

Appendix J

Laboratory Analytical Reports

Metals

**TOTAL METALS AND CYANIDE SURFACE WATER RESULTS (UG/L)
BLUEBIRD/BLACKJACK SI**

| Area | Site | Sample No. | Date | TAL Metals and Cyanide, µg/L | | | | | BARIUM | BERYLLIUM | CADMIUM | CALCIUM | CHROMIUM, TOTAL | COBALT | COPPER | CYANIDE | IRON | LEAD | MAGNESIUM | MANGANESE | MERCURY | NICKEL | POTASSIUM | SELENIUM | SILVER | SODIUM | THALLIUM | VANADIUM | ZINC |
|----------------|------|------------|----------|------------------------------|----------|---------|---------------|-------------|--------|-----------|---------|---------|-----------------|--------|--------|---------|--------|-------|-----------|-----------|---------|--------|-----------|----------|--------|--------|----------|----------|-------|
| | | | | ALUMINUM | ANTIMONY | ARSENIC | ARSENIC (III) | ARSENIC (V) | | | | | | | | | | | | | | | | | | | | | |
| Adits | BLAC | AD-SFW-11 | 07/23/03 | <23.6U | <4.7U | <4.8U | <2U | <2U | 30B | <0.2U | <0.6U | 7460 | <1.4U | 11.8B | <2.4U | <10U | 26000 | <1.3U | 13000 | 2430 | 0.14B | 44.8 | 1440B | <3.4U | <2.2U | 2740B | <5.7U | <2U | 108 |
| Adits | BLUE | AD-SFW-19 | 07/20/03 | 614 | <4.7U | <4.8U | <2U | <2U | 9.7B | <0.2U | <0.6U | 4350B | 5B | 34B | 8.7B | <10U | 37500 | <1.3U | 11000 | 4750 | 0.38 | 108 | 1330B | <3.4U | <2.2U | 3080B | <5.7U | <2U | 202 |
| Ponds | BLAC | PD-SFW-10 | 07/22/03 | 2040 | <4.7U | <4.8U | <2U | 2.5 | 33.9B | <0.2U | 2.3B | 6130 | 2.2B | 54.7 | 224 | <0.01U | 18900 | <1.3U | 8170 | 2450 | 0.14B | 152 | 1360B | <3.4U | <2.2U | 2990B | <5.7U | <2U | 178 |
| Ponds | BLAC | PD-SFW-15 | 07/22/03 | 1620 | <4.7U | 5.2B | <2U | 2.4 | 34B | <0.2U | 2.4B | 6130 | 1.5B | 54.3 | 201 | <0.01U | 18000 | <1.3U | 8130 | 2450 | 0.36 | 152 | 1350B | <3.4U | <2.2U | 3130B | <5.7U | <2U | 176 |
| Ponds | BLAC | PD-SFW-41 | 07/22/03 | 158B | <4.7U | <4.8U | <2U | <2U | 19.2B | <0.2U | <0.6U | 12000 | 1.9B | <2U | 3.1B | <0.01U | 213 | <1.3U | 6970 | 51 | <0.1U | 3.7B | 1340B | <3.4U | <2.2U | 2890B | <5.7U | <2U | 5.9B |
| Ponds | BLAC | PD-SFW-43 | 07/23/03 | <23.6U | <4.7U | <4.8U | <2U | <2U | <5.9U | <0.2U | <0.6U | 7420 | <1.4U | <2U | <2.4U | <10U | 231 | <1.3U | 13800 | 101 | <0.1U | <2.1U | 1440B | <3.4U | <2.2U | 2810B | <5.7U | <2U | 3.7B |
| Ponds | BLUE | PD-SFW-16 | 07/22/03 | 83.5B | <4.7U | <4.8U | <2U | <2U | 19.9B | <0.2U | <0.6U | 27400 | <1.4U | 30.8B | 4.3B | <10U | 1920 | <1.3U | 25600 | 4960 | 0.2B | 129 | 1850B | <3.4U | <2.2U | 5680 | <5.7U | <2U | 192 |
| Ponds | BLUE | PD-SFW-17 | 07/22/03 | 691 | <4.7U | 13.8 | 2.7 | 8.1 | 22.8B | <0.2U | <0.6U | 18500 | 4.2B | 13.5B | 10.2B | <0.01U | 16400 | <1.3U | 14100 | 1990 | 0.14B | 53.5 | 1610B | <3.4U | <2.2U | 4100B | <5.7U | <2U | 87.5 |
| Ponds | BLUE | PD-SFW-18 | 07/22/03 | 225 | <4.7U | <4.8U | <2U | <2U | 9.4B | <0.2U | <0.6U | 4470B | <1.4U | 35.3B | 3.4B | <10U | 17400 | <1.3U | 11400 | 4980 | 0.3 | 112 | 1340B | <3.4U | <2.2U | 3080B | <5.7U | <2U | 210 |
| Stream Samples | BLAC | ST-SFW-01 | 07/23/03 | <23.6U | <4.7U | <4.8U | <2U | 2.9 | 13.7B | <0.2U | <0.6U | 11200 | <1.4U | <2U | <2.4U | <10U | 39.6B | <1.3U | 6800 | 3.9B | <0.1U | <2.1U | 1010B | <3.4U | <2.2U | 2110B | <5.7U | <2U | 1.5B |
| Stream Samples | BLAC | ST-SFW-01A | 08/08/03 | <23.6U | <4.7U | <4.8U | <2U | 3.8 | 15.4B | <0.2U | <0.6U | 12600 | 2.7B | <2U | <2.4U | <10U | 68.7B | <1.3U | 7620 | 5.4B | <0.1U | <2.1U | 1210B | <3.4U | <2.2U | 2680B | <5.7U | <2U | 4.2B |
| Stream Samples | BLAC | ST-SFW-02 | 07/22/03 | 44B | <4.7U | <4.8U | <2U | 2.7 | 15.2B | <0.2U | <0.6U | 12000 | <1.4U | <2U | <2.4U | <0.01U | 73.4B | <1.3U | 6870 | 5.2B | <0.1U | <2.1U | 1190B | <3.4U | <2.2U | 2510B | <5.7U | <2U | 2.8B |
| Stream Samples | BLAC | ST-SFW-02A | 08/08/03 | <23.6U | <4.7U | <4.8U | <2U | 2.3 | 15.7B | <0.2U | <0.6U | 13200 | <1.4U | <2U | <2.4U | <10U | 34.1B | <1.3U | 7620 | 6B | <0.1U | <2.1U | 1200B | 4.5B | <2.2U | 2730B | <5.7U | <2U | 2.4B |
| Stream Samples | BLAC | ST-SFW-03 | 07/22/03 | 54.4B | <4.7U | <4.8U | <2U | 3 | 16.3B | <0.2U | <0.6U | 12700 | 1.9B | <2U | <2.4U | <0.01U | 68.8B | <1.3U | 7280 | 5B | <0.1U | <2.1U | 1290B | <3.4U | <2.2U | 2670B | <5.7U | <2U | 3.7B |
| Stream Samples | BLAC | ST-SFW-03A | 08/08/03 | <23.6U | <4.7U | <4.8U | <2U | 2.7 | 16.1B | <0.2U | <0.6U | 13400 | <1.4U | <2U | <2.4U | <10U | 46B | <1.3U | 7720 | 5.7B | <0.1U | <2.1U | 1250B | <3.4U | <2.2U | 2640B | <5.7U | <2U | 3B |
| Stream Samples | BLAC | ST-SFW-04 | 07/22/03 | 59B | <4.7U | <4.8U | <2U | <2U | 15.1B | 0.3B | <0.6U | 11900 | <1.4U | <2U | <2.4U | <10U | <33.3U | <1.3U | 6880 | 4.2B | 0.11B | <2.1U | 1260B | <3.4U | <2.2U | 2620B | <5.7U | <2U | 2.8B |
| Stream Samples | BLAC | ST-SFW-42 | 07/22/03 | 134B | <4.7U | <4.8U | <2U | <2U | 17B | <0.2U | <0.6U | 12200 | 1.6B | <2U | <2.4U | <0.01U | 175 | <1.3U | 7010 | 31.2 | <0.1U | <2.1U | 1220B | <3.4U | <2.2U | 2590B | <5.7U | <2U | 3B |
| Stream Samples | BLUE | ST-SFW-05 | 07/21/03 | 49.6B | 6.1B | <2.4U | <2U | <2U | 15.3B | 0.28B | <0.3U | 11900 | <0.6U | <1.8U | <1.4U | <10U | 53.2B | <1.5U | 6740 | 15.3 | <0.1U | <2U | 1150B | <1.7U | <0.9U | 2820B | <2.8U | <2.2U | <5.7U |
| Stream Samples | BLUE | ST-SFW-05A | 08/08/03 | 37.5B | <4.7U | <4.8U | <2U | <2U | 17.9B | <0.2U | <0.6U | 13800 | 1.5B | <2U | <2.4U | <10U | 66.8B | <1.3U | 7980 | 17.3 | <0.1U | <2.1U | 1360B | <3.4U | <2.2U | 3040B | <5.7U | <2U | 5.5B |
| Stream Samples | BLUE | ST-SFW-06 | 07/21/03 | 65.3B | 5.4B | <2.4U | <2U | 2.2 | 15.4B | <0.2U | <0.3U | 12000 | <0.6U | <1.8U | <1.4U | <10U | 53.5B | <1.5U | 6850 | 13.8B | <0.1U | <2U | 1300B | <1.7U | <0.9U | 2740B | <2.8U | 2.3B | <5.7U |
| Stream Samples | BLUE | ST-SFW-07 | 07/20/03 | 68.3B | 5.9B | <2.4U | <2U | 2.3 | 15.7B | <0.2U | <0.3U | 12100 | <0.6U | <1.8U | <1.4U | <10U | 35.7B | <1.5U | 6870 | 12.3B | <0.1U | <2U | 1250B | <1.7U | <0.9U | 2690B | <2.8U | 2.2B | <5.7U |
| Stream Samples | BLUE | ST-SFW-08 | 07/20/03 | 58.4B | 5.2B | 2.8B | <2U | <2U | 14B | 0.32B | <0.3U | 11400 | <0.6U | <1.8U | <1.4U | <10U | 40.2B | <1.5U | 6500 | 11.4B | <0.1U | <2U | 1100B | <1.7U | <0.9U | 2490B | <2.8U | 2.5B | <5.7U |

**ARSENIC SPECIATION AND CYANIDE PORE WATER RESULTS (UG/L)
BLUEBIRD/BLACKJACK SI**

| Area | Site | Sample No. | Date | TAL Metals and Cyanide, µg/L | | |
|----------------|------|------------|----------|------------------------------|-------------|---------|
| | | | | ARSENIC (III) | ARSENIC (V) | CYANIDE |
| Stream Samples | BLAC | ST-PWP-01 | 07/23/03 | <2U | 3.1 | <10U |
| Stream Samples | BLAC | ST-PWP-01A | 08/08/03 | <2U | 3.9 | <10U |
| Stream Samples | BLAC | ST-PWP-02 | 07/22/03 | <2U | 4.6 | <0.01U |
| Stream Samples | BLAC | ST-PWP-02A | 08/08/03 | <2U | 3.6 | <10U |
| Stream Samples | BLAC | ST-PWP-03 | 07/22/03 | <2U | 3.8 | <10U |
| Stream Samples | BLAC | ST-PWP-03A | 08/08/03 | <2U | 6.5 | <10U |
| Stream Samples | BLAC | ST-PWP-04 | 07/22/03 | <2U | 2.5 | <0.01U |
| Stream Samples | BLAC | ST-PWR-02 | 07/22/03 | <2U | 6.6 | <10U |
| Stream Samples | BLAC | ST-PWR-03 | 07/22/03 | <2U | 5.6 | <10U |
| Stream Samples | BLAC | ST-PWR-42 | 07/22/03 | <2U | <2U | <0.01U |
| Stream Samples | BLUE | ST-PWP-05 | 07/21/03 | <2U | 2.3 | <10U |
| Stream Samples | BLUE | ST-PWP-05A | 08/08/03 | <2U | 2.8 | <10U |
| Stream Samples | BLUE | ST-PWP-06 | 07/21/03 | <2U | 2.3 | <10U |
| Stream Samples | BLUE | ST-PWP-07 | 07/20/03 | <2U | 3.4 | <10U |
| Stream Samples | BLUE | ST-PWP-08 | 07/20/03 | <2U | 2 | <10U |
| Stream Samples | BLUE | ST-PWR-05 | 07/21/03 | <2U | 2.2 | <10U |
| Stream Samples | BLUE | ST-PWR-06 | 07/21/03 | <2U | 5.5 | <10U |
| Stream Samples | BLUE | ST-PWR-07 | 07/20/03 | <2U | 6.8 | <10U |
| Stream Samples | BLUE | ST-PWR-08 | 07/20/03 | <2U | <2U | <10U |

STL Burlington
Colchester, Vermont

Sample Data Summary
Package

SDG: GCD002

September 12, 2003

Ms. Jennifer Kindred
EA Engineering
12011 Bellevue-Redmond Rd.
Suite 200
Bellevue, WA 98005

Re: Laboratory Project No. 23046
Case No. 23046; SDG: GCD002

Dear Ms. Kindred:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on July 22 and 24, 2003. Laboratory numbers have been assigned and designated as follows:

| <u>Lab ID</u> | <u>Client Sample ID</u> | <u>Sample Date</u> | <u>Sample Matrix</u> |
|----------------------------------|-----------------------------|------------------------|--------------------------|
| Received: 07/22/03 ETR No: 94941 | | | |
| 535363 | AJAXSTPSD04 | 07/17/03 | Sediment |
| 535364 | AJAXPDSSD06 | 07/17/03 | Sediment |
| 535365 | AJAXSTRSD04 | 07/17/03 | Sediment |
| 535366 | AJAXSTSSD52 | 07/17/03 | Sediment |
| 535367 | GRANSTRSD54 | 07/17/03 | Sediment |
| 535368 | GRANSTPSD54 | 07/17/03 | Sediment |
| 535369 | MAGNSTPSD03 | 07/18/03 | Sediment |
| 535370 | MAGNPDSSD11 | 07/18/03 | Sediment |
| 535371 | MAGNSTPSD02 | 07/18/03 | Sediment |
| 535372 | MAGNSTPSD01 | 07/18/03 | Sediment |
| 535373 | GRANSTPSD53 | 07/19/03 | Sediment |
| 535373MS | GRANSTPSD53MS | 07/19/03 | Sediment |
| 535373DP | GRANSTPSD53REP | 07/19/03 | Sediment |
| 535374 | GRANSTRSD53 | 07/19/03 | Sediment |

Received: 07/24/03 ETR No: 95000

| | | | |
|--------|----------------|----------|----------|
| 535813 | BLUESTPSD05 | 07/21/03 | Sediment |
| 535814 | BLUESTPSD05100 | 07/21/03 | Sediment |
| 535815 | BLUESTPSD06 | 07/21/03 | Sediment |
| 535816 | BLUESTRSD08 | 07/20/03 | Sediment |
| 535817 | BLUESTPSD08 | 07/20/03 | Sediment |
| 535818 | BLUESTPSD07 | 07/20/03 | Sediment |

Severn Trent Laboratories, Inc.

STL Burlington • 208 South Park Drive, Suite 1, Colchester, VT 05446

Tel 802 655 1203 Fax 802 655 1248 • www.stl-inc.com

0001-A

One of the sample containers for the sample designated BLUESTPSD08 was received broken.

Due to reporting software limitations, sample identifications may have been truncated. In most instances only punctuation was removed.

Documentation that identifies the condition of the samples at the time of sample receipt and the issues arising at the time of sample login is included in the Sample Handling section of this submittal.

This narrative identifies anomalies that occurred during the analyses of samples in this delivery group. If there is no description following regarding a certain methodology requested on the chain-of-custody record, then there were no exceptions to the laboratory quality control criteria noted during that analysis.

Metals by 6010B:

The sample designated AJAXPDSSD06 yielded a negative interference for thallium. This sample was analyzed full strength (-302.9) and at a 1:10 dilution (61.4). Both sets of results yielded a negative interference for thallium. The laboratory suspects that this anomaly is likely due to the elevated presence of manganese present in the sample. The results have been reported from a 1:10 dilution.

The serial dilution of the sample designated GRANSTRSD53 yielded a percent recovery marginally below the established control limits. Additionally, the duplicate analysis of this sample yielded %RSDs for several elements outside of the established control limits.

Total Organic Carbon by Lloyd Kahn:

The duplicate analysis of the sample designated GRANSTRSD53 yielded a %RPD of 22%.

If there are any questions regarding this submittal, please contact Jeannine McCrumb at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 0001 and ending with page 0696.

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. The Laboratory Director or his designee, as verified by the following signature, has authorized the release of the data contained in this hardcopy data package.

Sincerely,



Michael F. Wheeler, Ph.D.
Laboratory Director

0001-B Last Alpha

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

Schwartz

P 1 of 2

CHAIN OF CUSTODY RECORD

Report to:
Company: EA Engineering
Address: 12011 Red-Red Road
Belle Vue, VOA 98
Contact: John Findved
Phone: 485-451-7400
Fax: 425-451-7800
Contract/
Quote:

Invoice to:
Company: Same
Address:
Contact:
Phone:
Fax:

| ANALYSIS REQUESTED | | | | |
|--------------------|---|--|--|--|
| TOC | X | | | |
| TAL Metals | X | | | |
| CN | X | | | |
| Grain Size | X | | | |

Lab Use Only
Due Date:
Temp. of coolers when received (C°):
1 2 3 4 5
Custody Seal N / Y
Intact N / Y
Screened For Radioactivity

Sampler's Name
James Gathener
Sampler's Signature

Project Name
Granite Creek Wetland MVAS

| Matrix | Date | Time | Project Name | | | No./Type of Containers | | | A/G 1 Lt. | 250 ml | P/O | ANALYSIS REQUESTED | Remarks |
|--------|---------|------|--------------|---|---|------------------------|---|---|-----------|--------|-----|--------------------|---------|
| | | | C | O | M | D | A | G | | | | | |
| SD | 7/17/03 | 1535 | X | | | ADAX-ST-PSD-04 | 2 | | | X | X | | |
| SD | 7/17/03 | 1620 | X | | | ADAX-PD-SSD-06 | 2 | | | X | X | | |
| SD | 7/17/03 | 1624 | X | | | ADAX-ST-PSD-04 | 2 | | | X | X | | |
| SD | 7/17/03 | 1520 | X | | | ADAX-ST-SSD-52 | 2 | | | X | X | | |
| SD | 7/17/03 | 1835 | X | | | GRAN-ST-PSD-53 | 2 | | | X | X | | |
| SD | 7/17/03 | 1845 | X | | | GRAN-ST-PSD-54 | 2 | | | X | X | | |
| SD | 7/17/03 | 1750 | X | | | GRAN-ST-PSD-54 | 2 | | | X | X | | |
| SD | 7/18/03 | 1710 | X | | | MAGN-ST-PSD-03 | 2 | | | X | X | | |
| SD | 7/18/03 | 1510 | X | | | MAGN-PD-PSD-11 | 2 | | | X | X | | |

Relinquished by (Signature)
[Signature]
Date: 7/21/03 Time: 0800
Received by (Signature)
[Signature]
Date: 7/22/03 Time: 1030

Relinquished by (Signature)
[Signature]
Date: _____ Time: _____
Received by (Signature)
Date: _____ Time: _____

Matrix: WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
Container: VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

STL cannot accept verbal changes.
Please Fax written changes to (802) 655-1248

Sediment

107-1

CHAIN OF CUSTODY RECORD

| | |
|--|--|
| <p>Report to:</p> <p>Company: <u>EA Engineering</u></p> <p>Address: <u>12011 881-Red Rd Suite Bellevue, WA 98005 200</u></p> <p>Contact: <u>Jen Kindred</u></p> <p>Phone: <u>425-451-7400</u></p> <p>Fax: <u>425-451-7800</u></p> <p>Contract/Quote: _____</p> | <p>Invoice to:</p> <p>Company: <u>Same</u></p> <p>Address: _____</p> <p>Contact: _____</p> <p>Phone: _____</p> <p>Fax: _____</p> |
| <p>Sampler's Name: <u>Don Norman</u></p> <p>Project Name: <u>Gravite Cr Watershed</u></p> | <p>Sampler's Signature: <u>Don Norman</u></p> |

| Matrix | Date | Time | Identifying Marks of Sample(s) | No./Type of Containers ² | | ANALYSIS REQUESTED | Remarks |
|--------------|------|------|--------------------------------|-------------------------------------|-----------|---------------------------------------|---------|
| | | | | VOA | A/G 1 Lt. | | |
| SD 7/24/1145 | | | BLUE-ST-PSD-05 | | 2 | TOC CN TAL metals Grain size | |
| SD 7/24/1145 | | | BLUE-ST-PSD-05 (100) | | 2 | | |
| SD 7/24/1200 | | | BLUE-ST-PSD-06 | | 2 | | |
| SD 7/29/1615 | | | BLUE-ST-RSD-08 | | 2 | | |
| SD 7/29/1630 | | | BLUE-ST-PSD-08 | | 2 | | |
| SD 7/29/1830 | | | BLUE-ST-PSD-07 | | 2 | | |

| | |
|--|---|
| <p>Relinquished by: (Signature) <u>Don Norman</u></p> <p>Date: <u>7/22/03</u></p> <p>Time: <u>0900</u></p> <p>Received by: (Signature) _____</p> <p>Date: _____</p> <p>Time: _____</p> | <p>Relinquished by: (Signature) _____</p> <p>Date: _____</p> <p>Time: _____</p> <p>Received by: (Signature) _____</p> <p>Date: _____</p> <p>Time: _____</p> |
| <p>Remarks: Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.</p> | |



**Sample Data Summary Package
For Wet Chemistry**

WET CHEMISTRY

Sample Report Summary

Client Sample No.

AJAXSTPSD04

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD002

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535363

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/22/03

% Solids: 78.8

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 78.8 | |
| IN847 | TOC by Lloyd Kahn | 07/30/03 | BLKLNK0730A | mg/Kg | 1 | 127 | 3840 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

AJAXPDSSD06

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD002

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535364

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/22/03

% Solids: 30.8

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 30.8 | |
| IN847 | TOC by Lloyd Kahn | 07/30/03 | BLK0730A | mg/Kg | 1 | 325 | 17200 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

AJAXSTRSD04

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD002

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535365

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/22/03

% Solids: 78.3

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 78.3 | |
| IN847 | TOC by Lloyd Kahn | 07/30/03 | BLKLN0730A | mg/Kg | 1 | 128 | 15500 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

AJAXSTSSD52

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD002

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535366

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/22/03

% Solids: 11.5

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|--------|-------|
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 11.5 | |
| IN847 | TOC by Lloyd Kahn | 07/30/03 | BLKLK0730A | mg/Kg | 1 | 870 | 119900 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

GRANSTRSD54

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD002

Lab Code: STLV

Case No.: 23046

Lab Sample ID: 535367

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/22/03

% Solids: 83.3

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 83.3 | |
| IN847 | TOC by Lloyd Kahn | 07/30/03 | BLK0730A | mg/Kg | 1 | 121 | 121 | U |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

GRANSTPSD54

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD002

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535368

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/22/03

% Solids: 70.1

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 70.1 | |
| IN847 | TOC by Lloyd Kahn | 07/30/03 | BLK0730A | mg/Kg | 1 | 143 | 27700 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

MAGNSTPSD03

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD002

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535369

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/22/03

% Solids: 80.6

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 80.6 | |
| IN847 | TOC by Lloyd Kahn | 07/30/03 | BLKLNK0730A | mg/Kg | 1 | 125 | 6040 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

MAGNPDSSD11

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD002

Lab Code: STLV

Case No.: 23046

Lab Sample ID: 535370

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/22/03

% Solids: 13.6

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 13.6 | |
| IN847 | TOC by Lloyd Kahn | 07/30/03 | BLKLN0730A | mg/Kg | 1 | 736 | 11200 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

MAGNSTPSD02

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD002

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535371

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/22/03

% Solids: 67.0

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 67.0 | |
| IN847 | TOC by Lloyd Kahn | 07/30/03 | BLK0730A | mg/Kg | 1 | 150 | 12400 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

MAGNSTPSD01

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD002

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535372

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/22/03

% Solids: 75.8

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 75.8 | |
| IN847 | TOC by Lloyd Kahn | 07/30/03 | BLKLG0730A | mg/Kg | 1 | 132 | 5130 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

GRANSTPSD53

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD002

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535373

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/22/03

% Solids: 78.6

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 78.6 | |
| IN847 | TOC by Lloyd Kahn | 07/30/03 | BLK0730A | mg/Kg | 1 | 128 | 2670 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

GRANSTRSD53

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD002

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535374

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/22/03

% Solids: 80.4

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 80.4 | |
| IN847 | TOC by Lloyd Kahn | 07/30/03 | BLKLN0730A | mg/Kg | 1 | 125 | 6750 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUESTPSD05

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD002

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535813

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/24/03

% Solids: 82.2

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 82.2 | |
| IN847 | TOC by Lloyd Kahn | 07/28/03 | BLKLG0728A | mg/Kg | 1 | 122 | 3530 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUESTPSD05100

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD002

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535814

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/24/03

% Solids: 74.7

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 74.7 | |
| IN847 | TOC by Lloyd Kahn | 07/28/03 | BLKCLK0728A | mg/Kg | 1 | 134 | 4760 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUESTPSD06

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD002

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535815

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/24/03

% Solids: 80.9

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 80.9 | |
| IN847 | TOC by Lloyd Kahn | 07/28/03 | BLK0728A | mg/Kg | 1 | 124 | 124 | U |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUESTRSD08

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD002

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535816

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/24/03

% Solids: 84.0

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 84.0 | |
| IN847 | TOC by Lloyd Kahn | 07/28/03 | BLKLN0728A | mg/Kg | 1 | 120 | 26400 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUESTPSD08

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD002

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535817

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/24/03

% Solids: 80.4

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 80.4 | |
| IN847 | TOC by Lloyd Kahn | 07/28/03 | BLK0728A | mg/Kg | 1 | 125 | 7820 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUESTPSD07

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD002

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535818

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/24/03

% Solids: 70.2

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 70.2 | |
| IN847 | TOC by Lloyd Kahn | 07/28/03 | BLKLK0728A | mg/Kg | 1 | 143 | 22400 | |

WET CHEMISTRY

Method Blank Report Summary

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD002

Lab Code: STLVT

Case No.: 23046

Matrix: SOIL

Client: EASEAT

% Solids:

| Lab Sample ID | Method | Parameter | Conc. | Units | Qual. | DF | RL | Analytical Run Date | Analytical Batch |
|---------------|--------|-------------------|-------|-------|-------|----|-----|---------------------|------------------|
| BLK0728A | IN847 | TOC by Lloyd Kahn | 100 | mg/Kg | U | 1 | 100 | 07/28/03 | BLK0728A |
| BLK0730A | IN847 | TOC by Lloyd Kahn | 100 | mg/Kg | U | 1 | 100 | 07/30/03 | BLK0730A |

WET CHEMISTRY

Matrix Spike Sample Report Summary

Client Sample No.

GRANSTPSD53MS

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD002

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535373MS

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/22/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | Matrix Spike Result Conc. Qual. | | Sample Result Conc. Qual. | | Spike Added | % Recovery* |
|--------|-------------------|---------------------|------------------|-------|------------------------------------|--|------------------------------|--|-------------|-------------|
| IN847 | TOC by Lloyd Kahn | 07/30/03 | BLKLN0730A | mg/Kg | 125800 | | 2670 | | 110501.00 | 111.4 |

* Control Limit for Percent Recovery is 75-125%, unless otherwise specified.

WET CHEMISTRY

Duplicate Sample Report Summary

Client Sample No.

GRANSTPSD53REP

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD002

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535373DP

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/22/03

% Solids: 81.7

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | Sample Result | | Duplicate Sample Result | | RPD* |
|--------|-------------------|---------------------|------------------|-------|---------------|-------|-------------------------|-------|------|
| | | | | | Conc. | Qual. | Conc. | Qual. | |
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 78.6 | | 81.7 | | 4 |
| IN847 | TOC by Lloyd Kahn | 07/30/03 | BLK0730A | mg/Kg | 2670 | | 2140 | | 22 |

* Control Limit for RPD is +/- 20%, unless otherwise specified.

WET CHEMISTRY

Laboratory Control Sample Report Summary

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD002

Lab Code: STLVT

Case No.: 23046

Matrix: SOIL

Client: EASEAT

% Solids:

| Lab Sample ID | Method | Parameter | Analytical Run Date | Analytical Batch | Units | LCS Conc. | True Value | % Recovery* |
|---------------|--------|-------------------|---------------------|------------------|-------|-----------|------------|-------------|
| LCSLK0728A | IN847 | TOC by Lloyd Kahn | 07/28/03 | BLKLK0728A | mg/Kg | 8360 | 8500.0000 | 98.4 |
| LCSLK0730A | IN847 | TOC by Lloyd Kahn | 07/30/03 | BLKLK0730A | mg/Kg | 8510 | 8500.0000 | 100.1 |

* Control Limit for Percent Recovery is 80-120%, unless otherwise specified.



**Sample Data Summary Package
For Metals**

USEPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002

SOW No.: ILM04.1

| EPA Sample No. | Lab Sample ID. |
|----------------|----------------|
| AJAXPDSSD06 | 535364 |
| AJAXSTPSD04 | 535363 |
| AJAXSTRSD04 | 535365 |
| AJAXSTSSD52 | 535366 |
| BLUESTPSD05 | 535813 |
| BLUESTPSD05100 | 535814 |
| BLUESTPSD06 | 535815 |
| BLUESTPSD07 | 535818 |
| BLUESTPSD08 | 535817 |
| BLUESTRSD08 | 535816 |
| GRANSTPSD53 | 535373 |
| GRANSTPSD53D | 535373DP |
| GRANSTPSD53S | 535373MS |
| GRANSTPSD54 | 535368 |
| GRANSTRSD53 | 535374 |
| GRANSTRSD54 | 535367 |
| MAGNPDSSD11 | 535370 |
| MAGNSTPSD01 | 535372 |
| MAGNSTPSD02 | 535371 |
| MAGNSTPSD03 | 535369 |

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: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AJAXPDSSD06

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002
 Matrix (soil/water): SOIL Lab Sample ID: 535364
 Level (low/med): LOW Date Received: 7/22/2003
 % Solids: 30.8

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum | 5190 | | * | P |
| 7440-36-0 | Antimony | 5.2 | B | N | P |
| 7440-38-2 | Arsenic | 1020 | | | P |
| 7440-39-3 | Barium | 309 | | * | P |
| 7440-41-7 | Beryllium | 1.5 | | | P |
| 7440-43-9 | Cadmium | 9.3 | | | P |
| 7440-70-2 | Calcium | 33300 | | * | P |
| 7440-47-3 | Chromium | 4.4 | | * | P |
| 7440-48-4 | Cobalt | 254 | | | P |
| 7440-50-8 | Copper | 316 | | * | P |
| 7439-89-6 | Iron | 319000 | | * | P |
| 7439-92-1 | Lead | 27.9 | | * | P |
| 7439-95-4 | Magnesium | 3530 | | * | P |
| 7439-96-5 | Manganese | 40600 | | | P |
| 7439-97-6 | Mercury | 0.76 | | * | CV |
| 7440-02-0 | Nickel | 860 | | | P |
| 7440-09-7 | Potassium | 892 | B | E* | P |
| 7782-49-2 | Selenium | 11.6 | | | P |
| 7440-22-4 | Silver | 0.60 | U | | P |
| 7440-23-5 | Sodium | 129 | U | | P |
| 7440-28-0 | Thallium | 15.6 | U | | P |
| 7440-62-2 | Vanadium | 17.8 | | * | P |
| 7440-66-6 | Zinc | 1660 | | * | P |
| 57-12-5 | Cyanide | 2.9 | | | AS |

Color Before: brown Clarity Before: _____ Texture: medium
 Color After: yellow Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AJAXSTPSD04

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002
 Matrix (soil/water): SOIL Lab Sample ID: 535363
 Level (low/med): LOW Date Received: 7/22/2003
 % Solids: 78.8

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum | 10300 | | * | P |
| 7440-36-0 | Antimony | 3.4 | B | N | P |
| 7440-38-2 | Arsenic | 326 | | | P |
| 7440-39-3 | Barium | 233 | | * | P |
| 7440-41-7 | Beryllium | 0.71 | | | P |
| 7440-43-9 | Cadmium | 1.2 | | | P |
| 7440-70-2 | Calcium | 7350 | | * | P |
| 7440-47-3 | Chromium | 19.5 | | * | P |
| 7440-48-4 | Cobalt | 18.1 | | | P |
| 7440-50-8 | Copper | 80.4 | | * | P |
| 7439-89-6 | Iron | 36500 | | * | P |
| 7439-92-1 | Lead | 69.4 | | * | P |
| 7439-95-4 | Magnesium | 5360 | | * | P |
| 7439-96-5 | Manganese | 2570 | | | P |
| 7439-97-6 | Mercury | 0.51 | | * | CV |
| 7440-02-0 | Nickel | 43.8 | | | P |
| 7440-09-7 | Potassium | 2560 | | E* | P |
| 7782-49-2 | Selenium | 1.3 | | | P |
| 7440-22-4 | Silver | 2.2 | | | P |
| 7440-23-5 | Sodium | 287 | B | | P |
| 7440-28-0 | Thallium | 0.65 | U | | P |
| 7440-62-2 | Vanadium | 39.4 | | * | P |
| 7440-66-6 | Zinc | 180 | | * | P |
| 57-12-5 | Cyanide | 0.48 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: mediumColor After: yellow Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AJAXSTRSD04

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002
 Matrix (soil/water): SOIL Lab Sample ID: 535365
 Level (low/med): LOW Date Received: 7/22/2003
 % Solids: 78.3

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum | 9950 | | * | P |
| 7440-36-0 | Antimony | 1.5 | B | N | P |
| 7440-38-2 | Arsenic | 631 | | | P |
| 7440-39-3 | Barium | 263 | | * | P |
| 7440-41-7 | Beryllium | 0.76 | | | P |
| 7440-43-9 | Cadmium | 0.58 | | | P |
| 7440-70-2 | Calcium | 13800 | | * | P |
| 7440-47-3 | Chromium | 18.5 | | * | P |
| 7440-48-4 | Cobalt | 18.0 | | | P |
| 7440-50-8 | Copper | 36.9 | | * | P |
| 7439-89-6 | Iron | 44500 | | * | P |
| 7439-92-1 | Lead | 26.3 | | * | P |
| 7439-95-4 | Magnesium | 8630 | | * | P |
| 7439-96-5 | Manganese | 2600 | | | P |
| 7439-97-6 | Mercury | 0.42 | | * | CV |
| 7440-02-0 | Nickel | 29.6 | | | P |
| 7440-09-7 | Potassium | 2830 | | E* | P |
| 7782-49-2 | Selenium | 0.85 | | | P |
| 7440-22-4 | Silver | 1.3 | | | P |
| 7440-23-5 | Sodium | 132 | B | | P |
| 7440-28-0 | Thallium | 0.62 | U | | P |
| 7440-62-2 | Vanadium | 50.0 | | * | P |
| 7440-66-6 | Zinc | 120 | | * | P |
| 57-12-5 | Cyanide | 0.59 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: mediumColor After: yellow Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AJAXSTSSD52

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002

Matrix (soil/water): SOIL Lab Sample ID: 535366

Level (low/med): LOW Date Received: 7/22/2003

% Solids: 11.5

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum | 16800 | | * | P |
| 7440-36-0 | Antimony | 12.2 | B | N | P |
| 7440-38-2 | Arsenic | 2800 | | | P |
| 7440-39-3 | Barium | 268 | | * | P |
| 7440-41-7 | Beryllium | 0.96 | B | | P |
| 7440-43-9 | Cadmium | 5.3 | | | P |
| 7440-70-2 | Calcium | 16500 | | * | P |
| 7440-47-3 | Chromium | 21.0 | | * | P |
| 7440-48-4 | Cobalt | 28.3 | B | | P |
| 7440-50-8 | Copper | 105 | | * | P |
| 7439-89-6 | Iron | 134000 | | * | P |
| 7439-92-1 | Lead | 42.5 | | * | P |
| 7439-95-4 | Magnesium | 5490 | | * | P |
| 7439-96-5 | Manganese | 3480 | | | P |
| 7439-97-6 | Mercury | 1.0 | | * | CV |
| 7440-02-0 | Nickel | 161 | | | P |
| 7440-09-7 | Potassium | 3250 | B | E* | P |
| 7782-49-2 | Selenium | 6.9 | | | P |
| 7440-22-4 | Silver | 2.6 | B | | P |
| 7440-23-5 | Sodium | 599 | B | | P |
| 7440-28-0 | Thallium | 4.0 | U | | P |
| 7440-62-2 | Vanadium | 57.3 | | * | P |
| 7440-66-6 | Zinc | 705 | | * | P |
| 57-12-5 | Cyanide | 4.0 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: mediumColor After: yellow Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTPSD05

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002
 Matrix (soil/water): SOIL Lab Sample ID: 535813
 Level (low/med): LOW Date Received: 7/24/2003
 % Solids: 82.2

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum | 14900 | | | P |
| 7440-36-0 | Antimony | 1.2 | B | N | P |
| 7440-38-2 | Arsenic | 19.4 | | | P |
| 7440-39-3 | Barium | 73.1 | | * | P |
| 7440-41-7 | Beryllium | 0.36 | B | | P |
| 7440-43-9 | Cadmium | 0.059 | U | | P |
| 7440-70-2 | Calcium | 4180 | | * | P |
| 7440-47-3 | Chromium | 86.1 | | * | P |
| 7440-48-4 | Cobalt | 20.7 | | | P |
| 7440-50-8 | Copper | 28.8 | | * | P |
| 7439-89-6 | Iron | 28100 | | * | P |
| 7439-92-1 | Lead | 3.6 | | * | P |
| 7439-95-4 | Magnesium | 11500 | | * | P |
| 7439-96-5 | Manganese | 665 | | | P |
| 7439-97-6 | Mercury | 0.38 | | * | CV |
| 7440-02-0 | Nickel | 111 | | | P |
| 7440-09-7 | Potassium | 808 | | E* | P |
| 7782-49-2 | Selenium | 0.52 | | | P |
| 7440-22-4 | Silver | 0.22 | U | | P |
| 7440-23-5 | Sodium | 226 | B | | P |
| 7440-28-0 | Thallium | 0.93 | B | | P |
| 7440-62-2 | Vanadium | 52.2 | | * | P |
| 7440-66-6 | Zinc | 56.2 | | | P |
| 57-12-5 | Cyanide | 0.52 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: coarseColor After: yellow Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTPSD05100

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002
 Matrix (soil/water): SOIL Lab Sample ID: 535814
 Level (low/med): LOW Date Received: 7/24/2003
 % Solids: 74.7

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum | 14200 | | | P |
| 7440-36-0 | Antimony | 1.2 | B | N | P |
| 7440-38-2 | Arsenic | 22.7 | | | P |
| 7440-39-3 | Barium | 73.4 | | * | P |
| 7440-41-7 | Beryllium | 0.38 | B | | P |
| 7440-43-9 | Cadmium | 0.059 | U | | P |
| 7440-70-2 | Calcium | 2710 | | * | P |
| 7440-47-3 | Chromium | 101 | | * | P |
| 7440-48-4 | Cobalt | 15.9 | | | P |
| 7440-50-8 | Copper | 36.5 | | * | P |
| 7439-89-6 | Iron | 28500 | | * | P |
| 7439-92-1 | Lead | 4.9 | | * | P |
| 7439-95-4 | Magnesium | 11200 | | * | P |
| 7439-96-5 | Manganese | 531 | | | P |
| 7439-97-6 | Mercury | 0.13 | | * | CV |
| 7440-02-0 | Nickel | 107 | | | P |
| 7440-09-7 | Potassium | 949 | | E* | P |
| 7782-49-2 | Selenium | 0.49 | | | P |
| 7440-22-4 | Silver | 0.22 | U | | P |
| 7440-23-5 | Sodium | 254 | B | | P |
| 7440-28-0 | Thallium | 0.84 | B | | P |
| 7440-62-2 | Vanadium | 49.3 | | * | P |
| 7440-66-6 | Zinc | 62.4 | | | P |
| 57-12-5 | Cyanide | 0.50 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: coarseColor After: yellow Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.:

BLUESTPSD06

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002

Matrix (soil/water): SOIL Lab Sample ID: 535815

Level (low/med): LOW Date Received: 7/24/2003

% Solids: 80.9

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum | 7730 | | | P |
| 7440-36-0 | Antimony | 0.52 | U | N | P |
| 7440-38-2 | Arsenic | 7.4 | | | P |
| 7440-39-3 | Barium | 71.5 | | * | P |
| 7440-41-7 | Beryllium | 0.19 | B | | P |
| 7440-43-9 | Cadmium | 0.077 | B | | P |
| 7440-70-2 | Calcium | 2980 | | * | P |
| 7440-47-3 | Chromium | 20.4 | | * | P |
| 7440-48-4 | Cobalt | 14.9 | | | P |
| 7440-50-8 | Copper | 40.6 | | * | P |
| 7439-89-6 | Iron | 10000 | | * | P |
| 7439-92-1 | Lead | 2.0 | | * | P |
| 7439-95-4 | Magnesium | 2690 | | * | P |
| 7439-96-5 | Manganese | 786 | | | P |
| 7439-97-6 | Mercury | 0.075 | | * | CV |
| 7440-02-0 | Nickel | 92.0 | | | P |
| 7440-09-7 | Potassium | 350 | B | E* | P |
| 7782-49-2 | Selenium | 0.44 | B | | P |
| 7440-22-4 | Silver | 0.24 | U | | P |
| 7440-23-5 | Sodium | 337 | B | | P |
| 7440-28-0 | Thallium | 0.63 | U | | P |
| 7440-62-2 | Vanadium | 16.4 | | * | P |
| 7440-66-6 | Zinc | 28.8 | | | P |
| 57-12-5 | Cyanide | 0.61 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: coarseColor After: yellow Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTPSD07

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002
 Matrix (soil/water): SOIL Lab Sample ID: 535818
 Level (low/med): LOW Date Received: 7/24/2003
 % Solids: 70.2

