SEVERN TRENT STL

Sample Data Summary Package For Metals

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

SOW No.: ILM04.1

EPA Sample No.	Lab Sample ID.
IDOLADPSD12	535847
IDOLPDPSD13	535846
IDOLPDSSD14	535844
IDOLPDSSD14100	535845
IDOLPDSSD14D	535844DP
IDOLPDSSD14S	535844MS
IDOLSTPSD07	535848
IDOLSTSSD05	535843
IDOLSTSSD06	535849

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: _____ Name: _____

Date: _____ Title: _____

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

IDOLADPSD12

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: SDG No.: IDD001

Matrix (soil/water): SOIL Lab Sample ID: 535847

Level (low/med): LOW Date Received: 7/25/2003

% Solids: 56.2

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9380		E	P
7440-36-0	Antimony	10.0	B	N	P
7440-38-2	Arsenic	510		E	P
7440-39-3	Barium	243		E	P
7440-41-7	Beryllium	0.48	B		P
7440-43-9	Cadmium	0.10	U	NE*	P
7440-70-2	Calcium	16100		E	P
7440-47-3	Chromium	3.6			P
7440-48-4	Cobalt	14.0			P
7440-50-8	Copper	22.0			P
7439-89-6	Iron	63500		E	P
7439-92-1	Lead	12.0		E	P
7439-95-4	Magnesium	1480		E	P
7439-96-5	Manganese	2570		E	P
7439-97-6	Mercury	0.15			CV
7440-02-0	Nickel	7.3		E	P
7440-09-7	Potassium	1680			P
7782-49-2	Selenium	3.2			P
7440-22-4	Silver	0.37	U		P
7440-23-5	Sodium	202	B		P
7440-28-0	Thallium	0.96	U		P
7440-62-2	Vanadium	20.8		E	P
7440-66-6	Zinc	76.3		E	P

Color Before: brown Clarity Before: Texture: medium

Color After: pale yellow Clarity After: clear Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

IDOLPDPSD13

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: SDG No.: IDD001

Matrix (soil/water): SOIL Lab Sample ID: 535846

Level (low/med): LOW Date Received: 7/25/2003

% Solids: 64.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8020		E	P
7440-36-0	Antimony	2.3	B	N	P
7440-38-2	Arsenic	68.8		E	P
7440-39-3	Barium	226		E	P
7440-41-7	Beryllium	0.47	B		P
7440-43-9	Cadmium	0.15	B	NE*	P
7440-70-2	Calcium	3560		E	P
7440-47-3	Chromium	4.2			P
7440-48-4	Cobalt	7.5	B		P
7440-50-8	Copper	27.3			P
7439-89-6	Iron	17300		E	P
7439-92-1	Lead	14.8		E	P
7439-95-4	Magnesium	1630		E	P
7439-96-5	Manganese	320		E	P
7439-97-6	Mercury	0.23			CV
7440-02-0	Nickel	11.4		E	P
7440-09-7	Potassium	1410			P
7782-49-2	Selenium	0.90			P
7440-22-4	Silver	0.33	U		P
7440-23-5	Sodium	193	B		P
7440-28-0	Thallium	0.87	U		P
7440-62-2	Vanadium	16.7		E	P
7440-66-6	Zinc	60.1		E	P

Color Before: brown Clarity Before: Texture: medium

Color After: pale yellow Clarity After: clear Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
IDOLPDSSD14

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

Matrix (soil/water): SOIL Lab Sample ID: 535844

Level (low/med): LOW Date Received: 7/25/2003

% Solids: 39.3

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	25400		E	P
7440-36-0	Antimony	7.5	B	N	P
7440-38-2	Arsenic	118		E	P
7440-39-3	Barium	618		E	P
7440-41-7	Beryllium	1.3			P
7440-43-9	Cadmium	11.9		NE*	P
7440-70-2	Calcium	10700		E	P
7440-47-3	Chromium	11.2			P
7440-48-4	Cobalt	15.1			P
7440-50-8	Copper	84.8			P
7439-89-6	Iron	46300		E	P
7439-92-1	Lead	486		E	P
7439-95-4	Magnesium	2990		E	P
7439-96-5	Manganese	577		E	P
7439-97-6	Mercury	4.1			CV
7440-02-0	Nickel	26.5		E	P
7440-09-7	Potassium	3530			P
7782-49-2	Selenium	2.5			P
7440-22-4	Silver	1.3	B		P
7440-23-5	Sodium	351	B		P
7440-28-0	Thallium	1.4	U		P
7440-62-2	Vanadium	39.6		E	P
7440-66-6	Zinc	2050		E	P

Color Before: brown Clarity Before: _____ Texture: medium

Color After: pale yellow Clarity After: clear Artifacts: _____

Comments: _____

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

IDOLPDSSD14100

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: SDG No.: IDD001

Matrix (soil/water): SOIL Lab Sample ID: 535845

Level (low/med): LOW Date Received: 7/25/2003

% Solids: 43.8

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	19800		E	P
7440-36-0	Antimony	6.4	B	N	P
7440-38-2	Arsenic	144		E	P
7440-39-3	Barium	604		E	P
7440-41-7	Beryllium	1.1	B		P
7440-43-9	Cadmium	14.1		NE*	P
7440-70-2	Calcium	7550		E	P
7440-47-3	Chromium	9.3			P
7440-48-4	Cobalt	10.6	B		P
7440-50-8	Copper	75.1			P
7439-89-6	Iron	42100		E	P
7439-92-1	Lead	462		E	P
7439-95-4	Magnesium	2290		E	P
7439-96-5	Manganese	378		E	P
7439-97-6	Mercury	4.0			CV
7440-02-0	Nickel	18.6		E	P
7440-09-7	Potassium	2840			P
7782-49-2	Selenium	2.0			P
7440-22-4	Silver	1.3	B		P
7440-23-5	Sodium	262	B		P
7440-28-0	Thallium	1.3	U		P
7440-62-2	Vanadium	32.0		E	P
7440-66-6	Zinc	1560		E	P

Color Before: brown Clarity Before: Texture: medium

Color After: pale yellow Clarity After: clear Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

IDOLSTPSD07

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: SDG No.: IDD001

Matrix (soil/water): SOIL Lab Sample ID: 535848

Level (low/med): LOW Date Received: 7/25/2003

% Solids: 65.3

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10600		E	P
7440-36-0	Antimony	2.7	B	N	P
7440-38-2	Arsenic	45.7		E	P
7440-39-3	Barium	221		E	P
7440-41-7	Beryllium	0.62	B		P
7440-43-9	Cadmium	0.089	U	NE*	P
7440-70-2	Calcium	3170		E	P
7440-47-3	Chromium	6.3			P
7440-48-4	Cobalt	9.0			P
7440-50-8	Copper	23.3			P
7439-89-6	Iron	28400		E	P
7439-92-1	Lead	10.3		E	P
7439-95-4	Magnesium	1890		E	P
7439-96-5	Manganese	533		E	P
7439-97-6	Mercury	0.23			CV
7440-02-0	Nickel	8.5		E	P
7440-09-7	Potassium	1870			P
7782-49-2	Selenium	1.5			P
7440-22-4	Silver	0.33	U		P
7440-23-5	Sodium	227	B		P
7440-28-0	Thallium	0.85	U		P
7440-62-2	Vanadium	28.7		E	P
7440-66-6	Zinc	77.5		E	P

Color Before: brown Clarity Before: Texture: medium

Color After: pale yellow Clarity After: clear Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

