water, Wastewater/Solid, Hazardous Waste	CT023
Massachusetts	Department of Environmental Protection	Potable/Non-Potable Water	CT023
New Hampshire	Department of Environmental Services	Drinking Water, Wastewater	2528
New Jersey	Department of Environmental Protection	Drinking Water, Wastewater	46410
New York	Department of Health	CLP, Drinking Water, Wastewater, Solid/ Hazardous Waste	10602
North Carolina	Division of Environmental Management	Wastewater	388
Rhode Island	Department of Health	Chemistry...Non-Potable Water and Wastewater	A43
Washington	Department of Ecology	Wastewater/Hazardous Waste	C231
Wisconsin	Department of Natural Resources	Wastewater	998355710

7000-2381A
ROUX ASSOCIATES-MA
SAMPLE SUMMARY

CLIENT ID	LAB ID	MATRIX	DATE COLLECTED	DATE RECEIVED
SW-01	002381A-01	WATER	10/20/00	10/21/00
SW-02	002381A-02	WATER	10/19/00	10/21/00
SW-03	002381A-03	WATER	10/19/00	10/21/00
SW-04	002381A-04	WATER	10/20/00	10/21/00
SW-05	002381A-05	WATER	10/19/00	10/21/00
SW-06	002381A-06	WATER	10/19/00	10/21/00
SW-07	002381A-07	WATER	10/20/00	10/21/00
SW-08	002381A-08	WATER	10/20/00	10/21/00
SW-09	002381A-09	WATER	10/20/00	10/21/00
SW-09	002381A-09D	WATER	10/20/00	10/21/00
SW-09	002381A-09MS	WATER	10/20/00	10/21/00
SW-09	002381A-09MSD	WATER	10/20/00	10/21/00
W-09	002381A-09S	WATER	10/20/00	10/21/00
SW-10	002381A-10	WATER	10/20/00	10/21/00
FB102000	002381A-11	WATER	10/20/00	10/21/00

STL CT ANALYTICAL SUMMARY

Client ID: FB102000, SW-01, SW-02, SW-03, SW-04, SW-05, SW-06, SW-07, SW-08, SW-09, SW-10
Job Number: 7000-2381A

Date: 11/11/100

Qty	Matrix	Analysis	Description
1	None	DISK	Diskette Prep.
8	WATER	AS-SW846	Arsenic
13	WATER	AS-SW846-D	Arsenic (Dissolved)
8	WATER	BNA-8270C-MISC	Miscellaneous Semi-V
5	WATER	BNA-8270C-TCL	TCL Semi-Volatile Or
8	WATER	CR-SW846	Chromium
8	WATER	HG-SW846	Mercury
8	WATER	MET-PREP-ICAP	Metals ICAP Prep
13	WATER	MET-PREP-ICAP-D	Metals ICAP Prep (Di
5	WATER	MET-SW846-TAL	TAL Metals
8	WATER	PB-SW846	Lead
11	WATER	TSS-160.2	Total Suspended Soli

ROUX CHAIN OF CUSTODY

№ 04779 Y

ROUX ASSOCIATES, INC.
Environmental Consulting & Management
1377 MOTOR PARKWAY
ISLANDIA, NEW YORK 11788
(516) 232-2600 FAX (516) 232-9898

ANALYSES

PROJECT NAME: ISRT- INDUSTRIPLEX

PROJECT NUMBER: 06626M32

PROJECT LOCATION: WOBURN, MA

PROJECT MANAGER: Larry McTiernan

SAMPLER(S): Chris Milone

7000-2381A

SAMPLE DESIGNATION / LOCATION		DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	TSS	Diss. As.	Total As, Cr, Pb, Hg	TAL METALS.	7000-2381A: 4-methylphenol, bis(2-ethylhexyl)phthalate, cyclohexanone	TCL SVOCs + Cyclohexanone.	TOTAL BOTTLES	NOTES
SW-01	01	10/20/00	1145	SW	1	1	1		2		5	
SW-02	02	10/19/00	1115		1	1	1		2		5	
SW-03	03	10/19/00	1205		1	1	1		2		5	
SW-04	04	10/20/00	1005		1	1		1		2	5	
SW-05	05	10/19/00	1445		1	1	1		2		5	
SW-06	06	10/19/00	1505		1	1	1		2		5	
SW-07	07	10/20/00	930		1	1	1		2		5	
SW-08	08	10/20/00	1025		1	1	1		2		5	
SW-09	09	10/20/00	1040		1	3		3		6		
SW-10	10	10/20/00	1150		1	1	1		2			

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
[signature]	ROUX	10/20/00	1544		[signature]	STL	10/20	15:44	
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
					[signature]	STL CT	10/21/00	9:45	
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N

DELIVERY METHOD

COMMENTS
* Deliverables for Tier II Data Validation.