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum | 11800 | | | P |
| 7440-36-0 | Antimony | 1.0 | B | N | P |
| 7440-38-2 | Arsenic | 31.0 | | | P |
| 7440-39-3 | Barium | 82.3 | | * | P |
| 7440-41-7 | Beryllium | 0.32 | B | | P |
| 7440-43-9 | Cadmium | 0.12 | B | | P |
| 7440-70-2 | Calcium | 3350 | | * | P |
| 7440-47-3 | Chromium | 55.6 | | * | P |
| 7440-48-4 | Cobalt | 14.6 | | | P |
| 7440-50-8 | Copper | 26.8 | | * | P |
| 7439-89-6 | Iron | 20000 | | * | P |
| 7439-92-1 | Lead | 3.1 | | * | P |
| 7439-95-4 | Magnesium | 6500 | | * | P |
| 7439-96-5 | Manganese | 571 | | | P |
| 7439-97-6 | Mercury | 0.10 | | * | CV |
| 7440-02-0 | Nickel | 82.7 | | | P |
| 7440-09-7 | Potassium | 1310 | | E* | P |
| 7782-49-2 | Selenium | 0.69 | | | P |
| 7440-22-4 | Silver | 0.33 | B | | P |
| 7440-23-5 | Sodium | 364 | B | | P |
| 7440-28-0 | Thallium | 0.62 | U | | P |
| 7440-62-2 | Vanadium | 35.1 | | * | P |
| 7440-66-6 | Zinc | 56.6 | | | P |
| 57-12-5 | Cyanide | 0.69 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: coarseColor After: yellow Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTPSD08

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002
 Matrix (soil/water): SOIL Lab Sample ID: 535817
 Level (low/med): LOW Date Received: 7/24/2003
 % Solids: 80.4

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum | 4750 | | | P |
| 7440-36-0 | Antimony | 0.96 | B | N | P |
| 7440-38-2 | Arsenic | 15.3 | | | P |
| 7440-39-3 | Barium | 60.6 | | * | P |
| 7440-41-7 | Beryllium | 0.39 | B | | P |
| 7440-43-9 | Cadmium | 0.060 | U | | P |
| 7440-70-2 | Calcium | 1070 | | * | P |
| 7440-47-3 | Chromium | 78.0 | | * | P |
| 7440-48-4 | Cobalt | 24.9 | | | P |
| 7440-50-8 | Copper | 51.3 | | * | P |
| 7439-89-6 | Iron | 57900 | | * | P |
| 7439-92-1 | Lead | 5.4 | | * | P |
| 7439-95-4 | Magnesium | 11100 | | * | P |
| 7439-96-5 | Manganese | 733 | | | P |
| 7439-97-6 | Mercury | 0.085 | | * | CV |
| 7440-02-0 | Nickel | 160 | | | P |
| 7440-09-7 | Potassium | 530 | | E* | P |
| 7782-49-2 | Selenium | 1.0 | | | P |
| 7440-22-4 | Silver | 0.22 | U | | P |
| 7440-23-5 | Sodium | 62.3 | B | | P |
| 7440-28-0 | Thallium | 2.2 | | | P |
| 7440-62-2 | Vanadium | 57.1 | | * | P |
| 7440-66-6 | Zinc | 56.6 | | | P |
| 57-12-5 | Cyanide | 0.56 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: coarseColor After: yellow Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTRSD08

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002
 Matrix (soil/water): SOIL Lab Sample ID: 535816
 Level (low/med): LOW Date Received: 7/24/2003
 % Solids: 84.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum | 12600 | | | P |
| 7440-36-0 | Antimony | 0.47 | U | N | P |
| 7440-38-2 | Arsenic | 3.9 | | | P |
| 7440-39-3 | Barium | 64.2 | | * | P |
| 7440-41-7 | Beryllium | 0.11 | B | | P |
| 7440-43-9 | Cadmium | 0.060 | U | | P |
| 7440-70-2 | Calcium | 5890 | | * | P |
| 7440-47-3 | Chromium | 10.7 | | * | P |
| 7440-48-4 | Cobalt | 9.5 | | | P |
| 7440-50-8 | Copper | 54.1 | | * | P |
| 7439-89-6 | Iron | 14000 | | * | P |
| 7439-92-1 | Lead | 1.3 | | * | P |
| 7439-95-4 | Magnesium | 4610 | | * | P |
| 7439-96-5 | Manganese | 527 | | | P |
| 7439-97-6 | Mercury | 0.056 | | * | CV |
| 7440-02-0 | Nickel | 51.9 | | | P |
| 7440-09-7 | Potassium | 1110 | | E* | P |
| 7782-49-2 | Selenium | 0.17 | U | | P |
| 7440-22-4 | Silver | 0.22 | U | | P |
| 7440-23-5 | Sodium | 1040 | | | P |
| 7440-28-0 | Thallium | 0.58 | U | | P |
| 7440-62-2 | Vanadium | 10.6 | | * | P |
| 7440-66-6 | Zinc | 59.1 | | | P |
| 57-12-5 | Cyanide | 0.56 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: coarseColor After: yellow Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

GRANSTPSD53

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002
 Matrix (soil/water): SOIL Lab Sample ID: 535373
 Level (low/med): LOW Date Received: 7/22/2003
 % Solids: 78.6

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum | 10200 | | * | P |
| 7440-36-0 | Antimony | 2.0 | B | N | P |
| 7440-38-2 | Arsenic | 130 | | | P |
| 7440-39-3 | Barium | 139 | | * | P |
| 7440-41-7 | Beryllium | 0.24 | B | | P |
| 7440-43-9 | Cadmium | 0.96 | | | P |
| 7440-70-2 | Calcium | 2180 | | * | P |
| 7440-47-3 | Chromium | 10.4 | | * | P |
| 7440-48-4 | Cobalt | 6.9 | | | P |
| 7440-50-8 | Copper | 18.1 | | * | P |
| 7439-89-6 | Iron | 21600 | | * | P |
| 7439-92-1 | Lead | 38.2 | | * | P |
| 7439-95-4 | Magnesium | 4790 | | * | P |
| 7439-96-5 | Manganese | 364 | | | P |
| 7439-97-6 | Mercury | 0.11 | | * | CV |
| 7440-02-0 | Nickel | 6.2 | | | P |
| 7440-09-7 | Potassium | 2840 | | E* | P |
| 7782-49-2 | Selenium | 0.44 | B | | P |
| 7440-22-4 | Silver | 1.8 | | | P |
| 7440-23-5 | Sodium | 45.2 | U | | P |
| 7440-28-0 | Thallium | 0.69 | B | | P |
| 7440-62-2 | Vanadium | 52.1 | | * | P |
| 7440-66-6 | Zinc | 150 | | * | P |
| 57-12-5 | Cyanide | 0.57 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: medium
 Color After: yellow Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

GRANSTPSD54

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002
 Matrix (soil/water): SOIL Lab Sample ID: 535368
 Level (low/med): LOW Date Received: 7/22/2003
 % Solids: 70.1

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum | 8910 | | * | P |
| 7440-36-0 | Antimony | 5.1 | B | N | P |
| 7440-38-2 | Arsenic | 303 | | | P |
| 7440-39-3 | Barium | 144 | | * | P |
| 7440-41-7 | Beryllium | 0.26 | B | | P |
| 7440-43-9 | Cadmium | 2.8 | | | P |
| 7440-70-2 | Calcium | 2740 | | * | P |
| 7440-47-3 | Chromium | 10.9 | | * | P |
| 7440-48-4 | Cobalt | 6.5 | | | P |
| 7440-50-8 | Copper | 28.0 | | * | P |
| 7439-89-6 | Iron | 18900 | | * | P |
| 7439-92-1 | Lead | 148 | | * | P |
| 7439-95-4 | Magnesium | 3460 | | * | P |
| 7439-96-5 | Manganese | 611 | | | P |
| 7439-97-6 | Mercury | 0.32 | | * | CV |
| 7440-02-0 | Nickel | 7.6 | | | P |
| 7440-09-7 | Potassium | 2400 | | E* | P |
| 7782-49-2 | Selenium | 0.80 | | | P |
| 7440-22-4 | Silver | 7.9 | | | P |
| 7440-23-5 | Sodium | 70.2 | B | | P |
| 7440-28-0 | Thallium | 0.67 | U | | P |
| 7440-62-2 | Vanadium | 43.0 | | * | P |
| 7440-66-6 | Zinc | 186 | | * | P |
| 57-12-5 | Cyanide | 0.59 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: mediumColor After: yellow Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

GRANSTRSD53

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002
 Matrix (soil/water): SOIL Lab Sample ID: 535374
 Level (low/med): LOW Date Received: 7/22/2003
 % Solids: 80.4

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum | 9670 | | * | P |
| 7440-36-0 | Antimony | 2.3 | B | N | P |
| 7440-38-2 | Arsenic | 126 | | | P |
| 7440-39-3 | Barium | 127 | | * | P |
| 7440-41-7 | Beryllium | 0.25 | B | | P |
| 7440-43-9 | Cadmium | 1.2 | | | P |
| 7440-70-2 | Calcium | 2230 | | * | P |
| 7440-47-3 | Chromium | 9.9 | | * | P |
| 7440-48-4 | Cobalt | 6.2 | | | P |
| 7440-50-8 | Copper | 18.6 | | * | P |
| 7439-89-6 | Iron | 19000 | | * | P |
| 7439-92-1 | Lead | 44.3 | | * | P |
| 7439-95-4 | Magnesium | 4030 | | * | P |
| 7439-96-5 | Manganese | 360 | | | P |
| 7439-97-6 | Mercury | 0.12 | | * | CV |
| 7440-02-0 | Nickel | 6.5 | | | P |
| 7440-09-7 | Potassium | 2550 | | E* | P |
| 7782-49-2 | Selenium | 0.42 | B | | P |
| 7440-22-4 | Silver | 4.9 | | | P |
| 7440-23-5 | Sodium | 45.9 | U | | P |
| 7440-28-0 | Thallium | 0.73 | B | | P |
| 7440-62-2 | Vanadium | 45.9 | | * | P |
| 7440-66-6 | Zinc | 148 | | * | P |
| 57-12-5 | Cyanide | 0.60 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: mediumColor After: yellow Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

GRANSTRSD54

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002
 Matrix (soil/water): SOIL Lab Sample ID: 535367
 Level (low/med): LOW Date Received: 7/22/2003
 % Solids: 83.3

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum | 7770 | | * | P |
| 7440-36-0 | Antimony | 5.1 | B | N | P |
| 7440-38-2 | Arsenic | 246 | | | P |
| 7440-39-3 | Barium | 126 | | * | P |
| 7440-41-7 | Beryllium | 0.21 | B | | P |
| 7440-43-9 | Cadmium | 1.8 | | | P |
| 7440-70-2 | Calcium | 1750 | | * | P |
| 7440-47-3 | Chromium | 8.3 | | * | P |
| 7440-48-4 | Cobalt | 6.4 | | | P |
| 7440-50-8 | Copper | 30.0 | | * | P |
| 7439-89-6 | Iron | 18300 | | * | P |
| 7439-92-1 | Lead | 121 | | * | P |
| 7439-95-4 | Magnesium | 3380 | | * | P |
| 7439-96-5 | Manganese | 560 | | | P |
| 7439-97-6 | Mercury | 0.12 | | * | CV |
| 7440-02-0 | Nickel | 7.3 | | | P |
| 7440-09-7 | Potassium | 2340 | | E* | P |
| 7782-49-2 | Selenium | 0.63 | | | P |
| 7440-22-4 | Silver | 6.3 | | | P |
| 7440-23-5 | Sodium | 79.5 | B | | P |
| 7440-28-0 | Thallium | 0.76 | B | | P |
| 7440-62-2 | Vanadium | 38.3 | | * | P |
| 7440-66-6 | Zinc | 151 | | * | P |
| 57-12-5 | Cyanide | 0.57 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: mediumColor After: yellow Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MAGNPDSSD11

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002
 Matrix (soil/water): SOIL Lab Sample ID: 535370
 Level (low/med): LOW Date Received: 7/22/2003
 % Solids: 13.6

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum | 46500 | | * | P |
| 7440-36-0 | Antimony | 6.5 | B | N | P |
| 7440-38-2 | Arsenic | 2190 | | | P |
| 7440-39-3 | Barium | 200 | | * | P |
| 7440-41-7 | Beryllium | 3.8 | | | P |
| 7440-43-9 | Cadmium | 3.6 | | | P |
| 7440-70-2 | Calcium | 11000 | | * | P |
| 7440-47-3 | Chromium | 54.9 | | * | P |
| 7440-48-4 | Cobalt | 54.9 | | | P |
| 7440-50-8 | Copper | 461 | | * | P |
| 7439-89-6 | Iron | 136000 | | * | P |
| 7439-92-1 | Lead | 23.2 | | * | P |
| 7439-95-4 | Magnesium | 7110 | | * | P |
| 7439-96-5 | Manganese | 2750 | | | P |
| 7439-97-6 | Mercury | 1.2 | | * | CV |
| 7440-02-0 | Nickel | 159 | | | P |
| 7440-09-7 | Potassium | 5430 | | E* | P |
| 7782-49-2 | Selenium | 2.6 | B | | P |
| 7440-22-4 | Silver | 2.3 | B | | P |
| 7440-23-5 | Sodium | 263 | U | | P |
| 7440-28-0 | Thallium | 5.5 | B | | P |
| 7440-62-2 | Vanadium | 90.2 | | * | P |
| 7440-66-6 | Zinc | 515 | | * | P |
| 57-12-5 | Cyanide | 3.3 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: mediumColor After: yellow Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MAGNSTPSD01

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002
 Matrix (soil/water): SOIL Lab Sample ID: 535372
 Level (low/med): LOW Date Received: 7/22/2003
 % Solids: 75.8

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum | 14900 | | * | P |
| 7440-36-0 | Antimony | 0.46 | U | N | P |
| 7440-38-2 | Arsenic | 1.3 | | | P |
| 7440-39-3 | Barium | 502 | | * | P |
| 7440-41-7 | Beryllium | 0.44 | B | | P |
| 7440-43-9 | Cadmium | 0.059 | U | | P |
| 7440-70-2 | Calcium | 5500 | | * | P |
| 7440-47-3 | Chromium | 14.9 | | * | P |
| 7440-48-4 | Cobalt | 9.6 | | | P |
| 7440-50-8 | Copper | 14.3 | | * | P |
| 7439-89-6 | Iron | 20700 | | * | P |
| 7439-92-1 | Lead | 3.8 | | * | P |
| 7439-95-4 | Magnesium | 3910 | | * | P |
| 7439-96-5 | Manganese | 424 | | | P |
| 7439-97-6 | Mercury | 0.020 | B | * | CV |
| 7440-02-0 | Nickel | 24.3 | | | P |
| 7440-09-7 | Potassium | 394 | B | E* | P |
| 7782-49-2 | Selenium | 0.48 | B | | P |
| 7440-22-4 | Silver | 0.21 | U | | P |
| 7440-23-5 | Sodium | 764 | | | P |
| 7440-28-0 | Thallium | 0.56 | U | | P |
| 7440-62-2 | Vanadium | 34.2 | | * | P |
| 7440-66-6 | Zinc | 21.8 | | * | P |
| 57-12-5 | Cyanide | 0.64 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: mediumColor After: yellow Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MAGNSTPSD02

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002
 Matrix (soil/water): SOIL Lab Sample ID: 535371
 Level (low/med): LOW Date Received: 7/22/2003
 % Solids: 67.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum | 1550 | | * | P |
| 7440-36-0 | Antimony | 2.6 | B | N | P |
| 7440-38-2 | Arsenic | 121 | | | P |
| 7440-39-3 | Barium | 40.2 | | * | P |
| 7440-41-7 | Beryllium | 0.65 | | | P |
| 7440-43-9 | Cadmium | 0.16 | B | | P |
| 7440-70-2 | Calcium | 923 | | * | P |
| 7440-47-3 | Chromium | 51.7 | | * | P |
| 7440-48-4 | Cobalt | 3.1 | B | | P |
| 7440-50-8 | Copper | 36.1 | | * | P |
| 7439-89-6 | Iron | 23200 | | * | P |
| 7439-92-1 | Lead | 4.6 | | * | P |
| 7439-95-4 | Magnesium | 1010 | | * | P |
| 7439-96-5 | Manganese | 319 | | | P |
| 7439-97-6 | Mercury | 1.4 | | * | CV |
| 7440-02-0 | Nickel | 6.6 | | | P |
| 7440-09-7 | Potassium | 848 | | E* | P |
| 7782-49-2 | Selenium | 0.45 | B | | P |
| 7440-22-4 | Silver | 3.6 | | | P |
| 7440-23-5 | Sodium | 74.8 | B | | P |
| 7440-28-0 | Thallium | 0.99 | B | | P |
| 7440-62-2 | Vanadium | 62.2 | | * | P |
| 7440-66-6 | Zinc | 50.3 | | * | P |
| 57-12-5 | Cyanide | 0.70 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: mediumColor After: yellow Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MAGNSTPSD03

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002
 Matrix (soil/water): SOIL Lab Sample ID: 535369
 Level (low/med): LOW Date Received: 7/22/2003
 % Solids: 80.6

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum | 4750 | | * | P |
| 7440-36-0 | Antimony | 5.1 | B | N | P |
| 7440-38-2 | Arsenic | 742 | | | P |
| 7440-39-3 | Barium | 188 | | * | P |
| 7440-41-7 | Beryllium | 0.42 | B | | P |
| 7440-43-9 | Cadmium | 0.74 | | | P |
| 7440-70-2 | Calcium | 2000 | | * | P |
| 7440-47-3 | Chromium | 11.6 | | * | P |
| 7440-48-4 | Cobalt | 59.5 | | | P |
| 7440-50-8 | Copper | 32.8 | | * | P |
| 7439-89-6 | Iron | 42100 | | * | P |
| 7439-92-1 | Lead | 54.1 | | * | P |
| 7439-95-4 | Magnesium | 1060 | | * | P |
| 7439-96-5 | Manganese | 1920 | | | P |
| 7439-97-6 | Mercury | 1.1 | | * | CV |
| 7440-02-0 | Nickel | 131 | | | P |
| 7440-09-7 | Potassium | 1300 | | E* | P |
| 7782-49-2 | Selenium | 1.6 | | | P |
| 7440-22-4 | Silver | 1.2 | | | P |
| 7440-23-5 | Sodium | 65.3 | B | | P |
| 7440-28-0 | Thallium | 0.84 | B | | P |
| 7440-62-2 | Vanadium | 29.4 | | * | P |
| 7440-66-6 | Zinc | 140 | | * | P |
| 57-12-5 | Cyanide | 0.55 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: medium
 Color After: 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.: GCD002

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) |
| Cyanide | 120.0 | 113.99 | 95.0 | 150.0 | 144.40 | 96.3 | 149.38 | 99.6 | AS |

(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.: GCD002

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) |
| Cyanide | | | | 150.0 | 153.09 | 102.1 | 151.26 | 100.8 | AS |

(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.: GCD002

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) |
| Mercury | 3.0 | 2.82 | 94.0 | 5.0 | 4.90 | 98.0 | 4.71 | 94.2 | CV |

(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.: GCD002

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) |
| Mercury | | | | 5.0 | 4.61 | 92.2 | 5.15 | 103.0 | CV |

(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.: GCD002

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) |
| Mercury | 3.0 | 2.72 | 90.7 | 5.0 | 4.85 | 97.0 | 4.46 | 89.2 | CV |

(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.: GCD002

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) |
| Lead | 1000.0 | 998.00 | 99.8 | 400.0 | 405.60 | 101.4 | 408.40 | 102.1 | P |
| Selenium | 250.0 | 243.60 | 97.4 | 100.0 | 102.30 | 102.3 | 101.70 | 101.7 | 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.: GCD002

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) |
| Lead | | | | 400.0 | 410.80 | 102.7 | 406.20 | 101.6 | P |
| Selenium | | | | 100.0 | 102.50 | 102.5 | 101.80 | 101.8 | 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: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002Initial Calibration Source: Inorganic Ventures/FisherContinuing 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 | 26240.00 | 100.9 | 30200.0 | 29780.00 | 98.6 | 30030.00 | 99.4 | P |
| Antimony | 250.0 | 245.80 | 98.3 | 300.0 | 296.90 | 99.0 | 293.40 | 97.8 | P |
| Arsenic | 250.0 | 246.80 | 98.7 | 100.0 | 97.74 | 97.7 | 99.90 | 99.9 | P |
| Barium | 500.0 | 492.40 | 98.5 | 200.0 | 195.90 | 98.0 | 197.50 | 98.8 | P |
| Beryllium | 500.0 | 495.00 | 99.0 | 100.0 | 97.16 | 97.2 | 97.22 | 97.2 | P |
| Cadmium | 500.0 | 486.00 | 97.2 | 100.0 | 96.41 | 96.4 | 96.04 | 96.0 | P |
| Calcium | 25000.0 | 25340.00 | 101.4 | 30200.0 | 29970.00 | 99.2 | 29790.00 | 98.6 | P |
| Chromium | 500.0 | 492.60 | 98.5 | 200.0 | 191.50 | 95.8 | 192.20 | 96.1 | P |
| Cobalt | 500.0 | 487.10 | 97.4 | 200.0 | 194.40 | 97.2 | 194.20 | 97.1 | P |
| Copper | 500.0 | 497.50 | 99.5 | 200.0 | 197.90 | 99.0 | 198.00 | 99.0 | P |
| Iron | 25500.0 | 26090.00 | 102.3 | 30200.0 | 29840.00 | 98.8 | 29960.00 | 99.2 | P |
| Lead | 1000.0 | 983.60 | 98.4 | 400.0 | 387.70 | 96.9 | 387.00 | 96.8 | P |
| Magnesium | 25000.0 | 25190.00 | 100.8 | 30200.0 | 29640.00 | 98.1 | 29510.00 | 97.7 | P |
| Manganese | 500.0 | 488.40 | 97.7 | 200.0 | 194.20 | 97.1 | 193.40 | 96.7 | P |
| Nickel | 500.0 | 490.40 | 98.1 | 200.0 | 193.80 | 96.9 | 193.60 | 96.8 | P |
| Potassium | 25000.0 | 26530.00 | 106.1 | 30200.0 | 30820.00 | 102.1 | 31040.00 | 102.8 | P |
| Silver | 500.0 | 496.40 | 99.3 | 100.0 | 98.14 | 98.1 | 99.89 | 99.9 | P |
| Sodium | 25000.0 | 25230.00 | 100.9 | 30200.0 | 28980.00 | 96.0 | 29570.00 | 97.9 | P |
| Thallium | 250.0 | 237.90 | 95.2 | 100.0 | 97.51 | 97.5 | 98.66 | 98.7 | P |
| Vanadium | 500.0 | 490.80 | 98.2 | 200.0 | 196.30 | 98.2 | 195.70 | 97.8 | P |
| Zinc | 500.0 | 494.00 | 98.8 | 200.0 | 196.40 | 98.2 | 195.90 | 98.0 | 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: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002Initial Calibration Source: Inorganic Ventures/FisherContinuing 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 | 29900.00 | 99.0 | 29890.00 | 99.0 | P |
| Antimony | | | | 300.0 | 294.20 | 98.1 | 295.00 | 98.3 | P |
| Arsenic | | | | 100.0 | 99.42 | 99.4 | 98.17 | 98.2 | P |
| Barium | | | | 200.0 | 196.10 | 98.0 | 196.20 | 98.1 | P |
| Beryllium | | | | 100.0 | 97.65 | 97.6 | 96.94 | 96.9 | P |
| Cadmium | | | | 100.0 | 96.42 | 96.4 | 96.02 | 96.0 | P |
| Calcium | | | | 30200.0 | 29820.00 | 98.7 | 29690.00 | 98.3 | P |
| Chromium | | | | 200.0 | 191.50 | 95.8 | 191.10 | 95.6 | P |
| Cobalt | | | | 200.0 | 194.10 | 97.0 | 193.50 | 96.8 | P |
| Copper | | | | 200.0 | 197.80 | 98.9 | 197.10 | 98.6 | P |
| Iron | | | | 30200.0 | 29950.00 | 99.2 | 29890.00 | 99.0 | P |
| Lead | | | | 400.0 | 384.70 | 96.2 | 388.00 | 97.0 | P |
| Magnesium | | | | 30200.0 | 29630.00 | 98.1 | 29460.00 | 97.5 | P |
| Manganese | | | | 200.0 | 192.70 | 96.4 | 192.20 | 96.1 | P |
| Nickel | | | | 200.0 | 194.20 | 97.1 | 193.20 | 96.6 | P |
| Potassium | | | | 30200.0 | 30980.00 | 102.6 | 31020.00 | 102.7 | P |
| Silver | | | | 100.0 | 100.20 | 100.2 | 98.84 | 98.8 | P |
| Sodium | | | | 30200.0 | 29470.00 | 97.6 | 29370.00 | 97.3 | P |
| Thallium | | | | 100.0 | 98.29 | 98.3 | 94.41 | 94.4 | P |
| Vanadium | | | | 200.0 | 195.90 | 98.0 | 195.00 | 97.5 | P |
| Zinc | | | | 200.0 | 197.40 | 98.7 | 196.00 | 98.0 | 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.: GCD002

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 | 30000.00 | 99.3 | | | P |
| Antimony | | | | 300.0 | 294.50 | 98.2 | | | P |
| Arsenic | | | | 100.0 | 96.36 | 96.4 | | | P |
| Barium | | | | 200.0 | 197.10 | 98.6 | | | P |
| Beryllium | | | | 100.0 | 96.41 | 96.4 | | | P |
| Cadmium | | | | 100.0 | 95.62 | 95.6 | | | P |
| Calcium | | | | 30200.0 | 29750.00 | 98.5 | | | P |
| Chromium | | | | 200.0 | 190.80 | 95.4 | | | P |
| Cobalt | | | | 200.0 | 193.00 | 96.5 | | | P |
| Copper | | | | 200.0 | 198.40 | 99.2 | | | P |
| Iron | | | | 30200.0 | 29790.00 | 98.6 | | | P |
| Lead | | | | 400.0 | 382.80 | 95.7 | | | P |
| Magnesium | | | | 30200.0 | 29340.00 | 97.2 | | | P |
| Manganese | | | | 200.0 | 191.80 | 95.9 | | | P |
| Nickel | | | | 200.0 | 191.30 | 95.6 | | | P |
| Potassium | | | | 30200.0 | 31180.00 | 103.2 | | | P |
| Silver | | | | 100.0 | 98.79 | 98.8 | | | P |
| Sodium | | | | 30200.0 | 29310.00 | 97.1 | | | P |
| Thallium | | | | 100.0 | 101.00 | 101.0 | | | P |
| Vanadium | | | | 200.0 | 194.10 | 97.0 | | | P |
| Zinc | | | | 200.0 | 195.90 | 98.0 | | | 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.: GCD002

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) |
| Cyanide | 120.0 | 118.54 | 98.8 | 150.0 | 146.46 | 97.6 | 149.40 | 99.6 | AS |

(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.: GCD002

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) |
| Cyanide | | | | 150.0 | 149.12 | 99.4 | 148.07 | 98.7 | AS |

(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.: GCD002

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 | 494.80 | 99.0 | 200.0 | 199.00 | 99.5 | 201.00 | 100.5 | 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.: GCD002

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 | 203.40 | 101.7 | 199.00 | 99.5 | 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.: GCD002

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) |
| Cyanide | 120.0 | 116.78 | 97.3 | 150.0 | 139.64 | 93.1 | 142.74 | 95.2 | AS |

(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.: GCD002

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) |
| Cyanide | | | | 150.0 | 144.46 | 96.3 | 143.71 | 95.8 | AS |

(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.: GCD002

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) |
| Cyanide | 120.0 | 117.46 | 97.9 | 150.0 | 140.94 | 94.0 | 143.67 | 95.8 | AS |

(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.: GCD002

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) |
| Cyanide | | | | 150.0 | 142.40 | 94.9 | | | AS |

(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.: GCD002

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 | | Final | | |
| | | | | True | Found | %R | Found | %R |
| Mercury | 0.2 | 0.22 | 110.0 | | | | | |

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.: GCD002

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 %R |
| Mercury | 0.2 | 0.14 | 70.0 | | | | |

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.: GCD002

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 | | Final | | |
| | | | | True | Found | %R | Found | %R |
| Lead | | | | 6.0 | 8.44 | 140.7 | 8.17 | 136.2 |
| Selenium | | | | 10.0 | 9.26 | 92.6 | 11.19 | 111.9 |

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: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002AA CRDL Standard Source: Inorganic VenturesICP 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 | 469.90 | 117.5 | 474.00 | 118.5 |
| Antimony | | | | 120.0 | 118.70 | 98.9 | 118.90 | 99.1 |
| Arsenic | | | | 20.0 | 20.54 | 102.7 | 19.30 | 96.5 |
| Barium | | | | 400.0 | 389.80 | 97.4 | 391.20 | 97.8 |
| Beryllium | | | | 10.0 | 10.01 | 100.1 | 10.09 | 100.9 |
| Cadmium | | | | 10.0 | 9.75 | 97.5 | 9.91 | 99.1 |
| Calcium | | | | 10000.0 | 10240.00 | 102.4 | 10290.00 | 102.9 |
| Chromium | | | | 20.0 | 19.20 | 96.0 | 20.27 | 101.4 |
| Cobalt | | | | 100.0 | 95.72 | 95.7 | 95.66 | 95.7 |
| Copper | | | | 50.0 | 50.07 | 100.1 | 51.23 | 102.5 |
| Iron | | | | 200.0 | 244.90 | 122.4 | 251.60 | 125.8 |
| Lead | | | | 6.0 | 4.17 | 69.5 | 4.32 | 72.0 |
| Magnesium | | | | 10000.0 | 9945.00 | 99.4 | 9977.00 | 99.8 |
| Manganese | | | | 30.0 | 29.09 | 97.0 | 28.93 | 96.4 |
| Nickel | | | | 80.0 | 79.51 | 99.4 | 80.56 | 100.7 |
| Potassium | | | | 10000.0 | 10760.00 | 107.6 | 10900.00 | 109.0 |
| Silver | | | | 20.0 | 19.93 | 99.6 | 20.50 | 102.5 |
| Sodium | | | | 10000.0 | 9714.00 | 97.1 | 9875.00 | 98.8 |
| Thallium | | | | 20.0 | 20.53 | 102.6 | 22.91 | 114.6 |
| Vanadium | | | | 100.0 | 96.82 | 96.8 | 96.83 | 96.8 |
| Zinc | | | | 40.0 | 39.43 | 98.6 | 39.67 | 99.2 |

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.: GCD002

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 | | Final | | |
| | | | | True | Found | %R | Found | %R |
| Manganese | | | | 30.0 | 29.92 | 99.7 | 29.81 | 99.4 |

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.: GCD002

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) | | | | | | Preparation Blank | | M |
|---------|--------------------------------------|---|--|---|------|---|------|---|----------------------|---|----|
| | | | 1 | C | 2 | C | 3 | C | C | C | |
| Cyanide | 10.0 | U | 10.0 | U | 10.0 | U | 10.0 | U | 0.500 | U | AS |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002

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) | | | | | | Preparation Blank | C | M |
|---------|--------------------------------------|---|--|---|---|---|---|---|----------------------|---|----|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Cyanide | | | 10.0 | U | | | | | | | AS |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002

Preparation Blank Matrix (soil/water): SOIL

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

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|---------|-----------------------------|---|-------------------------------------|---|-----|---|-----|---|-------------------|---|----|
| | C | | 1 | C | 2 | C | 3 | C | C | | |
| Mercury | 0.1 | U | 0.1 | U | 0.1 | U | 0.1 | U | 0.017 | U | CV |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002

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) | | | | | | Preparation Blank | C | M |
|---------|--------------------------------------|---|--|---|---|---|---|---|----------------------|----|---|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Mercury | | | 0.1 | B | | | | | | CV | |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002

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) | | | | | | Preparation Blank | C | M |
|---------|--------------------------------------|---|--|---|-----|---|---|---|----------------------|---|----|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Mercury | 0.1 | U | 0.1 | U | 0.1 | U | | | 0.017 | U | CV |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002Preparation Blank Matrix (soil/water): SOILPreparation Blank Concentration Units (ug/L or mg/kg): MG/KG

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M | |
|-----------|-----------------------------|-------|-------------------------------------|-------|---|-------|---|-------|-------------------|--------|---|---|
| | | C | 1 | C | 2 | C | 3 | C | | C | | |
| Aluminum | | | | | | | | | | 2.360 | U | P |
| Antimony | | | | | | | | | | 0.470 | U | P |
| Arsenic | | | | | | | | | | 0.480 | U | P |
| Barium | | | | | | | | | | 0.590 | U | P |
| Beryllium | | | | | | | | | | 0.020 | U | P |
| Cadmium | | | | | | | | | | 0.060 | U | P |
| Calcium | | | | | | | | | | 18.210 | U | P |
| Chromium | | | | | | | | | | -0.211 | B | P |
| Cobalt | | | | | | | | | | 0.200 | U | P |
| Copper | | | | | | | | | | 0.240 | U | P |
| Iron | | | | | | | | | | 3.464 | B | P |
| Lead | | 1.5 U | | 2.9 B | | 1.5 U | | 2.3 B | | 0.196 | B | P |
| Magnesium | | | | | | | | | | 17.830 | U | P |
| Manganese | | | | | | | | | | 0.070 | U | P |
| Nickel | | | | | | | | | | -0.315 | B | P |
| Potassium | | | | | | | | | | 39.300 | U | P |
| Selenium | | 1.7 U | | 1.7 U | | 1.7 U | | 1.7 U | | 0.211 | B | P |
| Silver | | | | | | | | | | 0.220 | U | P |
| Sodium | | | | | | | | | | 88.450 | B | P |
| Thallium | | | | | | | | | | 0.570 | U | P |
| Vanadium | | | | | | | | | | 0.200 | U | P |
| Zinc | | | | | | | | | | 0.104 | B | P |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002

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) | | | | | | Preparation Blank | | M | |
|-----------|-----------------------------|---|-------------------------------------|---|---|---|---|---|-------------------|--------|---|---|
| | | | 1 | C | 2 | C | 3 | C | | C | | |
| Aluminum | | | | | | | | | | 2.360 | U | P |
| Antimony | | | | | | | | | | 0.470 | U | P |
| Arsenic | | | | | | | | | | 0.480 | U | P |
| Barium | | | | | | | | | | 0.590 | U | P |
| Beryllium | | | | | | | | | | 0.020 | U | P |
| Cadmium | | | | | | | | | | 0.060 | U | P |
| Calcium | | | | | | | | | | 18.210 | U | P |
| Chromium | | | | | | | | | | -0.189 | B | P |
| Cobalt | | | | | | | | | | 0.200 | U | P |
| Copper | | | | | | | | | | 0.240 | U | P |
| Iron | | | | | | | | | | 3.330 | U | P |
| Lead | | | 2.5 | B | | | | | | 0.241 | B | P |
| Magnesium | | | | | | | | | | 17.830 | U | P |
| Manganese | | | | | | | | | | 0.070 | U | P |
| Nickel | | | | | | | | | | -0.304 | B | P |
| Potassium | | | | | | | | | | 39.300 | U | P |
| Selenium | | | 1.7 | U | | | | | | 0.170 | U | P |
| Silver | | | | | | | | | | 0.220 | U | P |
| Sodium | | | | | | | | | | 87.810 | B | P |
| Thallium | | | | | | | | | | 0.570 | U | P |
| Vanadium | | | | | | | | | | 0.200 | U | P |
| Zinc | | | | | | | | | | 0.198 | B | P |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|-----------|-----------------------------|---|-------------------------------------|---|-------|---|-------|---|-------------------|---|---|
| | | C | 1 | C | 2 | C | 3 | C | | C | |
| Aluminum | -33.7 | B | -38.2 | B | -62.3 | B | -47.6 | B | | | 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 | 0.3 | B | 0.3 | B | 0.4 | B | 0.4 | B | | | P |
| Cadmium | 0.6 | U | 0.6 | U | 0.6 | U | 0.6 | U | | | P |
| Calcium | 182.1 | U | 182.1 | U | 182.1 | U | 182.1 | U | | | P |
| Chromium | -2.7 | B | -2.5 | B | -2.6 | B | -2.3 | B | | | 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 |
| Magnesium | 178.3 | U | 178.3 | U | 178.3 | U | 178.3 | 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 |
| Potassium | 393.0 | U | 393.0 | U | 393.0 | U | 393.0 | U | | | P |
| Silver | 2.2 | U | 2.2 | U | 2.2 | U | 2.2 | U | | | P |
| Sodium | 472.7 | U | 472.7 | U | 472.7 | U | 472.7 | 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 |
| Zinc | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | | | P |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | C | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|-----------|--------------------------------------|---|--|---|-------|---|---|---|----------------------|---|---|
| | | | 1 | C | 2 | C | 3 | C | C | C | |
| Aluminum | | | -44.1 | B | -34.7 | B | | | | | P |
| Antimony | | | 4.7 | U | 4.7 | U | | | | | P |
| Arsenic | | | 4.8 | U | 4.8 | U | | | | | P |
| Barium | | | 5.9 | U | 5.9 | U | | | | | P |
| Beryllium | | | 0.4 | B | 0.4 | B | | | | | P |
| Cadmium | | | 0.6 | U | 0.6 | U | | | | | P |
| Calcium | | | 182.1 | U | 182.1 | U | | | | | P |
| Chromium | | | -2.5 | B | -2.6 | B | | | | | P |
| Cobalt | | | 2.0 | U | 2.0 | U | | | | | P |
| Copper | | | 2.4 | U | 2.4 | U | | | | | P |
| Iron | | | 33.3 | U | 33.3 | U | | | | | P |
| Lead | | | 1.3 | U | 1.3 | U | | | | | P |
| Magnesium | | | 178.3 | U | 178.3 | U | | | | | P |
| Manganese | | | 0.7 | U | 0.7 | U | | | | | P |
| Nickel | | | 2.1 | U | 2.1 | U | | | | | P |
| Potassium | | | 393.0 | U | 393.0 | U | | | | | P |
| Silver | | | 2.2 | U | 2.2 | U | | | | | P |
| Sodium | | | 472.7 | U | 472.7 | U | | | | | P |
| Thallium | | | 5.7 | U | 5.7 | U | | | | | P |
| Vanadium | | | 2.0 | U | 2.0 | U | | | | | P |
| Zinc | | | 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.: GCD002

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) | | | | | | Preparation Blank | C | M |
|---------|--------------------------------------|---|--|---|------|---|------|---|----------------------|---|----|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Cyanide | 10.0 | U | 10.0 | U | 10.0 | U | 10.0 | U | 0.467 | U | AS |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002

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) | | | | | | Preparation Blank | C | M |
|---------|--------------------------------------|---|--|---|---|---|---|---|----------------------|----|---|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Cyanide | | | 10.0 | U | | | | | | AS | |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002

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) | | | | | | Preparation Blank | C | M |
|-----------|--------------------------------------|---|--|---|-----|---|-----|---|----------------------|---|---|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Manganese | 0.7 | U | 0.7 | U | 0.7 | U | 0.7 | U | | | P |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002

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) | | | | | | Preparation Blank | C | M |
|-----------|-----------------------------|---|-------------------------------------|---|---|---|---|---|-------------------|---|---|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Manganese | | | 0.7 | U | | | | | | | P |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002

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) | | | | | | Preparation Blank | | M |
|---------|--|--|----------|----------|----------|----------|-----------|----------------------|---|---|
| | | 1 C | 2 C | 3 C | 4 C | 5 C | 6 C | C | U | |
| Cyanide | 10.0 U | 10.0 U | 10.0 U | 10.0 U | 10.0 U | 10.0 U | 0.490 U | AS | | |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002

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) | | | | | | Preparation Blank | C | M |
|---------|--------------------------------------|---|--|---|---|---|---|---|----------------------|----|---|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Cyanide | | | 10.0 | U | | | | | | AS | |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002

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) | | | | | | Preparation Blank | | M |
|---------|--------------------------------------|---|--|---|------|---|------|---|----------------------|---|----|
| | | | 1 | C | 2 | C | 3 | C | C | | |
| Cyanide | 10.0 | U | 10.0 | U | 10.0 | U | 10.0 | U | 0.495 | U | AS |

USEPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002ICP ID Number: TJA ICAP 6 ICS Source: Inorganic VenturesConcentration Units: ug/L

| Analyte | True | | Initial Found | | | Final Found | | |
|----------|-------|--------|---------------|--------|-------|-------------|--------|-------|
| | Sol.A | Sol.AB | Sol.A | Sol.AB | %R | Sol.A | Sol.AB | %R |
| Lead | 0 | 44 | 1 | 45.6 | 103.6 | 1 | 47.2 | 107.3 |
| Selenium | 0 | 48 | -2 | 43.6 | 90.8 | -3 | 51.2 | 106.7 |

USEPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002ICP ID Number: TJA ICAP 4 ICS Source: Inorganic VenturesConcentration 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 | 490000 | 494600.0 | 102.5 | 491700 | 489100.0 | 101.3 |
| Antimony | 0 | 596 | -3 | 599.9 | 100.7 | -3 | 593.3 | 99.5 |
| Arsenic | 0 | 102 | 6 | 104.5 | 102.5 | 3 | 100.4 | 98.4 |
| Barium | 0 | 503 | 2 | 495.0 | 98.4 | 2 | 487.6 | 96.9 |
| Beryllium | 0 | 482 | 0 | 475.8 | 98.7 | 0 | 468.5 | 97.2 |
| Cadmium | 0 | 938 | 0 | 927.3 | 98.9 | -1 | 913.8 | 97.4 |
| Calcium | 500000 | 477840 | 481800 | 488500.0 | 102.2 | 480800 | 482000.0 | 100.9 |
| Chromium | 0 | 483 | 1 | 473.9 | 98.1 | 1 | 465.2 | 96.3 |
| Cobalt | 0 | 457 | -1 | 455.4 | 99.6 | -1 | 446.9 | 97.8 |
| Copper | 0 | 526 | 3 | 507.7 | 96.5 | 3 | 500.0 | 95.1 |
| Iron | 200000 | 191980 | 197000 | 197200.0 | 102.7 | 197200 | 195000.0 | 101.6 |
| Lead | 0 | 49 | -2 | 41.9 | 85.5 | -1 | 42.2 | 86.1 |
| Magnesium | 500000 | 521880 | 527200 | 535000.0 | 102.5 | 524900 | 526600.0 | 100.9 |
| Manganese | 0 | 474 | 1 | 466.7 | 98.5 | 1 | 455.4 | 96.1 |
| Nickel | 0 | 952 | 2 | 943.0 | 99.1 | 2 | 925.3 | 97.2 |
| Potassium | 0 | 0 | -40 | -6.4 | | 36 | 43.4 | |
| Silver | 0 | 213 | 1 | 212.5 | 99.8 | 1 | 209.1 | 98.2 |
| Sodium | 0 | 0 | -231 | -127.1 | | -141 | -125.0 | |
| Thallium | 0 | 89 | 2 | 91.6 | 102.9 | 0 | 88.7 | 99.7 |
| Vanadium | 0 | 478 | 4 | 467.1 | 97.7 | 4 | 458.9 | 96.0 |
| Zinc | 0 | 998 | 3 | 995.5 | 99.7 | 3 | 981.9 | 98.4 |

USEPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002ICP ID Number: TJA ICAP 4 ICS Source: Inorganic VenturesConcentration 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 | 474 | 1 | 477.0 | 100.6 | 1 | 487.1 | 102.8 |

USEPA - CLP

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

GRANSTPSD53S

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002Matrix (soil/water): SOIL Level (low/med): LOW% Solids for Sample: 78.6Concentration 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 | | 9962.3857 | 10187.6797 | 221.26 | -101.8 | | P |
| Antimony | 75 - 125 | 27.7796 | 2.0136 | 55.32 | 46.6 | N | P |
| Arsenic | | 113.9507 | 129.6179 | 4.43 | -353.7 | | P |
| Barium | 75 - 125 | 338.2011 | 139.4708 | 221.26 | 89.8 | | P |
| Beryllium | 75 - 125 | 5.4696 | 0.2433 | 5.53 | 94.5 | | P |
| Cadmium | 75 - 125 | 6.1710 | 0.9585 | 5.53 | 94.3 | | P |
| Chromium | 75 - 125 | 29.3285 | 10.3599 | 22.13 | 85.7 | | P |
| Cobalt | 75 - 125 | 57.6723 | 6.9477 | 55.32 | 91.7 | | P |
| Copper | 75 - 125 | 43.7327 | 18.1274 | 27.66 | 92.6 | | P |
| Iron | | 19637.1309 | 21618.9395 | 110.63 | -1791.4 | | P |
| Lead | | 32.2270 | 38.2158 | 2.21 | -271.0 | | P |
| Manganese | | 406.5716 | 364.1738 | 55.32 | 76.6 | | P |
| Mercury | 75 - 125 | 0.3280 | 0.1128 | 0.20 | 107.6 | | CV |
| Nickel | 75 - 125 | 57.5064 | 6.2417 | 55.32 | 92.7 | | P |
| Selenium | 75 - 125 | 1.3630 | 0.4391 | 1.11 | 83.2 | | P |
| Silver | 75 - 125 | 6.6622 | 1.7659 | 5.53 | 88.5 | | P |
| Thallium | 75 - 125 | 5.4420 | 0.6896 | 5.53 | 85.9 | | P |
| Vanadium | 75 - 125 | 94.5237 | 52.0863 | 55.32 | 76.7 | | P |
| Zinc | 75 - 125 | 193.7161 | 149.5150 | 55.32 | 79.9 | | P |
| Cyanide | 75 - 125 | 5.8886 | 0.5731 | 5.73 | 102.8 | | AS |

Comments:

USEPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

GRANSTPSD53A

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVVT Case No.: 23046 SAS SDG No.: GCD002Matrix (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 | | 107200.00 | 106500.00 | 2000.0 | 35.0 | | P |
| Antimony | | 518.30 | 21.05 | 500.0 | 99.4 | B | P |
| Arsenic | | 1360.00 | 1355.00 | 40.0 | 12.5 | | P |
| Barium | | 3410.00 | 1458.00 | 2000.0 | 97.6 | | P |
| Beryllium | | 51.86 | 2.54 | 50.0 | 98.6 | B | P |
| Cadmium | | 58.24 | 10.02 | 50.0 | 96.4 | | P |
| Chromium | | 307.60 | 108.30 | 200.0 | 99.6 | | P |
| Cobalt | | 554.40 | 72.63 | 500.0 | 96.4 | | P |
| Copper | | 447.60 | 189.50 | 250.0 | 103.2 | | P |
| Iron | | 222400.00 | 226000.00 | 1000.0 | -360.0 | | P |
| Lead | | 412.50 | 399.50 | 20.0 | 65.0 | | P |
| Manganese | | 4214.00 | 3807.00 | 500.0 | 81.4 | | P |
| Nickel | | 549.60 | 65.25 | 500.0 | 96.9 | | P |
| Selenium | | 14.44 | 4.59 | 10.0 | 98.5 | B | P |
| Silver | | 68.76 | 18.46 | 50.0 | 100.6 | | P |
| Thallium | | 53.70 | 7.21 | 50.0 | 93.0 | B | P |
| Vanadium | | 1036.00 | 544.50 | 500.0 | 98.3 | | P |
| Zinc | | 2008.00 | 1563.00 | 500.0 | 89.0 | | P |
| Cyanide | | 21.48 | 10.00 | 20.0 | 107.4 | U | AS |

Comments: _____

USEPA - CLP

6

DUPLICATES

SAMPLE NO.