IDOLSTSSD05

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: SDG No.: IDD001

Matrix (soil/water): SOIL Lab Sample ID: 535843

Level (low/med): LOW Date Received: 7/25/2003

% Solids: 74.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	18000		E	P
7440-36-0	Antimony	4.6	B	N	P
7440-38-2	Arsenic	142		E	P
7440-39-3	Barium	422		E	P
7440-41-7	Beryllium	1.1			P
7440-43-9	Cadmium	6.3		NE*	P
7440-70-2	Calcium	2680		E	P
7440-47-3	Chromium	3.2			P
7440-48-4	Cobalt	20.4			P
7440-50-8	Copper	83.1			P
7439-89-6	Iron	42100		E	P
7439-92-1	Lead	1190		E	P
7439-95-4	Magnesium	779		E	P
7439-96-5	Manganese	747		E	P
7439-97-6	Mercury	2.5			CV
7440-02-0	Nickel	20.3		E	P
7440-09-7	Potassium	1540			P
7782-49-2	Selenium	2.1			P
7440-22-4	Silver	1.5			P
7440-23-5	Sodium	198	B		P
7440-28-0	Thallium	0.92	B		P
7440-62-2	Vanadium	10.8		E	P
7440-66-6	Zinc	1660		E	P

Color Before: brown Clarity Before: Texture: medium

Color After: pale yellow Clarity After: clear Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

IDOLSTSSD06

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: SDG No.: IDD001

Matrix (soil/water): SOIL Lab Sample ID: 535849

Level (low/med): LOW Date Received: 7/25/2003

% Solids: 80.3

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11200		E	P
7440-36-0	Antimony	1.5	B	N	P
7440-38-2	Arsenic	20.3		E	P
7440-39-3	Barium	180		E	P
7440-41-7	Beryllium	0.48	B		P
7440-43-9	Cadmium	0.42	B	NE*	P
7440-70-2	Calcium	3380		E	P
7440-47-3	Chromium	6.3			P
7440-48-4	Cobalt	10.0			P
7440-50-8	Copper	19.8			P
7439-89-6	Iron	25700		E	P
7439-92-1	Lead	22.0		E	P
7439-95-4	Magnesium	5730		E	P
7439-96-5	Manganese	540		E	P
7439-97-6	Mercury	0.39			CV
7440-02-0	Nickel	13.1		E	P
7440-09-7	Potassium	2360			P
7782-49-2	Selenium	1.2			P
7440-22-4	Silver	0.27	U		P
7440-23-5	Sodium	124	B		P
7440-28-0	Thallium	0.69	U		P
7440-62-2	Vanadium	27.5		E	P
7440-66-6	Zinc	186		E	P

Color Before: brown Clarity Before: Texture: medium

Color After: pale yellow Clarity After: clear Artifacts:

Comments:

USEPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: SDG No.: IDD001

Initial Calibration Source: Inorganic Ventures/Fisher

Continuing Calibration Source: SPEX/Fisher

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	26000.0	26330.00	101.3	30200.0	30860.00	102.2	30840.00	102.1	P
Antimony	250.0	256.00	102.4	300.0	318.50	106.2	315.80	105.3	P
Arsenic	250.0	253.30	101.3	100.0	102.70	102.7	100.90	100.9	P
Barium	500.0	504.40	100.9	200.0	205.50	102.8	205.60	102.8	P
Beryllium	500.0	512.00	102.4	100.0	101.90	101.9	102.30	102.3	P
Cadmium	500.0	500.40	100.1	100.0	100.90	100.9	100.70	100.7	P
Calcium	25000.0	25750.00	103.0	30200.0	31110.00	103.0	30990.00	102.6	P
Chromium	500.0	507.20	101.4	200.0	201.30	100.6	201.50	100.8	P
Cobalt	500.0	499.60	99.9	200.0	202.60	101.3	202.00	101.0	P
Copper	500.0	511.10	102.2	200.0	208.10	104.0	209.20	104.6	P
Iron	25500.0	26520.00	104.0	30200.0	31040.00	102.8	30990.00	102.6	P
Lead	1000.0	1003.00	100.3	400.0	403.30	100.8	399.00	99.8	P
Magnesium	25000.0	25660.00	102.6	30200.0	30860.00	102.2	30790.00	102.0	P
Manganese	500.0	502.60	100.5	200.0	204.00	102.0	203.80	101.9	P
Mercury	3.0	2.73	91.0	5.0	4.93	98.6	4.77	95.4	CV
Nickel	500.0	504.90	101.0	200.0	201.30	100.6	201.60	100.8	P
Potassium	25000.0	26280.00	105.1	30200.0	31830.00	105.4	31840.00	105.4	P
Silver	500.0	506.20	101.2	100.0	103.70	103.7	104.60	104.6	P
Sodium	25000.0	25080.00	100.3	30200.0	30020.00	99.4	30530.00	101.1	P
Thallium	250.0	240.10	96.0	100.0	100.40	100.4	100.90	100.9	P
Vanadium	500.0	505.40	101.1	200.0	203.30	101.6	203.60	101.8	P
Zinc	500.0	509.50	101.9	200.0	206.20	103.1	205.80	102.9	P

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

USEPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: SDG No.: IDD001

Initial Calibration Source: Inorganic Ventures/Fisher

Continuing Calibration Source: SPEX/Fisher

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				30200.0	30830.00	102.1	31050.00	102.8	P
Antimony				300.0	314.80	104.9	318.30	106.1	P
Arsenic				100.0	102.10	102.1	105.00	105.0	P
Barium				200.0	205.40	102.7	206.80	103.4	P
Beryllium				100.0	102.70	102.7	102.50	102.5	P
Cadmium				100.0	100.90	100.9	101.10	101.1	P
Calcium				30200.0	31040.00	102.8	31080.00	102.9	P
Chromium				200.0	202.00	101.0	201.40	100.7	P
Cobalt				200.0	202.40	101.2	202.30	101.2	P
Copper				200.0	208.30	104.2	210.20	105.1	P
Iron				30200.0	31100.00	103.0	31180.00	103.2	P
Lead				400.0	400.80	100.2	398.90	99.7	P
Magnesium				30200.0	30890.00	102.3	30860.00	102.2	P
Manganese				200.0	204.10	102.0	204.40	102.2	P
Mercury				5.0	4.87	97.4			CV
Nickel				200.0	201.50	100.8	202.00	101.0	P
Potassium				30200.0	31770.00	105.2	31840.00	105.4	P
Silver				100.0	103.80	103.8	103.20	103.2	P
Sodium				30200.0	30280.00	100.3	30300.00	100.3	P
Thallium				100.0	98.08	98.1	101.10	101.1	P
Vanadium				200.0	204.30	102.2	204.80	102.4	P
Zinc				200.0	206.50	103.2	207.40	103.7	P

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

USEPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: SDG No.: IDD001

Initial Calibration Source: Inorganic Ventures/Fisher

Continuing Calibration Source: SPEX/Fisher

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Manganese	500.0	493.00	98.6	200.0	199.10	99.6	198.30	99.2	P
Zinc	500.0	502.00	100.4	200.0	203.50	101.8	201.90	101.0	P

(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 BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

Initial Calibration Source: Inorganic Ventures/Fisher

Continuing Calibration Source: SPEX/Fisher

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Manganese				200.0	197.20	98.6	198.60	99.3	P
Zinc				200.0	201.00	100.5	201.10	100.6	P

(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 BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

Initial Calibration Source: Inorganic Ventures/Fisher

Continuing Calibration Source: SPEX/Fisher

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Selenium	250.0	258.00	103.2	100.0	102.70	102.7	98.79	98.8	P

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

USEPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

Initial Calibration Source: Inorganic Ventures/Fisher

Continuing Calibration Source: SPEX/Fisher

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Selenium				100.0	101.00	101.0	89.67	89.7	P

(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 BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: SDG No.: IDD001