ROUX CHAIN OF CUSTODY

№ 04788 Y

ROUX ASSOCIATES, INC.
Environmental Consulting & Management
1377 MOTOR PARKWAY
ISLANDIA, NEW YORK 11788
(516) 232-2600 FAX (516) 232-9898

ANALYSES

PROJECT NAME: ISRT - INDUSTRIPLEX

PROJECT NUMBER:

PROJECT LOCATION: WOBURN, MA

PROJECT MANAGER: Larry McTiernan.

SAMPLER(S): Chris Milone.

SAMPLE DESIGNATION / LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	Diss As	TAL Metals	TCL SVOCs + Cyclohexanone			TOTAL BOTTLES	NOTES
Field Blank 11	10/20/00	1110		1	1	2			4	

7000-2381A

6"

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
Christopher J. Milone	ROUX.	10/20/00	1544		Aimee L Cornelisse		10/20	15:44	
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
					111CS SEL-CT	10/21/00	9:45		
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N

DELIVERY METHOD

ANALYTICAL LABORATORY

COMMENTS

"PASSED RAD SCREEN"

CHAINOF CDR 12AUG98

Severn Connecticut
Internal Chain-of-Custody

Client: ROUX

STL Job #: 7000-2381A

Custody Seal: present / absent
Tamper Evident / Non Tamper Evident
intact / not intact

Airbill# FE

Field C-O-C: present / absent

Date Received: 10-21-00

Sample #s: 01-11

Locations: 96

Laboratory Sample #	Relinquished by	Accepted by	Date	Time	Reason	Relinquished by	Accepted by	Date	Time
1-10	ML	SD	10/27	18	TSS	Sec	ML	10/27	24
1-11	ML	JNL	10/26	630	BNA	Used			
1-11	CAL	GB	11/02	0920	Hg	GB	CAL	11/02	1120

STL Form# SMF00504.CT

STL GC-GC/MS Extract Chain of Custody

Fraction: (BNA) Pesticide-PCB / Herbicide / O/P Pesticide / DRO / Other (Circle one)

CLIENT: ROUX

JOB NO: 2381A

SAMPLE IN (Extractions)					SAMPLE IN (Extractions)				
Sample(s)	Date	Time	Sign.	Location	Sample(s)	Date	Time	Sign.	Location
1-11, 9MS, 9MSD	11/01	14:00	JNV	29					

SAMPLE OUT					SAMPLE IN			
Sample(s)	Date	Time	Code	Sign.	Date	Time	Location	Sign.
1-11	11/02	10:00	AN	EM	11/02	1130	29	EM
9QC	11/03	1530	AN	EM	11/03	1640	29	EM

Codes: SC = Screening AN = Analysis

Verified By CARhodes Date: 11/7/00

Lab Form: SMF01201.CT

Severn Trent Laboratories
128 Long Hill Cross
Shelton, CT 06484
Tel (203) 929-8140
Fax (203)

Committed To *Your* Success

CHAIN OF CUSTODY
ATOMIC SPECTROSCOPY DEPARTMENT

Job Number 7000-2381A Sample Numbers 1-11 (T & D)

(WATER) - SOIL - SLUDGE - EPTOX/TCLP

I confirm that I have performed the preparation below following SOP guidelines and authorize the release of this preparation:

Sample Prep			
	Darlyn Colon	11/3/00	(ICP)/FLME
			FURN
			MERCURY
	Chemist	Date(s)	

I confirm that I have performed the analysis below following SOP guidelines and authorize the release of all associated data:

Analysis	Walter [illegible]	11/7/00	ICP
			FLAME
			FURN
			MERCURY
	Chemist	Date(s)	

I have reviewed and authorize the release of this job:

Complete [signature] Supervisor 11/7/00 Date

Batch Assignment

Severn Trent Laboratories
128 Long Hill Cross
Shelton, CT 06484
Tel (203) 929-8140
Fax (203)

Committed To *Your* Success

CHAIN OF CUSTODY
ATOMIC SPECTROSCOPY DEPARTMENT

Job Number 002381A Sample Numbers 01- 11

WATER - SOIL - SLUDGE - EPTOX/TCLP

I confirm that I have performed the preparation below following SOP guidelines and authorize the release of this preparation:

Sample Prep _____ _____ ICP/FLME

_____ _____ FURN

_____ _____ MERCURY

Gerald Bao 11-01-00
Chemist Date(s)

I confirm that I have performed the analysis below following SOP guidelines and authorize the release of all associated data:

Analysis _____ _____ ICP

_____ _____ FLAME

_____ _____ FURN

_____ _____ MERCURY

Gerald Bao 11-02-00
Chemist Date(s)

I have reviewed and authorize the release of this job:

Complete _____ 11/7/00
Supervisor Date

Batch Assignment _____

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