GRANSTPSD53D

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002Matrix (soil/water): SOIL Level (low/med): LOW% Solids for Sample: 78.6 % Solids for Duplicate: 81.7Concentration Units (ug/L or mg/kg dry weight): MG/KG

| Analyte | Control Limit | Sample (S) | C | Duplicate (D) | C | RPD | Q | M |
|-----------|---------------|------------|---|---------------|---|-------|---|----|
| Aluminum | | 10187.6797 | | 6896.9580 | | 38.5 | * | P |
| Antimony | | 2.0136 | B | 1.5673 | B | 24.9 | | P |
| Arsenic | | 129.6179 | | 120.7048 | | 7.1 | | P |
| Barium | 19.1 | 139.4708 | | 98.0713 | | 34.9 | * | P |
| Beryllium | | 0.2433 | B | 0.1891 | B | 25.1 | | P |
| Cadmium | 0.5 | 0.9585 | | 0.8358 | | 13.7 | | P |
| Calcium | 478.3 | 2184.8521 | | 1470.0540 | | 39.1 | * | P |
| Chromium | | 10.3599 | | 6.0352 | | 52.8 | * | P |
| Cobalt | | 6.9477 | | 5.1340 | B | 30.0 | | P |
| Copper | 2.4 | 18.1274 | | 12.2950 | | 38.3 | * | P |
| Iron | | 21618.9395 | | 14647.0801 | | 38.4 | * | P |
| Lead | | 38.2158 | | 70.2204 | | 59.0 | * | P |
| Magnesium | | 4785.8188 | | 2975.3889 | | 46.7 | * | P |
| Manganese | | 364.1738 | | 302.8845 | | 18.4 | | P |
| Mercury | 0.0 | 0.1128 | | 0.1996 | | 55.6 | * | CV |
| Nickel | | 6.2417 | | 3.8895 | B | 46.4 | | P |
| Potassium | 478.3 | 2840.1160 | | 2122.2229 | | 28.9 | * | P |
| Selenium | | 0.4391 | B | 0.4494 | B | 2.3 | | P |
| Silver | 1.0 | 1.7659 | | 1.7256 | | 2.3 | | P |
| Sodium | | 45.2180 | U | 53.8200 | B | 200.0 | | P |
| Thallium | | 0.6896 | B | 0.6094 | U | 200.0 | | P |
| Vanadium | | 52.0863 | | 32.6298 | | 45.9 | * | P |
| Zinc | | 149.5150 | | 94.4576 | | 45.1 | * | P |
| Cyanide | | 0.5731 | U | 0.5783 | U | | | AS |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002

Solid LCS Source: Environmental Express

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | |
|---------|----------------|-------|----|---------------|---------|-----------|------|
| | True | Found | %R | True | Found C | Limits | %R |
| Cyanide | | | | 6.0 | 5.7 | 5.4 6.6 | 95.0 |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002

Solid LCS Source: Environmental Express

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | |
|---------|----------------|-------|----|---------------|---------|--------|-------------|
| | True | Found | %R | True | Found C | Limits | %R |
| Mercury | | | | 0.1 | 0.1 | 0.1 | 0.1 100.0 |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002

Solid LCS Source: Environmental Express

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|---------|----------------|-------|----|---------------|-------|---|--------|-------------|
| | True | Found | %R | True | Found | C | Limits | %R |
| Mercury | | | | 0.1 | 0.1 | | 0.1 | 0.1 100.0 |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002Solid LCS Source: Environmental Express

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|-----------|----------------|-------|----|---------------|--------|---|-----------------|-------|
| | True | Found | %R | True | Found | C | Limits | %R |
| Aluminum | | | | 200.0 | 205.1 | | 160.0 240.0 | 102.6 |
| Antimony | | | | 50.0 | 50.1 | | 40.0 60.0 | 100.2 |
| Arsenic | | | | 24.0 | 22.7 | | 19.2 28.8 | 94.6 |
| Barium | | | | 200.0 | 197.9 | | 160.0 240.0 | 99.0 |
| Beryllium | | | | 5.0 | 5.0 | | 4.0 6.0 | 100.0 |
| Cadmium | | | | 25.0 | 24.7 | | 20.0 30.0 | 98.8 |
| Calcium | | | | 2000.0 | 2043.0 | | 1600.0 2400.0 | 102.2 |
| Chromium | | | | 20.0 | 20.1 | | 16.0 24.0 | 100.5 |
| Cobalt | | | | 50.0 | 49.0 | | 40.0 60.0 | 98.0 |
| Copper | | | | 25.0 | 25.9 | | 20.0 30.0 | 103.6 |
| Iron | | | | 100.0 | 99.3 | | 80.0 120.0 | 99.3 |
| Lead | | | | 22.0 | 21.4 | | 17.6 26.4 | 97.3 |
| Magnesium | | | | 2000.0 | 1984.0 | | 1600.0 2400.0 | 99.2 |
| Manganese | | | | 50.0 | 49.9 | | 40.0 60.0 | 99.8 |
| Nickel | | | | 50.0 | 49.0 | | 40.0 60.0 | 98.0 |
| Potassium | | | | 2000.0 | 1989.0 | | 1600.0 2400.0 | 99.4 |
| Selenium | | | | 21.0 | 19.2 | | 16.8 25.2 | 91.4 |
| Silver | | | | 25.0 | 25.2 | | 20.0 30.0 | 100.8 |
| Sodium | | | | 2000.0 | 2043.0 | | 1600.0 2400.0 | 102.2 |
| Thallium | | | | 25.0 | 23.8 | | 20.0 30.0 | 95.2 |
| Vanadium | | | | 50.0 | 50.3 | | 40.0 60.0 | 100.6 |
| Zinc | | | | 50.0 | 49.5 | | 40.0 60.0 | 99.0 |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002Solid LCS Source: Environmental Express

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|-----------|----------------|-------|----|---------------|--------|---|-----------------|-------|
| | True | Found | %R | True | Found | C | Limits | %R |
| Aluminum | | | | 200.0 | 206.0 | | 160.0 240.0 | 103.0 |
| Antimony | | | | 50.0 | 49.8 | | 40.0 60.0 | 99.6 |
| Arsenic | | | | 24.0 | 22.7 | | 19.2 28.8 | 94.6 |
| Barium | | | | 200.0 | 199.2 | | 160.0 240.0 | 99.6 |
| Beryllium | | | | 5.0 | 5.0 | | 4.0 6.0 | 100.0 |
| Cadmium | | | | 25.0 | 24.6 | | 20.0 30.0 | 98.4 |
| Calcium | | | | 2000.0 | 2031.0 | | 1600.0 2400.0 | 101.6 |
| Chromium | | | | 20.0 | 20.0 | | 16.0 24.0 | 100.0 |
| Cobalt | | | | 50.0 | 48.6 | | 40.0 60.0 | 97.2 |
| Copper | | | | 25.0 | 26.0 | | 20.0 30.0 | 104.0 |
| Iron | | | | 100.0 | 100.1 | | 80.0 120.0 | 100.1 |
| Lead | | | | 22.0 | 21.6 | | 17.6 26.4 | 98.2 |
| Magnesium | | | | 2000.0 | 1968.0 | | 1600.0 2400.0 | 98.4 |
| Manganese | | | | 50.0 | 49.5 | | 40.0 60.0 | 99.0 |
| Nickel | | | | 50.0 | 48.9 | | 40.0 60.0 | 97.8 |
| Potassium | | | | 2000.0 | 2006.0 | | 1600.0 2400.0 | 100.3 |
| Selenium | | | | 21.0 | 19.5 | | 16.8 25.2 | 92.9 |
| Silver | | | | 25.0 | 25.3 | | 20.0 30.0 | 101.2 |
| Sodium | | | | 2000.0 | 2070.0 | | 1600.0 2400.0 | 103.5 |
| Thallium | | | | 25.0 | 23.5 | | 20.0 30.0 | 94.0 |
| Vanadium | | | | 50.0 | 50.2 | | 40.0 60.0 | 100.4 |
| Zinc | | | | 50.0 | 49.4 | | 40.0 60.0 | 98.8 |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002

Solid LCS Source: Environmental Express

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | |
|---------|----------------|-------|----|---------------|---------|-----------|-------|
| | True | Found | %R | True | Found C | Limits | %R |
| Cyanide | | | | 6.0 | 6.1 | 5.4 6.6 | 101.7 |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002

Solid LCS Source: Environmental Express

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | |
|---------|----------------|-------|----|---------------|---------|--------|-------------|
| | True | Found | %R | True | Found C | Limits | %R |
| Cyanide | | | | 6.0 | 6.0 | 5.4 | 6.6 100.0 |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002

Solid LCS Source: Environmental Express

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | |
|---------|----------------|-------|----|---------------|---------|-----------|------|
| | True | Found | %R | True | Found C | Limits | %R |
| Cyanide | | | | 6.0 | 5.9 | 5.4 6.6 | 98.3 |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002

Solid LCS Source: Environmental Express

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | |
|---------|----------------|-------|----|---------------|---------|--------|-------------|
| | True | Found | %R | True | Found C | Limits | %R |
| Cyanide | | | | 6.0 | 6.6 | 5.4 | 6.6 110.0 |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002

Solid LCS Source: Environmental Express

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | |
|---------|----------------|-------|----|---------------|---------|--------|-------------|
| | True | Found | %R | True | Found C | Limits | %R |
| Mercury | | | | 0.1 | 0.1 | 0.1 | 0.1 100.0 |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002Solid LCS Source: Environmental Express

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|-----------|----------------|-------|----|---------------|--------|---|-----------------|-------|
| | True | Found | %R | True | Found | C | Limits | %R |
| Aluminum | | | | 200.0 | 208.3 | | 160.0 240.0 | 104.2 |
| Antimony | | | | 50.0 | 50.2 | | 40.0 60.0 | 100.4 |
| Arsenic | | | | 24.0 | 23.1 | | 19.2 28.8 | 96.2 |
| Barium | | | | 200.0 | 200.4 | | 160.0 240.0 | 100.2 |
| 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 | 2066.0 | | 1600.0 2400.0 | 103.3 |
| Chromium | | | | 20.0 | 20.3 | | 16.0 24.0 | 101.5 |
| Cobalt | | | | 50.0 | 49.4 | | 40.0 60.0 | 98.8 |
| Copper | | | | 25.0 | 26.3 | | 20.0 30.0 | 105.2 |
| Iron | | | | 100.0 | 100.9 | | 80.0 120.0 | 100.9 |
| Lead | | | | 22.0 | 21.9 | | 17.6 26.4 | 99.5 |
| Magnesium | | | | 2000.0 | 2007.0 | | 1600.0 2400.0 | 100.4 |
| Manganese | | | | 50.0 | 50.1 | | 40.0 60.0 | 100.2 |
| Nickel | | | | 50.0 | 49.4 | | 40.0 60.0 | 98.8 |
| Potassium | | | | 2000.0 | 2026.0 | | 1600.0 2400.0 | 101.3 |
| Selenium | | | | 21.0 | 19.3 | | 16.8 25.2 | 91.9 |
| Silver | | | | 25.0 | 25.6 | | 20.0 30.0 | 102.4 |
| Sodium | | | | 2000.0 | 2087.0 | | 1600.0 2400.0 | 104.4 |
| Thallium | | | | 25.0 | 23.7 | | 20.0 30.0 | 94.8 |
| Vanadium | | | | 50.0 | 50.9 | | 40.0 60.0 | 101.8 |
| Zinc | | | | 50.0 | 50.0 | | 40.0 60.0 | 100.0 |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002

Solid LCS Source: Environmental Express

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|---------|----------------|-------|----|---------------|-------|---|-----------|------|
| | True | Found | %R | True | Found | C | Limits | %R |
| Cyanide | | | | 6.0 | 5.9 | | 5.4 6.6 | 98.3 |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002

Solid LCS Source: Environmental Express

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|---------|----------------|-------|----|---------------|-------|---|-----------|------|
| | True | Found | %R | True | Found | C | Limits | %R |
| Cyanide | | | | 6.0 | 5.9 | | 5.4 6.6 | 98.3 |

USEPA - CLP

9
ICP SERIAL DILUTIONS

SAMPLE NO.

GRANSTPSD53L

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCD002Matrix (soil/water): SOILLevel (low/med): LOW

Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | | Serial Dilution Result (S) | | % Differ- ence | Q | M |
|-----------|------------------------------|---|-------------------------------|---|----------------------|---|---|
| | | C | | C | | | |
| Aluminum | 106500.00 | | 110500.00 | | 3.8 | | P |
| Antimony | 21.05 | B | 23.50 | U | 100.0 | | P |
| Arsenic | 1355.00 | | 1452.00 | | 7.2 | | P |
| Barium | 1458.00 | | 1481.00 | | 1.6 | | P |
| Beryllium | 2.54 | B | 3.87 | B | 52.4 | | P |
| Cadmium | 10.02 | | 10.80 | B | 7.8 | | P |
| Calcium | 22840.00 | | 23820.00 | B | 4.3 | | P |
| Chromium | 108.30 | | 102.90 | | 5.0 | | P |
| Cobalt | 72.63 | | 76.71 | B | 5.6 | | P |
| Copper | 189.50 | | 186.10 | | 1.8 | | P |
| Iron | 226000.00 | | 235300.00 | | 4.1 | | P |
| Lead | 399.50 | | 433.70 | | 8.6 | | P |
| Magnesium | 50030.00 | | 51900.00 | | 3.7 | | P |
| Manganese | 3807.00 | | 3960.00 | | 4.0 | | P |
| Nickel | 65.25 | | 82.25 | B | 26.1 | | P |
| Potassium | 29690.00 | | 32680.00 | | 10.1 | E | P |
| Selenium | 4.59 | B | 8.50 | U | 100.0 | | P |
| Silver | 18.46 | | 22.59 | B | 22.4 | | P |
| Sodium | 472.70 | U | 2363.50 | U | | | P |
| Thallium | 7.21 | B | 28.50 | U | 100.0 | | P |
| Vanadium | 544.50 | | 561.60 | | 3.1 | | P |
| Zinc | 1563.00 | | 1664.00 | | 6.5 | | P |

USEPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002

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

Flame AA ID Number: Lachat Cyanide

Furnace AA ID Number: _____

| Analyte | Wave-length (nm) | Back-ground | CRDL (ug/L) | IDL (ug/L) | M |
|---------|------------------|-------------|-------------|------------|----|
| Cyanide | | | 10 | 10.0 | AS |

Comments: _____

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002

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: _____

USEPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002ICP 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: _____

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002ICP 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 |
|----------|------------------|-------------|-------------|------------|---|
| Lead | 220.353 | | 3 | 1.5 | P |
| Selenium | 196.026 | | 5 | 1.7 | P |

Comments: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002
 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: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002
 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: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002

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 | 0.000000 | 0.000000 | 0.1440400 | 0.000000 | 0.000000 |
| Antimony | 206.84 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Arsenic | 189.04 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Barium | 493.41 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Beryllium | 313.04 | 0.000000 | 0.000000 | 0.000000 | 0.0006280 | 0.000000 |
| Boron | 249.68 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Cadmium | 226.50 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Calcium | 317.93 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Chromium | 267.72 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Cobalt | 228.62 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Copper | 324.75 | 0.000000 | 0.000000 | 0.000000 | -0.000192 | 0.000000 |
| Iron | 271.44 | 0.000000 | 0.000000 | 0.000000 | 0.0237000 | 0.000000 |
| Lead | 220.35 | 0.0001240 | -0.0002280 | 0.000000 | 0.0005020 | 0.000000 |
| Magnesium | 279.08 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Manganese | 257.61 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Molybdenum | 202.03 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Nickel | 231.60 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Potassium | 766.49 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Selenium | 196.03 | 0.000000 | 0.0001660 | 0.000000 | 0.000000 | 0.000000 |
| Silicon | 288.16 | 0.000000 | 0.000000 | -0.1212200 | 0.000000 | 0.000000 |
| Silver | 328.07 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Sodium | 330.23 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.1177000 |
| Thallium | 190.86 | 0.000000 | 0.000000 | 0.000000 | 0.0025400 | 0.000000 |
| Tin | 189.99 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Vanadium | 292.40 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Zinc | 213.86 | 0.0052400 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

Comments: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002
 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 | 0.000000 | 0.000000 | -0.0002180 | 0.000000 | 0.000000 |
| Antimony | 206.838 | 0.0000080 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Arsenic | 189.042 | 0.0000170 | 0.000000 | -0.0000590 | 0.000000 | 0.000000 |
| Barium | 493.409 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Beryllium | 313.042 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Boron | 249.678 | 0.000000 | 0.000000 | -0.0000740 | 0.000000 | 0.000000 |
| Cadmium | 226.502 | 0.0000010 | 0.000000 | 0.0000590 | 0.000000 | 0.000000 |
| Calcium | 317.933 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Chromium | 267.716 | 0.0000100 | 0.000000 | -0.0000200 | 0.000060 | 0.000000 |
| Cobalt | 228.616 | 0.000000 | 0.000000 | -0.0000400 | 0.000000 | 0.000000 |
| Copper | 324.754 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Iron | 271.441 | 0.0001740 | 0.000000 | 0.000000 | -0.001587 | 0.000000 |
| Lead | 220.353 | -0.0000300 | 0.000000 | 0.0000550 | -0.000006 | 0.000000 |
| Magnesium | 279.079 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Manganese | 257.610 | 0.000000 | 0.000000 | 0.000000 | 0.0000200 | 0.000000 |
| Molybdenum | 202.030 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Nickel | 231.604 | 0.000000 | 0.000000 | -0.0000520 | 0.000000 | 0.000000 |
| Phosphorus | 178.287 | 0.0000070 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Potassium | 766.491 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Selenium | 196.026 | 0.000000 | 0.000000 | -0.0007500 | 0.000000 | 0.000000 |
| Silver | 328.068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Sodium | 330.232 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Strontium | 421.552 | 0.000000 | 0.0000240 | 0.000000 | 0.000000 | 0.000000 |
| Thallium | 190.864 | 0.0000080 | 0.000000 | -0.0001100 | 0.000000 | 0.000000 |
| Tin | 189.989 | 0.0000090 | 0.000000 | -0.0000750 | 0.000000 | 0.000000 |
| Titanium | 334.941 | 0.000000 | 0.000000 | 0.000000 | 0.0000140 | 0.000000 |
| Vanadium | 292.402 | 0.000000 | 0.000000 | 0.0000030 | 0.0000040 | 0.000000 |
| Zinc | 206.200 | 0.0000300 | 0.000000 | -0.0000600 | 0.000000 | 0.000000 |

Comments: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002

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: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002
 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: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002ICP 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: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002

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: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002ICP 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.: GCD002

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

| Analyte | Integ. Time (Sec.) | Concentration (ug/L) | M |
|----------|--------------------------|-------------------------|---|
| Lead | 10.00 | 50000.0 | P |
| Selenium | 10.00 | 5000.0 | P |

Comments: _____

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002Method: AS

| EPA Sample No. | Preparation Date | Initial Weight (α) | Volume (mL) |
|-------------------|---------------------|--------------------------------|----------------|
| AJAXPDSSD06 | 7/30/2003 | 1.07 | 50.0 |
| AJAXSTPSD04 | 7/30/2003 | 1.32 | 50.0 |
| AJAXSTRSD04 | 7/30/2003 | 1.09 | 50.0 |
| AJAXSTSSD52 | 7/30/2003 | 1.08 | 50.0 |
| GRANSTPSD54 | 7/30/2003 | 1.21 | 50.0 |
| GRANSTRSD53 | 7/30/2003 | 1.03 | 50.0 |
| GRANSTRSD54 | 7/30/2003 | 1.05 | 50.0 |
| ICV | 7/30/2003 | 50.0 | 50.0 |
| LCS0730B | 7/30/2003 | 1.00 | 50.0 |
| LCSD0730B | 7/30/2003 | 1.00 | 50.0 |
| MAGNPDSSD11 | 7/30/2003 | 1.10 | 50.0 |
| MAGNSTPSD01 | 7/30/2003 | 1.03 | 50.0 |
| MAGNSTPSD03 | 7/30/2003 | 1.13 | 50.0 |
| PBS0730B | 7/30/2003 | 1.00 | 50.0 |

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002Method: AS

| EPA Sample No. | Preparation Date | Initial Weight (α) | Volume (mL) |
|-------------------|---------------------|--------------------------------|----------------|
| GRANSTPSD53 | 7/31/2003 | 1.11 | 50.0 |
| GRANSTPSD53D | 7/31/2003 | 1.10 | 50.0 |
| GRANSTPSD53S | 7/31/2003 | 1.11 | 50.0 |
| ICV | 7/31/2003 | 50.0 | 50.0 |
| LCSD0731C | 7/31/2003 | 1.00 | 50.0 |
| PBS0731C | 7/31/2003 | 1.07 | 50.0 |

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002Method: AS

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|-------------------|---------------------|----------------------|----------------|
| BLUESTPSD05 | 8/1/2003 | 1.16 | 50.0 |
| BLUESTPSD05100 | 8/1/2003 | 1.33 | 50.0 |
| ICV | 8/1/2003 | 50.0 | 50.0 |
| LCS0801A | 8/1/2003 | 1.00 | 50.0 |
| LCSD0801A | 8/1/2003 | 1.00 | 50.0 |
| PBS0801A | 8/1/2003 | 1.02 | 50.0 |

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002Method: AS

| EPA Sample No. | Preparation Date | Initial Weight (α) | Volume (mL) |
|-------------------|---------------------|--------------------------------|----------------|
| BLUESTPSD06 | 8/1/2003 | 1.02 | 50.0 |
| BLUESTPSD07 | 8/1/2003 | 1.03 | 50.0 |
| BLUESTPSD08 | 8/1/2003 | 1.11 | 50.0 |
| BLUSTRSD08 | 8/1/2003 | 1.06 | 50.0 |
| ICV | 8/1/2003 | 50.0 | 50.0 |
| LCS0801B | 8/1/2003 | 1.00 | 50.0 |
| LCSD0801B | 8/1/2003 | 1.00 | 50.0 |
| PBS0801B | 8/1/2003 | 1.01 | 50.0 |

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002Method: CV

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|-------------------|---------------------|----------------------|----------------|
| AJAXPDSSD06 | 8/8/2003 | 0.67 | 100.0 |
| AJAXSTPSD04 | 8/8/2003 | 0.60 | 100.0 |
| AJAXSTRSD04 | 8/8/2003 | 0.62 | 100.0 |
| AJAXSTSSD52 | 8/8/2003 | 0.62 | 100.0 |
| GRANSTPSD53 | 8/8/2003 | 0.61 | 100.0 |
| GRANSTPSD53D | 8/8/2003 | 0.61 | 100.0 |
| GRANSTPSD53S | 8/8/2003 | 0.64 | 100.0 |
| GRANSTPSD54 | 8/8/2003 | 0.66 | 100.0 |
| GRANSTRSD53 | 8/8/2003 | 0.64 | 100.0 |
| GRANSTRSD54 | 8/8/2003 | 0.60 | 100.0 |
| LCSS0808B | 8/8/2003 | 1.00 | 100.0 |
| MAGNPDSSD11 | 8/8/2003 | 0.62 | 100.0 |
| MAGNSTPSD01 | 8/8/2003 | 0.68 | 100.0 |
| MAGNSTPSD02 | 8/8/2003 | 0.63 | 100.0 |
| MAGNSTPSD03 | 8/8/2003 | 0.66 | 100.0 |
| PBS0808B | 8/8/2003 | 0.60 | 100.0 |

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002Method: CV

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|-------------------|---------------------|----------------------|----------------|
| BLUESTPSD05 | 8/13/2003 | 0.64 | 100.0 |
| BLUESTPSD05100 | 8/13/2003 | 0.66 | 100.0 |
| BLUESTPSD06 | 8/13/2003 | 0.64 | 100.0 |
| BLUESTPSD07 | 8/13/2003 | 0.61 | 100.0 |
| BLUESTPSD08 | 8/13/2003 | 0.67 | 100.0 |
| BLUSTRSD08 | 8/13/2003 | 0.60 | 100.0 |
| LCSDS0813A | 8/13/2003 | 1.00 | 100.0 |
| LCSS0813A | 8/13/2003 | 1.00 | 100.0 |
| PBS0813A | 8/13/2003 | 0.60 | 100.0 |

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002Method: P

| EPA Sample No. | Preparation Date | Initial Weight (g) | Volume (mL) |
|-------------------|---------------------|-----------------------|----------------|
| BLUESTPSD05 | 8/16/2003 | 1.24 | 100.0 |
| BLUESTPSD05100 | 8/16/2003 | 1.36 | 100.0 |
| BLUESTPSD06 | 8/16/2003 | 1.11 | 100.0 |
| BLUESTPSD07 | 8/16/2003 | 1.30 | 100.0 |
| BLUESTPSD08 | 8/16/2003 | 1.25 | 100.0 |
| BLUSTRSD08 | 8/16/2003 | 1.18 | 100.0 |
| LCSDS0816A | 8/16/2003 | 1.00 | 100.0 |
| LCSS0816A | 8/16/2003 | 1.00 | 100.0 |
| PBS0816A | 8/16/2003 | 1.00 | 100.0 |

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002Method: P

| EPA Sample No. | Preparation Date | Initial Weight (g) | Volume (mL) |
|-------------------|---------------------|-----------------------|----------------|
| AJAXPDSSD06 | 8/16/2003 | 1.19 | 100.0 |
| AJAXSTPSD04 | 8/16/2003 | 1.11 | 100.0 |
| AJAXSTRSD04 | 8/16/2003 | 1.17 | 100.0 |
| AJAXSTSSD52 | 8/16/2003 | 1.25 | 100.0 |
| GRANSTPSD53 | 8/16/2003 | 1.33 | 100.0 |
| GRANSTPSD53D | 8/16/2003 | 1.19 | 100.0 |
| GRANSTPSD53S | 8/16/2003 | 1.15 | 100.0 |
| GRANSTPSD54 | 8/16/2003 | 1.21 | 100.0 |
| GRANSTRSD53 | 8/16/2003 | 1.28 | 100.0 |
| GRANSTRSD54 | 8/16/2003 | 1.35 | 100.0 |
| LCSS0816C | 8/16/2003 | 1.00 | 100.0 |
| MAGNPDSSD11 | 8/16/2003 | 1.32 | 100.0 |
| MAGNSTPSD01 | 8/16/2003 | 1.35 | 100.0 |
| MAGNSTPSD02 | 8/16/2003 | 1.23 | 100.0 |
| MAGNSTPSD03 | 8/16/2003 | 1.23 | 100.0 |
| PBS0816C | 8/16/2003 | 1.00 | 100.0 |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCD002Instrument ID Number: Lachat Cyanide QC8000Method: ASStart Date: 7/30/2003End Date: 7/30/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V L | Z N | C N | | | | |
| S0 | 1.00 | 1650 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| S10 | 1.00 | 1651 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| S30 | 1.00 | 1652 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| S50 | 1.00 | 1653 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| S100 | 1.00 | 1654 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| S200 | 1.00 | 1655 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| S300 | 1.00 | 1656 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| ICV | 1.00 | 1658 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| ICB | 1.00 | 1659 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| LRS | 1.00 | 1700 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| LRS | 1.00 | 1701 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| CCV | 1.00 | 1702 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| CCB | 1.00 | 1703 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| ZZZZZZ | 1.00 | 1704 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PBS0730B | 1.00 | 1705 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| LCS0730B | 1.00 | 1706 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| ZZZZZZ | 1.00 | 1707 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1708 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1709 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1710 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1711 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1711 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1712 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1713 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| CCB | 1.00 | 1714 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| ZZZZZZ | 1.00 | 1715 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1716 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AJAXSTPSD04 | 1.00 | 1717 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| AJAXPDSSD06 | 1.00 | 1718 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| AJAXSTRSD04 | 1.00 | 1719 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| AJAXSTSSD52 | 1.00 | 1720 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| GRANSTRSD54 | 1.00 | 1721 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| GRANSTPSD54 | 1.00 | 1722 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| MAGNSTPSD03 | 1.00 | 1723 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| MAGNPDSSD11 | 1.00 | 1724 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| CCV | 1.00 | 1725 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| CCB | 1.00 | 1726 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| MAGNSTPSD02 | 1.00 | 1727 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |

USEPA - CLP
14
ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002
 Instrument ID Number: Lachat Cyanide QC8000 Method: AS
 Start Date: 7/30/2003 End Date: 7/30/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K I | S E | A G | N A | T L | V L | Z N | C N | | |
| MAGNSTPSD01 | 1.00 | 1728 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| GRANSTRSD53 | 1.00 | 1729 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| LCSD0730B | 1.00 | 1730 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| CCV | 1.00 | 1731 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| CCB | 1.00 | 1732 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002
 Instrument ID Number: Lachat Cyanide QC8000 Method: AS
 Start Date: 7/31/2003 End Date: 7/31/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|---|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C F | F E | P B | M G | M N | H G | N I | K E | S G | A A | N L | T L | V L | Z N | C N | | | | |
| S0 | 1.00 | 1728 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S10 | 1.00 | 1729 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S30 | 1.00 | 1730 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S50 | 1.00 | 1731 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S100 | 1.00 | 1732 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S200 | 1.00 | 1733 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S300 | 1.00 | 1734 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ICV | 1.00 | 1735 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ICB | 1.00 | 1736 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LRS | 1.00 | 1737 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LRS | 1.00 | 1738 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCV | 1.00 | 1739 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1740 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZZ | 1.00 | 1741 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PBS0731C | 1.00 | 1742 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LCSD0731C | 1.00 | 1743 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| GRANSTPSD53 | 1.00 | 1744 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| GRANSTPSD53D | 1.00 | 1745 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| GRANSTPSD53S | 1.00 | 1746 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZZ | 1.00 | 1747 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1748 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1749 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1750 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1751 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1752 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZZ | 1.00 | 1753 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1754 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1755 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1756 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1757 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1758 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1759 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1800 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1801 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1802 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1803 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1803 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| GRANSTPSD53A | 1.00 | 1804 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002
 Instrument ID Number: Lachat Cyanide QC8000 Method: AS
 Start Date: 7/31/2003 End Date: 7/31/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|------|------|-----|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|--|--|--|
| | | | | A | S | A | B | B | C | C | C | C | F | P | M | M | H | N | K | S | A | N | T | V | Z | C | | | | | |
| | | | | L | B | S | A | E | D | A | R | O | U | E | B | G | N | G | I | E | G | A | L | N | N | | | | | | |
| ZZZZZZ | 1.00 | 1805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1806 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1807 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| CCB | 1.00 | 1808 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002
 Instrument ID Number: Lachat Cyanide QC8000 Method: AS
 Start Date: 8/1/2003 End Date: 8/1/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|---|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | A L | N T | T V | Z N | C N | | | | |
| S0 | 1.00 | 1352 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S10 | 1.00 | 1353 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S30 | 1.00 | 1354 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S50 | 1.00 | 1355 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S100 | 1.00 | 1356 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S200 | 1.00 | 1357 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S300 | 1.00 | 1358 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ICV | 1.00 | 1400 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ICB | 1.00 | 1401 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LRS | 1.00 | 1402 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LRS | 1.00 | 1403 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCV | 1.00 | 1404 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1405 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZZ | 1.00 | 1406 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PBS0801A | 1.00 | 1407 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LCS0801A | 1.00 | 1408 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LCSD0801A | 1.00 | 1409 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZZ | 1.00 | 1410 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1411 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1412 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1413 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1414 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1414 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1415 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1416 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZZ | 1.00 | 1417 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1418 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1419 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1420 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1421 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1422 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1423 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1424 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1425 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1426 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1427 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1428 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZZ | 1.00 | 1429 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002
 Instrument ID Number: Lachat Cyanide QC8000 Method: AS
 Start Date: 8/1/2003 End Date: 8/1/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V | Z N | C N | | |
| ZZZZZZ | 1.00 | 1430 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLUESTPSD05 | 1.00 | 1431 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLUESTPSD05100 | 1.00 | 1432 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCV | 1.00 | 1433 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1434 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002
 Instrument ID Number: Lachat Cyanide QC8000 Method: AS
 Start Date: 8/1/2003 End Date: 8/1/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V L | Z N | C N | | | | |
| S0 | 1.00 | 1707 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| S10 | 1.00 | 1708 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| S30 | 1.00 | 1709 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| S50 | 1.00 | 1710 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| S100 | 1.00 | 1711 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| S200 | 1.00 | 1712 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| S300 | 1.00 | 1713 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| ICV | 1.00 | 1715 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| ICB | 1.00 | 1716 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| LRS | 1.00 | 1717 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| LRS | 1.00 | 1718 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| CCV | 1.00 | 1719 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| CCB | 1.00 | 1720 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| ZZZZZZ | 1.00 | 1721 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PBS0801B | 1.00 | 1722 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| LCS0801B | 1.00 | 1723 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| LCSD0801B | 1.00 | 1724 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| ZZZZZZ | 1.00 | 1724 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1725 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1726 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1727 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1728 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1729 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1730 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| CCB | 1.00 | 1731 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| ZZZZZZ | 1.00 | 1732 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1733 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1734 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1735 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLUESTPSD06 | 1.00 | 1736 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| BLUESTRSD08 | 1.00 | 1737 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| BLUESTPSD08 | 1.00 | 1738 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| BLUESTPSD07 | 1.00 | 1739 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| ZZZZZZ | 1.00 | 1740 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1741 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1742 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| CCB | 1.00 | 1743 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCD002Instrument ID Number: TJA ICAP 6Method: PStart Date: 8/30/2003End Date: 8/30/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|--------|--------|---|--------|--------|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K | S E | A G | N A | T L | V | Z N | C N | | |
| S0 | 1.00 | 0107 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| S | 1.00 | 0111 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S | 1.00 | 0114 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| S | 1.00 | 0118 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LRS | 1.00 | 0123 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| LRS | 1.00 | 0127 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| LRS | 1.00 | 0131 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| ICV | 1.00 | 0135 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| ICB | 1.00 | 0139 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| ICSA | 1.00 | 0143 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| ICSAB | 1.00 | 0147 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| CRI | 1.00 | 0152 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| CCV | 1.00 | 0156 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| CCB | 1.00 | 0200 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| PBS0816C | 1.00 | 0204 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| LCSS0816C | 1.00 | 0208 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| AJAXSTPSD04 | 1.00 | 0212 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| AJAXPDSSD06 | 1.00 | 0216 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| AJAXSTRSD04 | 1.00 | 0220 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| AJAXSTSSD52 | 1.00 | 0224 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| GRANSTRSD54 | 1.00 | 0228 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| GRANSTPSD54 | 1.00 | 0233 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| MAGNSTPSD03 | 1.00 | 0237 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| MAGNPDSSD11 | 1.00 | 0241 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| CCV | 1.00 | 0245 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| CCB | 1.00 | 0249 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| MAGNSTPSD02 | 1.00 | 0253 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| MAGNSTPSD01 | 1.00 | 0257 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| GRANSTPSD53 | 1.00 | 0301 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| GRANSTPSD53L | 5.00 | 0305 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| GRANSTPSD53A | 1.00 | 0310 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| GRANSTPSD53D | 1.00 | 0314 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| GRANSTPSD53S | 1.00 | 0318 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| GRANSTRSD53 | 1.00 | 0322 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| PBS0816A | 1.00 | 0326 | | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| LCSS0816A | 1.00 | 0330 | | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| CCV | 1.00 | 0334 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |
| CCB | 1.00 | 0338 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | |

USEPA - CLP
14
ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002
 Instrument ID Number: TJA ICAP 6 Method: P
 Start Date: 8/30/2003 End Date: 8/30/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K I | S E | A G | N A | T L | V L | Z N | C N | | |
| LCSDS0816A | 1.00 | 0342 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| BLUESTPSD05 | 1.00 | 0346 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| BLUESTPSD05100 | 1.00 | 0350 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| BLUESTPSD06 | 1.00 | 0355 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| BLUESTRSD08 | 1.00 | 0359 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| BLUESTPSD08 | 1.00 | 0403 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| BLUESTPSD07 | 1.00 | 0407 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| ICSA | 1.00 | 0411 | | | | | | | | | | | X | | | | | | | | X | | | | | | | | |
| ICSAB | 1.00 | 0415 | | | | | | | | | | | X | | | | | | | | X | | | | | | | | |
| CRI | 1.00 | 0419 | | | | | | | | | | | X | | | | | | | | X | | | | | | | | |
| CCV | 1.00 | 0423 | | | | | | | | | | | X | | | | | | | | X | | | | | | | | |
| CCB | 1.00 | 0428 | | | | | | | | | | | X | | | | | | | | X | | | | | | | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002
 Instrument ID Number: TJA ICAP 4 Method: P
 Start Date: 9/7/2003 End Date: 9/7/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C F | F E | P B | M G | M N | H G | N I | K E | S E | A G | A L | T L | V L | Z N | C N | | | | |
| S0 | 1.00 | 1452 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| S | 1.00 | 1457 | | X | | | | | X | | | | X | X | | | | | X | | | X | | | | | | | | | |
| S | 1.00 | 1501 | | | X | X | | | | | | | X | | | | | | | | | | X | | | | | | | | |
| S | 1.00 | 1505 | | | | | X | X | X | | X | X | X | | | X | X | | | X | | | X | | | X | X | | | | |
| LRS | 1.00 | 1510 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| LRS | 1.00 | 1515 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| LRS | 1.00 | 1521 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICV | 1.00 | 1526 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICB | 1.00 | 1531 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICSA | 1.00 | 1536 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICSAB | 1.00 | 1541 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CRI | 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 | X | X | X | | | |
| CCV | 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 | X | X | X | | | |
| CCB | 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 | X | X | X | | | |
| PBS0816C | 1.00 | 1602 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| LCSS0816C | 1.00 | 1607 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| AJAXSTPSD04 | 1.00 | 1612 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| AJAXPDSSD06 | 1.00 | 1617 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| AJAXSTRSD04 | 1.00 | 1622 | | X | X | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| AJAXSTSSD52 | 1.00 | 1627 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| GRANSTRSD54 | 1.00 | 1632 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| GRANSTPSD54 | 1.00 | 1637 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| MAGNSTPSD03 | 1.00 | 1642 | | X | X | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| MAGNPDSSD11 | 1.00 | 1647 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCV | 1.00 | 1652 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCB | 1.00 | 1657 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| MAGNSTPSD02 | 1.00 | 1702 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| MAGNSTPSD01 | 1.00 | 1707 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| GRANSTPSD53 | 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 | X | X | X | | | |
| GRANSTPSD53L | 5.00 | 1717 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| GRANSTPSD53A | 1.00 | 1722 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| GRANSTPSD53D | 1.00 | 1727 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| GRANSTPSD53S | 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 | X | X | X | | | |
| GRANSTRSD53 | 1.00 | 1737 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| PBS0816A | 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 | X | X | X | | | |
| LCSS0816A | 1.00 | 1747 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCV | 1.00 | 1752 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCB | 1.00 | 1758 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD002
 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C F | F U | P E | M B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V L | Z N | C N | | | |
| S0 | 1.00 | 1016 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| S0.2 | 1.00 | 1018 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| S0.5 | 1.00 | 1019 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| S1 | 1.00 | 1021 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| S5 | 1.00 | 1023 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| S10 | 1.00 | 1025 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| ICV | 1.00 | 1027 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| ICB | 1.00 | 1029 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| CRA | 1.00 | 1031 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| CCV | 1.00 | 1033 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| CCB | 1.00 | 1035 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| PBS0808B | 1.00 | 1036 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| LCSS0808B | 1.00 | 1038 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1040 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1042 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1044 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1046 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1048 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1049 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1051 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1053 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| CCB | 1.00 | 1055 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1057 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1058 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AJAXSTPSD04 | 1.00 | 1102 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| AJAXPDSSD06 | 1.00 | 1104 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| AJAXSTRSD04 | 1.00 | 1105 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| AJAXSTSSD52 | 1.00 | 1107 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| GRANSTRSD54 | 1.00 | 1109 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| GRANSTPSD54 | 1.00 | 1111 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| CCV | 1.00 | 1113 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| CCB | 1.00 | 1115 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| MAGNSTPSD03 | 1.00 | 1116 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| MAGNPDSSD11 | 1.00 | 1118 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| MAGNSTPSD02 | 1.00 | 1120 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| MAGNSTPSD01 | 1.00 | 1122 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| GRANSTPSD53 | 1.00 | 1124 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |

SEVERN
TRENT

STL

**Geotechnical Analysis
Sample Data Summary Package**

EASEAT SDG # ECD002

Particle Size of Soils by ASTM D422

Sample preparation method: D2217

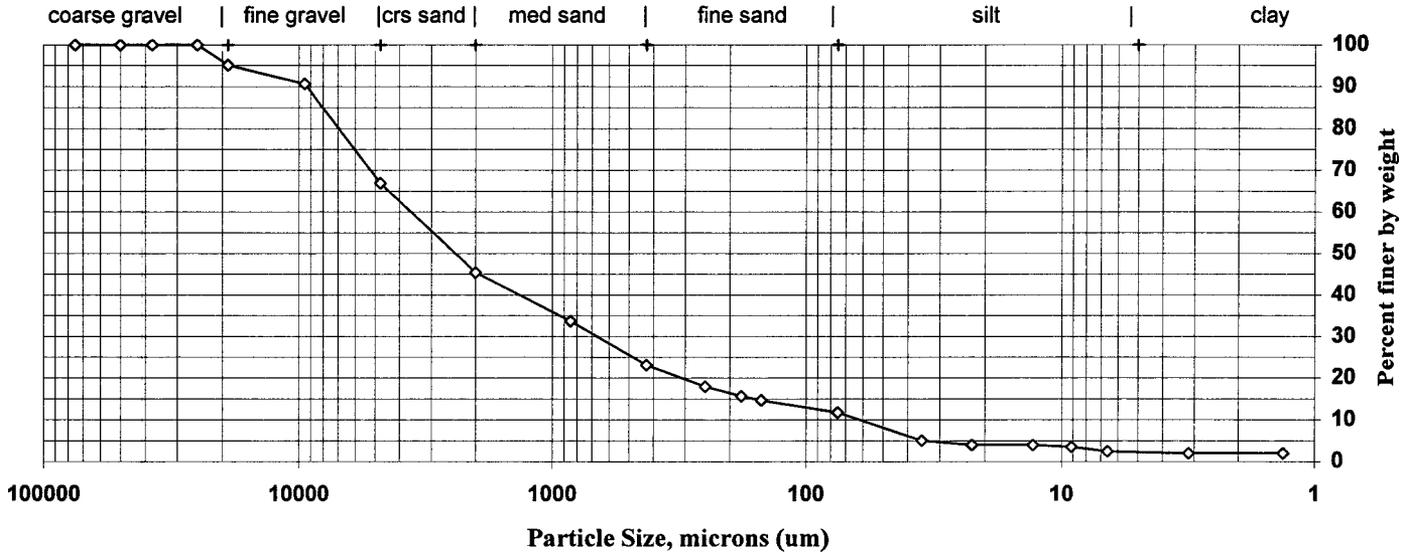
Client: EASEAT
 Client Code: EASEAT
 Date Received: 22-Jul-03

Project No.: 23046
 Job No.: N/A
 Start Date: 04-Aug-03

ETR(s) #: 94941
 SDG(s): GCD002
 End Date: 15-Aug-03

Lab ID: 535363 Sample ID: PSD04

Percent Solids: 83.8% Maximum Particle Size: 25 mm
 Specific Gravity: 2.65 (assumed) Shape (> #10): angular
 Non-soil mass: 0.1% Hardness (> #10): hard



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 95.1 | 4.9 |
| 3/8 inch | 9500 | 90.7 | 4.4 |
| #4 | 4750 | 66.9 | 23.8 |
| #10 | 2000 | 45.4 | 21.4 |
| #20 | 850 | 33.7 | 11.8 |
| #40 | 425 | 23.1 | 10.6 |
| #60 | 250 | 18.0 | 5.1 |
| #80 | 180 | 15.7 | 2.3 |
| #100 | 150 | 14.7 | 1.0 |
| #200 | 75 | 11.8 | 2.9 |
| Hydrometer | 35.2 | 5.0 | 6.8 |
| | 22.4 | 4.0 | 1.1 |
| | 13.0 | 4.0 | 0.0 |
| | 9.1 | 3.5 | 0.4 |
| | 6.6 | 2.4 | 1.1 |
| | 3.1 | 2.0 | 0.4 |
| V | 1.3 | 2.0 | 0.0 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 33.1 |
| Sand | 55.1 |
| Coarse Sand | 21.4 |
| Medium Sand | 22.4 |
| Fine Sand | 11.3 |
| Silt | 9.4 |
| Clay | 2.4 |

Dispersion Device: Mechanical mixer with a metal paddle.
 Dispersion Period: 1 minute

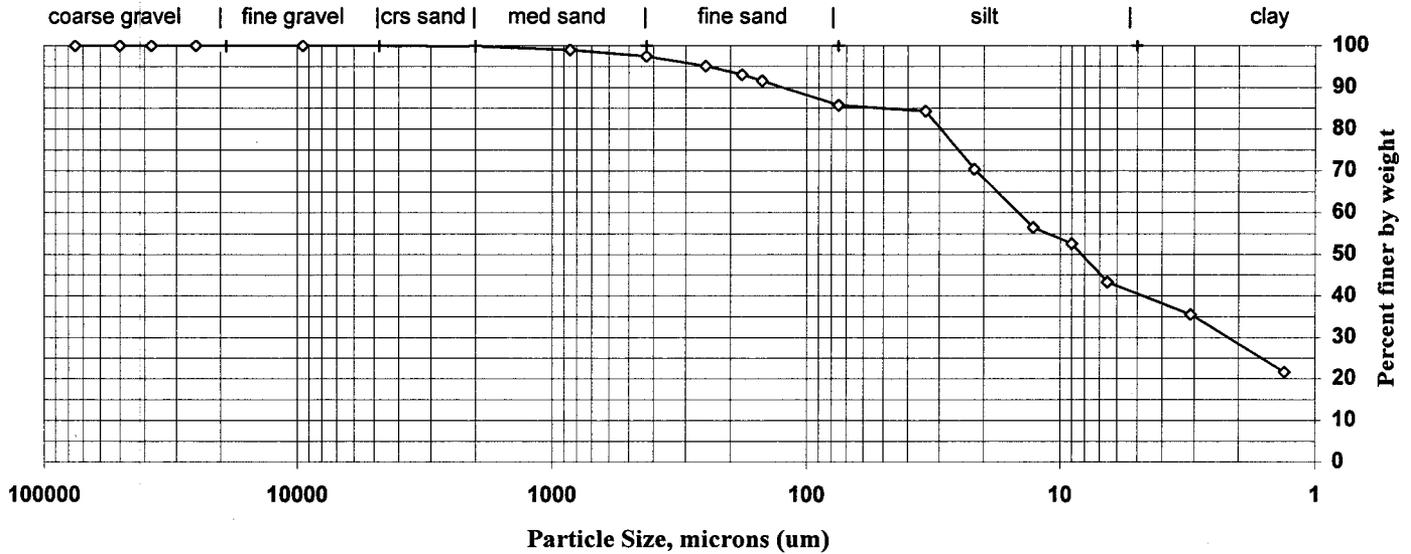
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|----------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>94941</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD002</u> |
| Date Received: <u>22-Jul-03</u> | Start Date: <u>04-Aug-03</u> | End Date: <u>15-Aug-03</u> |

| | |
|----------------|------------------|
| Lab ID: 535364 | Sample ID: SSD06 |
|----------------|------------------|

| | |
|---|--|
| Percent Solids: <u>32.8%</u> | Maximum Particle Size: <u>Crs sand</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>subrounded</u> |
| Non-soil mass: <u>0.9%</u> | Hardness (> #10): <u>soft</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 100.0 | 0.0 |
| #4 | 4750 | 100.0 | 0.0 |
| #10 | 2000 | 99.9 | 0.1 |
| #20 | 850 | 99.0 | 0.9 |
| #40 | 425 | 97.5 | 1.5 |
| #60 | 250 | 95.1 | 2.4 |
| #80 | 180 | 93.1 | 2.0 |
| #100 | 150 | 91.6 | 1.4 |
| #200 | 75 | 85.7 | 5.9 |
| Hydrometer | 33.9 | 84.3 | 1.4 |
| | 21.8 | 70.4 | 13.9 |
| | 12.8 | 56.5 | 13.9 |
| | 9.0 | 52.6 | 3.9 |
| | 6.5 | 43.3 | 9.3 |
| | 3.1 | 35.6 | 7.7 |
| V | 1.3 | 21.7 | 13.9 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 0.0 |
| Sand | 14.3 |
| Coarse Sand | 0.1 |
| Medium Sand | 2.4 |
| Fine Sand | 11.8 |
| Silt | 42.4 |
| Clay | 43.3 |

Dispersion Device: Mechanical mixer with a metal paddle.
 Dispersion Period: 1 minute

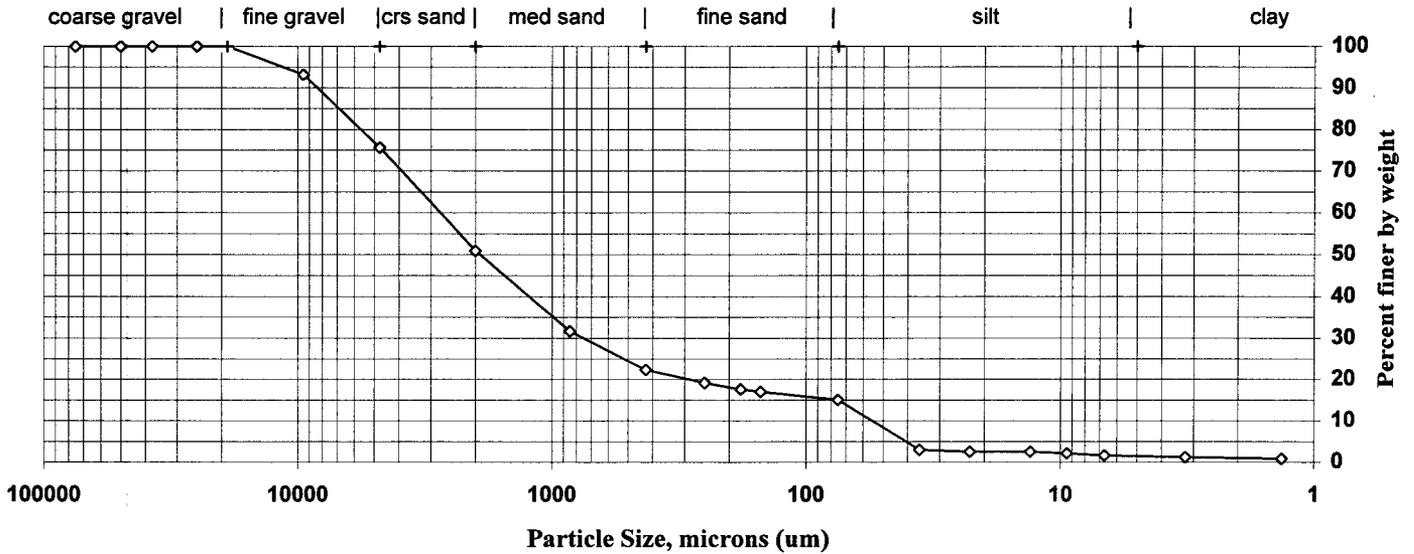
Particle Size of Soils by ASTM D422

Sample preparation method: **D2217**

| | | |
|---------------------------------|------------------------------|----------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>94941</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD002</u> |
| Date Received: <u>22-Jul-03</u> | Start Date: <u>04-Aug-03</u> | End Date: <u>15-Aug-03</u> |

| | |
|----------------|------------------|
| Lab ID: 535365 | Sample ID: RSD04 |
|----------------|------------------|

| | |
|---|-------------------------------------|
| Percent Solids: <u>83.7%</u> | Maximum Particle Size: <u>19 mm</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>angular</u> |
| Non-soil mass: <u>0.1%</u> | Hardness (> #10): <u>hard</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 93.2 | 6.8 |
| #4 | 4750 | 75.6 | 17.6 |
| #10 | 2000 | 50.9 | 24.7 |
| #20 | 850 | 31.6 | 19.3 |
| #40 | 425 | 22.3 | 9.3 |
| #60 | 250 | 19.2 | 3.1 |
| #80 | 180 | 17.7 | 1.5 |
| #100 | 150 | 17.1 | 0.6 |
| #200 | 75 | 15.0 | 2.0 |
| Hydrometer | 35.9 | 3.0 | 12.0 |
| | 22.8 | 2.5 | 0.5 |
| | 13.2 | 2.5 | 0.0 |
| | 9.4 | 2.1 | 0.4 |
| | 6.7 | 1.6 | 0.5 |
| | 3.2 | 1.2 | 0.4 |
| V | 1.3 | 0.8 | 0.4 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 24.4 |
| Sand | 60.6 |
| Coarse Sand | 24.7 |
| Medium Sand | 28.6 |
| Fine Sand | 7.3 |
| Silt | 13.4 |
| Clay | 1.6 |

Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Sample preparation method: D2217

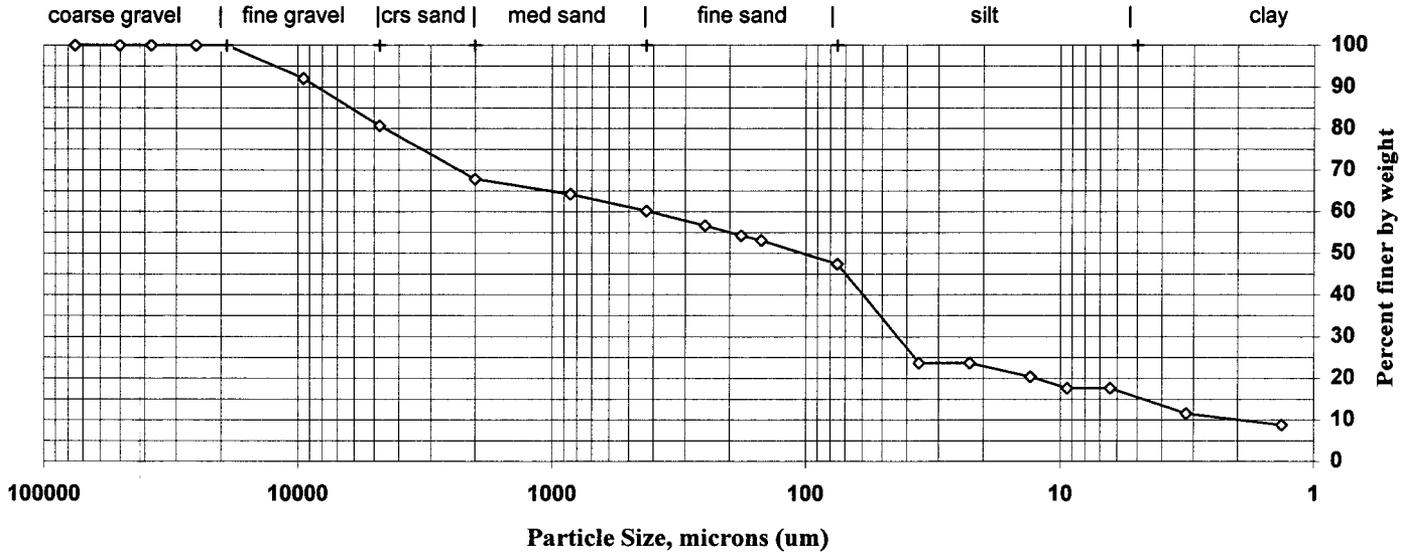
Client: EASEAT
 Client Code: EASEAT
 Date Received: 22-Jul-03

Project No.: 23046
 Job No.: N/A
 Start Date: 04-Aug-03

ETR(s) #: 94941
 SDG(s): GCD002
 End Date: 15-Aug-03

Lab ID: 535366 Sample ID: SSD52

Percent Solids: 26.6% Maximum Particle Size: 19 mm
 Specific Gravity: 2.65 (assumed) Shape (> #10): angular
 Non-soil mass: 7.0% Hardness (> #10): hard



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 92.1 | 7.9 |
| #4 | 4750 | 80.7 | 11.4 |
| #10 | 2000 | 67.8 | 12.8 |
| #20 | 850 | 64.2 | 3.6 |
| #40 | 425 | 60.2 | 4.0 |
| #60 | 250 | 56.6 | 3.6 |
| #80 | 180 | 54.2 | 2.4 |
| #100 | 150 | 53.0 | 1.2 |
| #200 | 75 | 47.4 | 5.6 |
| Hydrometer | 35.7 | 23.7 | 23.7 |
| | 22.6 | 23.7 | 0.0 |
| | 13.1 | 20.4 | 3.3 |
| | 9.4 | 17.6 | 2.8 |
| | 6.4 | 17.6 | 0.0 |
| | 3.2 | 11.6 | 6.1 |
| V | 1.3 | 8.8 | 2.8 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 19.3 |
| Sand | 33.3 |
| Coarse Sand | 12.8 |
| Medium Sand | 7.6 |
| Fine Sand | 12.8 |
| Silt | 29.8 |
| Clay | 17.6 |

Dispersion Device: Mechanical mixer with a metal paddle.
 Dispersion Period: 1 minute

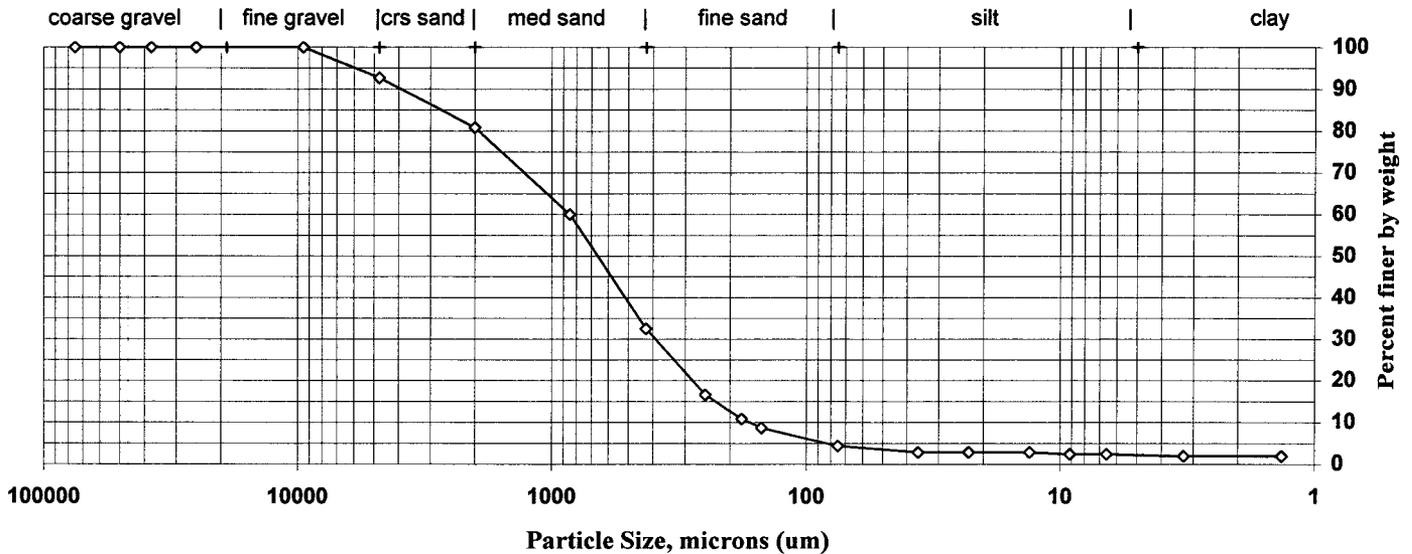
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|----------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>94941</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD002</u> |
| Date Received: <u>22-Jul-03</u> | Start Date: <u>04-Aug-03</u> | End Date: <u>15-Aug-03</u> |

| | |
|----------------|------------------|
| Lab ID: 535367 | Sample ID: RSD54 |
|----------------|------------------|

| | |
|---|--------------------------------------|
| Percent Solids: <u>81.2%</u> | Maximum Particle Size: <u>9.5 mm</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>angular</u> |
| Non-soil mass: <u>0.1%</u> | Hardness (> #10): <u>hard</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 100.0 | 0.0 |
| #4 | 4750 | 92.6 | 7.4 |
| #10 | 2000 | 80.8 | 11.8 |
| #20 | 850 | 60.0 | 20.8 |
| #40 | 425 | 32.5 | 27.5 |
| #60 | 250 | 16.6 | 15.9 |
| #80 | 180 | 10.9 | 5.7 |
| #100 | 150 | 8.8 | 2.1 |
| #200 | 75 | 4.4 | 4.4 |
| Hydrometer | 36.0 | 2.8 | 1.5 |
| | 22.8 | 2.8 | 0.0 |
| | 13.2 | 2.8 | 0.0 |
| | 9.1 | 2.4 | 0.5 |
| | 6.6 | 2.4 | 0.0 |
| | 3.3 | 1.9 | 0.5 |
| V | 1.3 | 1.9 | 0.0 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 7.4 |
| Sand | 88.3 |
| Coarse Sand | 11.8 |
| Medium Sand | 48.3 |
| Fine Sand | 28.1 |
| Silt | 2.0 |
| Clay | 2.4 |

Dispersion Device: Mechanical mixer with a metal paddle.
 Dispersion Period: 1 minute

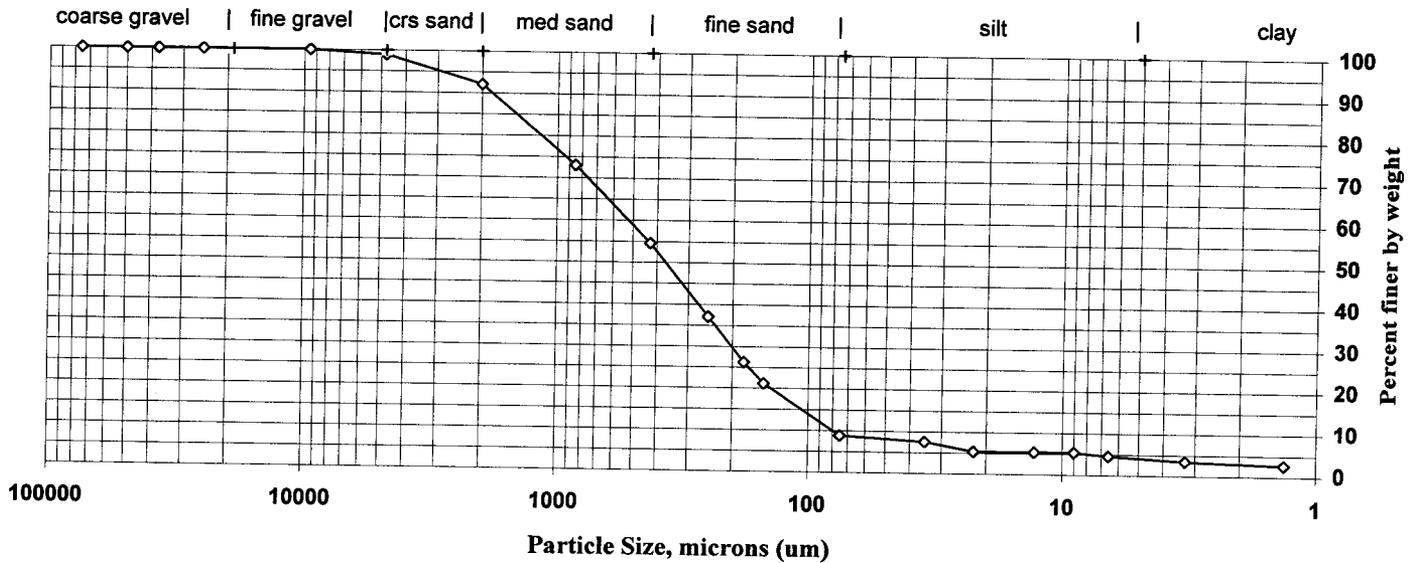
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|----------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>94941</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD002</u> |
| Date Received: <u>22-Jul-03</u> | Start Date: <u>04-Aug-03</u> | End Date: <u>15-Aug-03</u> |

| | |
|----------------|------------------|
| Lab ID: 535368 | Sample ID: PSD54 |
|----------------|------------------|

| | |
|---|--------------------------------------|
| Percent Solids: <u>70.4%</u> | Maximum Particle Size: <u>9.5 mm</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>angular</u> |
| Non-soil mass: <u>0.1%</u> | Hardness (> #10): <u>hard</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 100.0 | 0.0 |
| #4 | 4750 | 98.9 | 1.1 |
| #10 | 2000 | 92.1 | 6.9 |
| #20 | 850 | 73.0 | 19.1 |
| #40 | 425 | 54.6 | 18.4 |
| #60 | 250 | 37.1 | 17.5 |
| #80 | 180 | 26.2 | 10.9 |
| #100 | 150 | 21.2 | 5.0 |
| #200 | 75 | 8.9 | 12.3 |
| Hydrometer | 35.0 | 7.5 | 1.4 |
| | 22.4 | 5.4 | 2.2 |
| | 13.0 | 5.4 | 0.0 |
| | 9.0 | 5.4 | 0.0 |
| | 6.6 | 4.6 | 0.7 |
| | 3.3 | 3.4 | 1.2 |
| V | 1.3 | 2.7 | 0.7 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 1.1 |
| Sand | 90.0 |
| Coarse Sand | 6.9 |
| Medium Sand | 37.5 |
| Fine Sand | 45.7 |
| Silt | 4.3 |
| Clay | 4.6 |

Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Sample preparation method: D2217

Client: EASEAT
 Client Code: EASEAT
 Date Received: 22-Jul-03

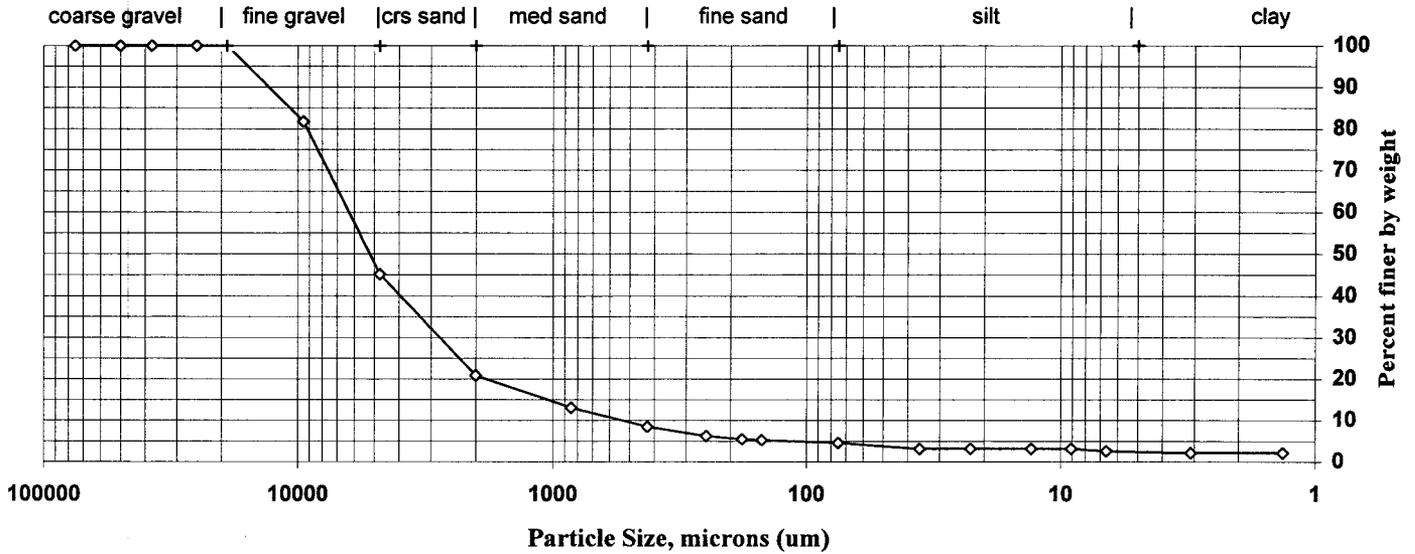
Project No.: 23046
 Job No.: N/A
 Start Date: 04-Aug-03

ETR(s) #: 94941
 SDG(s): GCD002
 End Date: 15-Aug-03

Lab ID: 535369Sample ID: PSD03

Percent Solids: 87.1%
 Specific Gravity: 2.65 (assumed)
 Non-soil mass: 0.0%

Maximum Particle Size: 19 mm
 Shape (> #10): angular
 Hardness (> #10): hard



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 81.7 | 18.3 |
| #4 | 4750 | 45.2 | 36.5 |
| #10 | 2000 | 20.8 | 24.3 |
| #20 | 850 | 13.1 | 7.8 |
| #40 | 425 | 8.5 | 4.6 |
| #60 | 250 | 6.3 | 2.2 |
| #80 | 180 | 5.5 | 0.8 |
| #100 | 150 | 5.3 | 0.3 |
| #200 | 75 | 4.6 | 0.6 |
| Hydrometer | 35.8 | 3.2 | 1.5 |
| | 22.6 | 3.2 | 0.0 |
| | 13.1 | 3.2 | 0.0 |
| | 9.1 | 3.2 | 0.0 |
| | 6.6 | 2.6 | 0.6 |
| | 3.1 | 2.2 | 0.4 |
| V | 1.3 | 2.2 | 0.0 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 54.8 |
| Sand | 40.6 |
| Coarse Sand | 24.3 |
| Medium Sand | 12.4 |
| Fine Sand | 3.8 |
| Silt | 2.0 |
| Clay | 2.6 |

Dispersion Device: Mechanical mixer with a metal paddle.
 Dispersion Period: 1 minute

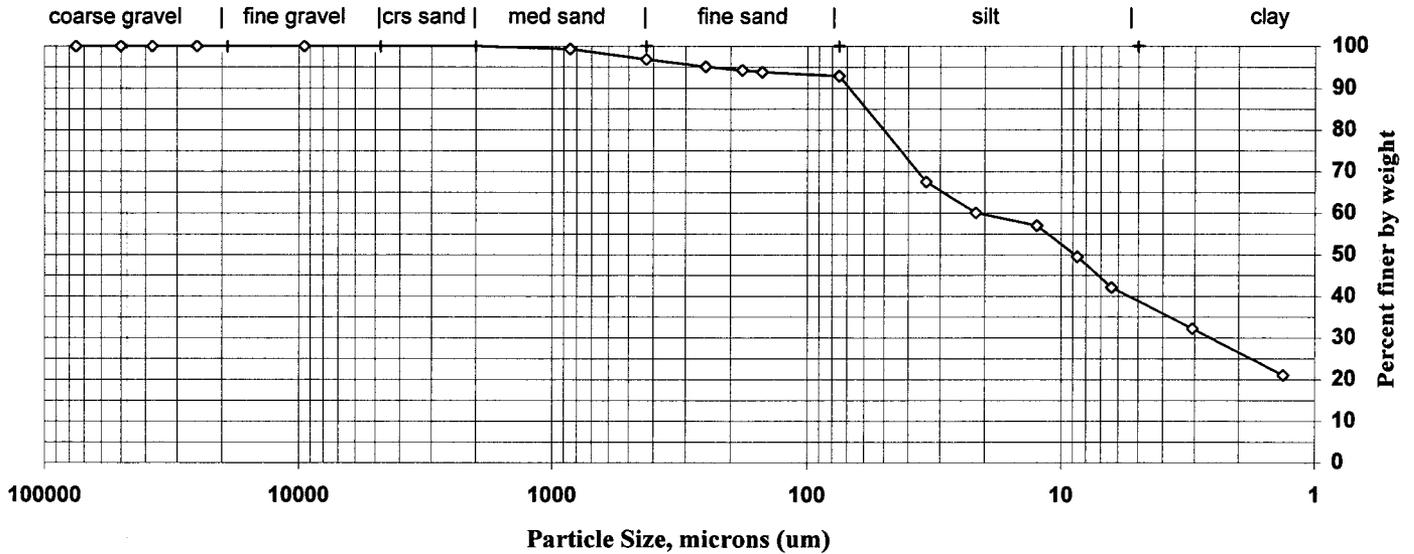
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|----------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>94941</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD002</u> |
| Date Received: <u>22-Jul-03</u> | Start Date: <u>04-Aug-03</u> | End Date: <u>15-Aug-03</u> |

| | |
|----------------|------------------|
| Lab ID: 535370 | Sample ID: SSD11 |
|----------------|------------------|

| | |
|---|--|
| Percent Solids: <u>21.9%</u> | Maximum Particle Size: <u>Med sand</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>N/A</u> |
| Non-soil mass: <u>0.3%</u> | Hardness (> #10): <u>N/A</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 100.0 | 0.0 |
| #4 | 4750 | 100.0 | 0.0 |
| #10 | 2000 | 100.0 | 0.0 |
| #20 | 850 | 99.3 | 0.7 |
| #40 | 425 | 96.9 | 2.5 |
| #60 | 250 | 95.1 | 1.7 |
| #80 | 180 | 94.3 | 0.9 |
| #100 | 150 | 93.8 | 0.4 |
| #200 | 75 | 92.9 | 0.9 |
| Hydrometer | 33.9 | 67.5 | 25.4 |
| | 21.7 | 60.1 | 7.4 |
| | 12.5 | 57.0 | 3.1 |
| | 8.6 | 49.6 | 7.4 |
| | 6.4 | 42.1 | 7.4 |
| | 3.1 | 32.2 | 9.9 |
| V | 1.3 | 21.1 | 11.2 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 0.0 |
| Sand | 7.1 |
| Coarse Sand | 0.0 |
| Medium Sand | 3.1 |
| Fine Sand | 3.9 |
| Silt | 50.8 |
| Clay | 42.1 |

Dispersion Device: Mechanical mixer with a metal paddle.
 Dispersion Period: 1 minute

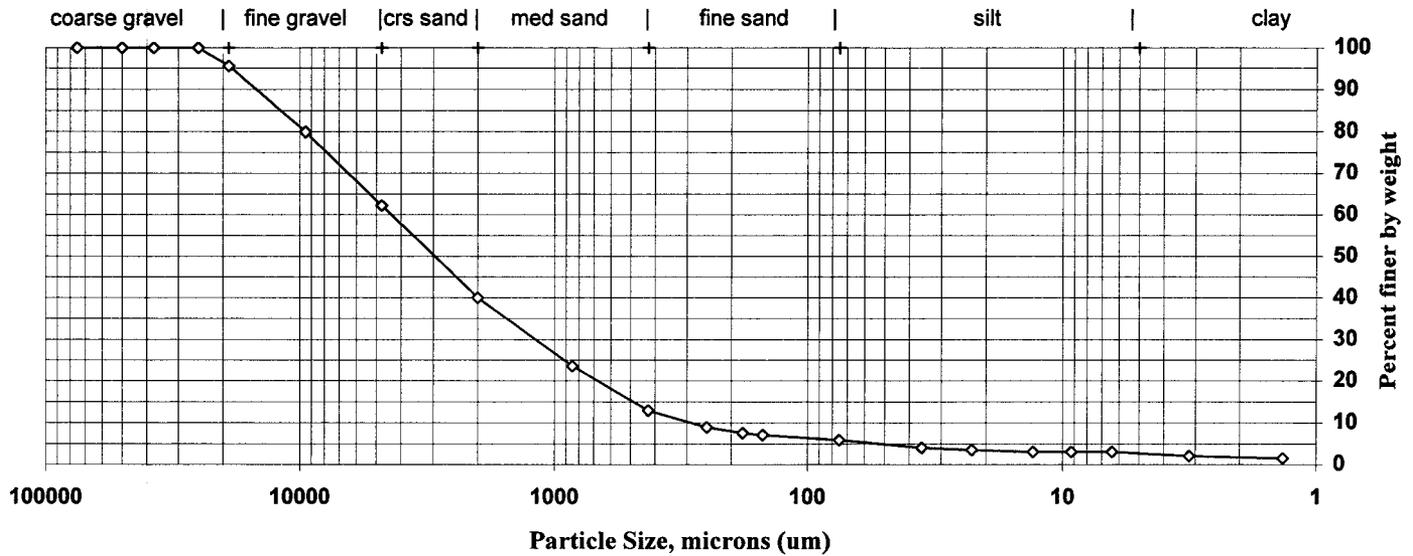
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|----------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>94941</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD002</u> |
| Date Received: <u>22-Jul-03</u> | Start Date: <u>04-Aug-03</u> | End Date: <u>15-Aug-03</u> |

| | |
|----------------|------------------|
| Lab ID: 535371 | Sample ID: PSD02 |
|----------------|------------------|

| | | |
|---|-------------------------------------|--|
| Percent Solids: <u>81.2%</u> | Maximum Particle Size: <u>25 mm</u> | |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>angular</u> | |
| Non-soil mass: <u>0.1%</u> | Hardness (> #10): <u>hard</u> | |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 95.5 | 4.5 |
| 3/8 inch | 9500 | 79.9 | 15.6 |
| #4 | 4750 | 62.2 | 17.7 |
| #10 | 2000 | 40.0 | 22.2 |
| #20 | 850 | 23.5 | 16.5 |
| #40 | 425 | 12.9 | 10.6 |
| #60 | 250 | 9.0 | 4.0 |
| #80 | 180 | 7.6 | 1.4 |
| #100 | 150 | 7.1 | 0.5 |
| #200 | 75 | 5.9 | 1.2 |
| Hydrometer | 35.7 | 4.1 | 1.9 |
| | 22.7 | 3.5 | 0.6 |
| | 13.1 | 3.0 | 0.5 |
| | 9.2 | 3.0 | 0.0 |
| | 6.4 | 3.0 | 0.0 |
| | 3.2 | 2.1 | 0.9 |
| V | 1.4 | 1.5 | 0.6 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 37.8 |
| Sand | 56.3 |
| Coarse Sand | 22.2 |
| Medium Sand | 27.1 |
| Fine Sand | 7.0 |
| Silt | 2.9 |
| Clay | 3.0 |

Dispersion Device: Mechanical mixer with a metal paddle.
 Dispersion Period: 1 minute