Initial Calibration Source: Inorganic Ventures/Fisher

Continuing Calibration Source: SPEX/Fisher

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	26000.0	26440.00	101.7	30200.0	30430.00	100.8	30390.00	100.6	P
Antimony	250.0	249.30	99.7	300.0	299.80	99.9	299.40	99.8	P
Arsenic	250.0	245.80	98.3	100.0	100.40	100.4	99.21	99.2	P
Barium	500.0	493.80	98.8	200.0	200.40	100.2	199.70	99.8	P
Beryllium	500.0	500.80	100.2	100.0	99.35	99.4	99.46	99.5	P
Cadmium	500.0	490.40	98.1	100.0	98.27	98.3	98.03	98.0	P
Chromium	500.0	496.20	99.2	200.0	197.40	98.7	196.40	98.2	P
Cobalt	500.0	488.10	97.6	200.0	196.40	98.2	194.50	97.2	P
Copper	500.0	502.20	100.4	200.0	203.70	101.8	202.00	101.0	P
Iron	25500.0	26380.00	103.5	30200.0	30230.00	100.1	30010.00	99.4	P
Lead	1000.0	980.90	98.1	400.0	387.50	96.9	382.40	95.6	P
Manganese	500.0	492.20	98.4	200.0	199.00	99.5	198.80	99.4	P
Nickel	500.0	492.40	98.5	200.0	196.70	98.4	194.70	97.4	P
Silver	500.0	501.40	100.3	100.0	100.90	100.9	101.00	101.0	P
Thallium	250.0	239.80	95.9	100.0	100.70	100.7	94.07	94.1	P
Vanadium	500.0	495.00	99.0	200.0	199.20	99.6	197.80	98.9	P

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

USEPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: SDG No.: IDD001

Initial Calibration Source: Inorganic Ventures/Fisher

Continuing Calibration Source: SPEX/Fisher

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum				30200.0	30380.00	100.6	30490.00	101.0	P
Antimony				300.0	297.10	99.0	297.70	99.2	P
Arsenic				100.0	99.73	99.7	98.53	98.5	P
Barium				200.0	199.40	99.7	199.10	99.6	P
Beryllium				100.0	99.31	99.3	99.47	99.5	P
Cadmium				100.0	98.40	98.4	98.71	98.7	P
Chromium				200.0	195.90	98.0	195.90	98.0	P
Cobalt				200.0	193.70	96.8	192.80	96.4	P
Copper				200.0	202.50	101.2	202.50	101.2	P
Iron				30200.0	29960.00	99.2	29950.00	99.2	P
Lead				400.0	383.20	95.8	382.40	95.6	P
Manganese				200.0	198.70	99.4	199.40	99.7	P
Nickel				200.0	194.00	97.0	193.90	97.0	P
Silver				100.0	101.80	101.8	102.50	102.5	P
Thallium				100.0	98.46	98.5	94.50	94.5	P
Vanadium				200.0	197.90	99.0	197.50	98.8	P

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

USEPA - CLP

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

AA CRDL Standard Source: Inorganic Ventures

ICP CRDL Standard Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	True	Found	%R	CRDL Standard for ICP Initial True	Initial Found	Initial %R	Final Found	Final %R
Aluminum				400.0	508.90	127.2	491.20	122.8
Antimony				120.0	126.90	105.8	128.00	106.7
Arsenic				20.0	20.38	101.9	21.61	108.0
Barium				400.0	399.30	99.8	401.50	100.4
Beryllium				10.0	10.20	102.0	10.29	102.9
Cadmium				10.0	10.16	101.6	10.13	101.3
Calcium				10000.0	10620.00	106.2	10590.00	105.9
Chromium				20.0	20.98	104.9	21.72	108.6
Cobalt				100.0	98.10	98.1	97.82	97.8
Copper				50.0	51.08	102.2	51.67	103.3
Iron				200.0	272.80	136.4	294.90	147.4
Lead				6.0	5.97	99.5	7.04	117.3
Magnesium				10000.0	10400.00	104.0	10370.00	103.7
Manganese				30.0	29.95	99.8	30.10	100.3
Mercury	0.2	0.17	85.0					
Nickel				80.0	80.53	100.7	80.33	100.4
Potassium				10000.0	11670.00	116.7	11610.00	116.1
Silver				20.0	20.21	101.0	20.64	103.2
Sodium				10000.0	10180.00	101.8	10210.00	102.1
Thallium				20.0	18.78	93.9	19.33	96.6
Vanadium				100.0	99.31	99.3	99.30	99.3
Zinc				40.0	40.82	102.0	40.95	102.4

Control Limits: no limits have been established by EPA at this time

USEPA - CLP

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

AA CRDL Standard Source: Inorganic Ventures

ICP CRDL Standard Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	True	Found	%R	CRDL Standard for ICP Initial True	Initial Found	Initial %R	Final Found	Final %R
Manganese				30.0	30.81	102.7	31.15	103.8
Zinc				40.0	41.51	103.8	41.85	104.6

Control Limits: no limits have been established by EPA at this time

USEPA - CLP

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

AA CRDL Standard Source: Inorganic Ventures

ICP CRDL Standard Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	True	Found	%R	CRDL Standard for ICP Initial True	Initial Found	Initial %R	Final Found	Final %R
Selenium				10.0	9.91	99.1	10.35	103.5

Control Limits: no limits have been established by EPA at this time

USEPA - CLP

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: SDG No.: IDD001

AA CRDL Standard Source: Inorganic Ventures

ICP CRDL Standard Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	True	Found	%R	CRDL Standard for ICP Initial True	Initial Found	Initial %R	Final Found	Final %R
Aluminum				400.0	517.00	129.2	504.20	126.0
Antimony				120.0	120.50	100.4	119.80	99.8
Arsenic				20.0	21.58	107.9	20.16	100.8
Barium				400.0	394.30	98.6	392.50	98.1
Beryllium				10.0	10.32	103.2	10.45	104.5
Cadmium				10.0	9.96	99.6	9.96	99.6
Chromium				20.0	23.19	116.0	23.88	119.4
Cobalt				100.0	97.11	97.1	94.75	94.8
Copper				50.0	51.62	103.2	50.95	101.9
Iron				200.0	291.50	145.8	292.90	146.4
Lead				6.0	5.68	94.7	4.86	81.0
Manganese				30.0	30.71	102.4	30.87	102.9
Nickel				80.0	82.48	103.1	80.63	100.8
Silver				20.0	20.07	100.4	20.75	103.8
Thallium				20.0	20.07	100.4	21.95	109.8
Vanadium				100.0	98.87	98.9	99.28	99.3

Control Limits: no limits have been established by EPA at this time

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

Preparation Blank Matrix (soil/water): SOIL

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	23.6	U	23.6	U	23.6	U	23.6	U	-2.974	B	P
Antimony	4.7	U	4.7	U	4.7	U	4.7	U	0.605	B	P
Arsenic	4.8	U	4.8	U	4.8	U	4.8	U	0.480	U	P
Barium	5.9	U	5.9	U	5.9	U	5.9	U	0.590	U	P
Beryllium	0.2	U	0.2	U	0.2	U	0.2	U	0.026	B	P
Cadmium	0.6	U	0.6	U	0.6	U	0.6	U	0.060	U	P
Calcium	182.1	U	182.1	U	182.1	U	182.1	U	18.210	U	P
Chromium	1.5	B	4.6	B	5.8	B	7.8	B	0.140	U	P
Cobalt	2.0	U	2.0	U	2.0	U	2.0	U	0.200	U	P
Copper	2.4	U	2.4	U	2.4	U	2.4	U	0.240	U	P
Iron	33.3	U	33.3	U	33.3	U	59.4	B	3.330	U	P
Lead	1.3	U	1.3	U	1.3	U	1.3	U	0.247	B	P
Magnesium	178.3	U	178.3	U	178.3	U	178.3	U	17.830	U	P
Manganese	0.7	U	4.7	B	4.8	B	5.0	B	0.070	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.017	U	CV
Nickel	2.1	U	13.0	B	13.0	B	13.8	B	-0.266	B	P
Potassium	393.0	U	393.0	U	393.0	U	393.0	U	39.300	U	P
Selenium									0.363	B	P
Silver	2.2	U	2.2	U	2.2	U	2.2	U	0.220	U	P
Sodium	472.7	U	472.7	U	472.7	U	472.7	U	86.750	B	P
Thallium	5.7	U	5.7	U	5.7	U	5.7	U	-0.611	B	P
Vanadium	2.0	U	2.0	U	2.0	U	2.0	U	0.200	U	P
Zinc	1.0	U	1.0	U	1.0	U	1.0	U	0.186	B	P