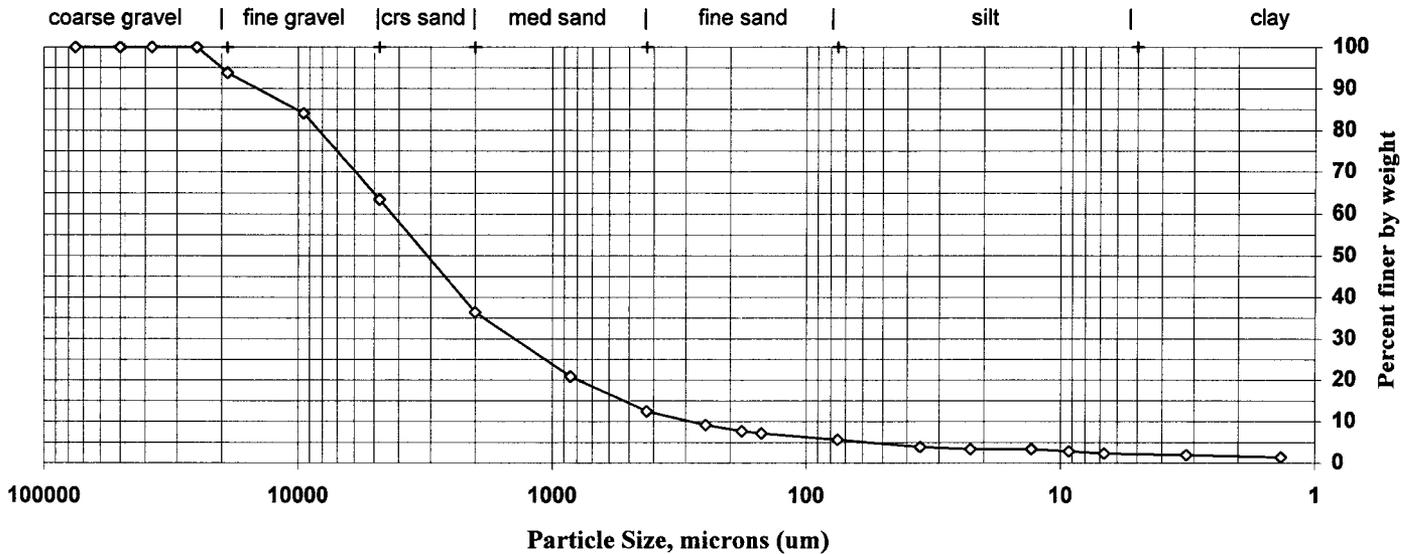
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|----------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>94941</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD002</u> |
| Date Received: <u>22-Jul-03</u> | Start Date: <u>04-Aug-03</u> | End Date: <u>15-Aug-03</u> |

| | |
|----------------|------------------|
| Lab ID: 535372 | Sample ID: PSD01 |
|----------------|------------------|

| | |
|---|-------------------------------------|
| Percent Solids: <u>78.0%</u> | Maximum Particle Size: <u>25 mm</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>angular</u> |
| Non-soil mass: <u>0.0%</u> | Hardness (> #10): <u>hard</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 93.8 | 6.2 |
| 3/8 inch | 9500 | 84.0 | 9.8 |
| #4 | 4750 | 63.4 | 20.6 |
| #10 | 2000 | 36.4 | 27.0 |
| #20 | 850 | 20.9 | 15.5 |
| #40 | 425 | 12.5 | 8.4 |
| #60 | 250 | 9.2 | 3.3 |
| #80 | 180 | 7.7 | 1.4 |
| #100 | 150 | 7.2 | 0.5 |
| #200 | 75 | 5.7 | 1.5 |
| Hydrometer | 35.5 | 3.9 | 1.8 |
| | 22.5 | 3.4 | 0.5 |
| | 13.0 | 3.4 | 0.0 |
| | 9.2 | 2.8 | 0.5 |
| | 6.7 | 2.3 | 0.5 |
| | 3.2 | 1.9 | 0.4 |
| V | 1.4 | 1.4 | 0.5 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 36.6 |
| Sand | 57.7 |
| Coarse Sand | 27.0 |
| Medium Sand | 23.9 |
| Fine Sand | 6.8 |
| Silt | 3.4 |
| Clay | 2.3 |

Dispersion Device: Mechanical mixer with a metal paddle.
 Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Sample preparation method: D2217

Client: EASEAT
 Client Code: EASEAT
 Date Received: 22-Jul-03

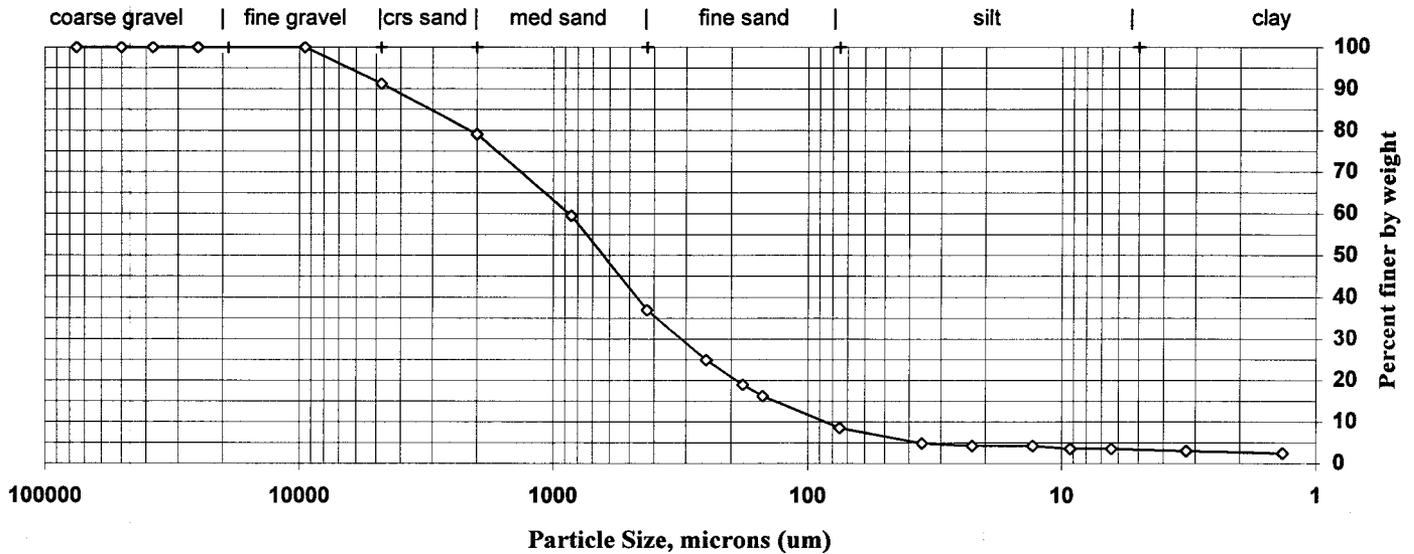
Project No.: 23046
 Job No.: N/A
 Start Date: 04-Aug-03

ETR(s) #: 94941
 SDG(s): GCD002
 End Date: 15-Aug-03

Lab ID: 535373 Sample ID: PSD53

Percent Solids: 81.1%
 Specific Gravity: 2.65 (assumed)
 Non-soil mass: 0.1%

Maximum Particle Size: 9.5 mm
 Shape (> #10): angular
 Hardness (> #10): hard



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 100.0 | 0.0 |
| #4 | 4750 | 91.2 | 8.8 |
| #10 | 2000 | 79.0 | 12.2 |
| #20 | 850 | 59.4 | 19.6 |
| #40 | 425 | 36.9 | 22.5 |
| #60 | 250 | 24.9 | 12.0 |
| #80 | 180 | 19.0 | 5.9 |
| #100 | 150 | 16.2 | 2.8 |
| #200 | 75 | 8.6 | 7.6 |
| Hydrometer | 35.5 | 4.8 | 3.8 |
| | 22.5 | 4.2 | 0.7 |
| | 13.0 | 4.2 | 0.0 |
| | 9.2 | 3.5 | 0.7 |
| | 6.4 | 3.5 | 0.0 |
| | 3.3 | 3.0 | 0.5 |
| V | 1.4 | 2.4 | 0.5 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 8.8 |
| Sand | 82.6 |
| Coarse Sand | 12.2 |
| Medium Sand | 42.1 |
| Fine Sand | 28.3 |
| Silt | 5.1 |
| Clay | 3.5 |

Dispersion Device: Mechanical mixer with a metal paddle.
 Dispersion Period: 1 minute

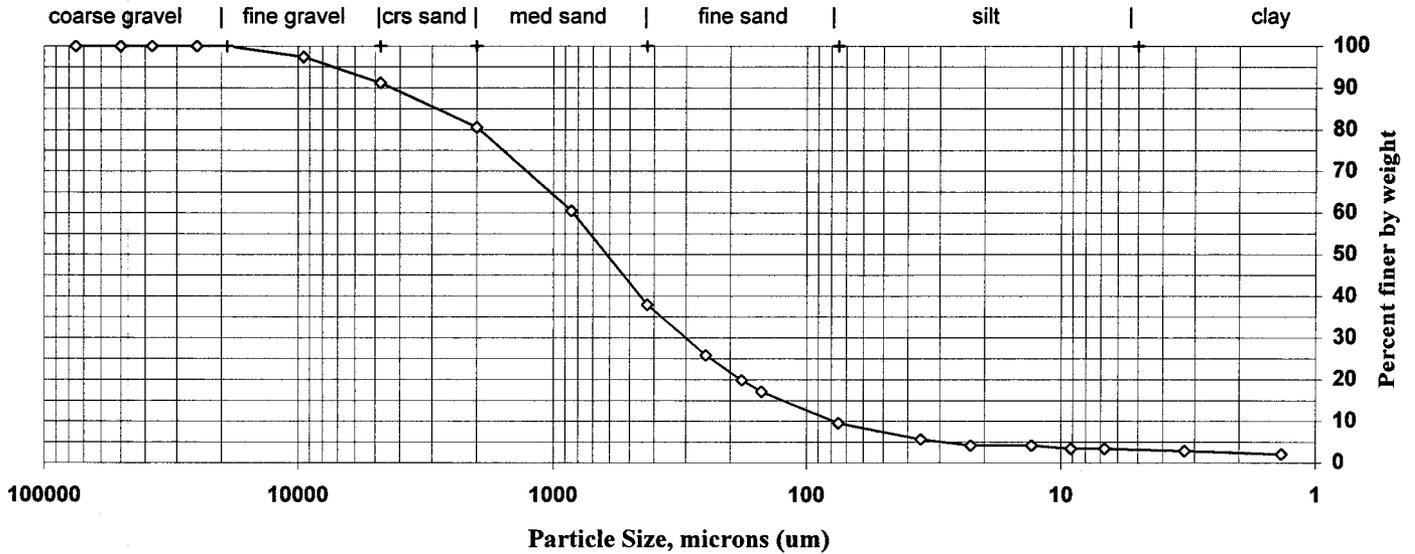
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|----------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>94941</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD002</u> |
| Date Received: <u>22-Jul-03</u> | Start Date: <u>04-Aug-03</u> | End Date: <u>15-Aug-03</u> |

| | |
|------------------|---------------------|
| Lab ID: 535373DP | Sample ID: PSD53REP |
|------------------|---------------------|

| | |
|---|-------------------------------------|
| Percent Solids: <u>82.1%</u> | Maximum Particle Size: <u>19 mm</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>angular</u> |
| Non-soil mass: <u>0.0%</u> | Hardness (> #10): <u>hard</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 97.4 | 2.6 |
| #4 | 4750 | 91.2 | 6.2 |
| #10 | 2000 | 80.6 | 10.6 |
| #20 | 850 | 60.5 | 20.1 |
| #40 | 425 | 38.0 | 22.6 |
| #60 | 250 | 25.8 | 12.1 |
| #80 | 180 | 19.9 | 6.0 |
| #100 | 150 | 17.2 | 2.7 |
| #200 | 75 | 9.6 | 7.6 |
| Hydrometer | 35.5 | 5.6 | 3.9 |
| | 22.6 | 4.1 | 1.5 |
| | 13.1 | 4.1 | 0.0 |
| | 9.1 | 3.3 | 0.8 |
| | 6.7 | 3.3 | 0.0 |
| | 3.3 | 2.8 | 0.5 |
| V | 1.4 | 2.1 | 0.8 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 8.8 |
| Sand | 81.6 |
| Coarse Sand | 10.6 |
| Medium Sand | 42.6 |
| Fine Sand | 28.4 |
| Silt | 6.2 |
| Clay | 3.3 |

Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

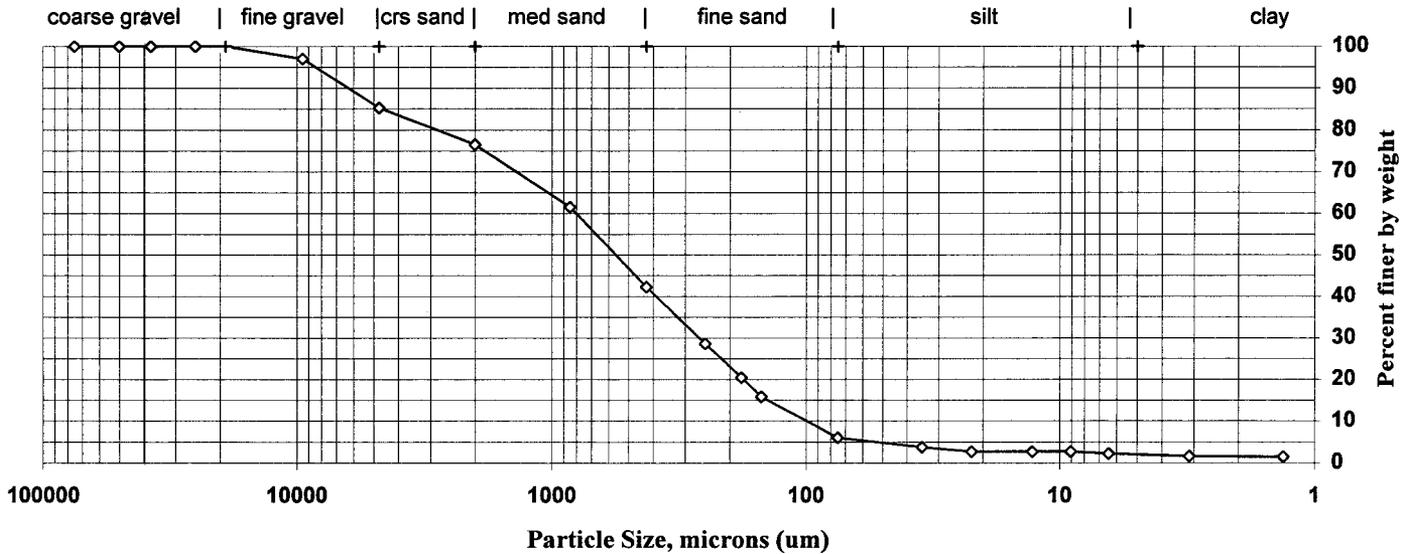
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|----------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>94941</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD002</u> |
| Date Received: <u>22-Jul-03</u> | Start Date: <u>04-Aug-03</u> | End Date: <u>15-Aug-03</u> |

| | |
|----------------|------------------|
| Lab ID: 535374 | Sample ID: RSD53 |
|----------------|------------------|

| | |
|---|-------------------------------------|
| Percent Solids: <u>76.3%</u> | Maximum Particle Size: <u>19 mm</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>angular</u> |
| Non-soil mass: <u>0.3%</u> | Hardness (> #10): <u>hard</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 97.0 | 3.0 |
| #4 | 4750 | 85.3 | 11.7 |
| #10 | 2000 | 76.5 | 8.7 |
| #20 | 850 | 61.5 | 15.0 |
| #40 | 425 | 42.3 | 19.3 |
| #60 | 250 | 28.6 | 13.7 |
| #80 | 180 | 20.5 | 8.1 |
| #100 | 150 | 15.8 | 4.7 |
| #200 | 75 | 6.0 | 9.8 |
| Hydrometer | 34.7 | 3.8 | 2.3 |
| | 22.2 | 2.7 | 1.1 |
| | 12.8 | 2.7 | 0.0 |
| | 9.1 | 2.7 | 0.0 |
| | 6.4 | 2.2 | 0.5 |
| | 3.1 | 1.6 | 0.6 |
| V | 1.3 | 1.5 | 0.1 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 14.7 |
| Sand | 79.2 |
| Coarse Sand | 8.7 |
| Medium Sand | 34.2 |
| Fine Sand | 36.2 |
| Silt | 3.8 |
| Clay | 2.2 |

Dispersion Device: Mechanical mixer with a metal paddle.
 Dispersion Period: 1 minute

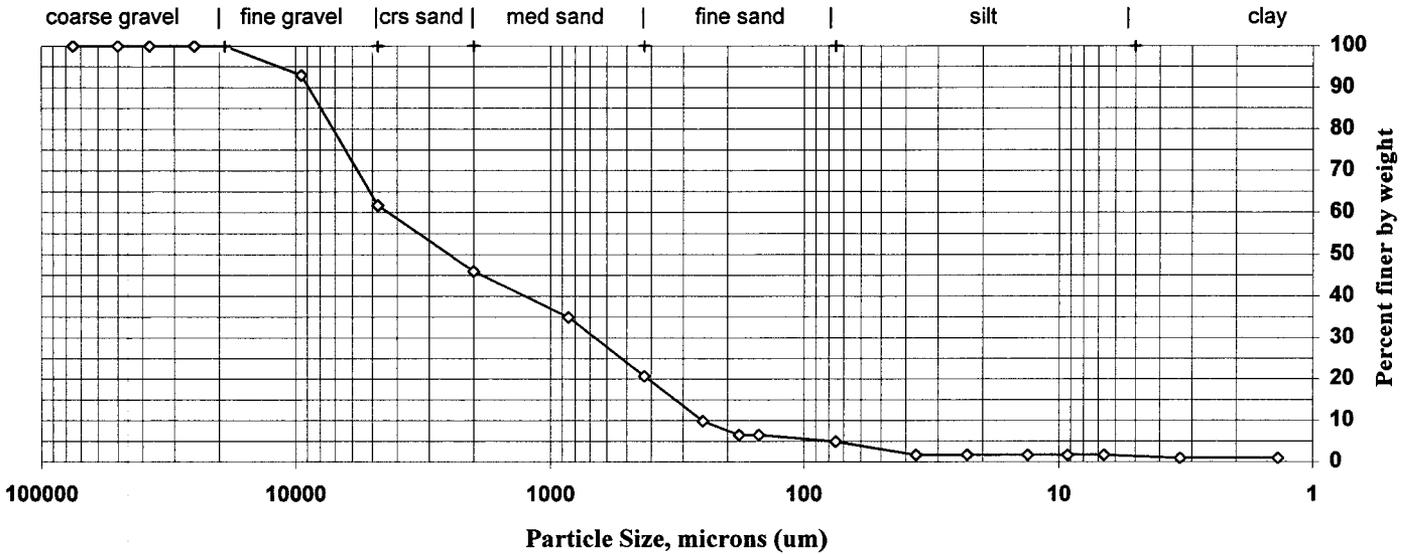
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|----------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>95000</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD002</u> |
| Date Received: <u>24-Jul-03</u> | Start Date: <u>12-Aug-03</u> | End Date: <u>22-Aug-03</u> |

| | |
|----------------|-----------------|
| Lab ID: 535813 | Sample ID: SD05 |
|----------------|-----------------|

| | |
|---|-------------------------------------|
| Percent Solids: <u>82.4%</u> | Maximum Particle Size: <u>19 mm</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>subangular</u> |
| Non-soil mass: <u>0.0%</u> | Hardness (> #10): <u>hard</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 93.0 | 7.0 |
| #4 | 4750 | 61.7 | 31.3 |
| #10 | 2000 | 45.9 | 15.8 |
| #20 | 850 | 35.0 | 10.9 |
| #40 | 425 | 20.7 | 14.2 |
| #60 | 250 | 9.8 | 10.9 |
| #80 | 180 | 6.5 | 3.3 |
| #100 | 150 | 6.5 | 0.0 |
| #200 | 75 | 4.9 | 1.6 |
| Hydrometer | 36.3 | 1.7 | 3.2 |
| | 23.0 | 1.7 | 0.0 |
| | 13.3 | 1.7 | 0.0 |
| | 9.2 | 1.7 | 0.0 |
| | 6.6 | 1.7 | 0.0 |
| | 3.3 | 0.9 | 0.8 |
| V | 1.4 | 0.9 | 0.0 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 38.3 |
| Sand | 56.8 |
| Coarse Sand | 15.8 |
| Medium Sand | 25.2 |
| Fine Sand | 15.8 |
| Silt | 3.2 |
| Clay | 1.7 |

Dispersion Device: Mechanical mixer with a metal paddle.
 Dispersion Period: 1 minute

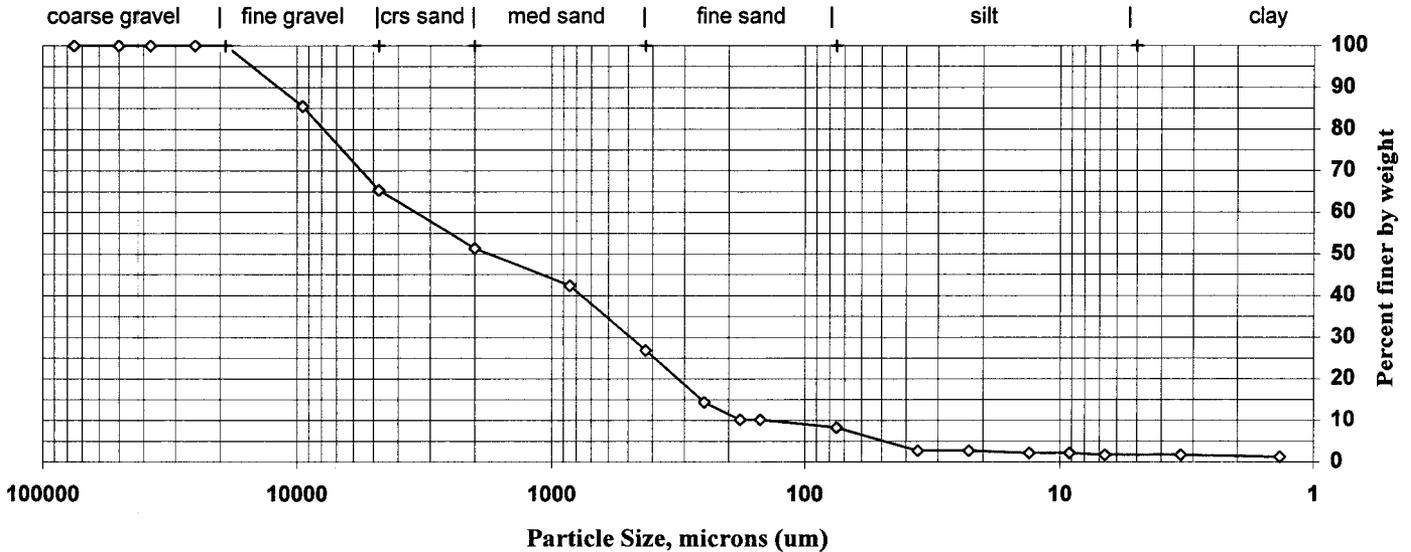
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|----------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>95000</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD002</u> |
| Date Received: <u>24-Jul-03</u> | Start Date: <u>12-Aug-03</u> | End Date: <u>22-Aug-03</u> |

| | |
|----------------|--------------------|
| Lab ID: 535814 | Sample ID: SD05100 |
|----------------|--------------------|

| | |
|---|-------------------------------------|
| Percent Solids: <u>85.1%</u> | Maximum Particle Size: <u>19 mm</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>subangular</u> |
| Non-soil mass: <u>NA</u> | Hardness (> #10): <u>hard</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 85.4 | 14.6 |
| #4 | 4750 | 65.3 | 20.1 |
| #10 | 2000 | 51.4 | 13.9 |
| #20 | 850 | 42.4 | 9.0 |
| #40 | 425 | 26.9 | 15.4 |
| #60 | 250 | 14.4 | 12.5 |
| #80 | 180 | 10.2 | 4.2 |
| #100 | 150 | 10.2 | 0.0 |
| #200 | 75 | 8.2 | 2.0 |
| Hydrometer | 35.9 | 2.7 | 5.5 |
| | 22.7 | 2.7 | 0.0 |
| | 13.2 | 2.2 | 0.5 |
| | 9.2 | 2.2 | 0.0 |
| | 6.7 | 1.6 | 0.5 |
| | 3.3 | 1.6 | 0.0 |
| V | 1.4 | 1.2 | 0.4 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 34.7 |
| Sand | 57.1 |
| Coarse Sand | 13.9 |
| Medium Sand | 24.5 |
| Fine Sand | 18.7 |
| Silt | 6.6 |
| Clay | 1.6 |

Dispersion Device: Mechanical mixer with a metal paddle.
 Dispersion Period: 1 minute

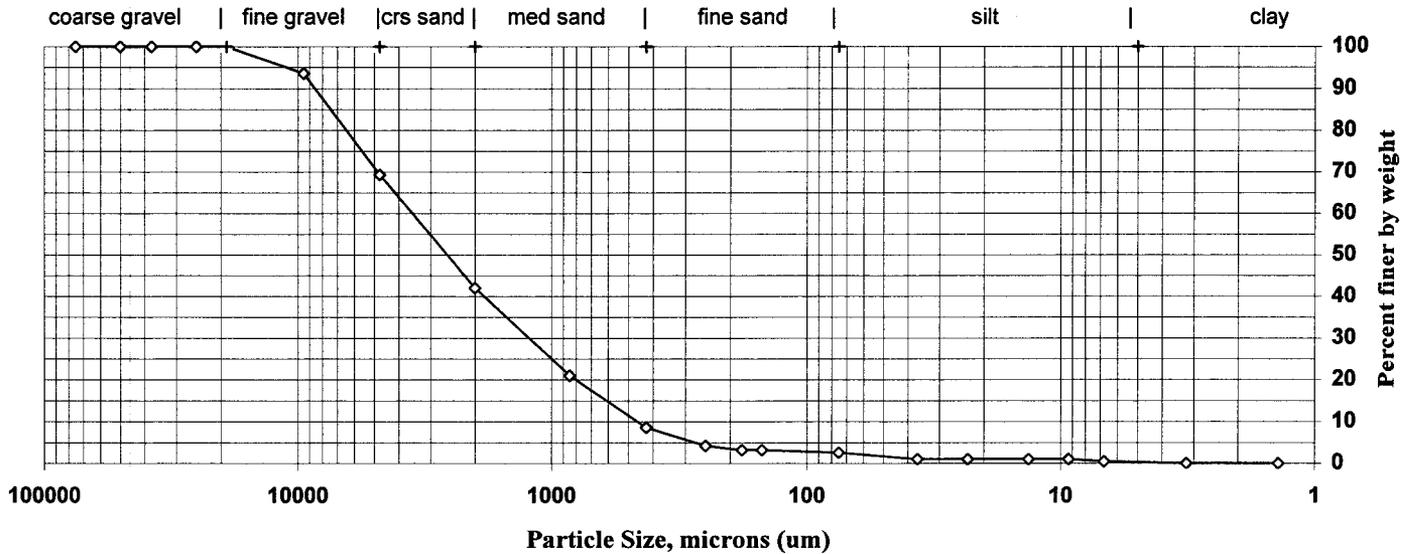
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|----------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>95000</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD002</u> |
| Date Received: <u>24-Jul-03</u> | Start Date: <u>12-Aug-03</u> | End Date: <u>22-Aug-03</u> |

| | |
|----------------|-----------------|
| Lab ID: 535815 | Sample ID: SD06 |
|----------------|-----------------|

| | |
|---|-------------------------------------|
| Percent Solids: <u>84.7%</u> | Maximum Particle Size: <u>19 mm</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>subangular</u> |
| Non-soil mass: <u>0.0%</u> | Hardness (> #10): <u>hard</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 93.6 | 6.4 |
| #4 | 4750 | 69.4 | 24.2 |
| #10 | 2000 | 42.0 | 27.3 |
| #20 | 850 | 21.0 | 21.0 |
| #40 | 425 | 8.7 | 12.4 |
| #60 | 250 | 4.3 | 4.4 |
| #80 | 180 | 3.2 | 1.0 |
| #100 | 150 | 3.2 | 0.0 |
| #200 | 75 | 2.6 | 0.6 |
| Hydrometer | 36.6 | 1.0 | 1.7 |
| | 23.1 | 1.0 | 0.0 |
| | 13.4 | 1.0 | 0.0 |
| | 9.3 | 1.0 | 0.0 |
| | 6.8 | 0.5 | 0.5 |
| | 3.2 | 0.0 | 0.5 |
| V | 1.4 | 0.0 | 0.0 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 30.6 |
| Sand | 66.7 |
| Coarse Sand | 27.3 |
| Medium Sand | 33.4 |
| Fine Sand | 6.0 |
| Silt | 2.1 |
| Clay | 0.5 |

Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

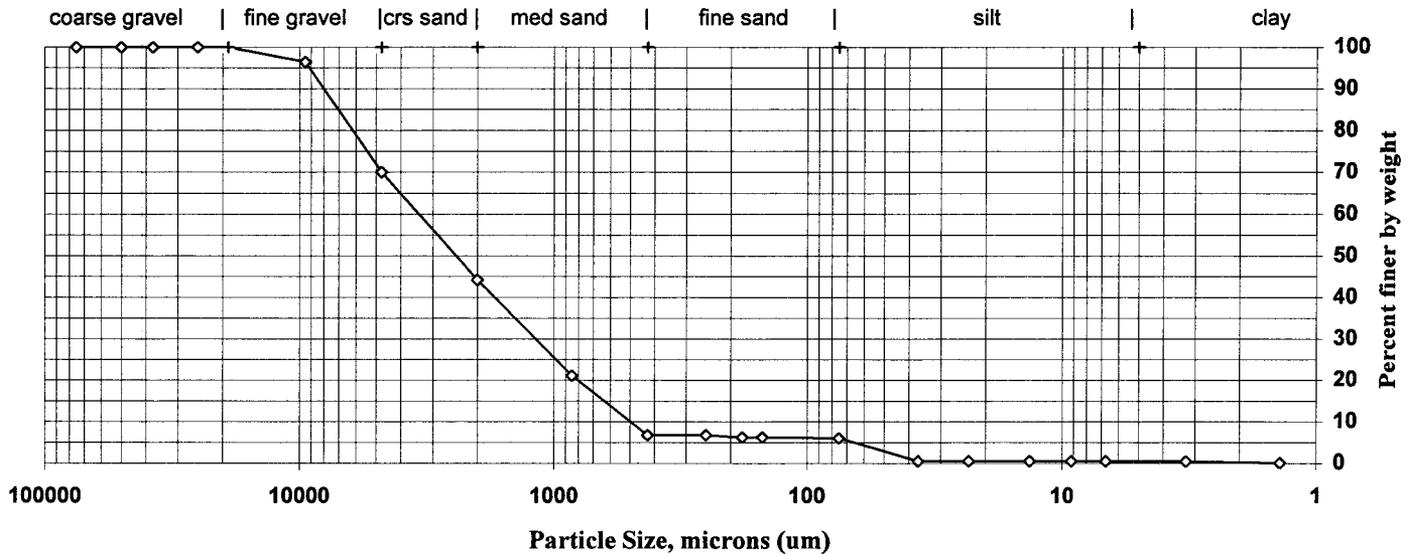
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|----------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>95000</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD002</u> |
| Date Received: <u>24-Jul-03</u> | Start Date: <u>12-Aug-03</u> | End Date: <u>22-Aug-03</u> |

| | |
|----------------|-----------------|
| Lab ID: 535816 | Sample ID: SD08 |
|----------------|-----------------|

| | |
|---|-------------------------------------|
| Percent Solids: <u>82.1%</u> | Maximum Particle Size: <u>19 mm</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>subangular</u> |
| Non-soil mass: <u>0.0%</u> | Hardness (> #10): <u>hard</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 96.4 | 3.6 |
| #4 | 4750 | 70.0 | 26.4 |
| #10 | 2000 | 44.2 | 25.8 |
| #20 | 850 | 21.1 | 23.1 |
| #40 | 425 | 6.8 | 14.3 |
| #60 | 250 | 6.8 | 0.0 |
| #80 | 180 | 6.3 | 0.5 |
| #100 | 150 | 6.3 | 0.0 |
| #200 | 75 | 6.0 | 0.3 |
| Hydrometer | 36.7 | 0.6 | 5.5 |
| | 23.2 | 0.6 | 0.0 |
| | 13.4 | 0.6 | 0.0 |
| | 9.2 | 0.6 | 0.0 |
| | 6.7 | 0.6 | 0.0 |
| | 3.3 | 0.5 | 0.1 |
| V | 1.4 | 0.1 | 0.4 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 30.0 |
| Sand | 64.0 |
| Coarse Sand | 25.8 |
| Medium Sand | 37.4 |
| Fine Sand | 0.8 |
| Silt | 5.5 |
| Clay | 0.6 |

Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Sample preparation method: D2217

Client: EASEAT
 Client Code: EASEAT
 Date Received: 24-Jul-03

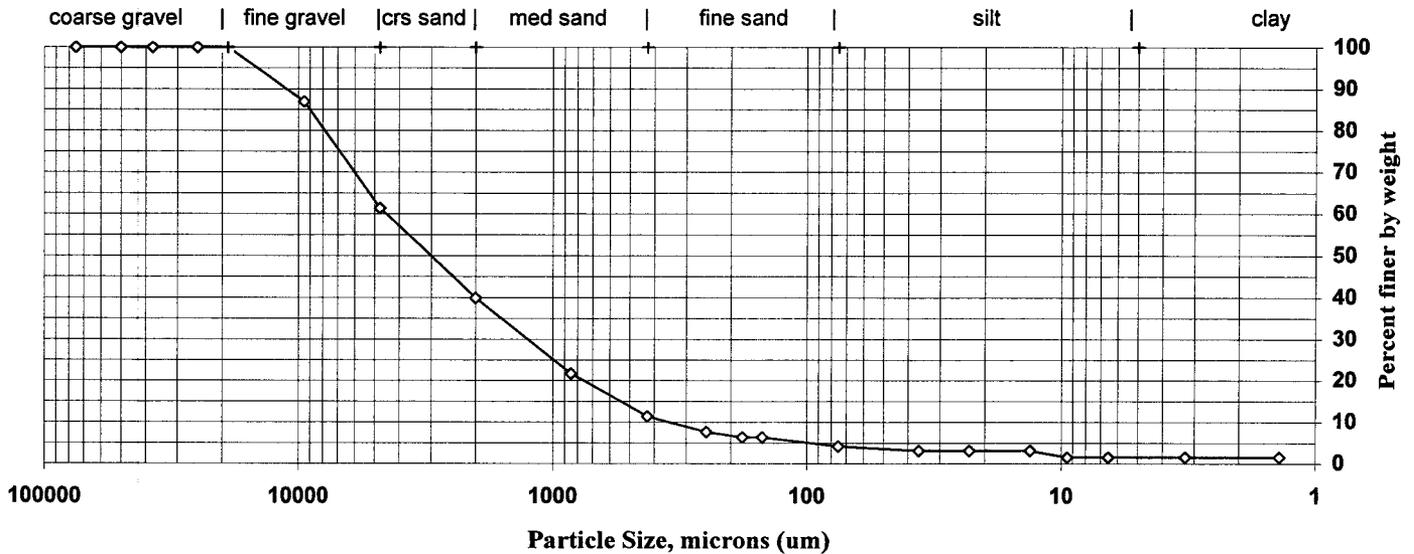
Project No.: 23046
 Job No.: N/A
 Start Date: 12-Aug-03

ETR(s) #: 95000
 SDG(s): GCD002
 End Date: 22-Aug-03

Lab ID: 535818 Sample ID: SD07

Percent Solids: 78.5%
 Specific Gravity: 2.65 (assumed)
 Non-soil mass: 0.1%

Maximum Particle Size: 19 mm
 Shape (> #10): subrounded
 Hardness (> #10): hard



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 86.9 | 13.1 |
| #4 | 4750 | 61.4 | 25.5 |
| #10 | 2000 | 39.9 | 21.5 |
| #20 | 850 | 21.7 | 18.2 |
| #40 | 425 | 11.4 | 10.3 |
| #60 | 250 | 7.6 | 3.8 |
| #80 | 180 | 6.3 | 1.3 |
| #100 | 150 | 6.3 | 0.0 |
| #200 | 75 | 4.2 | 2.1 |
| Hydrometer | 36.3 | 3.1 | 1.1 |
| | 22.9 | 3.1 | 0.0 |
| | 13.2 | 3.1 | 0.0 |
| | 9.4 | 1.6 | 1.6 |
| | 6.5 | 1.6 | 0.0 |
| | 3.3 | 1.6 | 0.0 |
| V | 1.4 | 1.6 | 0.0 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 38.6 |
| Sand | 57.2 |
| Coarse Sand | 21.5 |
| Medium Sand | 28.5 |
| Fine Sand | 7.2 |
| Silt | 2.7 |
| Clay | 1.6 |

Dispersion Device: Mechanical mixer with a metal paddle.
 Dispersion Period: 1 minute

**STL Burlington
Colchester, Vermont**

**Sample Data Summary
Package**

SDG: GCD003

September 17, 2003

Ms. Jennifer Kindred
EA Engineering
12011 Bellevue-Redmond Rd.
Suite 200
Bellevue, WA 98005

Re: Laboratory Project No. 23046
Case No. 23046; SDG: GCD003

Dear Ms. Kindred:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on July 26, 2003. Laboratory numbers have been assigned and designated as follows:

| <u>Lab ID</u> | <u>Client Sample ID</u> | <u>Sample Date</u> | <u>Sample Matrix</u> |
|----------------------------------|-----------------------------|------------------------|--------------------------|
| Received: 07/26/03 ETR No: 95020 | | | |
| 536011 | BLACSTRSD42 | 07/22/03 | Sediment |
| 536012 | BLACPDSSD41 | 07/22/03 | Sediment |
| 536013 | BLACSTPSD01 | 07/23/03 | Sediment |
| 536013MS | BLACSTPSD01MS | 07/23/03 | Sediment |
| 536013DP | BLACSTPSD01REP | 07/23/03 | Sediment |
| 536014 | BLACADSSD11 | 07/23/03 | Sediment |
| 536015 | BLACPDSSD43 | 07/23/03 | Sediment |
| 536016 | BLACSTPSD02 | 07/23/03 | Sediment |
| 536017 | BLACSTPSD42 | 07/22/03 | Sediment |
| 536018 | BLACSTRSD02 | 07/22/03 | Sediment |
| 536019 | BLACSTPSD03 | 07/22/03 | Sediment |
| 536020 | BLUEPDSSD16 | 07/22/03 | Sediment |
| 536021 | BLACPDSSD10 | 07/22/03 | Sediment |
| 536022 | BLACSTPSD04 | 07/22/03 | Sediment |
| 536023 | BLACSTRSD04 | 07/22/03 | Sediment |

Due to reporting software limitations, sample identifications may have been truncated. In most instances only punctuation was removed.

Documentation that identifies the condition of the samples at the time of sample receipt and the issues arising at the time of sample login is included in the Sample Handling section of this submittal.

This narrative identifies anomalies that occurred during the analyses of samples in this delivery group. If there is no description following regarding a certain methodology requested on the chain-

of-custody record, then there were no exceptions to the laboratory quality control criteria noted during that analysis.

Metals by 6010B:

The relative percent differences (RPDs) between the initial and duplicate analysis of sample BLACSTPSD01 for aluminum (34.8%), arsenic (57.6%), calcium (26.0%), chromium (51.6%), lead (22.0%), magnesium (77.8%) and vanadium (25.4%) were above the established control limit of ± 20 percent. Corresponding sample results have been flagged with a "*" to denote this anomaly.

The recoveries of the following metals from the laboratory fortified aliquot of sample BLACSTPSD01 were outside of the laboratory established control limits of 75-125 percent: antimony (65.0%), nickel (142.3%) and selenium (56.6%). Sample results have been flagged with an "N" accordingly.

The following samples displayed a severe (greater negative than -20 ppb) for thallium: BLACPDSSD41 and BLUEPDSSD16. BLUEPDSSD16 also displayed a negative interference (-15.45 ppb) for silver.

Please note that due to a log-in error, all samples in this delivery group were analyzed for mercury outside of holding time. The client will not be charged for these analyses.

Total Organic Carbon by Lloyd Kahn:

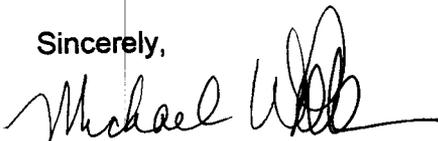
The duplicate analysis of the sample designated BLACSTPSD01 yielded a relative percent difference of 45.

If there are any questions regarding this submittal, please contact Jeannine McCrumb at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 0001 and ending with page 0360.

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. The Laboratory Director or his designee, as verified by the following signature, has authorized the release of the data contained in this hardcopy data package.