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			23.6	U							P
Antimony			4.7	U							P
Arsenic			4.8	U							P
Barium			5.9	U							P
Beryllium			0.2	U							P
Cadmium			0.6	U							P
Calcium			182.1	U							P
Chromium			8.3	B							P
Cobalt			2.0	U							P
Copper			2.4	U							P
Iron			49.9	B							P
Lead			1.3	U							P
Magnesium			178.3	U							P
Manganese			4.7	B							P
Nickel			13.0	B							P
Potassium			393.0	U							P
Silver			2.2	U							P
Sodium			472.7	U							P
Thallium			5.7	U							P
Vanadium			2.0	U							P
Zinc			1.0	U							P

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Manganese	0.7	U	0.7	U	0.7	U	0.7	U			P
Zinc	1.0	U	1.0	U	1.0	U	1.0	U			P

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Manganese			0.7	U							P
Zinc			1.0	U							P

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Selenium	2.1	B	2.9	B	1.7	U	2.7	B			P

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Selenium			4.7	B							P

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	23.6	U	23.6	U	23.6	U	23.6	U			P
Antimony	4.7	U	4.7	U	4.7	U	4.7	U			P
Arsenic	4.8	U	4.8	U	4.8	U	4.8	U			P
Barium	5.9	U	5.9	U	5.9	U	5.9	U			P
Beryllium	0.2	B	0.2	U	0.2	B	0.3	B			P
Cadmium	0.6	U	0.6	U	0.6	U	0.6	U			P
Chromium	1.4	U	1.4	U	1.4	U	1.4	U			P
Cobalt	2.0	U	2.0	U	2.0	U	2.0	U			P
Copper	2.4	U	2.4	U	2.4	U	2.4	U			P
Iron	33.3	U	33.3	U	33.3	U	33.3	U			P
Lead	1.3	U	1.3	U	1.3	U	1.3	U			P
Manganese	0.7	U	0.7	U	0.7	U	0.7	U			P
Nickel	2.1	U	2.1	U	2.1	U	2.1	U			P
Silver	2.2	U	2.2	U	2.2	U	2.2	U			P
Thallium	5.7	U	5.7	U	5.7	U	5.7	U			P
Vanadium	2.0	U	2.0	U	2.0	U	2.0	U			P

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			23.6	U							P
Antimony			4.7	U							P
Arsenic			4.8	U							P
Barium			5.9	U							P
Beryllium			0.4	B							P
Cadmium			0.6	U							P
Chromium			1.4	U							P
Cobalt			2.0	U							P
Copper			2.4	U							P
Iron			33.3	U							P
Lead			1.3	U							P
Manganese			0.7	U							P
Nickel			2.1	U							P
Silver			2.2	U							P
Thallium			5.7	U							P
Vanadium			2.0	U							P

USEPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

ICP ID Number: TJA ICAP 4 ICS Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Aluminum	500000	482740	493100	489700.0	101.4	494900	492500.0	102.0
Antimony	0	596	-1	618.5	103.8	-1	620.6	104.1
Arsenic	0	102	11	103.7	101.7	5	103.6	101.6
Barium	0	503	2	497.3	98.9	2	500.0	99.4
Beryllium	0	482	0	479.2	99.4	0	481.9	100.0
Cadmium	0	938	0	924.4	98.6	0	925.3	98.6
Calcium	500000	477840	488100	487400.0	102.0	489800	487500.0	102.0
Chromium	0	483	2	475.5	98.4	2	475.5	98.4
Cobalt	0	457	-1	455.3	99.6	-1	454.4	99.4
Copper	0	526	4	512.8	97.5	4	517.2	98.3
Iron	200000	191980	199900	197000.0	102.6	200600	197400.0	102.8
Lead	0	49	10	53.9	110.0	10	54.8	111.8
Magnesium	500000	521880	536600	536300.0	102.8	537900	537100.0	102.9
Manganese	0	474	1	467.9	98.7	1	468.8	98.9
Nickel	0	952	1	941.0	98.8	1	941.6	98.9
Potassium	0	0	32	34.4		-17	-13.0	
Silver	0	213	1	213.6	100.3	1	215.9	101.4
Sodium	0	0	-58	-61.3		-408	-150.8	
Thallium	0	89	-8	83.9	94.3	-5	88.4	99.3
Vanadium	0	478	3	467.4	97.8	2	468.2	97.9
Zinc	0	998	4	1001.0	100.3	5	1004.0	100.6

USEPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

ICP ID Number: TJA ICAP 4 ICS Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Manganese	0	451	1	476.8	105.7	2	476.3	105.6
Zinc	0	951	6	994.3	104.6	6	988.4	103.9

USEPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

ICP ID Number: TJA ICAP 6 ICS Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Selenium	0	48	2	55.0	114.6	6	52.2	108.8

USEPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

ICP ID Number: TJA ICAP 4 ICS Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Aluminum	500000	477680	506600	506300.0	106.0	505400	507800.0	106.3
Antimony	0	575	-1	593.8	103.3	1	587.8	102.2
Arsenic	0	97	10	104.0	107.2	8	100.9	104.0
Barium	0	464	2	495.9	106.9	2	492.6	106.2
Beryllium	0	444	0	471.4	106.2	0	469.6	105.8
Cadmium	0	874	0	931.6	106.6	0	930.1	106.4
Chromium	0	451	4	478.0	106.0	3	473.3	104.9
Cobalt	0	434	-1	455.2	104.9	-1	444.0	102.3
Copper	0	482	4	513.4	106.5	3	511.5	106.1
Iron	200000	192500	200500	200600.0	104.2	196700	197900.0	102.8
Lead	0	41	-1	40.5	98.8	0	40.2	98.0
Manganese	0	451	1	479.4	106.3	2	478.7	106.1
Nickel	0	876	1	926.1	105.7	0	909.3	103.8
Silver	0	198	0	211.7	106.9	0	214.3	108.2
Thallium	0	83	-3	85.3	102.8	-3	85.7	103.3
Vanadium	0	464	0	493.3	106.3	0	488.7	105.3

USEPA - CLP

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

IDOLPDSSD14S

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

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

% Solids for Sample: 39.3

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		29087.4609		25395.4004		498.93	740.0		P
Antimony	75 - 125	52.8115		7.4914	B	124.73	36.3	N	P
Arsenic		138.1031		118.2957		9.98	198.5		P
Barium	75 - 125	1134.0620		617.9215		498.93	103.4		P
Beryllium	75 - 125	12.9746		1.2982		12.47	93.6		P
Cadmium	75 - 125	28.5636		11.9468		12.47	133.3	N	P
Chromium	75 - 125	58.3994		11.2134		49.89	94.6		P
Cobalt	75 - 125	131.2428		15.0726		124.73	93.1		P
Copper	75 - 125	152.4472		84.7927		62.37	108.5		P
Iron		45003.2500		46275.5117		249.46	-510.0		P
Lead		578.0073		486.4542		4.99	1834.7		P
Manganese		567.7793		577.0095		124.73	-7.4		P
Mercury		5.9240		4.1252		0.40	449.7		CV
Nickel	75 - 125	143.0425		26.4681		124.73	93.5		P
Selenium	75 - 125	4.4180		2.5096		2.49	76.6		P
Silver	75 - 125	12.8898		1.2877	B	12.47	93.0		P
Thallium	75 - 125	11.4254		1.4219	U	12.47	91.6		P
Vanadium	75 - 125	156.5883		39.5649		124.73	93.8		P
Zinc		2260.1411		2050.0920		124.73	168.4		P

Comments:

USEPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

IDOLPDSSD14A

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS _____ SDG No.: IDD001

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

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added(SA)	%R	Q	M
Aluminum		117000.00		101800.00		2000.0	760.0		P
Antimony		501.90		30.03	B	500.0	94.4		P
Arsenic		523.70		474.20		40.0	123.8		P
Barium		4452.00		2477.00		2000.0	98.8		P
Beryllium		53.31		5.20		50.0	96.2		P
Cadmium		96.60		47.89		50.0	97.4		P
Chromium		241.10		44.95		200.0	98.1		P
Cobalt		522.40		60.42		500.0	92.4		P
Copper		611.50		339.90		250.0	108.6		P
Iron		194100.00		185500.00		1000.0	860.0		P
Lead		2010.00		1950.00		20.0	300.0		P
Manganese		2881.00		2313.00		500.0	113.6		P
Nickel		579.50		106.10		500.0	94.7		P
Selenium		18.18		10.06		10.0	81.2		P
Silver		53.42		5.16	B	50.0	96.5		P
Thallium		47.86		5.70	U	50.0	95.7		P
Vanadium		649.00		158.60		500.0	98.1		P
Zinc		13980.00		8218.00		5000.0	115.2		P

Comments:

USEPA - CLP

6
DUPLICATES

SAMPLE NO.

IDOLPDSSD14D

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: SDG No.: IDD001

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

% Solids for Sample: 39.3 % Solids for Duplicate: 44.6

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		25395.4004		22454.2207		12.3		P
Antimony		7.4914	B	7.1222	B	5.1		P
Arsenic		118.2957		131.2179		10.4		P
Barium		617.9215		615.1774		0.4		P
Beryllium		1.2982		1.1735	B	10.1		P
Cadmium		11.9468		15.0152		22.8	*	P
Calcium		10664.5703		10844.1797		1.7		P
Chromium	2.5	11.2134		10.0409		11.0		P
Cobalt	12.5	15.0726		15.4767		2.6		P
Copper		84.7927		86.5639		2.1		P
Iron		46275.5117		43356.7813		6.5		P
Lead		486.4542		583.9944		18.2		P
Magnesium	1247.3	2993.5640		2691.7129		10.6		P
Manganese		577.0095		523.3748		9.7		P
Mercury		4.1252		4.4024		6.5		CV
Nickel	10.0	26.4681		24.3826		8.2		P
Potassium	1247.3	3529.9109		3255.5010		8.1		P
Selenium	1.2	2.5096		2.0254		21.4		P
Silver		1.2877	B	1.2448	B	3.4		P
Sodium		350.7459	B	373.4471	B	6.3		P
Thallium		1.4219	U	1.4219	U			P
Vanadium	12.5	39.5649		35.6733		10.3		P
Zinc		2050.0920		2213.9900		7.7		P

7
LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

Solid LCS Source: ERA lot249/USEPA 0996/ERA lot0899

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum				200.0	198.4		160.0	240.0	99.2
Antimony				50.0	51.6		40.0	60.0	103.2
Arsenic				24.0	23.7		19.2	28.8	98.8
Barium				200.0	199.7		160.0	240.0	99.8
Beryllium				5.0	5.1		4.0	6.0	102.0
Cadmium				25.0	25.0		20.0	30.0	100.0
Calcium				2000.0	2092.0		1600.0	2400.0	104.6
Chromium				20.0	20.5		16.0	24.0	102.5
Cobalt				50.0	49.4		40.0	60.0	98.8
Copper				25.0	26.2		20.0	30.0	104.8
Iron				100.0	108.3		80.0	120.0	108.3
Lead				22.0	21.7		17.6	26.4	98.6
Magnesium				2000.0	2016.0		1600.0	2400.0	100.8
Manganese				50.0	50.8		40.0	60.0	101.6
Mercury				0.1	0.1		0.1	0.1	100.0
Nickel				50.0	49.4		40.0	60.0	98.8
Potassium				2000.0	2028.0		1600.0	2400.0	101.4
Selenium				21.0	20.5		16.8	25.2	97.6
Silver				25.0	22.8		20.0	30.0	91.2
Sodium				2000.0	2054.0		1600.0	2400.0	102.7
Thallium				25.0	24.0		20.0	30.0	96.0
Vanadium				50.0	51.1		40.0	60.0	102.2
Zinc				50.0	50.5		40.0	60.0	101.0

9
ICP SERIAL DILUTIONS

SAMPLE NO.

IDOLPDSSD14L

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: SDG No.: IDD001

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	101800.00		115400.00		13.4	E	P
Antimony	30.03	B	31.88	B	6.2		P
Arsenic	474.20		536.60		13.2	E	P
Barium	2477.00		2737.00		10.5	E	P
Beryllium	5.20		6.46	B	24.2		P
Cadmium	47.89		54.36		13.5	E	P
Calcium	42750.00		47830.00		11.9	E	P
Chromium	44.95		43.79	B	2.6		P
Cobalt	60.42		66.12	B	9.4		P
Copper	339.90		372.70		9.6		P
Iron	185500.00		207900.00		12.1	E	P
Lead	1950.00		2232.00		14.5	E	P
Magnesium	12000.00		13570.00	B	13.1	E	P
Manganese	2313.00		2582.00		11.6	E	P
Nickel	106.10		117.50	B	10.7	E	P
Potassium	14150.00		17340.00	B	22.5		P
Selenium	10.06		8.50	U	100.0		P
Silver	5.16	B	11.00	U	100.0		P
Sodium	1406.00	B	2363.50	U	100.0		P
Thallium	5.70	U	28.50	U			P
Vanadium	158.60		174.60	B	10.1	E	P
Zinc	8218.00		9052.00		10.1	E	P

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

ICP ID Number: _____ Date: 7/1/2003

Flame AA ID Number: Leeman Hydra AA

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Mercury	253.70		0.2	0.10	CV

Comments: _____

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

ICP ID Number: TJA ICAP 4 Date: 7/1/2003

Flame AA ID Number: _____

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.215		200	23.6	P
Antimony	206.838		60	4.7	P
Arsenic	189.042		10	4.8	P
Barium	493.409		200	5.9	P
Beryllium	313.042		5	0.2	P
Cadmium	226.502		5	0.6	P
Calcium	317.933		5000	182.1	P
Chromium	267.716		10	1.4	P
Cobalt	228.616		50	2.0	P
Copper	324.754		25	2.4	P
Iron	271.441		100	33.3	P
Lead	220.353		3	1.3	P
Magnesium	279.078		5000	178.3	P
Manganese	257.610		15	0.7	P
Nickel	231.604		40	2.1	P
Potassium	766.491		5000	393.0	P
Silver	328.068		10	2.2	P
Sodium	330.232		5000	472.7	P
Thallium	190.864		10	5.7	P
Vanadium	292.402		50	2.0	P
Zinc	213.856		20	1.0	P