Sincerely,



Michael F. Wheeler, Ph.D.
Laboratory Director

Enclosure
MFW/jtw/jmm

0001-B Last Alpha

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

Sediment

1 of 1

CHAIN OF CUSTODY RECORD

| | | | | | | | |
|---|---------------------|--|---------------------|---|----------------------------|---|-------------------------|
| Report to: Company: <u>EFA Engineering</u> Address: <u>12011 Bel-Red Rd Suite 200</u> <u>Belleuve, WA 98005</u> Contact: <u>Jen Kindred</u> Phone: <u>425-451-7400</u> Fax: <u>425-451-7800</u> Contract/ Quote: | | Invoice to: Company: <u>Sample</u> Address: Contact: Phone: Fax: | | Analysis Requested TAL Metals Cyanides Grain Size | | Lab Use Only Due Date: Temp. of coolers when received (C°): 1 2 3 4 5 Custody Seal N / Y Intact N / Y Screened For Radioactivity <input type="checkbox"/> | |
| Sampler's Name <u>Don Norman</u> Sampler's Signature: <i>[Signature]</i> | | Project Name <u>Granite Creek watershed</u> | | Sampler's Signature <i>[Signature]</i> | | Lab / Sample ID (Lab Use Only) | |
| Proj. No. 13890.16 | Matrix SD | Date 7/22/2003 | Time 1700 | Identifying Marks of Sample(s) BLAC-ST-RSD-42 | VOA A/G 1 Lt. | 250 ml P/O | No./Type of Containers' |
| SD | 7/22/1700 | X | | BLAC-ST-RSD-42 | | 2 | X |
| SD | 7/22/1650 | X | | BLAC-PD-SSD-41 | | 2 | X |
| SD | 7/22/1115 | X | | BLAC-ST-PSD-01 MS | (4) | 42 | X |
| SD | 7/22/1330 | X | | BLAC-AD-SSD-11 | | 2 | X |
| SD | 7/22/1430 | X | | BLAC-PD-SSD-43 | | 2 | X |
| SD | 7/22/1815 | X | | BLAC-ST-PSD-02 | | 2 | X |
| SD | 7/22/1230 | X | | BLAC-ST-PSD-42 | | 2 | X |
| SD | 7/22/1830 | X | | BLAC-ST-RSD-02 | | 2 | X |
| SD | 7/22/1800 | X | | BLAC-ST-PSD-03 | | 2 | X |
| SD | 7/22/1620 | X | | BWE-PD-SSD-16 | | 2 | X |
| yav = 03 | | | | | | | |
| Relinquished by: (Signature) Date: _____ Time: _____ | | Received by: (Signature) Date: <u>07/22/03</u> Time: <u>1045</u> | | Remarks * Grain size collected at 1655 * MS for TOF, TAL + CN only. | | | |
| Relinquished by: (Signature) Date: _____ Time: _____ | | Received by: (Signature) Date: _____ Time: _____ | | Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule. | | | |
| Relinquished by: (Signature) Date: _____ Time: _____ | | Received by: (Signature) Date: _____ Time: _____ | | SL - Sludge O - Oil C - Charcoal Tube A - Air bag L - Liquid 250 ml - Glass wide mouth P/O - Plastic or other STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248 | | | |

SD = sediment

STL8234-200 (12/02)



**Sample Data Summary Package
For Wet Chemistry**

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTRSD42

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD003

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 536011

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/26/03

% Solids: 72.5

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 08/05/03 | N/A | % | 1.0 | | 72.5 | |
| IN847 | TOC by Lloyd Kahn | 07/31/03 | BLKCLK0731A | mg/Kg | 1 | 138 | 1310 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACPDSSD41

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD003

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 536012

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/26/03

% Solids: 22.7

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 08/05/03 | N/A | % | 1.0 | | 22.7 | |
| IN847 | TOC by Lloyd Kahn | 07/31/03 | BLKCLK0731A | mg/Kg | 1 | 441 | 3680 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTPSD01

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD003

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 536013

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/26/03

% Solids: 77.9

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 08/05/03 | N/A | % | 1.0 | | 77.9 | |
| IN847 | TOC by Lloyd Kahn | 07/31/03 | BLKCLK0731A | mg/Kg | 1 | 129 | 1490 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACADSSD11

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD003

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 536014

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/26/03

% Solids: 8.5

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|------|-------|-------|
| IN623 | Solids, Percent | 08/05/03 | N/A | % | 1.0 | | 8.5 | |
| IN847 | TOC by Lloyd Kahn | 07/31/03 | BLKLN0731A | mg/Kg | 1 | 1180 | 40700 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACPDSSD43

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD003

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 536015

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/26/03

% Solids: 71.5

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 08/05/03 | N/A | % | 1.0 | | 71.5 | |
| IN847 | TOC by Lloyd Kahn | 07/31/03 | BLK0731A | mg/Kg | 1 | 140 | 32700 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTPSD02

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD003

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 536016

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/26/03

% Solids: 70.9

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 08/05/03 | N/A | % | 1.0 | | 70.9 | |
| IN847 | TOC by Lloyd Kahn | 07/31/03 | BLKLN0731A | mg/Kg | 1 | 142 | 557 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTPSD42

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD003

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 536017

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/26/03

% Solids: 19.2

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|--------|-------|
| IN623 | Solids, Percent | 08/05/03 | N/A | % | 1.0 | | 19.2 | |
| IN847 | TOC by Lloyd Kahn | 07/31/03 | BLK0731A | mg/Kg | 1 | 521 | 111800 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTRSD02

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD003

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 536018

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/26/03

% Solids: 77.4

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 08/05/03 | N/A | % | 1.0 | | 77.4 | |
| IN847 | TOC by Lloyd Kahn | 07/31/03 | BLK0731A | mg/Kg | 1 | 130 | 4610 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTPSD03

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD003

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 536019

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/26/03

% Solids: 79.6

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 08/05/03 | N/A | % | 1.0 | | 79.6 | |
| IN847 | TOC by Lloyd Kahn | 07/31/03 | BLK0731A | mg/Kg | 1 | 126 | 1330 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUEPDSSD16

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD003

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 536020

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/26/03

% Solids: 13.5

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 08/05/03 | N/A | % | 1.0 | | 13.5 | |
| IN847 | TOC by Lloyd Kahn | 07/31/03 | BLKLN0731A | mg/Kg | 1 | 741 | 18100 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACPDSSD10

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD003

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 536021

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/26/03

% Solids: 16.9

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 08/05/03 | N/A | % | 1.0 | | 16.9 | |
| IN847 | TOC by Lloyd Kahn | 07/31/03 | BLK0731A | mg/Kg | 1 | 592 | 9960 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTPSD04

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD003

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 536022

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/26/03

% Solids: 74.9

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 08/05/03 | N/A | % | 1.0 | | 74.9 | |
| IN847 | TOC by Lloyd Kahn | 07/31/03 | BLK0731A | mg/Kg | 1 | 134 | 697 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTRSD04

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD003

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 536023

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/26/03

% Solids: 82.2

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 08/05/03 | N/A | % | 1.0 | | 82.2 | |
| IN847 | TOC by Lloyd Kahn | 07/31/03 | BLK0731A | mg/Kg | 1 | 122 | 4090 | |

WET CHEMISTRY

Method Blank Report Summary

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD003

Lab Code: STLVT

Case No.: 23046

Matrix: SOIL

Client: EASEAT

% Solids:

| Lab Sample ID | Method | Parameter | Conc. | Units | Qual. | DF | RL | Analytical Run Date | Analytical Batch |
|---------------|--------|-------------------|-------|-------|-------|----|-----|---------------------|------------------|
| BLK0731A | IN847 | TOC by Lloyd Kahn | 100 | mg/Kg | U | 1 | 100 | 07/31/03 | BLK0731A |

WET CHEMISTRY

Matrix Spike Sample Report Summary

Client Sample No.

BLACSTPSD01MS

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD003

Lab Code: STLVY

Case No.: 23046

Lab Sample ID: 536013MS

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/26/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | Matrix Spike Result Conc. Qual. | | Sample Result Conc. Qual. | | Spike Added | % Recovery* |
|--------|-------------------|---------------------|------------------|-------|------------------------------------|--|------------------------------|--|-------------|-------------|
| IN847 | TOC by Lloyd Kahn | 07/31/03 | BLKLG0731A | mg/Kg | 167600 | | 1490 | | 184510.00 | 90.0 |

* Control Limit for Percent Recovery is 75-125%, unless otherwise specified.

WET CHEMISTRY

Duplicate Sample Report Summary

Client Sample No.

BLACSTPSD01REP

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD003

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 536013DP

Matrix: SEDIMENT

Client: EASEAT

Date Received: 07/26/03

% Solids: 76.1

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | Sample Result | | Duplicate Sample Result | | RPD* |
|--------|-------------------|---------------------|------------------|-------|---------------|-------|-------------------------|-------|------|
| | | | | | Conc. | Qual. | Conc. | Qual. | |
| IN623 | Solids, Percent | 08/05/03 | N/A | % | 77.9 | | 76.1 | | 2 |
| IN847 | TOC by Lloyd Kahn | 07/31/03 | BLKLK0731A | mg/Kg | 1490 | | 938 | | 45 |

* Control Limit for RPD is +/- 20%, unless otherwise specified.

WET CHEMISTRY

Laboratory Control Sample Report Summary

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD003

Lab Code: STLVT

Case No.: 23046

Matrix: SOIL

Client: EASEAT

% Solids:

| Lab Sample ID | Method | Parameter | Analytical Run Date | Analytical Batch | Units | LCS Conc. | True Value | % Recovery* |
|---------------|--------|-------------------|---------------------|------------------|-------|-----------|------------|-------------|
| LCCLK0731A | IN847 | TOC by Lloyd Kahn | 07/31/03 | BLCLK0731A | mg/Kg | 8880 | 8500.0000 | 104.5 |

* Control Limit for Percent Recovery is 80-120%, unless otherwise specified.



**Sample Data Summary Package
For Metals**

USEPA - CLP FORMS

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003

SOW No.: ILM04.1

| EPA Sample No. | Lab Sample ID. |
|----------------|----------------|
| BLACADSSD11 | 536014 |
| BLACPDSSD10 | 536021 |
| BLACPDSSD41 | 536012 |
| BLACPDSSD43 | 536015 |
| BLACSTPSD01 | 536013 |
| BLACSTPSD01D | 536013DP |
| BLACSTPSD01S | 536013MS |
| BLACSTPSD02 | 536016 |
| BLACSTPSD03 | 536019 |
| BLACSTPSD04 | 536022 |
| BLACSTPSD42 | 536017 |
| BLACSTRSD02 | 536018 |
| BLACSTRSD04 | 536023 |
| BLACSTRSD42 | 536011 |
| BLUEPDSSD16 | 536020 |

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: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACADSSD11

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003

Matrix (soil/water): SOIL Lab Sample ID: 536014

Level (low/med): LOW Date Received: 07/26/03

% Solids: 8.5

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 1720 | | * | P |
| 7440-36-0 | Antimony | 9.7 | B | N | P |
| 7440-38-2 | Arsenic | 34.0 | | * | P |
| 7440-39-3 | Barium | 227 | | | P |
| 7440-41-7 | Beryllium | 4.2 | B | | P |
| 7440-43-9 | Cadmium | 5.1 | B | | P |
| 7440-70-2 | Calcium | 1250 | B | * | P |
| 7440-47-3 | Chromium | 1.6 | U | * | P |
| 7440-48-4 | Cobalt | 20.9 | B | | P |
| 7440-50-8 | Copper | 81.9 | | | P |
| 7439-89-6 | Iron | 729000 | | | P |
| 7439-92-1 | Lead | 21.8 | | * | P |
| 7439-95-4 | Magnesium | 457 | B | * | P |
| 7439-96-5 | Manganese | 982 | | | P |
| 7439-97-6 | Mercury | 0.57 | | | CV |
| 7440-02-0 | Nickel | 159 | | N | P |
| 7440-09-7 | Potassium | 440 | U | | P |
| 7782-49-2 | Selenium | 3.8 | U | N | P |
| 7440-22-4 | Silver | 2.5 | U | | P |
| 7440-23-5 | Sodium | 690 | B | | P |
| 7440-28-0 | Thallium | 35.5 | | | P |
| 7440-62-2 | Vanadium | 4.8 | B | * | P |
| 7440-66-6 | Zinc | 2230 | | | P |

Color Before: brown Clarity Before: _____ Texture: medium

Color After: yellow Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACPDSSD10

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003

Matrix (soil/water): SOIL Lab Sample ID: 536021

Level (low/med): LOW Date Received: 07/26/03

% Solids: 16.9

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 15300 | | * | P |
| 7440-36-0 | Antimony | 7.4 | B | N | P |
| 7440-38-2 | Arsenic | 136 | | * | P |
| 7440-39-3 | Barium | 9.1 | B | | P |
| 7440-41-7 | Beryllium | 0.26 | B | | P |
| 7440-43-9 | Cadmium | 1.4 | B | | P |
| 7440-70-2 | Calcium | 108 | U | * | P |
| 7440-47-3 | Chromium | 31.8 | | * | P |
| 7440-48-4 | Cobalt | 1.2 | U | | P |
| 7440-50-8 | Copper | 1280 | | | P |
| 7439-89-6 | Iron | 531000 | | | P |
| 7439-92-1 | Lead | 19.4 | | * | P |
| 7439-95-4 | Magnesium | 106 | U | * | P |
| 7439-96-5 | Manganese | 110 | | | P |
| 7439-97-6 | Mercury | 1.4 | | | CV |
| 7440-02-0 | Nickel | 1.2 | U | N | P |
| 7440-09-7 | Potassium | 233 | U | | P |
| 7782-49-2 | Selenium | 2.0 | U | N | P |
| 7440-22-4 | Silver | 1.3 | U | | P |
| 7440-23-5 | Sodium | 280 | U | | P |
| 7440-28-0 | Thallium | 22.3 | | | P |
| 7440-62-2 | Vanadium | 16.2 | B | * | P |
| 7440-66-6 | Zinc | 75.4 | | | P |

Color Before: brown Clarity Before: _____ Texture: medium

Color After: yellow Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACPDSSD41

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003
 Matrix (soil/water): SOIL Lab Sample ID: 536012
 Level (low/med): LOW Date Received: 07/26/03
 % Solids: 22.7

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 40900 | | * | P |
| 7440-36-0 | Antimony | 2.9 | B | N | P |
| 7440-38-2 | Arsenic | 110 | | * | P |
| 7440-39-3 | Barium | 837 | | | P |
| 7440-41-7 | Beryllium | 1.6 | B | | P |
| 7440-43-9 | Cadmium | 21.2 | | | P |
| 7440-70-2 | Calcium | 6880 | | * | P |
| 7440-47-3 | Chromium | 144 | | * | P |
| 7440-48-4 | Cobalt | 283 | | | P |
| 7440-50-8 | Copper | 1080 | | | P |
| 7439-89-6 | Iron | 70000 | | | P |
| 7439-92-1 | Lead | 11.8 | | * | P |
| 7439-95-4 | Magnesium | 15400 | | * | P |
| 7439-96-5 | Manganese | 32600 | | | P |
| 7439-97-6 | Mercury | 0.25 | | | CV |
| 7440-02-0 | Nickel | 1810 | | N | P |
| 7440-09-7 | Potassium | 2400 | | | P |
| 7782-49-2 | Selenium | 9.0 | | N | P |
| 7440-22-4 | Silver | 0.97 | U | | P |
| 7440-23-5 | Sodium | 463 | B | | P |
| 7440-28-0 | Thallium | 2.5 | U | | P |
| 7440-62-2 | Vanadium | 110 | | * | P |
| 7440-66-6 | Zinc | 1310 | | | P |

Color Before: brown Clarity Before: _____ Texture: medium
 Color After: yellow Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACPDSSD43

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003
 Matrix (soil/water): SOIL Lab Sample ID: 536015
 Level (low/med): LOW Date Received: 07/26/03
 % Solids: 71.5

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 1440 | | * | P |
| 7440-36-0 | Antimony | 0.64 | U | N | P |
| 7440-38-2 | Arsenic | 0.81 | B | * | P |
| 7440-39-3 | Barium | 12.4 | B | | P |
| 7440-41-7 | Beryllium | 0.15 | B | | P |
| 7440-43-9 | Cadmium | 0.27 | B | | P |
| 7440-70-2 | Calcium | 999 | | * | P |
| 7440-47-3 | Chromium | 4.4 | | * | P |
| 7440-48-4 | Cobalt | 6.0 | B | | P |
| 7440-50-8 | Copper | 49.3 | | | P |
| 7439-89-6 | Iron | 4550 | | | P |
| 7439-92-1 | Lead | 2.4 | | * | P |
| 7439-95-4 | Magnesium | 808 | | * | P |
| 7439-96-5 | Manganese | 492 | | | P |
| 7439-97-6 | Mercury | 0.069 | | | CV |
| 7440-02-0 | Nickel | 72.9 | | N | P |
| 7440-09-7 | Potassium | 160 | B | | P |
| 7782-49-2 | Selenium | 0.47 | U | N | P |
| 7440-22-4 | Silver | 0.30 | U | | P |
| 7440-23-5 | Sodium | 155 | B | | P |
| 7440-28-0 | Thallium | 0.78 | U | | P |
| 7440-62-2 | Vanadium | 2.9 | B | * | P |
| 7440-66-6 | Zinc | 60.9 | | | P |

Color Before: brown Clarity Before: _____ Texture: medium
 Color After: yellow Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTPSD01

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003
 Matrix (soil/water): SOIL Lab Sample ID: 536013
 Level (low/med): LOW Date Received: 07/26/03
 % Solids: 77.9

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 12400 | | * | P |
| 7440-36-0 | Antimony | 2.1 | B | N | P |
| 7440-38-2 | Arsenic | 34.7 | | * | P |
| 7440-39-3 | Barium | 67.5 | | | P |
| 7440-41-7 | Beryllium | 0.33 | B | | P |
| 7440-43-9 | Cadmium | 0.33 | B | | P |
| 7440-70-2 | Calcium | 3120 | | * | P |
| 7440-47-3 | Chromium | 102 | | * | P |
| 7440-48-4 | Cobalt | 20.0 | | | P |
| 7440-50-8 | Copper | 30.0 | | | P |
| 7439-89-6 | Iron | 30000 | | | P |
| 7439-92-1 | Lead | 3.3 | | * | P |
| 7439-95-4 | Magnesium | 10400 | | * | P |
| 7439-96-5 | Manganese | 543 | | | P |
| 7439-97-6 | Mercury | 0.019 | U | | CV |
| 7440-02-0 | Nickel | 131 | | N | P |
| 7440-09-7 | Potassium | 809 | | | P |
| 7782-49-2 | Selenium | 0.50 | B | N | P |
| 7440-22-4 | Silver | 0.27 | U | | P |
| 7440-23-5 | Sodium | 277 | B | | P |
| 7440-28-0 | Thallium | 0.71 | U | | P |
| 7440-62-2 | Vanadium | 58.5 | | * | P |
| 7440-66-6 | Zinc | 55.4 | | | P |

Color Before: brown Clarity Before: _____ Texture: medium
 Color After: yellow Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTPSD02

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003
 Matrix (soil/water): SOIL Lab Sample ID: 536016
 Level (low/med): LOW Date Received: 07/26/03
 % Solids: 70.9

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 17300 | | * | P |
| 7440-36-0 | Antimony | 2.5 | B | N | P |
| 7440-38-2 | Arsenic | 52.6 | | * | P |
| 7440-39-3 | Barium | 102 | | | P |
| 7440-41-7 | Beryllium | 0.40 | B | | P |
| 7440-43-9 | Cadmium | 0.48 | B | | P |
| 7440-70-2 | Calcium | 4170 | | * | P |
| 7440-47-3 | Chromium | 193 | | * | P |
| 7440-48-4 | Cobalt | 32.8 | | | P |
| 7440-50-8 | Copper | 37.2 | | | P |
| 7439-89-6 | Iron | 36600 | | | P |
| 7439-92-1 | Lead | 4.9 | | * | P |
| 7439-95-4 | Magnesium | 21500 | | * | P |
| 7439-96-5 | Manganese | 873 | | | P |
| 7439-97-6 | Mercury | 0.023 | U | | CV |
| 7440-02-0 | Nickel | 224 | | N | P |
| 7440-09-7 | Potassium | 904 | | | P |
| 7782-49-2 | Selenium | 0.68 | | N | P |
| 7440-22-4 | Silver | 0.30 | U | | P |
| 7440-23-5 | Sodium | 217 | B | | P |
| 7440-28-0 | Thallium | 0.77 | U | | P |
| 7440-62-2 | Vanadium | 71.9 | | * | P |
| 7440-66-6 | Zinc | 66.8 | | | P |

Color Before: brown Clarity Before: _____ Texture: medium

Color After: yellow Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTPSD03

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003

Matrix (soil/water): SOIL Lab Sample ID: 536019

Level (low/med): LOW Date Received: 07/26/03

% Solids: 79.6

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 12000 | | * | P |
| 7440-36-0 | Antimony | 1.4 | B | N | P |
| 7440-38-2 | Arsenic | 19.2 | | * | P |
| 7440-39-3 | Barium | 68.1 | | | P |
| 7440-41-7 | Beryllium | 0.28 | B | | P |
| 7440-43-9 | Cadmium | 0.27 | B | | P |
| 7440-70-2 | Calcium | 3170 | | * | P |
| 7440-47-3 | Chromium | 122 | | * | P |
| 7440-48-4 | Cobalt | 21.0 | | | P |
| 7440-50-8 | Copper | 38.9 | | | P |
| 7439-89-6 | Iron | 25900 | | | P |
| 7439-92-1 | Lead | 3.2 | | * | P |
| 7439-95-4 | Magnesium | 15200 | | * | P |
| 7439-96-5 | Manganese | 638 | | | P |
| 7439-97-6 | Mercury | 0.026 | B | | CV |
| 7440-02-0 | Nickel | 138 | | N | P |
| 7440-09-7 | Potassium | 937 | | | P |
| 7782-49-2 | Selenium | 0.40 | U | N | P |
| 7440-22-4 | Silver | 0.26 | U | | P |
| 7440-23-5 | Sodium | 265 | B | | P |
| 7440-28-0 | Thallium | 0.68 | U | | P |
| 7440-62-2 | Vanadium | 49.4 | | * | P |
| 7440-66-6 | Zinc | 50.7 | | | P |

Color Before: brown Clarity Before: _____ Texture: mediumColor After: yellow Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTPSD04

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003
 Matrix (soil/water): SOIL Lab Sample ID: 536022
 Level (low/med): LOW Date Received: 07/26/03
 % Solids: 74.9

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 7930 | | * | P |
| 7440-36-0 | Antimony | 0.75 | B | N | P |
| 7440-38-2 | Arsenic | 24.6 | | * | P |
| 7440-39-3 | Barium | 112 | | | P |
| 7440-41-7 | Beryllium | 0.25 | B | | P |
| 7440-43-9 | Cadmium | 0.39 | B | | P |
| 7440-70-2 | Calcium | 2700 | | * | P |
| 7440-47-3 | Chromium | 65.7 | | * | P |
| 7440-48-4 | Cobalt | 20.8 | | | P |
| 7440-50-8 | Copper | 23.8 | | | P |
| 7439-89-6 | Iron | 18800 | | | P |
| 7439-92-1 | Lead | 3.2 | | * | P |
| 7439-95-4 | Magnesium | 6510 | | * | P |
| 7439-96-5 | Manganese | 1620 | | | P |
| 7439-97-6 | Mercury | 0.022 | U | | CV |
| 7440-02-0 | Nickel | 99.8 | | N | P |
| 7440-09-7 | Potassium | 710 | | | P |
| 7782-49-2 | Selenium | 0.88 | | N | P |
| 7440-22-4 | Silver | 0.27 | U | | P |
| 7440-23-5 | Sodium | 308 | B | | P |
| 7440-28-0 | Thallium | 0.70 | U | | P |
| 7440-62-2 | Vanadium | 28.8 | | * | P |
| 7440-66-6 | Zinc | 37.7 | | | P |

Color Before: brown Clarity Before: _____ Texture: mediumColor After: yellow Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTFSD42

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003
 Matrix (soil/water): SOIL Lab Sample ID: 536017
 Level (low/med): LOW Date Received: 07/26/03
 % Solids: 19.2

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 42700 | | * | P |
| 7440-36-0 | Antimony | 5.9 | B | N | P |
| 7440-38-2 | Arsenic | 55.7 | | * | P |
| 7440-39-3 | Barium | 405 | | | P |
| 7440-41-7 | Beryllium | 1.2 | B | | P |
| 7440-43-9 | Cadmium | 4.2 | | | P |
| 7440-70-2 | Calcium | 6750 | | * | P |
| 7440-47-3 | Chromium | 191 | | * | P |
| 7440-48-4 | Cobalt | 85.5 | | | P |
| 7440-50-8 | Copper | 323 | | | P |
| 7439-89-6 | Iron | 61100 | | | P |
| 7439-92-1 | Lead | 11.6 | | * | P |
| 7439-95-4 | Magnesium | 18400 | | * | P |
| 7439-96-5 | Manganese | 3090 | | | P |
| 7439-97-6 | Mercury | 0.35 | | | CV |
| 7440-02-0 | Nickel | 503 | | N | P |
| 7440-09-7 | Potassium | 2650 | | | P |
| 7782-49-2 | Selenium | 2.9 | | N | P |
| 7440-22-4 | Silver | 2.6 | B | | P |
| 7440-23-5 | Sodium | 516 | B | | P |
| 7440-28-0 | Thallium | 2.5 | U | | P |
| 7440-62-2 | Vanadium | 106 | | * | P |
| 7440-66-6 | Zinc | 556 | | | P |

Color Before: brown Clarity Before: _____ Texture: medium
 Color After: yellow Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTRSD02

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003
 Matrix (soil/water): SOIL Lab Sample ID: 536018
 Level (low/med): LOW Date Received: 07/26/03
 % Solids: 77.4

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 16700 | | * | P |
| 7440-36-0 | Antimony | 2.1 | B | N | P |
| 7440-38-2 | Arsenic | 54.4 | | * | P |
| 7440-39-3 | Barium | 106 | | | P |
| 7440-41-7 | Beryllium | 0.38 | B | | P |
| 7440-43-9 | Cadmium | 0.59 | B | | P |
| 7440-70-2 | Calcium | 4280 | | * | P |
| 7440-47-3 | Chromium | 145 | | * | P |
| 7440-48-4 | Cobalt | 34.4 | | | P |
| 7440-50-8 | Copper | 49.8 | | | P |
| 7439-89-6 | Iron | 41700 | | | P |
| 7439-92-1 | Lead | 1.4 | | * | P |
| 7439-95-4 | Magnesium | 15100 | | * | P |
| 7439-96-5 | Manganese | 1010 | | | P |
| 7439-97-6 | Mercury | 0.019 | U | | CV |
| 7440-02-0 | Nickel | 172 | | N | P |
| 7440-09-7 | Potassium | 856 | | | P |
| 7782-49-2 | Selenium | 0.70 | | N | P |
| 7440-22-4 | Silver | 0.26 | U | | P |
| 7440-23-5 | Sodium | 152 | B | | P |
| 7440-28-0 | Thallium | 0.86 | B | | P |
| 7440-62-2 | Vanadium | 67.3 | | * | P |
| 7440-66-6 | Zinc | 78.2 | | | P |

Color Before: brown Clarity Before: _____ Texture: medium
 Color After: yellow Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTRSD04

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003
 Matrix (soil/water): SOIL Lab Sample ID: 536023
 Level (low/med): LOW Date Received: 07/26/03
 % Solids: 82.2

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 10500 | | * | P |
| 7440-36-0 | Antimony | 1.5 | B | N | P |
| 7440-38-2 | Arsenic | 24.2 | | * | P |
| 7440-39-3 | Barium | 70.3 | | | P |
| 7440-41-7 | Beryllium | 0.26 | B | | P |
| 7440-43-9 | Cadmium | 0.32 | B | | P |
| 7440-70-2 | Calcium | 2940 | | * | P |
| 7440-47-3 | Chromium | 87.0 | | * | P |
| 7440-48-4 | Cobalt | 18.9 | | | P |
| 7440-50-8 | Copper | 27.9 | | | P |
| 7439-89-6 | Iron | 21700 | | | P |
| 7439-92-1 | Lead | 3.1 | | * | P |
| 7439-95-4 | Magnesium | 10900 | | * | P |
| 7439-96-5 | Manganese | 600 | | | P |
| 7439-97-6 | Mercury | 0.019 | U | | CV |
| 7440-02-0 | Nickel | 124 | | N | P |
| 7440-09-7 | Potassium | 833 | | | P |
| 7782-49-2 | Selenium | 0.80 | | N | P |
| 7440-22-4 | Silver | 0.27 | U | | P |
| 7440-23-5 | Sodium | 292 | B | | P |
| 7440-28-0 | Thallium | 0.69 | U | | P |
| 7440-62-2 | Vanadium | 36.7 | | * | P |
| 7440-66-6 | Zinc | 50.0 | | | P |

Color Before: brown Clarity Before: _____ Texture: medium

Color After: yellow Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTRSD42

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003
 Matrix (soil/water): SOIL Lab Sample ID: 536011
 Level (low/med): LOW Date Received: 07/26/03
 % Solids: 72.5

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 14300 | | * | P |
| 7440-36-0 | Antimony | 1.3 | B | N | P |
| 7440-38-2 | Arsenic | 30.9 | | * | P |
| 7440-39-3 | Barium | 89.8 | | | P |
| 7440-41-7 | Beryllium | 0.32 | B | | P |
| 7440-43-9 | Cadmium | 0.50 | B | | P |
| 7440-70-2 | Calcium | 4560 | | * | P |
| 7440-47-3 | Chromium | 105 | | * | P |
| 7440-48-4 | Cobalt | 27.2 | | | P |
| 7440-50-8 | Copper | 42.6 | | | P |
| 7439-89-6 | Iron | 33300 | | | P |
| 7439-92-1 | Lead | 3.1 | | * | P |
| 7439-95-4 | Magnesium | 20200 | | * | P |
| 7439-96-5 | Manganese | 1090 | | | P |
| 7439-97-6 | Mercury | 0.023 | U | | CV |
| 7440-02-0 | Nickel | 215 | | N | P |
| 7440-09-7 | Potassium | 888 | | | P |
| 7782-49-2 | Selenium | 0.45 | U | N | P |
| 7440-22-4 | Silver | 0.29 | U | | P |
| 7440-23-5 | Sodium | 532 | B | | P |
| 7440-28-0 | Thallium | 0.76 | U | | P |
| 7440-62-2 | Vanadium | 58.5 | | * | P |
| 7440-66-6 | Zinc | 85.2 | | | P |

Color Before: brown Clarity Before: _____ Texture: mediumColor After: yellow Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUEPDSSD16

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003

Matrix (soil/water): SOIL Lab Sample ID: 536020

Level (low/med): LOW Date Received: 07/26/03

% Solids: 13.5

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 10600 | | * | P |
| 7440-36-0 | Antimony | 5.8 | B | N | P |
| 7440-38-2 | Arsenic | 279 | | * | P |
| 7440-39-3 | Barium | 688 | | | P |
| 7440-41-7 | Beryllium | 1.6 | B | | P |
| 7440-43-9 | Cadmium | 8.7 | | | P |
| 7440-70-2 | Calcium | 1680 | B | * | P |
| 7440-47-3 | Chromium | 24.8 | | * | P |
| 7440-48-4 | Cobalt | 1480 | | | P |
| 7440-50-8 | Copper | 100 | | | P |
| 7439-89-6 | Iron | 459000 | | | P |
| 7439-92-1 | Lead | 22.1 | | * | P |
| 7439-95-4 | Magnesium | 830 | B | * | P |
| 7439-96-5 | Manganese | 178000 | | | P |
| 7439-97-6 | Mercury | 0.11 | U | | CV |
| 7440-02-0 | Nickel | 1300 | | N | P |
| 7440-09-7 | Potassium | 886 | B | | P |
| 7782-49-2 | Selenium | 50.3 | | N | P |
| 7440-22-4 | Silver | 1.6 | U | | P |
| 7440-23-5 | Sodium | 494 | B | | P |
| 7440-28-0 | Thallium | 4.2 | U | | P |
| 7440-62-2 | Vanadium | 10.4 | B | * | P |
| 7440-66-6 | Zinc | 1470 | | | P |

Color Before: brown Clarity Before: _____ Texture: medium

Color After: yellow Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003

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) |
| Lead | 1000.0 | 996.00 | 99.6 | 400.0 | 395.30 | 98.8 | 390.90 | 97.7 | P |

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

USEPA - CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003

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) |
| Lead | | | | 400.0 | 397.40 | 99.4 | 392.10 | 98.0 | P |

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

USEPA - CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003

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) |
| Lead | | | | 400.0 | 390.50 | 97.6 | | | P |

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

USEPA - CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003
 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) |
| Mercury | 3.0 | 3.05 | 101.7 | 5.0 | 5.03 | 100.6 | 5.28 | 105.6 | CV |

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

USEPA - CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003

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) |
| Mercury | | | | 5.0 | 5.23 | 104.6 | | | CV |

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

USEPA - CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003

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 | 26160.00 | 100.6 | 30200.0 | 30610.00 | 101.4 | 30560.00 | 101.2 | P |
| Antimony | 250.0 | 251.10 | 100.4 | 300.0 | 307.80 | 102.6 | 308.30 | 102.8 | P |
| Arsenic | 250.0 | 250.40 | 100.2 | 100.0 | 105.00 | 105.0 | 104.30 | 104.3 | P |
| Barium | 500.0 | 497.30 | 99.5 | 200.0 | 204.20 | 102.1 | 202.70 | 101.4 | P |
| Beryllium | 500.0 | 502.60 | 100.5 | 100.0 | 101.60 | 101.6 | 101.40 | 101.4 | P |
| Cadmium | 500.0 | 493.10 | 98.6 | 100.0 | 101.20 | 101.2 | 99.97 | 100.0 | P |
| Calcium | 25000.0 | 25390.00 | 101.6 | 30200.0 | 30920.00 | 102.4 | 30580.00 | 101.3 | P |
| Chromium | 500.0 | 501.20 | 100.2 | 200.0 | 209.30 | 104.6 | 208.20 | 104.1 | P |
| Cobalt | 500.0 | 492.50 | 98.5 | 200.0 | 203.40 | 101.7 | 202.00 | 101.0 | P |
| Copper | 500.0 | 503.00 | 100.6 | 200.0 | 205.80 | 102.9 | 204.10 | 102.0 | P |
| Iron | 25500.0 | 26330.00 | 103.3 | 30200.0 | 30950.00 | 102.5 | 30850.00 | 102.2 | P |
| Magnesium | 25000.0 | 25410.00 | 101.6 | 30200.0 | 30800.00 | 102.0 | 30590.00 | 101.3 | P |
| Manganese | 500.0 | 495.40 | 99.1 | 200.0 | 204.20 | 102.1 | 202.50 | 101.2 | P |
| Nickel | 500.0 | 497.10 | 99.4 | 200.0 | 211.80 | 105.9 | 210.00 | 105.0 | P |
| Potassium | 25000.0 | 26340.00 | 105.4 | 30200.0 | 31480.00 | 104.2 | 31320.00 | 103.7 | P |
| Selenium | 250.0 | 246.50 | 98.6 | 100.0 | 100.90 | 100.9 | 100.10 | 100.1 | P |
| Silver | 500.0 | 499.70 | 99.9 | 100.0 | 102.20 | 102.2 | 101.80 | 101.8 | P |
| Sodium | 25000.0 | 25280.00 | 101.1 | 30200.0 | 30020.00 | 99.4 | 30070.00 | 99.6 | P |
| Thallium | 250.0 | 238.10 | 95.2 | 100.0 | 101.90 | 101.9 | 102.10 | 102.1 | P |
| Vanadium | 500.0 | 497.90 | 99.6 | 200.0 | 203.80 | 101.9 | 202.10 | 101.0 | P |
| Zinc | 500.0 | 498.80 | 99.8 | 200.0 | 204.00 | 102.0 | 203.00 | 101.5 | P |

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

USEPA - CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003

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 | 30620.00 | 101.4 | 30540.00 | 101.1 | P |
| Antimony | | | | 300.0 | 306.80 | 102.3 | 308.20 | 102.7 | P |
| Arsenic | | | | 100.0 | 101.00 | 101.0 | 104.10 | 104.1 | P |
| Barium | | | | 200.0 | 203.30 | 101.6 | 202.80 | 101.4 | P |
| Beryllium | | | | 100.0 | 100.40 | 100.4 | 101.10 | 101.1 | P |
| Cadmium | | | | 100.0 | 98.92 | 98.9 | 100.40 | 100.4 | P |
| Calcium | | | | 30200.0 | 30250.00 | 100.2 | 30750.00 | 101.8 | P |
| Chromium | | | | 200.0 | 207.70 | 103.8 | 208.70 | 104.4 | P |
| Cobalt | | | | 200.0 | 200.40 | 100.2 | 202.50 | 101.2 | P |
| Copper | | | | 200.0 | 204.20 | 102.1 | 203.00 | 101.5 | P |
| Iron | | | | 30200.0 | 30700.00 | 101.7 | 30940.00 | 102.5 | P |
| Magnesium | | | | 30200.0 | 30250.00 | 100.2 | 30610.00 | 101.4 | P |
| Manganese | | | | 200.0 | 201.40 | 100.7 | 202.10 | 101.0 | P |
| Nickel | | | | 200.0 | 208.20 | 104.1 | 211.90 | 106.0 | P |
| Potassium | | | | 30200.0 | 31660.00 | 104.8 | 31500.00 | 104.3 | P |
| Selenium | | | | 100.0 | 99.50 | 99.5 | 103.00 | 103.0 | P |
| Silver | | | | 100.0 | 101.90 | 101.9 | 101.30 | 101.3 | P |
| Sodium | | | | 30200.0 | 30090.00 | 99.6 | 29940.00 | 99.1 | P |
| Thallium | | | | 100.0 | 102.10 | 102.1 | 101.20 | 101.2 | P |
| Vanadium | | | | 200.0 | 201.20 | 100.6 | 202.10 | 101.0 | P |
| Zinc | | | | 200.0 | 201.40 | 100.7 | 203.00 | 101.5 | P |

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

USEPA - CLP FORMS

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003

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 | | Final | | |
| | | | | True | Found | %R | Found | %R |
| Lead | | | | 6.0 | 4.18 | 69.7 | 5.93 | 98.8 |

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

USEPA - CLP FORMS

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003

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 | | Final | | |
| | | | | True | Found | %R | Found | %R |
| Mercury | 0.2 | 0.19 | 95.0 | | | | | |

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

USEPA - CLP FORMS

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003

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 | | | Final | |
| | | | | True | Found | %R | Found | %R |
| Aluminum | | | | 400.0 | 499.30 | 124.8 | 497.00 | 124.2 |
| Antimony | | | | 120.0 | 121.80 | 101.5 | 122.30 | 101.9 |
| Arsenic | | | | 20.0 | 20.17 | 100.8 | 20.41 | 102.0 |
| Barium | | | | 400.0 | 395.70 | 98.9 | 397.40 | 99.4 |
| Beryllium | | | | 10.0 | 10.18 | 101.8 | 10.16 | 101.6 |
| Cadmium | | | | 10.0 | 10.46 | 104.6 | 10.20 | 102.0 |
| Calcium | | | | 10000.0 | 10420.00 | 104.2 | 10400.00 | 104.0 |
| Chromium | | | | 20.0 | 17.09 | 85.4 | 18.13 | 90.6 |
| Cobalt | | | | 100.0 | 98.29 | 98.3 | 98.55 | 98.6 |
| Copper | | | | 50.0 | 54.57 | 109.1 | 54.73 | 109.5 |
| Iron | | | | 200.0 | 234.60 | 117.3 | 253.00 | 126.5 |
| Magnesium | | | | 10000.0 | 10180.00 | 101.8 | 10150.00 | 101.5 |
| Manganese | | | | 30.0 | 28.80 | 96.0 | 28.88 | 96.3 |
| Nickel | | | | 80.0 | 76.81 | 96.0 | 80.10 | 100.1 |
| Potassium | | | | 10000.0 | 10720.00 | 107.2 | 10920.00 | 109.2 |
| Selenium | | | | 10.0 | 9.02 | 90.2 | 11.13 | 111.3 |
| Silver | | | | 20.0 | 20.27 | 101.4 | 19.58 | 97.9 |
| Sodium | | | | 10000.0 | 9830.00 | 98.3 | 10030.00 | 100.3 |
| Thallium | | | | 20.0 | 20.81 | 104.0 | 22.22 | 111.1 |
| Vanadium | | | | 100.0 | 99.27 | 99.3 | 98.92 | 98.9 |
| Zinc | | | | 40.0 | 42.82 | 107.0 | 42.95 | 107.4 |

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

USEPA - CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003

Preparation Blank Matrix (soil/water): SOIL

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

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|---------|-----------------------------|---|-------------------------------------|---|-----|---|-----|---|-------------------|---|---|
| | C | | 1 | C | 2 | C | 3 | C | C | | |
| Lead | 1.3 | U | 1.3 | U | 1.3 | U | 1.3 | U | 0.130 | U | P |

USEPA - CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003

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) | | | | | | Preparation Blank | C | M |
|---------|--------------------------------------|---|--|---|-----|---|---|---|----------------------|---|---|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Lead | | | 1.3 | U | 1.3 | U | | | | P | |

USEPA - CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003

Preparation Blank Matrix (soil/water): SOIL

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

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|---------|-----------------------------|---|-------------------------------------|---|-----|---|-----|---|-------------------|---|----|
| | 1 | C | 1 | C | 2 | C | 3 | C | C | | |
| Mercury | 0.1 | U | 0.1 | U | 0.1 | U | 0.1 | U | 0.017 | U | CV |

USEPA - CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON

Contract: 23046

Lab Code: STLVT

Case No.: 23046

SAS No.: _____

SDG No.: GCD003

Preparation Blank Matrix (soil/water): SOIL

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

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|-----------|-----------------------------|---|-------------------------------------|---|-------|---|-------|---|-------------------|---|---|
| | C | | 1 | C | 2 | C | 3 | C | C | | |
| Aluminum | 23.6 | U | 23.6 | U | -39.7 | B | -51.4 | B | 2.360 | U | P |
| Antimony | 4.7 | U | 4.7 | U | 4.7 | U | 4.7 | U | 0.470 | U | 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 | B | 0.2 | U | 0.020 | U | 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 | -4.3 | B | -3.9 | B | -4.0 | B | -4.8 | B | -0.343 | B | 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 | -3.6 | B | 0.240 | U | P |
| Iron | 33.3 | U | 33.3 | U | 33.3 | U | -47.2 | B | 3.330 | U | P |
| Magnesium | 178.3 | U | 178.3 | U | 178.3 | U | 178.3 | U | 17.830 | U | P |
| Manganese | -1.4 | B | -1.4 | B | -1.4 | B | -1.1 | B | -0.104 | B | P |
| Nickel | -8.4 | B | -7.9 | B | -8.6 | B | -8.2 | B | -1.129 | B | P |
| Potassium | 393.0 | U | 393.0 | U | 393.0 | U | 393.0 | U | 39.300 | U | P |
| Selenium | 3.4 | U | 3.4 | U | 3.4 | U | 3.4 | U | 0.340 | U | 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 | 79.380 | B | P |
| Thallium | 5.7 | U | 5.7 | U | 5.7 | U | 5.7 | U | 0.570 | U | 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 | 0.111 | B | P |

USEPA - CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003

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) | | | | | | Preparation Blank | C | M |
|-----------|-----------------------------|---|-------------------------------------|---|---|---|---|---|-------------------|---|---|
| | | | 1 | C | 2 | C | 3 | C | | | |
| 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 | | | -4.0 | B | | | | | | | P |
| Cobalt | | | 2.0 | U | | | | | | | P |
| Copper | | | 2.4 | U | | | | | | | P |
| Iron | | | 33.3 | U | | | | | | | P |
| Magnesium | | | 178.3 | U | | | | | | | P |
| Manganese | | | -1.3 | B | | | | | | | P |
| Nickel | | | -8.4 | B | | | | | | | P |
| Potassium | | | 393.0 | U | | | | | | | P |
| Selenium | | | 3.4 | 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 FORMS

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003

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 |
| Lead | 0 | 41 | 1 | 48.1 | 117.3 | 3 | 48.0 | 117.1 |

USEPA - CLP FORMS

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003ICP ID Number: TJA ICAP 4 ICS Source: Inorganic VenturesConcentration 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 | 504000 | 501800.0 | 103.9 | 506000 | 503700.0 | 104.3 |
| Antimony | 0 | 596 | -5 | 623.9 | 104.7 | -3 | 625.7 | 105.0 |
| Arsenic | 0 | 102 | 9 | 106.9 | 104.8 | 9 | 103.6 | 101.6 |
| Barium | 0 | 503 | 2 | 508.3 | 101.1 | 2 | 508.8 | 101.2 |
| Beryllium | 0 | 482 | 0 | 486.9 | 101.0 | 0 | 484.9 | 100.6 |
| Cadmium | 0 | 938 | 1 | 946.0 | 100.9 | 1 | 939.2 | 100.1 |
| Calcium | 500000 | 477840 | 496200 | 494000.0 | 103.4 | 497100 | 492000.0 | 103.0 |
| Chromium | 0 | 483 | 0 | 482.8 | 100.0 | -1 | 481.3 | 99.6 |
| Cobalt | 0 | 457 | -1 | 464.7 | 101.7 | -1 | 462.7 | 101.2 |
| Copper | 0 | 526 | 3 | 520.9 | 99.0 | 3 | 519.5 | 98.8 |
| Iron | 200000 | 191980 | 203400 | 200100.0 | 104.2 | 204800 | 200200.0 | 104.3 |
| Magnesium | 500000 | 521880 | 545300 | 543600.0 | 104.2 | 546000 | 540400.0 | 103.5 |
| Manganese | 0 | 474 | 0 | 478.4 | 100.9 | 0 | 474.3 | 100.1 |
| Nickel | 0 | 952 | -7 | 964.0 | 101.3 | -6 | 959.8 | 100.8 |
| Potassium | 0 | 0 | 19 | -29.1 | | 61 | -4.8 | |
| Selenium | 0 | 47 | 0 | 50.0 | 106.4 | 3 | 51.0 | 108.5 |
| Silver | 0 | 213 | 0 | 215.8 | 101.3 | 1 | 214.8 | 100.8 |
| Sodium | 0 | 0 | 18 | -132.4 | | -94 | -118.6 | |
| Thallium | 0 | 89 | -2 | 90.4 | 101.6 | -2 | 91.7 | 103.0 |
| Vanadium | 0 | 478 | 0 | 473.5 | 99.1 | 0 | 472.3 | 98.8 |
| Zinc | 0 | 998 | 5 | 1014.0 | 101.6 | 4 | 1006.0 | 100.8 |

USEPA - CLP FORMS

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

BLACSTPSD01S

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003Matrix (soil/water): SOIL Level (low/med): LOW% Solids for Sample: 77.9Concentration 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 | | 15170.9600 | 12400.7598 | 233.40 | 1186.9 | | P |
| Antimony | 75 - 125 | 40.0163 | 2.0776 | 58.35 | 65.0 | N | P |
| Arsenic | | 24.3669 | 34.7097 | 4.67 | -221.5 | | P |
| Barium | 75 - 125 | 282.7635 | 67.4751 | 233.40 | 92.2 | | P |
| Beryllium | 75 - 125 | 5.9587 | 0.3275 | 5.83 | 96.6 | | P |
| Cadmium | 75 - 125 | 5.8093 | 0.3267 | 5.83 | 94.0 | | P |
| Chromium | | 164.0798 | 101.5118 | 23.34 | 268.1 | | P |
| Cobalt | 75 - 125 | 77.5236 | 20.0157 | 58.35 | 98.6 | | P |
| Copper | 75 - 125 | 57.5096 | 30.0360 | 29.17 | 94.2 | | P |
| Iron | | 33481.1484 | 29973.7109 | 116.70 | 3005.5 | | P |
| Lead | 75 - 125 | 5.3868 | 3.2770 | 2.38 | 88.6 | | P |
| Manganese | | 671.7237 | 542.6425 | 58.35 | 221.2 | | P |
| Mercury | 75 - 125 | 0.2344 | 0.0186 | 0.19 | 123.4 | | CV |
| Nickel | 75 - 125 | 213.9106 | 130.8623 | 58.35 | 142.3 | N | P |
| Selenium | 75 - 125 | 1.1589 | 0.4965 | 1.17 | 56.6 | N | P |
| Silver | 75 - 125 | 5.3087 | 0.2742 | 5.83 | 91.1 | | P |
| Thallium | 75 - 125 | 5.7965 | 0.7104 | 5.83 | 99.4 | | P |
| Vanadium | 75 - 125 | 124.4019 | 58.5266 | 58.35 | 112.9 | | P |
| Zinc | 75 - 125 | 117.0498 | 55.3610 | 58.35 | 105.7 | | P |

Comments:

USEPA - CLP FORMS

5B

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

BLACSTPSD01A

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS _____ SDG No.: GCD003

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 | | 101200.00 | 99500.00 | 2000.0 | 85.0 | | P |
| Antimony | | 541.30 | 16.67 | 500.0 | 104.9 | B | P |
| Arsenic | | 311.50 | 278.50 | 40.0 | 82.5 | | P |
| Barium | | 2619.00 | 541.40 | 2000.0 | 103.9 | | P |
| Beryllium | | 54.46 | 2.63 | 50.0 | 103.7 | B | P |
| Cadmium | | 53.21 | 2.62 | 50.0 | 101.2 | B | P |
| Chromium | | 1015.00 | 814.50 | 200.0 | 100.2 | | P |
| Cobalt | | 666.40 | 160.60 | 500.0 | 101.2 | | P |
| Copper | | 511.40 | 241.00 | 250.0 | 108.2 | | P |
| Iron | | 238000.00 | 240500.00 | 1000.0 | -250.0 | | P |
| Lead | | 44.34 | 27.57 | 20.0 | 83.8 | | P |
| Manganese | | 4802.00 | 4354.00 | 500.0 | 89.6 | | P |
| Nickel | | 1547.00 | 1050.00 | 500.0 | 99.4 | | P |
| Selenium | | 13.10 | 3.98 | 10.0 | 91.2 | B | P |
| Silver | | 52.32 | 2.20 | 50.0 | 104.6 | U | P |
| Thallium | | 53.18 | 5.70 | 50.0 | 106.4 | U | P |
| Vanadium | | 991.10 | 469.60 | 500.0 | 104.3 | | P |
| Zinc | | 947.00 | 444.20 | 500.0 | 100.6 | | P |

Comments: _____

USEPA - CLP FORMS

6

DUPLICATES

SAMPLE NO.