Comments: _____

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

ICP ID Number: TJA ICAP 6 Date: 7/1/2003

Flame AA ID Number: _____

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Selenium	196.026		5	1.7	P

Comments: _____

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11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

ICP ID Number: TJA ICAP 4 Date: 6/30/2003

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Ba
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	-0.0000600	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.68	0.0000000	0.0000000	0.0008950	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000330	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0004320
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0006300	0.0000000	0.0000090	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000200	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0000000	0.0000000	-0.0000220	0.0000000	0.0000000
Silicon	288.16	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000200	0.0000000	-0.0000900	0.0000000	0.0000000
Tin	189.99	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000490	0.0000000	0.0000000
Zinc	213.86	0.0000250	0.0000000	0.0000630	0.0000000	0.0000000

Comments: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

ICP ID Number: TJA ICAP 4 Date: 6/30/2003

Analyte	Wave-length (nm)	Interelement Correction Factors for: Co	Cr	Cu	Mn	Mo
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0072400
Antimony	206.84	0.0000000	0.0111600	0.0000000	0.0000000	-0.0024800
Arsenic	189.04	0.0000000	0.0004700	0.0000000	0.0000000	0.0013380
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.68	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0001150	0.0000000	0.0000000	0.0000000	0.0001350
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	-0.0016380
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.1059800	0.0000000	0.0000000	0.0000000	0.0036200
Lead	220.35	-0.0022600	-0.0001190	0.0000000	0.0000000	-0.0007540
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	-0.0004300	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silicon	288.16	0.0000000	-0.0038600	0.0000000	0.0000000	-0.0042750
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007920
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0032700	0.0002540	0.0000000	-0.008140	0.0000000
Tin	189.99	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	-0.0160000
Zinc	213.86	0.0000000	0.0000000	0.0003300	0.0000000	0.0000000

Comments: _____

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11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

ICP ID Number: TJA ICAP 4 Date: 6/30/2003

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Ni	Sb	Sn	V	Zn
Aluminum	308.22	0.0000000	0.0000000	0.1440400	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0006280	0.0000000
Boron	249.68	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	-0.000192	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0237000	0.0000000
Lead	220.35	0.0001240	-0.0002280	0.0000000	0.0005020	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0000000	0.0001660	0.0000000	0.0000000	0.0000000
Silicon	288.16	0.0000000	0.0000000	-0.1212200	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.1177000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0025400	0.0000000
Tin	189.99	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.86	0.0052400	0.0000000	0.0000000	0.0000000	0.0000000

Comments: _____

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11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

ICP ID Number: TJA ICAP 6 Date: 10/1/2002

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Ag
Aluminum	308.215	0.0000000	0.0000000	-0.0002180	0.0000000	0.0000000
Antimony	206.838	0.0000080	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.042	0.0000170	0.0000000	-0.0000590	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.042	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.678	0.0000000	0.0000000	-0.0000740	0.0000000	0.0000000
Cadmium	226.502	0.0000010	0.0000000	0.0000590	0.0000000	0.0000000
Calcium	317.933	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000100	0.0000000	-0.0000200	0.0000060	0.0000000
Cobalt	228.616	0.0000000	0.0000000	-0.0000400	0.0000000	0.0000000
Copper	324.754	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.441	0.0001740	0.0000000	0.0000000	-0.001587	0.0000000
Lead	220.353	-0.0000300	0.0000000	0.0000550	-0.000006	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000200	0.0000000
Molybdenum	202.030	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	-0.0000520	0.0000000	0.0000000
Phosphorus	178.287	0.0000070	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.026	0.0000000	0.0000000	-0.0007500	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.232	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	421.552	0.0000000	0.0000240	0.0000000	0.0000000	0.0000000
Thallium	190.864	0.0000080	0.0000000	-0.0001100	0.0000000	0.0000000
Tin	189.989	0.0000090	0.0000000	-0.0000750	0.0000000	0.0000000
Titanium	334.941	0.0000000	0.0000000	0.0000000	0.0000140	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000030	0.0000040	0.0000000
Zinc	206.200	0.0000300	0.0000000	-0.0000600	0.0000000	0.0000000

Comments: _____

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11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

ICP ID Number: TJA ICAP 6 Date: 10/1/2002

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	B	Be	Cd	Co
Aluminum	308.215	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.838	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.042	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.042	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.678	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.933	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.754	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.441	0.0000000	0.0000000	0.0000000	0.0000000	-0.0082960
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.030	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Phosphorus	178.287	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.026	0.0000000	0.0000000	0.0000000	0.0000000	-0.0001900
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.232	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	421.552	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.864	0.0000000	0.0000000	0.0000000	0.0000000	0.0002350
Tin	189.989	0.0000000	0.0000000	-0.0004370	0.0000000	0.0000000
Titanium	334.941	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.200	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments: _____

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11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: SDG No.: IDD001

ICP ID Number: TJA ICAP 6 Date: 10/1/2002

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Cr	Cu	Mn	Na	Ni
Aluminum	308.215	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.838	0.0078510	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.042	-0.0002840	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.042	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.678	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	-0.0001750
Calcium	317.933	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.754	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.441	0.0008900	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0000000	0.0000800
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.030	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Phosphorus	178.287	-0.0007400	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.026	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.232	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	421.552	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.864	0.0000000	0.0000000	-0.0004500	0.0000000	0.0000000
Tin	189.989	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.941	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.200	0.0044570	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

ICP ID Number: TJA ICAP 6 Date: 10/1/2002

Analyte	Wave-length (nm)	Interelement Correction Factors for: Pb	Sb	Se	Si	Tl
Aluminum	308.215	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.838	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.042	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.042	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.678	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.933	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.754	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.441	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.030	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Phosphorus	178.287	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.026	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.232	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	421.552	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.864	-0.0003500	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.989	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.941	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.200	0.0003900	0.0000000	0.0000000	0.0000000	0.0000000

Comments: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

ICP ID Number: TJA ICAP 6 Date: 10/1/2002

Analyte	Wave-length (nm)	Interelement Correction Factors for: V	Zn			
Aluminum	308.215	0.0173200	0.0000000			
Antimony	206.838	-0.0012700	0.0000000			
Arsenic	189.042	-0.0002800	0.0000000			
Barium	493.409	0.0000000	0.0000000			
Beryllium	313.042	0.0004800	0.0000000			
Boron	249.678	0.0000000	0.0000000			
Cadmium	226.502	0.0000000	0.0000000			
Calcium	317.933	0.0000000	0.0000000			
Chromium	267.716	-0.0003600	0.0000000			
Cobalt	228.616	0.0000000	0.0000000			
Copper	324.754	0.0000000	0.0000000			
Iron	271.441	0.0081200	0.0000000			
Lead	220.353	-0.0000850	0.0000000			
Magnesium	279.079	0.0000000	0.0000000			
Manganese	257.610	0.0000000	0.0000000			
Molybdenum	202.030	0.0000000	0.0000000			
Nickel	231.604	0.0000000	0.0000000			
Phosphorus	178.287	0.0000000	0.0164830			
Potassium	766.491	0.0000000	0.0000000			
Selenium	196.026	0.0000000	0.0000000			
Silver	328.068	-0.0003350	0.0000000			
Sodium	330.232	-0.1479730	0.6581000			
Strontium	421.552	0.0000000	0.0000000			
Thallium	190.864	0.0014900	0.0000000			
Tin	189.989	0.0000000	0.0000000			
Titanium	334.941	0.0000000	0.0000000			
Vanadium	292.402	0.0000000	0.0000000			
Zinc	206.200	-0.0004730	0.0000000			

Comments: _____

USEPA - CLP

12
ICP LINEAR RANGES (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

ICP ID Number: TJA ICAP 4 Date: 7/1/2003

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	10.00	1000000.0	P
Antimony	10.00	100000.0	P
Arsenic	10.00	5000.0	P
Barium	10.00	10000.0	P
Beryllium	10.00	5000.0	P
Cadmium	10.00	5000.0	P
Calcium	10.00	600000.0	P
Chromium	10.00	100000.0	P
Cobalt	10.00	100000.0	P
Copper	10.00	10000.0	P
Iron	10.00	1000000.0	P
Lead	10.00	10000.0	P
Magnesium	10.00	500000.0	P
Manganese	10.00	10000.0	P
Nickel	10.00	10000.0	P
Potassium	10.00	100000.0	P
Silver	10.00	2000.0	P
Sodium	10.00	100000.0	P
Thallium	10.00	5000.0	P
Vanadium	10.00	100000.0	P
Zinc	10.00	5000.0	P

Comments: _____

USEPA - CLP

12
ICP LINEAR RANGES (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

ICP ID Number: TJA ICAP 6 Date: 7/1/2003

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Selenium	10.00	5000.0	P

Comments: _____

USEPA - CLP

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PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

Method: CV

EPA Sample No.	Preparation Date	Initial Volume mL	Volume (mL)
IDOLADPSD12	8/13/2003	0.60	100.0
IDOLPDPSD13	8/13/2003	0.62	100.0
IDOLPDSSD14	8/13/2003	0.66	100.0
IDOLPDSSD14100	8/13/2003	0.66	100.0
IDOLPDSSD14D	8/13/2003	0.63	100.0
IDOLPDSSD14S	8/13/2003	0.64	100.0
IDOLSTPSD07	8/13/2003	0.62	100.0
IDOLSTSSD05	8/13/2003	0.69	100.0
IDOLSTSSD06	8/13/2003	0.63	100.0
LCSS0813B	8/13/2003	1.00	100.0
PBS0813B	8/13/2003	0.60	100.0

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PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

Method: P

EPA Sample No.	Preparation Date	Initial Weight (g)	Volume (mL)
IDOLADPSD12	8/20/2003	1.06	100.0
IDOLPDPSD13	8/20/2003	1.02	100.0
IDOLPDSSD14	8/20/2003	1.02	100.0
IDOLPDSSD14100	8/20/2003	1.02	100.0
IDOLPDSSD14D	8/20/2003	1.02	100.0
IDOLPDSSD14S	8/20/2003	1.02	100.0
IDOLSTPSD07	8/20/2003	1.03	100.0
IDOLSTSSD05	8/20/2003	1.00	100.0
IDOLSTSSD06	8/20/2003	1.03	100.0
LCSS0820D	8/20/2003	1.00	100.0
PBS0820D	8/20/2003	1.00	100.0

USEPA - CLP

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ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

Instrument ID Number: TJA ICAP 4 Method: P

Start Date: 9/12/2003 End Date: 9/12/2003

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	1523		X	X	X	X	X	X		X	X	X	X	X		X		X			X		X	X		
S	1.00	1528		X										X													
S	1.00	1531			X	X									X									X			
S	1.00	1535					X	X	X		X	X	X				X		X			X			X		
LRS	1.00	1540		X	X	X	X	X	X		X	X	X	X	X		X		X			X		X	X		
LRS	1.00	1545		X	X	X	X	X	X		X	X	X	X	X		X		X			X		X	X		
LRS	1.00	1550		X	X	X	X	X	X		X	X	X	X	X		X		X			X		X	X		
ICV	1.00	1555		X	X	X	X	X	X		X	X	X	X	X		X		X			X		X	X		
ICB	1.00	1559		X	X	X	X	X	X		X	X	X	X	X		X		X			X		X	X		
ICSA	1.00	1604		X	X	X	X	X	X		X	X	X	X	X		X		X			X		X	X		
ICSAB	1.00	1609		X	X	X	X	X	X		X	X	X	X	X		X		X			X		X	X		
CRI	1.00	1614		X	X	X	X	X	X		X	X	X	X	X		X		X			X		X	X		
CCV	1.00	1618		X	X	X	X	X	X		X	X	X	X	X		X		X			X		X	X		
CCB	1.00	1623		X	X	X	X	X	X		X	X	X	X	X		X		X			X		X	X		
ZZZZZZ	1.00	1628																									
ZZZZZZ	1.00	1633																									
ZZZZZZ	1.00	1637																									
ZZZZZZ	1.00	1642																									
ZZZZZZ	5.00	1647																									
ZZZZZZ	1.00	1651																									
ZZZZZZ	1.00	1656																									
ZZZZZZ	1.00	1700																									
ZZZZZZ	1.00	1705																									
ZZZZZZ	1.00	1710																									
CCV	1.00	1714		X	X	X	X	X	X		X	X	X	X	X		X		X			X		X	X		
CCB	1.00	1719		X	X	X	X	X	X		X	X	X	X	X		X		X			X		X	X		
ZZZZZZ	1.00	1724																									
ZZZZZZ	1.00	1729																									
ZZZZZZ	1.00	1733																									
ZZZZZZ	1.00	1738																									
ZZZZZZ	5.00	1743																									
IDOLPDSSD14A	1.00	1747		X	X	X	X	X	X		X	X	X	X	X		X		X			X		X	X		
ZZZZZZ	1.00	1752																									
ZZZZZZ	1.00	1757																									
ZZZZZZ	10.00	1801																									
ZZZZZZ	50.00	1806																									
CCV	1.00	1811		X	X	X	X	X	X		X	X	X	X	X		X		X			X		X	X		
CCB	1.00	1816		X	X	X	X	X	X		X	X	X	X	X		X		X			X		X	X		

USEPA - CLP

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ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

Instrument ID Number: TJA ICAP 4 Method: P

Start Date: 9/12/2003 End Date: 9/12/2003

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	10.00	1820																									
ZZZZZZ	10.00	1825																									
ZZZZZZ	10.00	1830																									
ZZZZZZ	1.00	1834																									
ZZZZZZ	10.00	1839																									
ICSA	1.00	1844		X	X	X	X	X	X		X	X	X	X	X		X		X			X		X	X		
ICSAB	1.00	1848		X	X	X	X	X	X		X	X	X	X	X		X		X			X		X	X		
CRI	1.00	1853		X	X	X	X	X	X		X	X	X	X	X		X		X			X		X	X		
CCV	1.00	1858		X	X	X	X	X	X		X	X	X	X	X		X		X			X		X	X		
CCB	1.00	1903		X	X	X	X	X	X		X	X	X	X	X		X		X			X		X	X		

USEPA - CLP

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ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

Instrument ID Number: TJA ICAP 4 Method: P

Start Date: 9/12/2003 End Date: 9/13/2003

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	2145															X									X	
S	1.00	2149																									
S	1.00	2153																									
S	1.00	2157															X									X	
LRS	1.00	2202															X									X	
LRS	1.00	2207															X									X	
LRS	1.00	2212															X									X	
ICV	1.00	2216															X									X	
ICB	1.00	2221															X									X	
ICSA	1.00	2226															X									X	
ICSAB	1.00	2231															X									X	
CRI	1.00	2235															X									X	
CCV	1.00	2240															X									X	
CCB	1.00	2245															X									X	
ZZZZZZ	1.00	2250																									
ZZZZZZ	1.00	2254																									
ZZZZZZ	1.00	2259																									
ZZZZZZ	1.00	2304																									
ZZZZZZ	5.00	2308																									
ZZZZZZ	1.00	2313																									
ZZZZZZ	1.00	2318																									
ZZZZZZ	1.00	2322																									
ZZZZZZ	1.00	2327																									
ZZZZZZ	1.00	2332																									
CCV	1.00	2336															X									X	
CCB	1.00	2341															X									X	
ZZZZZZ	1.00	2346																									
ZZZZZZ	1.00	2351																									
IDOLSTSSD05	10.00	2355																								X	
ZZZZZZ	1.00	0000																									
ZZZZZZ	5.00	0005																									
ZZZZZZ	1.00	0009																									
ZZZZZZ	1.00	0014																									
ZZZZZZ	1.00	0019																									
IDOLPDSSD14	10.00	0023																								X	
IDOLPDSSD14L	50.00	0028																								X	
CCV	1.00	0033															X									X	
CCB	1.00	0038															X									X	