BLACSTPSD01D

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003Matrix (soil/water): SOIL Level (low/med): LOW% Solids for Sample: 77.9 % Solids for Duplicate: 76.1Concentration Units (ug/L or mg/kg dry weight): MG/KG

| Analyte | Control Limit | Sample (S) | C | Duplicate (D) | C | RPD | Q | M |
|-----------|---------------|------------|---|---------------|---|-------|---|----|
| Aluminum | | 12400.7598 | | 17632.6699 | | 34.8 | * | P |
| Antimony | | 2.0776 | B | 1.7899 | B | 14.9 | | P |
| Arsenic | | 34.7097 | | 19.1949 | | 57.6 | * | P |
| Barium | 24.9 | 67.4751 | | 73.7762 | | 8.9 | | P |
| Beryllium | | 0.3275 | B | 0.2586 | B | 23.5 | | P |
| Cadmium | | 0.3267 | B | 0.2567 | B | 24.0 | | P |
| Calcium | | 3117.0161 | | 4049.7009 | | 26.0 | * | P |
| Chromium | | 101.5118 | | 172.0881 | | 51.6 | * | P |
| Cobalt | 6.2 | 20.0157 | | 23.8090 | | 17.3 | | P |
| Copper | | 30.0360 | | 25.1532 | | 17.7 | | P |
| Iron | | 29973.7109 | | 32516.2891 | | 8.1 | | P |
| Lead | | 3.2770 | | 2.6268 | | 22.0 | * | P |
| Magnesium | | 10387.9805 | | 23615.1797 | | 77.8 | * | P |
| Manganese | | 542.6425 | | 590.6218 | | 8.5 | | P |
| Mercury | | 0.0186 | U | 0.0189 | U | | | CV |
| Nickel | | 130.8623 | | 152.8326 | | 15.5 | | P |
| Potassium | 623.2 | 808.9785 | | 755.9280 | | 6.8 | | P |
| Selenium | | 0.4965 | B | 0.4495 | B | 9.9 | | P |
| Silver | | 0.2742 | U | 0.2664 | U | | | P |
| Sodium | | 276.6804 | B | 245.1135 | B | 12.1 | | P |
| Thallium | | 0.7104 | U | 0.8815 | B | 200.0 | | P |
| Vanadium | | 58.5266 | | 75.5444 | | 25.4 | * | P |
| Zinc | | 55.3610 | | 50.0642 | | 10.0 | | P |

USEPA - CLP FORMS

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003

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

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | |
|---------|----------------|-------|----|---------------|---------|-------------|-------|
| | True | Found | %R | True | Found C | Limits | %R |
| Lead | | | | 22.0 | 22.1 | 17.6 26.4 | 100.5 |

USEPA - CLP FORMS

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003

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

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|---------|----------------|-------|----|---------------|-------|---|--------|-------------|
| | True | Found | %R | True | Found | C | Limits | %R |
| Mercury | | | | 0.1 | 0.1 | | 0.1 | 0.1 100.0 |

USEPA - CLP FORMS

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003

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

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|-----------|----------------|-------|----|---------------|--------|---|-----------------|-------|
| | True | Found | %R | True | Found | C | Limits | %R |
| Aluminum | | | | 200.0 | 218.6 | | 160.0 240.0 | 109.3 |
| Antimony | | | | 50.0 | 54.4 | | 40.0 60.0 | 108.8 |
| Arsenic | | | | 24.0 | 25.0 | | 19.2 28.8 | 104.2 |
| Barium | | | | 200.0 | 213.6 | | 160.0 240.0 | 106.8 |
| Beryllium | | | | 5.0 | 5.4 | | 4.0 6.0 | 108.0 |
| Cadmium | | | | 25.0 | 26.6 | | 20.0 30.0 | 106.4 |
| Calcium | | | | 2000.0 | 2174.0 | | 1600.0 2400.0 | 108.7 |
| Chromium | | | | 20.0 | 21.7 | | 16.0 24.0 | 108.5 |
| Cobalt | | | | 50.0 | 53.0 | | 40.0 60.0 | 106.0 |
| Copper | | | | 25.0 | 28.1 | | 20.0 30.0 | 112.4 |
| Iron | | | | 100.0 | 109.3 | | 80.0 120.0 | 109.3 |
| Magnesium | | | | 2000.0 | 2127.0 | | 1600.0 2400.0 | 106.4 |
| Manganese | | | | 50.0 | 54.1 | | 40.0 60.0 | 108.2 |
| Nickel | | | | 50.0 | 52.6 | | 40.0 60.0 | 105.2 |
| Potassium | | | | 2000.0 | 2083.0 | | 1600.0 2400.0 | 104.2 |
| Selenium | | | | 21.0 | 20.5 | | 16.8 25.2 | 97.6 |
| Silver | | | | 25.0 | 26.7 | | 20.0 30.0 | 106.8 |
| Sodium | | | | 2000.0 | 2179.0 | | 1600.0 2400.0 | 109.0 |
| Thallium | | | | 25.0 | 25.8 | | 20.0 30.0 | 103.2 |
| Vanadium | | | | 50.0 | 54.4 | | 40.0 60.0 | 108.8 |
| Zinc | | | | 50.0 | 53.3 | | 40.0 60.0 | 106.6 |

USEPA - CLP FORMS

9

ICP SERIAL DILUTIONS

SAMPLE NO.

BLACSTPSD01L

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVT Case No.: 23046SAS No.: _____ SDG No.: GCD003Matrix (soil/water): SOILLevel (low/med): LOW

Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | | Serial Dilution Result (S) | | % Differ- ence | Q | M |
|-----------|------------------------------|---|-------------------------------|---|----------------------|---|---|
| | | C | | C | | | |
| Aluminum | 99500.00 | | 104400.00 | | 4.9 | | P |
| Antimony | 16.67 | B | 23.50 | U | 100.0 | | P |
| Arsenic | 278.50 | | 300.60 | | 7.9 | | P |
| Barium | 541.40 | | 552.90 | B | 2.1 | | P |
| Beryllium | 2.63 | B | 3.56 | B | 35.4 | | P |
| Cadmium | 2.62 | B | 3.37 | B | 28.6 | | P |
| Calcium | 25010.00 | | 26560.00 | | 6.2 | | P |
| Chromium | 814.50 | | 826.80 | | 1.5 | | P |
| Cobalt | 160.60 | | 166.60 | B | 3.7 | | P |
| Copper | 241.00 | | 235.50 | | 2.3 | | P |
| Iron | 240500.00 | | 250200.00 | | 4.0 | | P |
| Lead | 27.57 | | 24.28 | | 11.9 | | P |
| Magnesium | 83350.00 | | 85790.00 | | 2.9 | | P |
| Manganese | 4354.00 | | 4519.00 | | 3.8 | | P |
| Nickel | 1050.00 | | 1059.00 | | 0.9 | | P |
| Potassium | 6491.00 | | 6961.00 | B | 7.2 | | P |
| Selenium | 3.98 | B | 17.00 | U | 100.0 | | P |
| Silver | 2.20 | U | 11.00 | U | | | P |
| Sodium | 2220.00 | B | 3054.00 | B | 37.6 | | P |
| Thallium | 5.70 | U | 28.50 | U | | | P |
| Vanadium | 469.60 | | 482.50 | | 2.7 | | P |
| Zinc | 444.20 | | 467.30 | | 5.2 | | P |

USEPA - CLP FORMS

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003

ICP ID Number: _____ Date: 08/20/03

Flame AA ID Number: LEEMAN PS200

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:

USEPA - CLP FORMS

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003ICP ID Number: TJA ICAP 4 Date: 07/01/03

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 |
| Selenium | 196.026 | | 5 | 3.4 | 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: _____

USEPA - CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003
 ICP ID Number: TJA ICAP 4 Date: 06/30/03

| 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: _____

USEPA - CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003ICP ID Number: TJA ICAP 4 Date: 06/30/03

| 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: _____

USEPA - CLP FORMS

11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003ICP ID Number: TJA ICAP 4 Date: 06/30/03

| 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: _____

USEPA - CLP FORMS

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003ICP ID Number: TJA ICAP 4 Date: 07/01/03

| 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 |
| Selenium | 10.00 | 5000.0 | 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 FORMS

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003Method: CV

| EPA Sample No. | Preparation Date | Initial Weight (α) | Volume (mL) |
|-------------------|---------------------|--------------------------------|----------------|
| BLACADSSD11 | 09/16/03 | 0.65 | 100.0 |
| BLACPDSSD10 | 09/16/03 | 0.67 | 100.0 |
| BLACPDSSD41 | 09/16/03 | 0.63 | 100.0 |
| BLACPDSSD43 | 09/16/03 | 0.68 | 100.0 |
| BLACSTPSD01 | 09/16/03 | 0.69 | 100.0 |
| BLACSTPSD01D | 09/16/03 | 0.68 | 100.0 |
| BLACSTPSD01S | 09/16/03 | 0.69 | 100.0 |
| BLACSTPSD02 | 09/16/03 | 0.61 | 100.0 |
| BLACSTPSD03 | 09/16/03 | 0.68 | 100.0 |
| BLACSTPSD04 | 09/16/03 | 0.60 | 100.0 |
| BLACSTPSD42 | 09/16/03 | 0.70 | 100.0 |
| BLACSTRSD02 | 09/16/03 | 0.67 | 100.0 |
| BLACSTRSD04 | 09/16/03 | 0.63 | 100.0 |
| BLACSTRSD42 | 09/16/03 | 0.60 | 100.0 |
| BLUEPDSSD16 | 09/16/03 | 0.70 | 100.0 |
| LCSS0916A | 09/16/03 | 1.00 | 100.0 |
| PBS0916A | 09/16/03 | 0.60 | 100.0 |

USEPA - CLP FORMS

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003Method: P

| EPA Sample No. | Preparation Date | Initial Weight (g) | Volume (mL) |
|-------------------|---------------------|-----------------------|----------------|
| BLACADSSD11 | 08/22/03 | 1.05 | 100.0 |
| BLACPDSSD10 | 08/22/03 | 1.00 | 100.0 |
| BLACPDSSD41 | 08/22/03 | 1.00 | 100.0 |
| BLACPDSSD43 | 08/22/03 | 1.02 | 100.0 |
| BLACSTPSD01 | 08/22/03 | 1.03 | 100.0 |
| BLACSTPSD01D | 08/22/03 | 1.06 | 100.0 |
| BLACSTPSD01S | 08/22/03 | 1.10 | 100.0 |
| BLACSTPSD02 | 08/22/03 | 1.05 | 100.0 |
| BLACSTPSD03 | 08/22/03 | 1.06 | 100.0 |
| BLACSTPSD04 | 08/22/03 | 1.09 | 100.0 |
| BLACSTPSD42 | 08/22/03 | 1.20 | 100.0 |
| BLACSTRSD02 | 08/22/03 | 1.08 | 100.0 |
| BLACSTRSD04 | 08/22/03 | 1.00 | 100.0 |
| BLACSTRSD42 | 08/22/03 | 1.04 | 100.0 |
| BLUEPDSSD16 | 08/22/03 | 1.00 | 100.0 |
| LCSS0822D | 08/22/03 | 1.00 | 100.0 |
| PBS0822D | 08/22/03 | 1.00 | 100.0 |

USEPA - CLP FORMS

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003Method: P

| EPA Sample No. | Preparation Date | Initial Weight (g) | Volume (mL) |
|-------------------|---------------------|-----------------------|----------------|
| BLACADSSD11 | 09/11/03 | 1.07 | 100.0 |
| BLACPDSSD10 | 09/11/03 | 1.04 | 100.0 |
| BLACPDSSD41 | 09/11/03 | 1.10 | 100.0 |
| BLACPDSSD43 | 09/11/03 | 1.02 | 100.0 |
| BLACSTPSD01 | 09/11/03 | 1.08 | 100.0 |
| BLACSTPSD01D | 09/11/03 | 1.08 | 100.0 |
| BLACSTPSD01S | 09/11/03 | 1.08 | 100.0 |
| BLACSTPSD02 | 09/11/03 | 1.10 | 100.0 |
| BLACSTPSD03 | 09/11/03 | 1.08 | 100.0 |
| BLACSTPSD04 | 09/11/03 | 1.06 | 100.0 |
| BLACSTPSD42 | 09/11/03 | 1.00 | 100.0 |
| BLACSTRSD02 | 09/11/03 | 1.13 | 100.0 |
| BLACSTRSD04 | 09/11/03 | 1.01 | 100.0 |
| BLACSTRSD42 | 09/11/03 | 1.12 | 100.0 |
| BLUEPDSSD16 | 09/11/03 | 1.04 | 100.0 |
| LCSS0911I | 09/11/03 | 1.00 | 100.0 |
| PBS0911I | 09/11/03 | 1.00 | 100.0 |

USEPA - CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003
 Instrument ID Number: TJA ICAP 4 Method: P
 Start Date: 09/13/03 End Date: 09/13/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | A L | N T | V L | Z N | C N | | |
| S0 | 1.00 | 1033 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| S | 1.00 | 1038 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S | 1.00 | 1042 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| S | 1.00 | 1045 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LRS | 1.00 | 1050 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| LRS | 1.00 | 1055 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| LRS | 1.00 | 1100 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| ICV | 1.00 | 1105 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| ICB | 1.00 | 1109 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| ICSA | 1.00 | 1114 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| ICSAB | 1.00 | 1119 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| CRI | 1.00 | 1124 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| CRILOW | 1.00 | 1128 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1133 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| CCB | 1.00 | 1138 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1143 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1147 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1152 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 5.00 | 1157 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1201 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1206 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1211 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1215 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1220 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1225 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1229 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| CCB | 1.00 | 1234 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| PBS0911I | 1.00 | 1239 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| LCSS0911I | 1.00 | 1244 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| BLACSTRSD42 | 1.00 | 1248 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| BLACPDSSD41 | 1.00 | 1253 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| BLACSTPSD01 | 1.00 | 1258 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| BLACSTPSD01L | 5.00 | 1302 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| BLACSTPSD01A | 1.00 | 1307 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| BLACSTPSD01D | 1.00 | 1312 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| BLACSTPSD01S | 1.00 | 1316 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| BLACADSSD11 | 1.00 | 1321 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1326 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |

USEPA - CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003
 Instrument ID Number: TJA ICAP 4 Method: P
 Start Date: 09/13/03 End Date: 09/13/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|--------|--------|---|--------|--------|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K | S E | A G | N A | T L | V | Z N | C N | | |
| CCB | 1.00 | 1331 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| BLACPDSSD43 | 1.00 | 1335 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| BLACSTPSD02 | 1.00 | 1340 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| BLACSTPSD42 | 1.00 | 1345 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| BLACSTRSD02 | 1.00 | 1349 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| BLACSTPSD03 | 1.00 | 1354 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| BLUEPDSSD16 | 1.00 | 1359 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| BLACPDSSD10 | 1.00 | 1403 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| BLACSTPSD04 | 1.00 | 1408 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| BLACSTRSD04 | 1.00 | 1413 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1417 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| CCB | 1.00 | 1422 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| ICSA | 1.00 | 1427 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| ICSAB | 1.00 | 1432 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| CRI | 1.00 | 1437 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| CRILOW | 1.00 | 1441 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1446 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| CCB | 1.00 | 1451 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |

USEPA - CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003
 Instrument ID Number: TJA ICAP 4 Method: P
 Start Date: 09/09/03 End Date: 09/09/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|-------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C F | P B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V L | Z N | C N | | | |
| S0 | 1.00 | 0222 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| S | 1.00 | 0227 | | X | | | | | X | | | | X | X | | | | X | | X | | | | | | | | | |
| S | 1.00 | 0231 | | | X | X | | | | | | | | | | | | X | | | X | | | | | | | | |
| S | 1.00 | 0235 | | | | | X | X | X | | X | X | X | | X | X | | | X | | X | | | X | X | | | | |
| LRS | 1.00 | 0240 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| LRS | 1.00 | 0246 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| LRS | 1.00 | 0251 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| ICV | 1.00 | 0256 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| ICB | 1.00 | 0301 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| ICSA | 1.00 | 0306 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| ICSAB | 1.00 | 0311 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CRI | 1.00 | 0316 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CCV | 1.00 | 0321 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CCB | 1.00 | 0327 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| PBS0822D | 1.00 | 0332 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| LCSS0822D | 1.00 | 0337 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTRSD42 | 1.00 | 0342 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACPDSSD41 | 1.00 | 0347 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTPSD01 | 1.00 | 0352 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTPSD01L | 5.00 | 0357 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTPSD01A | 1.00 | 0402 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTPSD01D | 1.00 | 0407 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTPSD01S | 1.00 | 0412 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACADSSD11 | 1.00 | 0417 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CCV | 1.00 | 0422 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CCB | 1.00 | 0427 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACPDSSD43 | 1.00 | 0432 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTPSD02 | 1.00 | 0437 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTPSD42 | 1.00 | 0443 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTRSD02 | 1.00 | 0448 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTPSD03 | 1.00 | 0453 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLUEPDSSD16 | 1.00 | 0458 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACPDSSD10 | 1.00 | 0503 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTPSD04 | 1.00 | 0508 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTRSD04 | 1.00 | 0513 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACPDSSD41 | 10.00 | 0518 | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| CCV | 1.00 | 0523 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CCB | 1.00 | 0528 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |

USEPA - CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD003
 Instrument ID Number: TJA ICAP 4 Method: P
 Start Date: 09/09/03 End Date: 09/09/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V L | Z N | C N | | |
| ZZZZZZ | 10.00 | 0533 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLUEPDSSD16 | 100.00 | 0538 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLACSTPSD04 | 10.00 | 0543 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ICSA | 1.00 | 0548 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| ICSAB | 1.00 | 0553 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CRI | 1.00 | 0559 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CCV | 1.00 | 0604 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CCB | 1.00 | 0609 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |



**Geotechnical Analysis
Sample Data Summary Package**

EASEAT SDG # GCD003

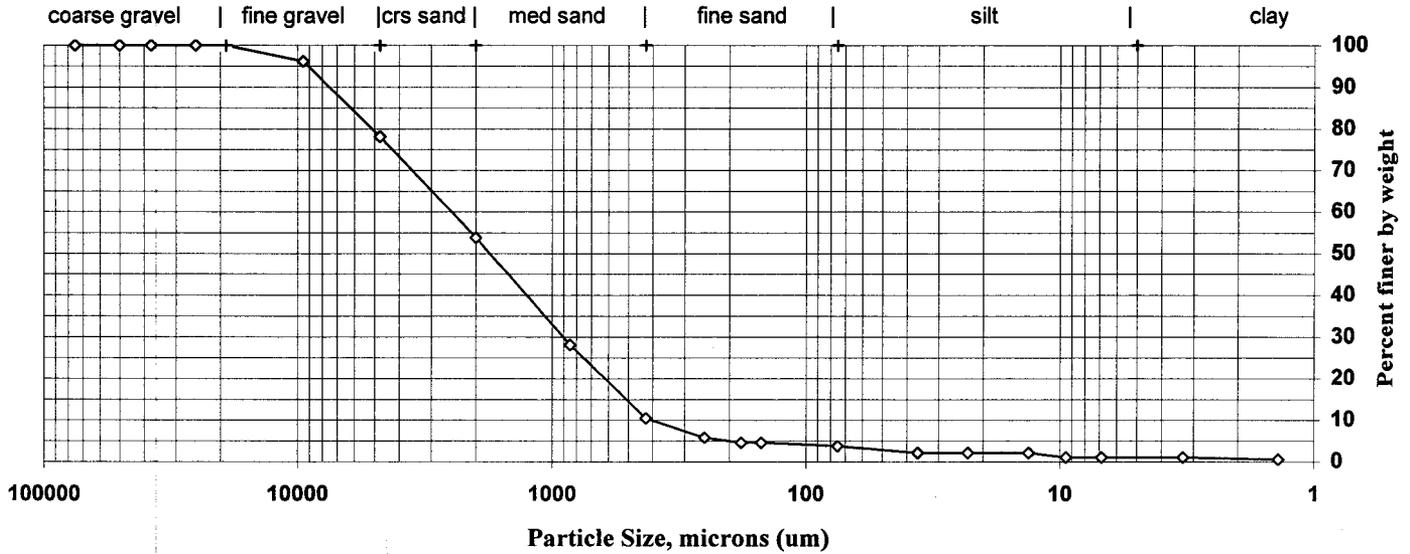
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|----------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>95020</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD003</u> |
| Date Received: <u>26-Jul-03</u> | Start Date: <u>12-Aug-03</u> | End Date: <u>22-Aug-03</u> |

| | |
|----------------|-------------------|
| Lab ID: 536011 | Sample ID: RSD-42 |
|----------------|-------------------|

| | |
|---|-------------------------------------|
| Percent Solids: <u>78.1%</u> | Maximum Particle Size: <u>19 mm</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>subrounded</u> |
| Non-soil mass: <u>NA</u> | Hardness (> #10): <u>hard</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 96.2 | 3.8 |
| #4 | 4750 | 78.2 | 18.0 |
| #10 | 2000 | 53.8 | 24.4 |
| #20 | 850 | 28.1 | 25.7 |
| #40 | 425 | 10.5 | 17.6 |
| #60 | 250 | 5.8 | 4.7 |
| #80 | 180 | 4.6 | 1.2 |
| #100 | 150 | 4.6 | 0.0 |
| #200 | 75 | 3.7 | 0.8 |
| Hydrometer | 36.3 | 2.1 | 1.6 |
| | 22.9 | 2.1 | 0.0 |
| | 13.2 | 2.1 | 0.0 |
| | 9.4 | 1.1 | 1.1 |
| | 6.9 | 1.1 | 0.0 |
| | 3.3 | 1.1 | 0.0 |
| V | 1.4 | 0.6 | 0.4 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 21.8 |
| Sand | 74.4 |
| Coarse Sand | 24.4 |
| Medium Sand | 43.3 |
| Fine Sand | 6.8 |
| Silt | 2.7 |
| Clay | 1.1 |

Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

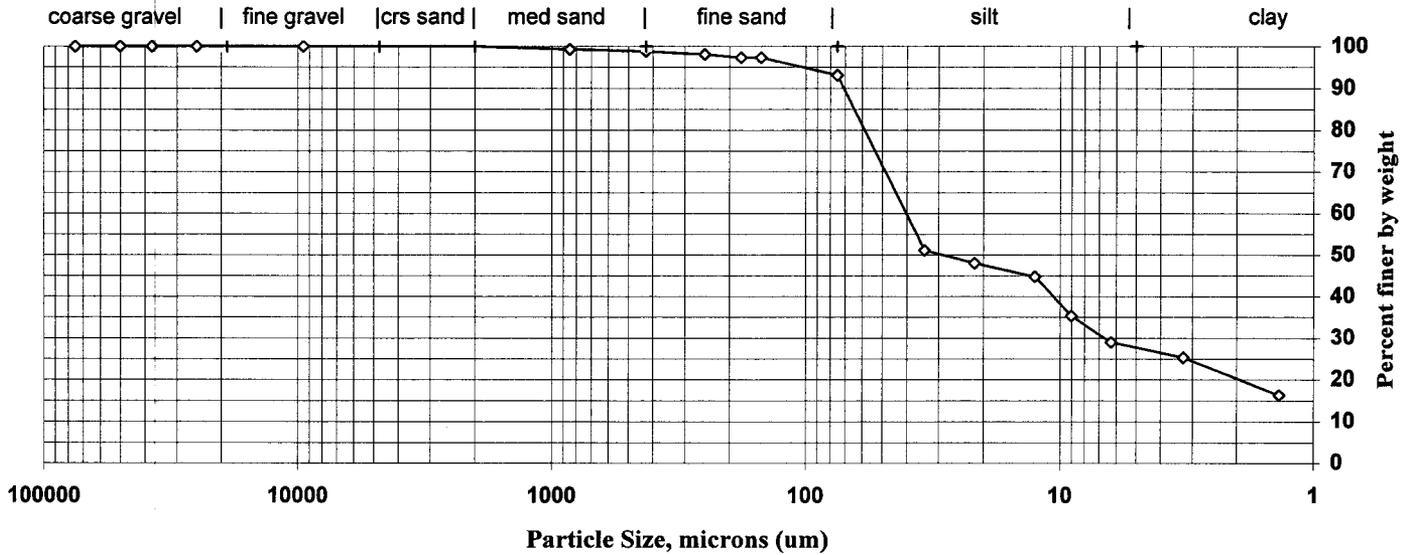
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|----------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>95020</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD003</u> |
| Date Received: <u>26-Jul-03</u> | Start Date: <u>12-Aug-03</u> | End Date: <u>22-Aug-03</u> |

| | |
|----------------|-------------------|
| Lab ID: 536012 | Sample ID: SSD-41 |
|----------------|-------------------|

| | |
|---|--|
| Percent Solids: <u>24.2%</u> | Maximum Particle Size: <u>Med sand</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>N/A</u> |
| Non-soil mass: <u>0.3%</u> | Hardness (> #10): <u>N/A</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 100.0 | 0.0 |
| #4 | 4750 | 100.0 | 0.0 |
| #10 | 2000 | 100.0 | 0.0 |
| #20 | 850 | 99.3 | 0.7 |
| #40 | 425 | 98.9 | 0.5 |
| #60 | 250 | 98.1 | 0.7 |
| #80 | 180 | 97.3 | 0.8 |
| #100 | 150 | 97.3 | 0.0 |
| #200 | 75 | 93.1 | 4.2 |
| Hydrometer | 34.1 | 51.2 | 41.9 |
| | 21.7 | 48.0 | 3.2 |
| | 12.6 | 44.8 | 3.2 |
| | 9.0 | 35.3 | 9.5 |
| | 6.3 | 29.0 | 6.3 |
| | 3.2 | 25.3 | 3.7 |
| V | 1.4 | 16.3 | 9.0 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 0.0 |
| Sand | 6.9 |
| Coarse Sand | 0.0 |
| Medium Sand | 1.1 |
| Fine Sand | 5.8 |
| Silt | 64.1 |
| Clay | 29.0 |

Dispersion Device: Mechanical mixer with a metal paddle.
 Dispersion Period: 1 minute

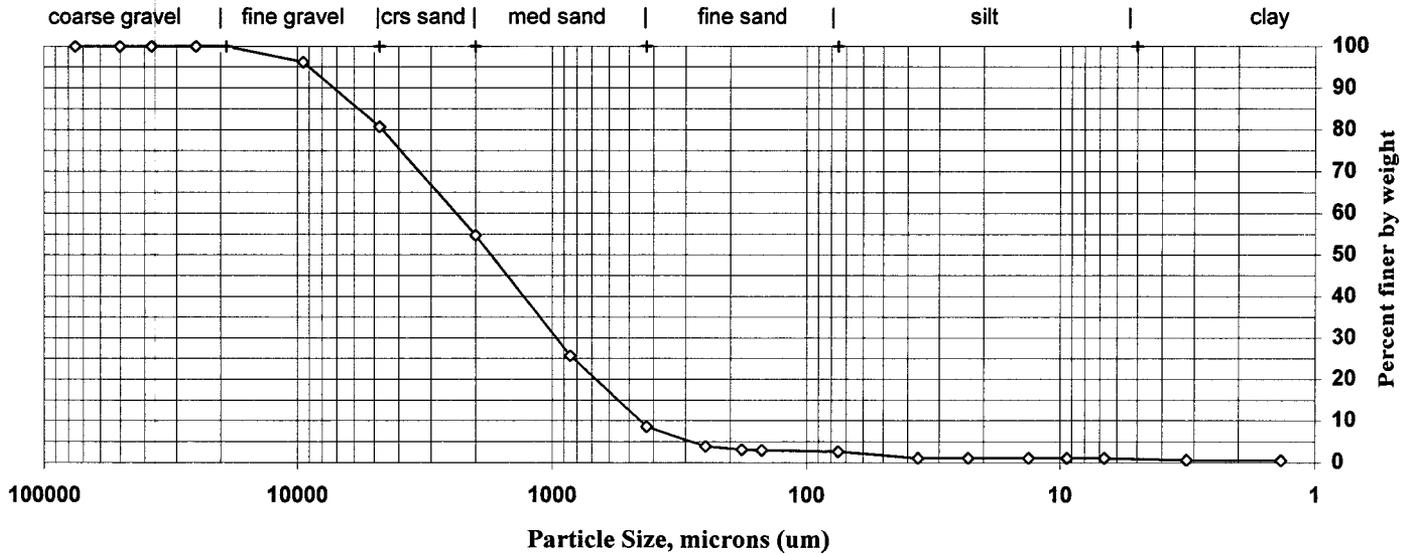
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|----------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>95020</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD003</u> |
| Date Received: <u>26-Jul-03</u> | Start Date: <u>12-Aug-03</u> | End Date: <u>22-Aug-03</u> |

| | |
|----------------|-------------------|
| Lab ID: 536013 | Sample ID: PSD-01 |
|----------------|-------------------|

| | |
|---|-------------------------------------|
| Percent Solids: <u>83.1%</u> | Maximum Particle Size: <u>19 mm</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>subrounded</u> |
| Non-soil mass: <u>NA</u> | Hardness (> #10): <u>hard</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 96.2 | 3.8 |
| #4 | 4750 | 80.6 | 15.6 |
| #10 | 2000 | 54.8 | 25.9 |
| #20 | 850 | 25.7 | 29.1 |
| #40 | 425 | 8.6 | 17.1 |
| #60 | 250 | 3.9 | 4.7 |
| #80 | 180 | 3.1 | 0.8 |
| #100 | 150 | 2.9 | 0.1 |
| #200 | 75 | 2.6 | 0.4 |
| Hydrometer | 36.3 | 1.0 | 1.5 |
| | 23.0 | 1.0 | 0.0 |
| | 13.3 | 1.0 | 0.0 |
| | 9.4 | 1.0 | 0.0 |
| | 6.7 | 1.0 | 0.0 |
| | 3.2 | 0.6 | 0.4 |
| V | 1.4 | 0.6 | 0.1 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 19.4 |
| Sand | 78.1 |
| Coarse Sand | 25.9 |
| Medium Sand | 46.2 |
| Fine Sand | 6.0 |
| Silt | 1.5 |
| Clay | 1.0 |

Dispersion Device: Mechanical mixer with a metal paddle.
 Dispersion Period: 1 minute

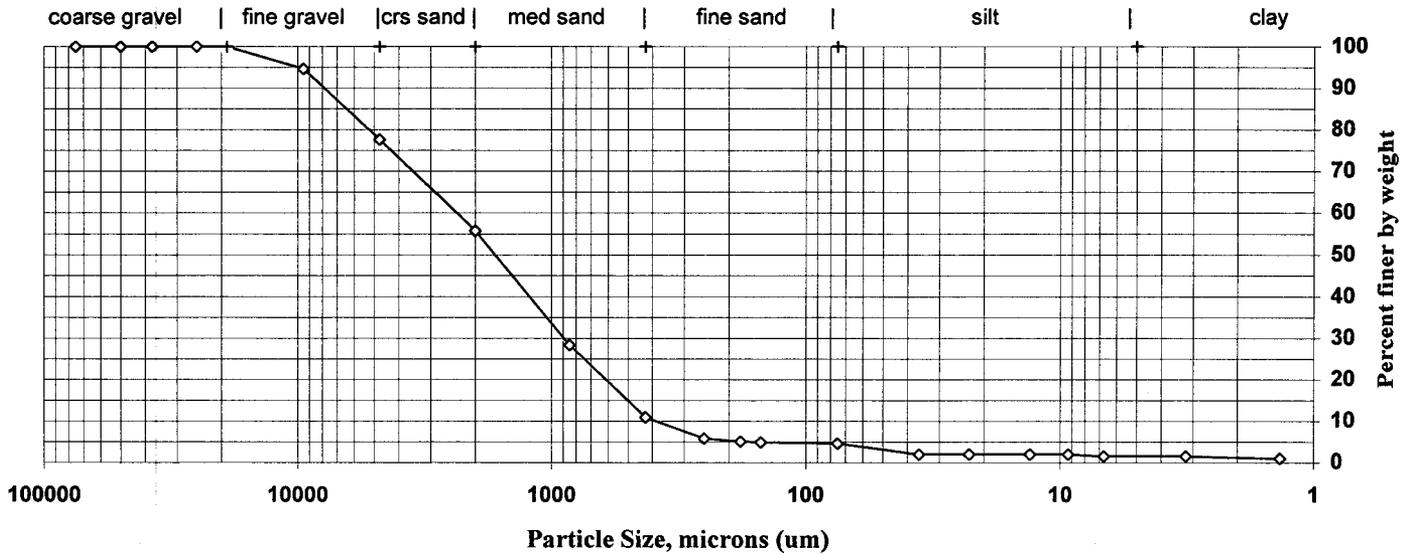
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|----------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>95020</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD003</u> |
| Date Received: <u>26-Jul-03</u> | Start Date: <u>12-Aug-03</u> | End Date: <u>22-Aug-03</u> |

| | |
|------------------|----------------------|
| Lab ID: 536013DP | Sample ID: PSD-01REP |
|------------------|----------------------|

| | |
|---|-------------------------------------|
| Percent Solids: <u>84.7%</u> | Maximum Particle Size: <u>19 mm</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>subrounded</u> |
| Non-soil mass: <u>NA</u> | Hardness (> #10): <u>hard</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 94.6 | 5.4 |
| #4 | 4750 | 77.6 | 17.0 |
| #10 | 2000 | 55.7 | 21.9 |
| #20 | 850 | 28.4 | 27.3 |
| #40 | 425 | 11.0 | 17.4 |
| #60 | 250 | 5.8 | 5.1 |
| #80 | 180 | 5.0 | 0.8 |
| #100 | 150 | 4.9 | 0.1 |
| #200 | 75 | 4.6 | 0.3 |
| Hydrometer | 36.0 | 2.0 | 2.6 |
| | 22.8 | 2.0 | 0.0 |
| | 13.2 | 2.0 | 0.0 |
| | 9.3 | 2.0 | 0.0 |
| | 6.7 | 1.5 | 0.5 |
| | 3.2 | 1.5 | 0.0 |
| V | 1.4 | 1.0 | 0.5 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 22.4 |
| Sand | 73.0 |
| Coarse Sand | 21.9 |
| Medium Sand | 44.7 |
| Fine Sand | 6.4 |
| Silt | 3.1 |
| Clay | 1.5 |

Dispersion Device: Mechanical mixer with a metal paddle.
 Dispersion Period: 1 minute