USEPA - CLP

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ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

Instrument ID Number: TJA ICAP 4 Method: P

Start Date: 9/12/2003 End Date: 9/13/2003

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
IDOLPDSSD14A	10.00	0042																								X	
IDOLPDSSD14D	10.00	0047																								X	
IDOLPDSSD14S	10.00	0052																								X	
IDOLPDSSD14100	10.00	0056																								X	
IDOLADPSD12	10.00	0101															X										
ICSA	1.00	0106															X									X	
ICSAB	1.00	0110															X									X	
CRI	1.00	0115															X									X	
CCV	1.00	0120															X									X	
CCB	1.00	0125															X									X	

USEPA - CLP

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ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

Instrument ID Number: Leeman Hydra AA Method: CV

Start Date: 8/14/2003 End Date: 8/14/2003

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	1654																X									
S0.2	1.00	1656																X									
S0.5	1.00	1658																X									
S1	1.00	1700																X									
S5	1.00	1701																X									
S10	1.00	1703																X									
ICV	1.00	1705																X									
ICB	1.00	1707																X									
CRA	1.00	1709																X									
CCV	1.00	1710																X									
CCB	1.00	1712																X									
ZZZZZZ	2.00	1714																									
ZZZZZZ	1.00	1716																									
ZZZZZZ	5.00	1718																									
ZZZZZZ	1.00	1719																									
PBS0813B	1.00	1721																X									
LCSS0813B	1.00	1723																X									
IDOLSTSSD05	1.00	1725																X									
IDOLPDSSD14	1.00	1727																X									
IDOLPDSSD14D	1.00	1728																X									
CCV	1.00	1730																X									
CCB	1.00	1732																X									
IDOLPDSSD14S	1.00	1734																X									
IDOLPDSSD14100	1.00	1736																X									
IDOLPDPSD13	1.00	1737																X									
IDOLADPSD12	1.00	1739																X									
IDOLSTPSD07	1.00	1741																X									
IDOLSTSSD06	1.00	1743																X									
ZZZZZZ	1.00	1745																									
ZZZZZZ	1.00	1746																									
ZZZZZZ	1.00	1749																									
CCV3	1.00	1751																X									
CCB3	1.00	1753																X									

USEPA - CLP

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ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

Instrument ID Number: TJA ICAP 4 Method: P

Start Date: 8/30/2003 End Date: 8/30/2003

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	1728		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	
S	1.00	1733		X						X				X		X				X			X				
S	1.00	1737			X	X									X									X			
S	1.00	1741					X	X	X		X	X	X				X		X			X			X	X	
LRS	1.00	1747		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	
LRS	1.00	1752		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	
LRS	1.00	1757		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	
ICV	1.00	1802		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	
ICB	1.00	1808		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	
ICSA	1.00	1813		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	
ICSAB	1.00	1818		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	
CRI	1.00	1823		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	
CCV	1.00	1828		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	
CCB	1.00	1833		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	
PBS0820D	1.00	1838		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	
LCSS0820D	1.00	1843		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	
ZZZZZZ	1.00	1848																									
ZZZZZZ	1.00	1853																									
ZZZZZZ	5.00	1858																									
ZZZZZZ	1.00	1903																									
ZZZZZZ	1.00	1909																									
ZZZZZZ	1.00	1914																									
ZZZZZZ	1.00	1919																									
ZZZZZZ	1.00	1924																									
CCV	1.00	1929		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	
CCB	1.00	1934		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	
ZZZZZZ	1.00	1939																									
ZZZZZZ	1.00	1944																									
IDOLSTSSD05	1.00	1949		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X		
IDOLPDSSD14	1.00	1954		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X		
IDOLPDSSD14L	5.00	1959		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X		
ZZZZZZ	1.00	2004																									
IDOLPDSSD14100	1.00	2009		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X		
IDOLPDPSD13	1.00	2014		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	
IDOLADPSD12	1.00	2019		X	X	X	X	X	X	X	X	X	X	X	X	X			X	X		X	X	X	X	X	
IDOLSTPSD07	1.00	2024		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	
CCV	1.00	2029		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	
CCB	1.00	2035		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 BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

Instrument ID Number: TJA ICAP 4 Method: P

Start Date: 8/30/2003 End Date: 8/30/2003

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
IDOLSTSSD06	1.00	2040		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	
IDOLPDSSD14D	1.00	2045		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X		
IDOLPDSSD14S	1.00	2050		X	X	X	X	X	X		X	X	X	X	X		X		X			X		X	X		
ICSA	1.00	2055		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	
ICSAB	1.00	2100		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	
CRI	1.00	2105		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	
CCV	1.00	2110		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	
CCB	1.00	2115		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	

USEPA - CLP

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ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

Instrument ID Number: TJA ICAP 6 Method: P

Start Date: 9/7/2003 End Date: 9/7/2003

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	1624																			X						
S	1.00	1628																									
S	1.00	1631																			X						
S	1.00	1635																									
LRS	1.00	1640																			X						
LRS	1.00	1644																			X						
LRS	1.00	1648																			X						
ICV	1.00	1652																			X						
ICB	1.00	1657																			X						
ICSA	1.00	1701																			X						
ICSAB	1.00	1705																			X						
CRI	1.00	1709																			X						
CCV	1.00	1713																			X						
CCB	1.00	1717																			X						
PBS0820D	1.00	1721																			X						
LCSS0820D	1.00	1725																			X						
IDOLSTSSD05	1.00	1730																			X						
IDOLPDSSD14	1.00	1734																			X						
IDOLPDSSD14L	5.00	1738																			X						
IDOLPDSSD14A	1.00	1742																			X						
IDOLPDSSD14100	1.00	1746																			X						
IDOLPDPSD13	1.00	1750																			X						
IDOLADPSD12	1.00	1754																			X						
IDOLSTPSD07	1.00	1758																			X						
CCV	1.00	1802																			X						
CCB	1.00	1806																			X						
IDOLSTSSD06	1.00	1810																			X						
IDOLPDSSD14D	1.00	1814																			X						
IDOLPDSSD14S	1.00	1818																			X						
ZZZZZZ	1.00	1822																									
ZZZZZZ	1.00	1826																									
ZZZZZZ	1.00	1830																									
ZZZZZZ	1.00	1835																									
ZZZZZZ	1.00	1839																									
ZZZZZZ	1.00	1843																									
ZZZZZZ	1.00	1847																									
CCV	1.00	1851																			X						
CCB	1.00	1855																			X						

USEPA - CLP

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ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: IDD001

Instrument ID Number: TJA ICAP 6 Method: P

Start Date: 9/7/2003 End Date: 9/7/2003

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	1859																									
ZZZZZZ	1.00	1903																									
ZZZZZZ	1.00	1907																									
ZZZZZZ	5.00	1911																									
ZZZZZZ	1.00	1915																									
ZZZZZZ	1.00	1919																									
ZZZZZZ	1.00	1923																									
ICSA	1.00	1927																			X						
ICSAB	1.00	1932																			X						
CRI	1.00	1936																			X						
CCV	1.00	1940																			X						
CCB	1.00	1944																			X						