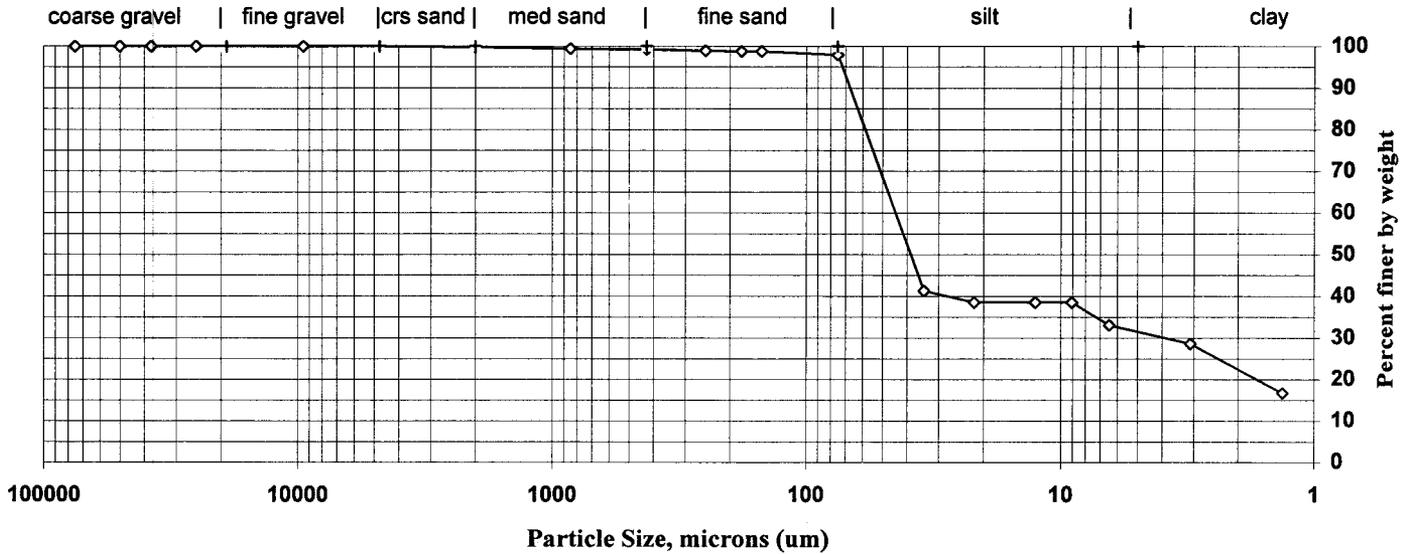
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|----------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>95020</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD003</u> |
| Date Received: <u>26-Jul-03</u> | Start Date: <u>12-Aug-03</u> | End Date: <u>22-Aug-03</u> |

| | |
|----------------|-------------------|
| Lab ID: 536014 | Sample ID: SSD-11 |
|----------------|-------------------|

| | |
|---|--|
| Percent Solids: <u>26.6%</u> | Maximum Particle Size: <u>Crs sand</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>subangular</u> |
| Non-soil mass: <u>1.1%</u> | Hardness (> #10): <u>hard</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 100.0 | 0.0 |
| #4 | 4750 | 100.0 | 0.0 |
| #10 | 2000 | 99.8 | 0.2 |
| #20 | 850 | 99.4 | 0.3 |
| #40 | 425 | 99.3 | 0.2 |
| #60 | 250 | 98.9 | 0.3 |
| #80 | 180 | 98.8 | 0.1 |
| #100 | 150 | 98.7 | 0.0 |
| #200 | 75 | 97.9 | 0.8 |
| Hydrometer | 34.3 | 41.3 | 56.7 |
| | 21.8 | 38.5 | 2.7 |
| | 12.6 | 38.5 | 0.0 |
| | 9.0 | 38.5 | 0.0 |
| | 6.5 | 33.1 | 5.4 |
| | 3.1 | 28.6 | 4.5 |
| V | 1.3 | 16.8 | 11.8 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 0.0 |
| Sand | 2.1 |
| Coarse Sand | 0.2 |
| Medium Sand | 0.5 |
| Fine Sand | 1.3 |
| Silt | 64.8 |
| Clay | 33.1 |

Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

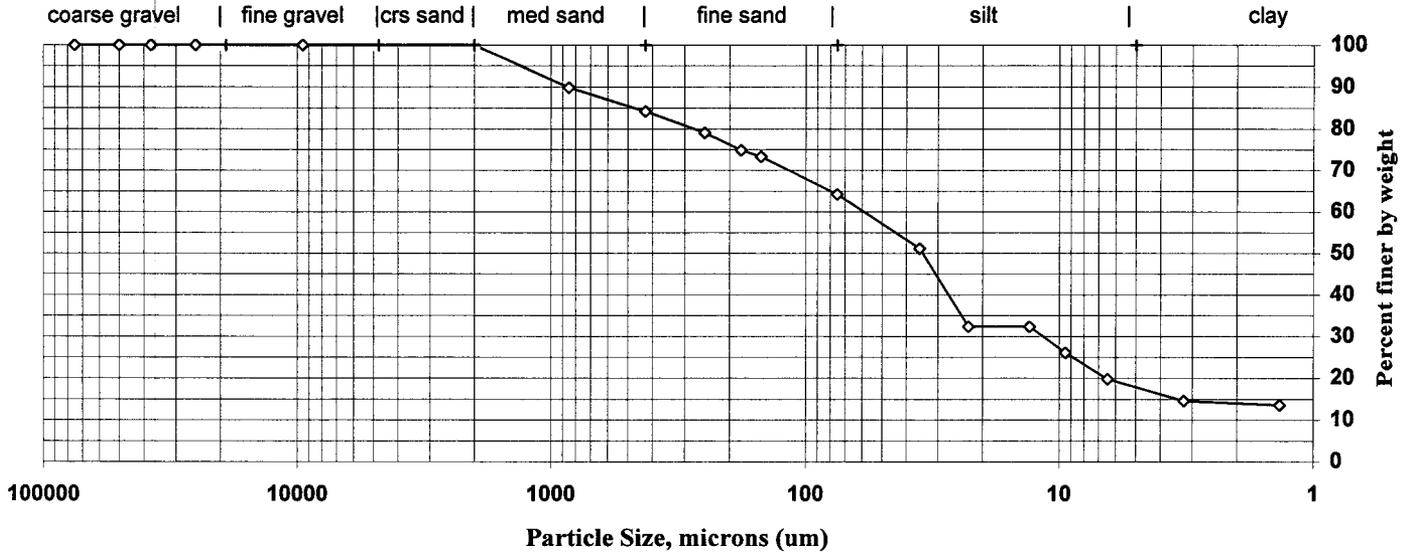
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|----------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>95020</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD003</u> |
| Date Received: <u>26-Jul-03</u> | Start Date: <u>12-Aug-03</u> | End Date: <u>22-Aug-03</u> |

| | |
|----------------|-------------------|
| Lab ID: 536015 | Sample ID: SSD-43 |
|----------------|-------------------|

| | |
|---|--|
| Percent Solids: <u>12.7%</u> | Maximum Particle Size: <u>Med sand</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>N/A</u> |
| Non-soil mass: <u>16.8%</u> | Hardness (> #10): <u>N/A</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 100.0 | 0.0 |
| #4 | 4750 | 100.0 | 0.0 |
| #10 | 2000 | 100.0 | 0.0 |
| #20 | 850 | 89.9 | 10.1 |
| #40 | 425 | 84.2 | 5.7 |
| #60 | 250 | 79.0 | 5.1 |
| #80 | 180 | 74.9 | 4.1 |
| #100 | 150 | 73.3 | 1.6 |
| #200 | 75 | 64.2 | 9.1 |
| Hydrometer | 35.4 | 51.2 | 13.0 |
| | 22.7 | 32.4 | 18.8 |
| | 13.1 | 32.4 | 0.0 |
| | 9.5 | 26.1 | 6.3 |
| | 6.4 | 19.8 | 6.3 |
| | 3.2 | 14.6 | 5.2 |
| V | 1.4 | 13.6 | 1.0 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 0.0 |
| Sand | 35.8 |
| Coarse Sand | 0.0 |
| Medium Sand | 15.8 |
| Fine Sand | 20.0 |
| Silt | 44.4 |
| Clay | 19.8 |

Dispersion Device: Mechanical mixer with a metal paddle.
 Dispersion Period: 1 minute

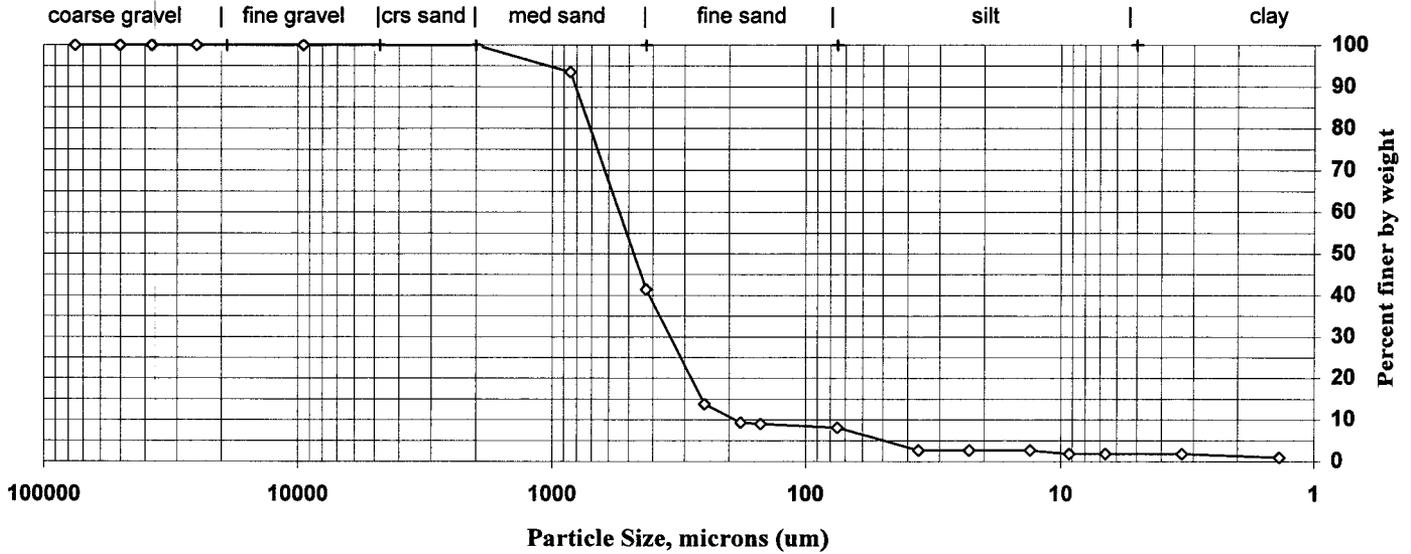
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|----------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>95020</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD003</u> |
| Date Received: <u>26-Jul-03</u> | Start Date: <u>12-Aug-03</u> | End Date: <u>22-Aug-03</u> |

| | |
|----------------|-------------------|
| Lab ID: 536016 | Sample ID: PSD-02 |
|----------------|-------------------|

| | |
|---|--|
| Percent Solids: <u>79.0%</u> | Maximum Particle Size: <u>Crs sand</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>subangular</u> |
| Non-soil mass: <u>0.0%</u> | Hardness (> #10): <u>brittle</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 100.0 | 0.0 |
| #4 | 4750 | 100.0 | 0.0 |
| #10 | 2000 | 100.0 | 0.0 |
| #20 | 850 | 93.5 | 6.5 |
| #40 | 425 | 41.5 | 52.0 |
| #60 | 250 | 13.7 | 27.7 |
| #80 | 180 | 9.3 | 4.5 |
| #100 | 150 | 9.0 | 0.3 |
| #200 | 75 | 8.1 | 0.9 |
| Hydrometer | 36.2 | 2.7 | 5.4 |
| | 22.9 | 2.7 | 0.0 |
| | 13.2 | 2.7 | 0.0 |
| | 9.2 | 1.8 | 0.8 |
| | 6.6 | 1.8 | 0.0 |
| | 3.3 | 1.8 | 0.0 |
| V | 1.4 | 1.0 | 0.8 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 0.0 |
| Sand | 91.9 |
| Coarse Sand | 0.0 |
| Medium Sand | 58.5 |
| Fine Sand | 33.4 |
| Silt | 6.3 |
| Clay | 1.8 |

Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

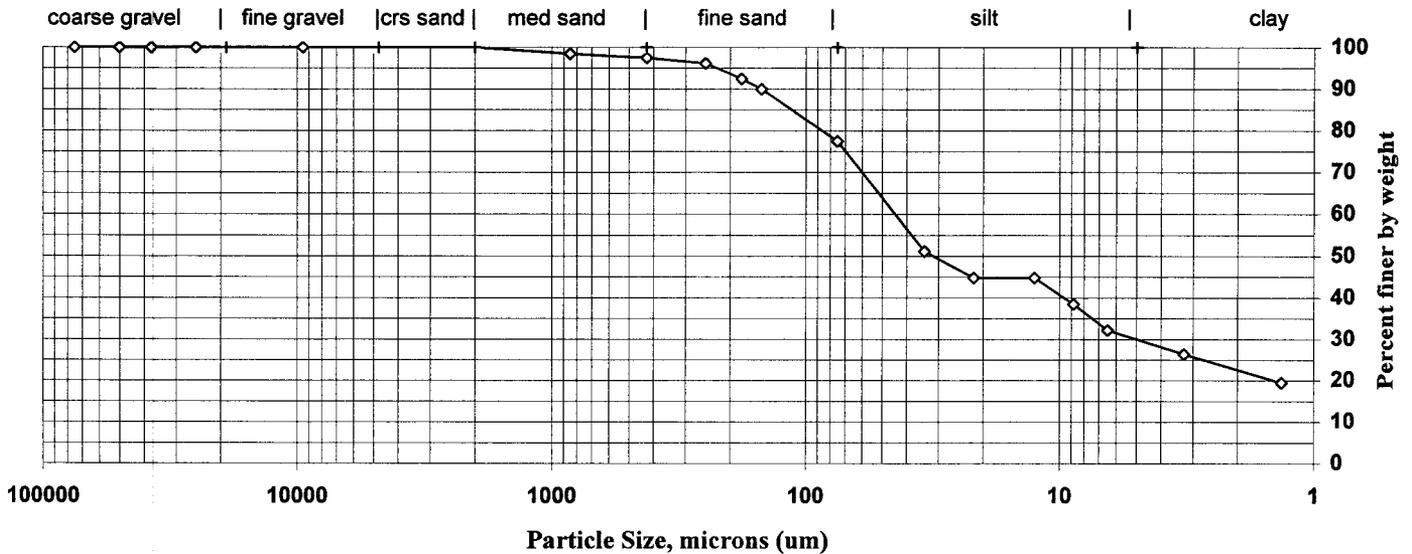
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|----------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>95020</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD003</u> |
| Date Received: <u>26-Jul-03</u> | Start Date: <u>12-Aug-03</u> | End Date: <u>22-Aug-03</u> |

| | |
|----------------|-------------------|
| Lab ID: 536017 | Sample ID: PSD-42 |
|----------------|-------------------|

| | |
|---|--|
| Percent Solids: <u>22.9%</u> | Maximum Particle Size: <u>Med sand</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>N/A</u> |
| Non-soil mass: <u>0.9%</u> | Hardness (> #10): <u>N/A</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 100.0 | 0.0 |
| #4 | 4750 | 100.0 | 0.0 |
| #10 | 2000 | 100.0 | 0.0 |
| #20 | 850 | 98.5 | 1.5 |
| #40 | 425 | 97.5 | 1.0 |
| #60 | 250 | 96.2 | 1.3 |
| #80 | 180 | 92.4 | 3.7 |
| #100 | 150 | 90.0 | 2.5 |
| #200 | 75 | 77.4 | 12.5 |
| Hydrometer | 34.1 | 51.1 | 26.3 |
| | 21.8 | 44.8 | 6.3 |
| | 12.6 | 44.8 | 0.0 |
| | 8.8 | 38.5 | 6.3 |
| | 6.5 | 32.2 | 6.3 |
| | 3.3 | 26.4 | 5.8 |
| V | 1.3 | 19.5 | 6.9 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 0.0 |
| Sand | 22.6 |
| Coarse Sand | 0.0 |
| Medium Sand | 2.5 |
| Fine Sand | 20.0 |
| Silt | 45.3 |
| Clay | 32.2 |

Dispersion Device: Mechanical mixer with a metal paddle.
 Dispersion Period: 1 minute

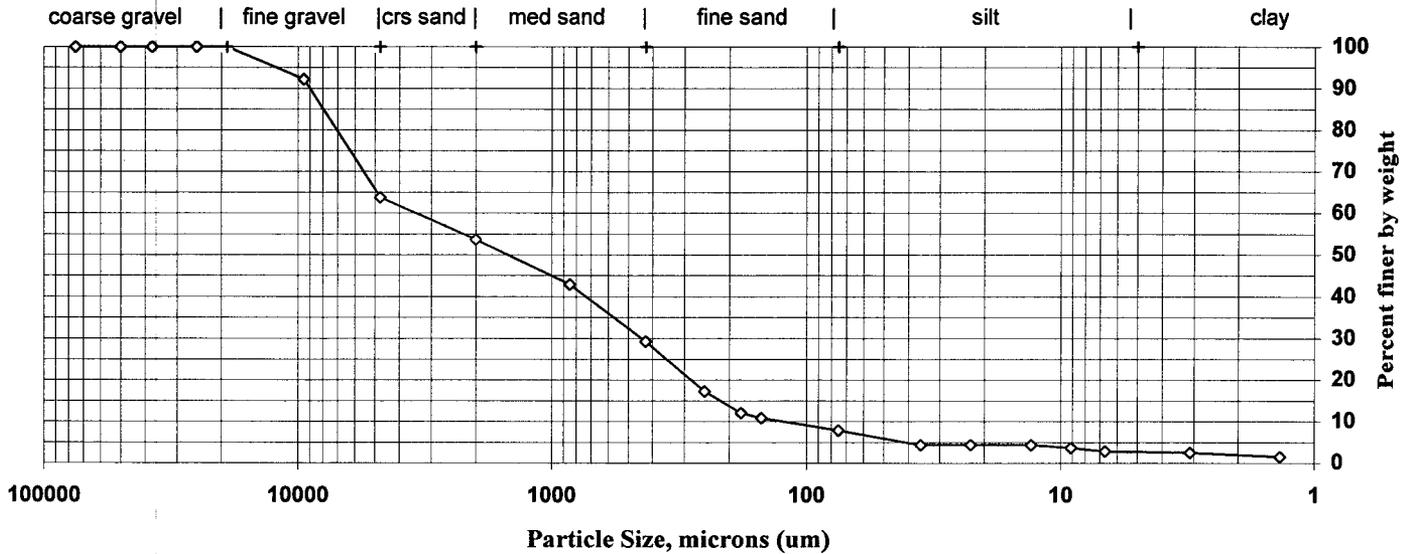
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|----------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>95020</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD003</u> |
| Date Received: <u>26-Jul-03</u> | Start Date: <u>12-Aug-03</u> | End Date: <u>22-Aug-03</u> |

| | |
|----------------|-------------------|
| Lab ID: 536018 | Sample ID: RSD-02 |
|----------------|-------------------|

| | |
|---|-------------------------------------|
| Percent Solids: <u>87.3%</u> | Maximum Particle Size: <u>19 mm</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>subangular</u> |
| Non-soil mass: <u>0.0%</u> | Hardness (> #10): <u>hard</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 92.2 | 7.8 |
| #4 | 4750 | 63.7 | 28.5 |
| #10 | 2000 | 53.7 | 10.1 |
| #20 | 850 | 42.9 | 10.8 |
| #40 | 425 | 29.3 | 13.6 |
| #60 | 250 | 17.3 | 12.0 |
| #80 | 180 | 12.0 | 5.2 |
| #100 | 150 | 10.9 | 1.2 |
| #200 | 75 | 7.9 | 3.0 |
| Hydrometer | 35.7 | 4.4 | 3.5 |
| | 22.6 | 4.4 | 0.0 |
| | 13.0 | 4.4 | 0.0 |
| | 9.1 | 3.7 | 0.7 |
| | 6.7 | 2.8 | 0.8 |
| | 3.1 | 2.5 | 0.4 |
| V | 1.4 | 1.5 | 0.9 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 36.3 |
| Sand | 55.8 |
| Coarse Sand | 10.1 |
| Medium Sand | 24.4 |
| Fine Sand | 21.4 |
| Silt | 5.0 |
| Clay | 2.8 |

Dispersion Device: Mechanical mixer with a metal paddle.
 Dispersion Period: 1 minute

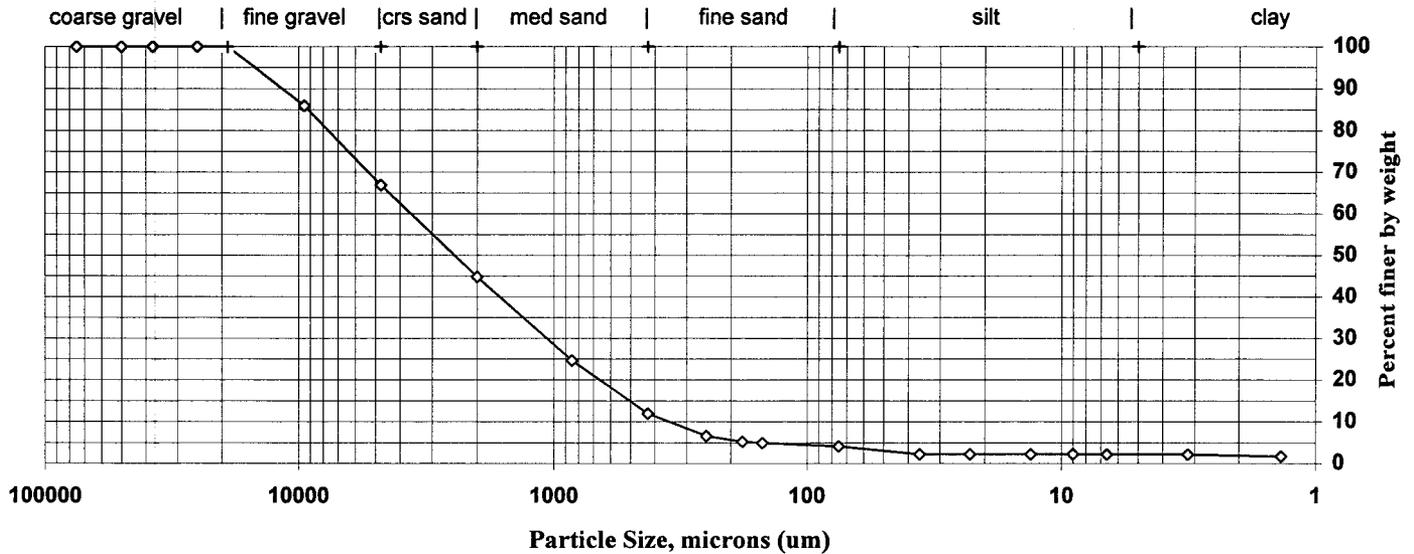
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|----------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>95020</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD003</u> |
| Date Received: <u>26-Jul-03</u> | Start Date: <u>12-Aug-03</u> | End Date: <u>22-Aug-03</u> |

| | |
|----------------|-------------------|
| Lab ID: 536019 | Sample ID: PSD-03 |
|----------------|-------------------|

| | |
|---|-------------------------------------|
| Percent Solids: <u>86.7%</u> | Maximum Particle Size: <u>19 mm</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>subrounded</u> |
| Non-soil mass: <u>NA</u> | Hardness (> #10): <u>hard</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 85.9 | 14.1 |
| #4 | 4750 | 66.9 | 19.1 |
| #10 | 2000 | 44.8 | 22.0 |
| #20 | 850 | 24.6 | 20.2 |
| #40 | 425 | 12.0 | 12.7 |
| #60 | 250 | 6.6 | 5.3 |
| #80 | 180 | 5.2 | 1.4 |
| #100 | 150 | 5.0 | 0.2 |
| #200 | 75 | 4.2 | 0.8 |
| Hydrometer | 36.0 | 2.2 | 1.9 |
| | 22.8 | 2.2 | 0.0 |
| | 13.2 | 2.2 | 0.0 |
| | 9.0 | 2.2 | 0.0 |
| | 6.6 | 2.1 | 0.1 |
| | 3.2 | 2.1 | 0.0 |
| V | 1.4 | 1.7 | 0.4 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 33.1 |
| Sand | 62.7 |
| Coarse Sand | 22.0 |
| Medium Sand | 32.9 |
| Fine Sand | 7.8 |
| Silt | 2.0 |
| Clay | 2.1 |

Dispersion Device: Mechanical mixer with a metal paddle.
 Dispersion Period: 1 minute

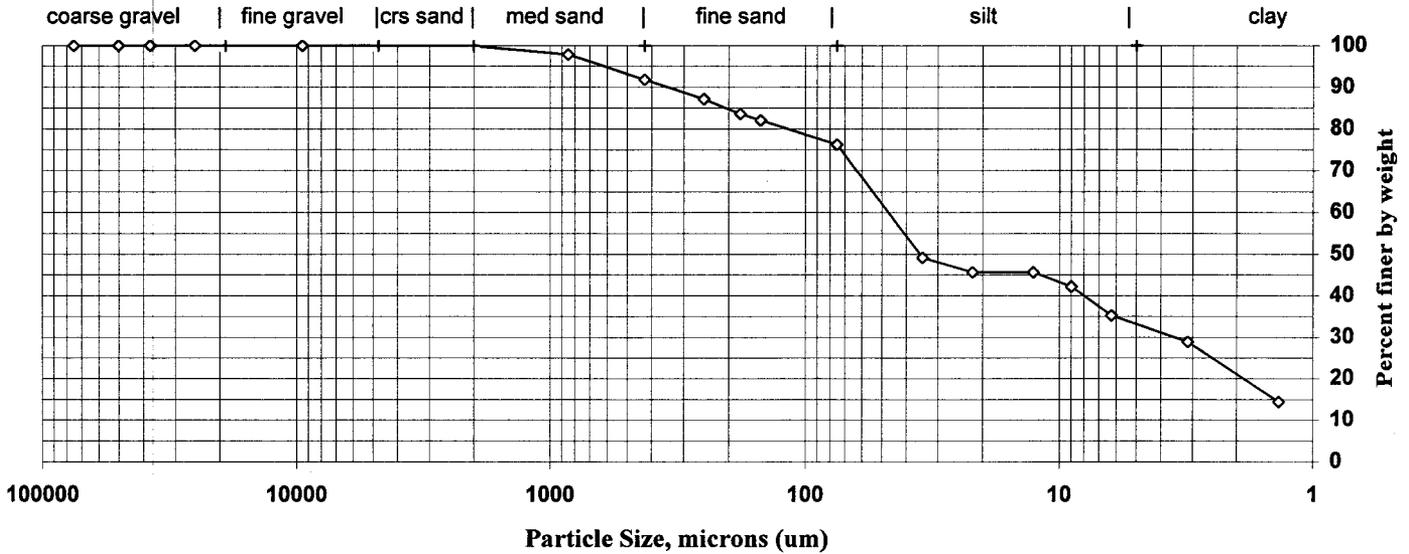
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|----------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>95020</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD003</u> |
| Date Received: <u>26-Jul-03</u> | Start Date: <u>12-Aug-03</u> | End Date: <u>22-Aug-03</u> |

| | |
|----------------|-------------------|
| Lab ID: 536020 | Sample ID: SSD-16 |
|----------------|-------------------|

| | |
|---|--|
| Percent Solids: <u>17.8%</u> | Maximum Particle Size: <u>Crs sand</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>subrounded</u> |
| Non-soil mass: <u>0.2%</u> | Hardness (> #10): <u>soft</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 100.0 | 0.0 |
| #4 | 4750 | 100.0 | 0.0 |
| #10 | 2000 | 100.0 | 0.0 |
| #20 | 850 | 97.9 | 2.1 |
| #40 | 425 | 91.8 | 6.0 |
| #60 | 250 | 87.2 | 4.7 |
| #80 | 180 | 83.5 | 3.6 |
| #100 | 150 | 82.0 | 1.5 |
| #200 | 75 | 76.2 | 5.8 |
| Hydrometer | 34.4 | 49.1 | 27.1 |
| | 21.9 | 45.7 | 3.5 |
| | 12.6 | 45.7 | 0.0 |
| | 9.0 | 42.2 | 3.5 |
| | 6.3 | 35.3 | 6.9 |
| | 3.1 | 28.9 | 6.4 |
| V | 1.4 | 14.5 | 14.5 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 0.0 |
| Sand | 23.8 |
| Coarse Sand | 0.0 |
| Medium Sand | 8.1 |
| Fine Sand | 15.6 |
| Silt | 41.0 |
| Clay | 35.3 |

Dispersion Device: Mechanical mixer with a metal paddle.
 Dispersion Period: 1 minute

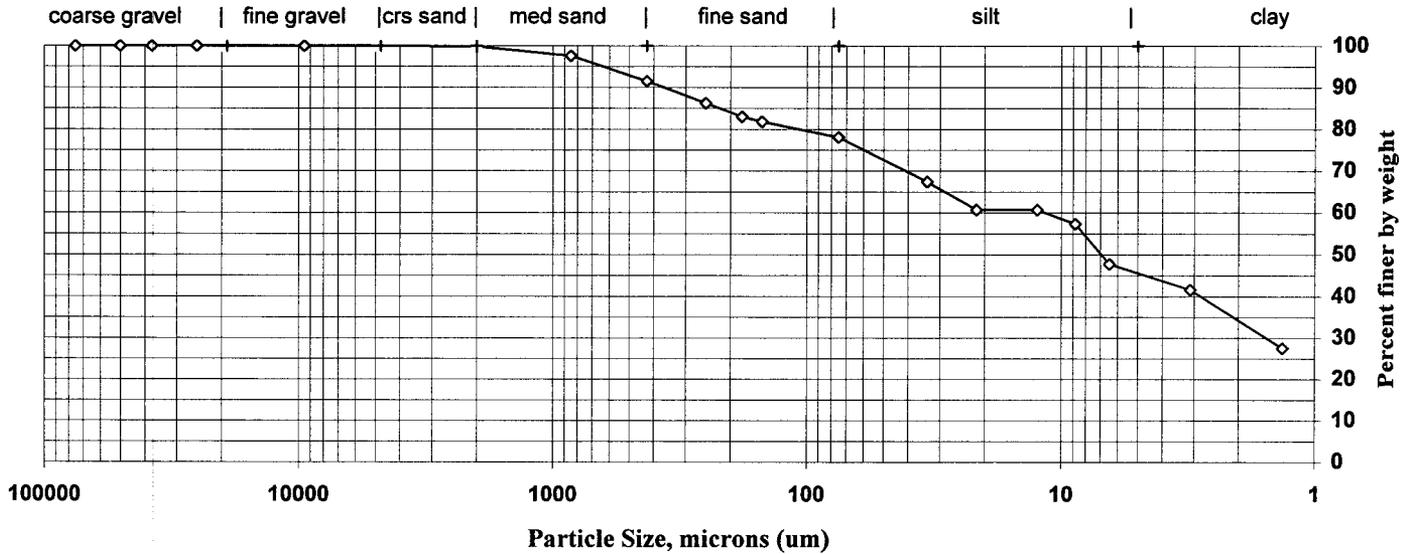
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|----------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>95020</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD003</u> |
| Date Received: <u>26-Jul-03</u> | Start Date: <u>12-Aug-03</u> | End Date: <u>22-Aug-03</u> |

| | |
|----------------|-------------------|
| Lab ID: 536021 | Sample ID: SSD-10 |
|----------------|-------------------|

| | |
|---|--|
| Percent Solids: <u>18.8%</u> | Maximum Particle Size: <u>CrS sand</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>angular</u> |
| Non-soil mass: <u>1.0%</u> | Hardness (> #10): <u>hard</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 100.0 | 0.0 |
| #4 | 4750 | 100.0 | 0.0 |
| #10 | 2000 | 99.8 | 0.2 |
| #20 | 850 | 97.6 | 2.3 |
| #40 | 425 | 91.5 | 6.1 |
| #60 | 250 | 86.2 | 5.2 |
| #80 | 180 | 83.0 | 3.3 |
| #100 | 150 | 81.8 | 1.1 |
| #200 | 75 | 78.0 | 3.8 |
| Hydrometer | 33.7 | 67.4 | 10.6 |
| | 21.5 | 60.7 | 6.7 |
| | 12.4 | 60.7 | 0.0 |
| | 8.8 | 57.3 | 3.4 |
| | 6.5 | 47.8 | 9.6 |
| | 3.1 | 41.6 | 6.2 |
| V | 1.3 | 27.5 | 14.0 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 0.0 |
| Sand | 22.0 |
| Coarse Sand | 0.2 |
| Medium Sand | 8.4 |
| Fine Sand | 13.4 |
| Silt | 30.3 |
| Clay | 47.8 |

Dispersion Device: Mechanical mixer with a metal paddle.
 Dispersion Period: 1 minute

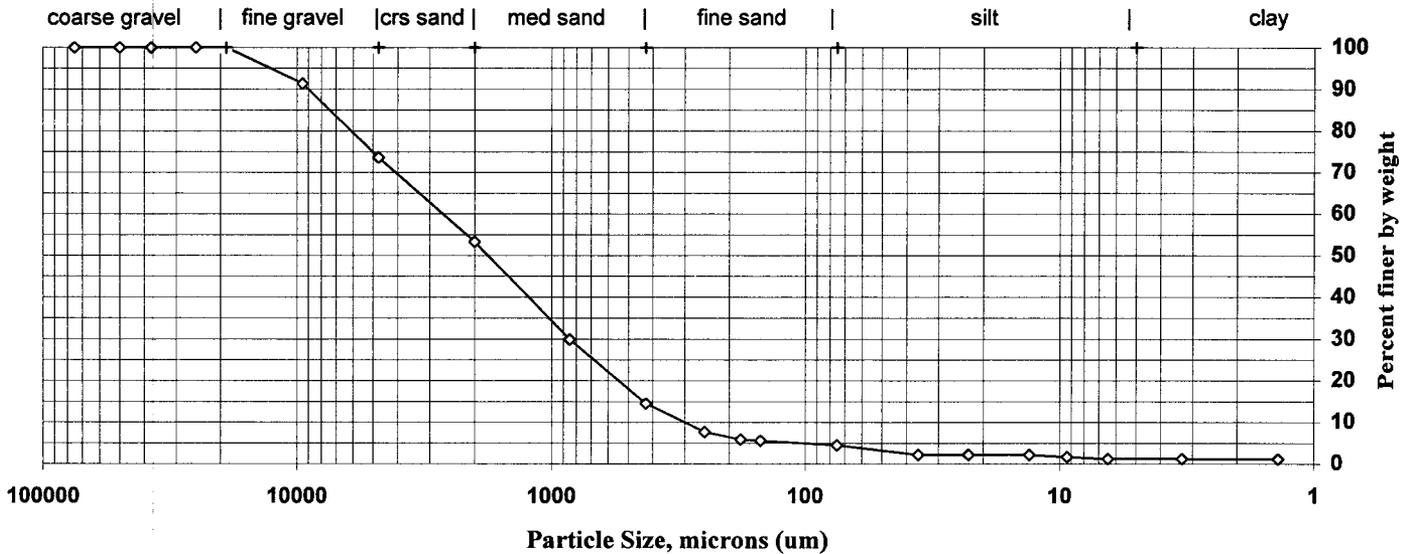
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|----------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>95020</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD003</u> |
| Date Received: <u>26-Jul-03</u> | Start Date: <u>12-Aug-03</u> | End Date: <u>22-Aug-03</u> |

| | |
|----------------|-------------------|
| Lab ID: 536022 | Sample ID: PSD-04 |
|----------------|-------------------|

| | |
|---|-------------------------------------|
| Percent Solids: <u>85.7%</u> | Maximum Particle Size: <u>19 mm</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>subrounded</u> |
| Non-soil mass: <u>NA</u> | Hardness (> #10): <u>hard</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 91.4 | 8.6 |
| #4 | 4750 | 73.6 | 17.7 |
| #10 | 2000 | 53.3 | 20.3 |
| #20 | 850 | 29.9 | 23.4 |
| #40 | 425 | 14.5 | 15.4 |
| #60 | 250 | 7.7 | 6.8 |
| #80 | 180 | 5.9 | 1.8 |
| #100 | 150 | 5.6 | 0.3 |
| #200 | 75 | 4.5 | 1.1 |
| Hydrometer | 36.0 | 2.2 | 2.2 |
| | 22.8 | 2.2 | 0.0 |
| | 13.2 | 2.2 | 0.0 |
| | 9.3 | 1.7 | 0.5 |
| | 6.4 | 1.3 | 0.4 |
| | 3.3 | 1.3 | 0.0 |
| V | 1.4 | 1.2 | 0.1 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 26.4 |
| Sand | 69.2 |
| Coarse Sand | 20.3 |
| Medium Sand | 38.8 |
| Fine Sand | 10.0 |
| Silt | 3.2 |
| Clay | 1.3 |

Dispersion Device: Mechanical mixer with a metal paddle.
 Dispersion Period: 1 minute

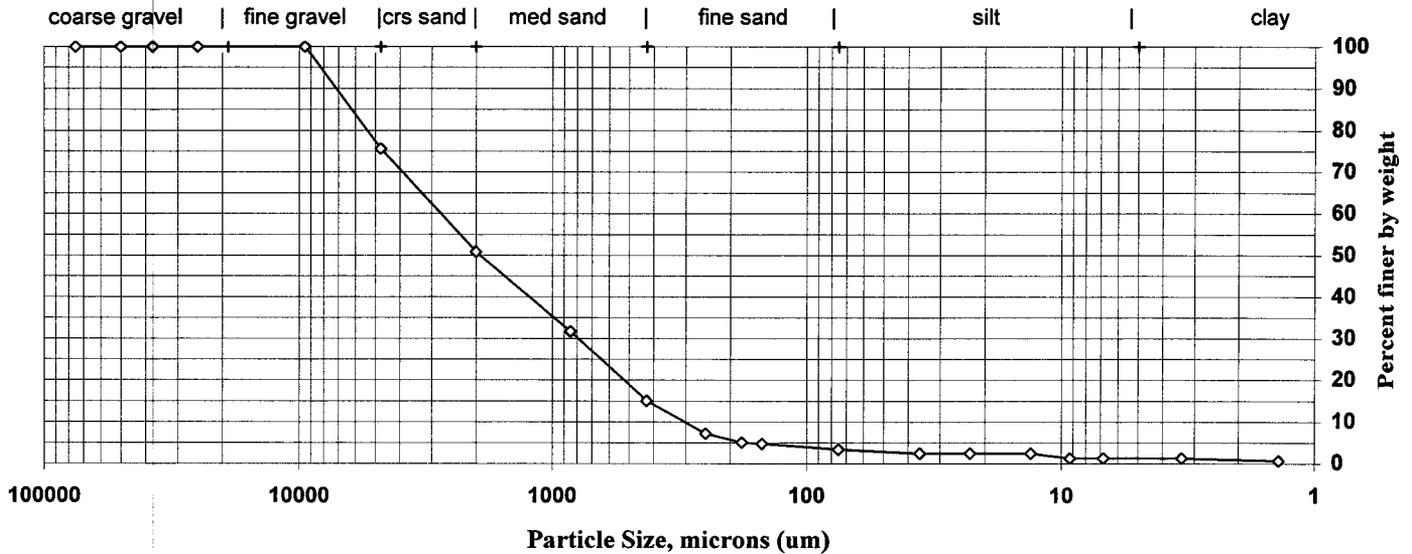
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|----------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>95020</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD003</u> |
| Date Received: <u>26-Jul-03</u> | Start Date: <u>12-Aug-03</u> | End Date: <u>22-Aug-03</u> |

| | |
|----------------|-------------------|
| Lab ID: 536023 | Sample ID: RSD-04 |
|----------------|-------------------|

| | |
|---|--------------------------------------|
| Percent Solids: <u>83.4%</u> | Maximum Particle Size: <u>9.5 mm</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>subrounded</u> |
| Non-soil mass: <u>0.0%</u> | Hardness (> #10): <u>hard</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 100.0 | 0.0 |
| #4 | 4750 | 75.6 | 24.4 |
| #10 | 2000 | 50.8 | 24.8 |
| #20 | 850 | 31.6 | 19.2 |
| #40 | 425 | 15.0 | 16.6 |
| #60 | 250 | 7.3 | 7.8 |
| #80 | 180 | 5.1 | 2.2 |
| #100 | 150 | 4.7 | 0.4 |
| #200 | 75 | 3.3 | 1.4 |
| Hydrometer | 36.0 | 2.5 | 0.9 |
| | 22.8 | 2.5 | 0.0 |
| | 13.2 | 2.5 | 0.0 |
| | 9.2 | 1.3 | 1.2 |
| | 6.8 | 1.3 | 0.0 |
| | 3.4 | 1.3 | 0.0 |
| V | 1.4 | 0.7 | 0.6 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 24.4 |
| Sand | 72.3 |
| Coarse Sand | 24.8 |
| Medium Sand | 35.8 |
| Fine Sand | 11.7 |
| Silt | 2.1 |
| Clay | 1.3 |

Dispersion Device: Mechanical mixer with a metal paddle.
 Dispersion Period: 1 minute

**STL Burlington
Colchester, Vermont**

**Sample Data Summary
Package**

SDG: GCD004

September 18, 2003

Ms. Jennifer Kindred
EA Engineering
12011 Bellevue-Redmond Rd.
Suite 200
Bellevue, WA 98005

Re: Laboratory Project No. 23046
Case No. 23046; SDG: GCD004

Dear Ms. Kindred:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on August 12, 2003. Laboratory numbers have been assigned and designated as follows:

| <u>Lab ID</u> | <u>Client Sample ID</u> | <u>Sample Date</u> | <u>Sample Matrix</u> |
|----------------------------------|-------------------------|--------------------|----------------------|
| Received: 08/12/03 ETR No: 95327 | | | |
| 537764 | BLUESTPSD5A | 08/08/03 | Sediment |
| 537765 | BLUESTPSD5ASPLP | 08/08/03 | Extract |
| 537766 | BLACSTPSD3A | 08/08/03 | Sediment |
| 537767 | BLACSTPSD3ASPLP | 08/08/03 | Extract |
| 537768 | BLACSTRSD3A | 08/08/03 | Sediment |
| 537769 | BLACSTPSD2A | 08/08/03 | Sediment |
| 537769MS | BLACSTPSD2AMS | 08/08/03 | Sediment |
| 537769DP | BLACSTPSD2AREP | 08/08/03 | Sediment |
| 537770 | BLACSTPSD2ASPLP | 08/08/03 | Extract |
| 537770MS | BLACSTPSD2ASPLPMS | 08/08/03 | Extract |
| 537770DP | BLACSTPSD2ASPLPREP | 08/08/03 | Extract |
| 537771 | BLACSTRSD2A | 08/08/03 | Sediment |
| 537772 | BLACSTPSD2A(100) | 08/08/03 | Sediment |
| 537773 | BLACSTPSD2A(100)SPLP | 08/08/03 | Extract |
| 537774 | BLACSTPSD1A | 08/08/03 | Sediment |
| 537775 | BLACSTPSD1ASPLP | 08/08/03 | Extract |
| 537776 | BLACSTRSD1A | 08/08/03 | Sediment |

Due to reporting software limitations, sample identifications may have been truncated. In most instances only punctuation was removed.

Documentation that identifies the condition of the samples at the time of sample receipt and the issues arising at the time of sample login is included in the Sample Handling section of this submittal.

This narrative identifies anomalies that occurred during the analyses of samples in this delivery group. If there is no description following regarding a certain methodology requested on the chain-of-custody record, then there were no exceptions to the laboratory quality control criteria noted during that analysis.

Metals by 6010B:

The relative percent differences (RPDs) between the initial and duplicate analysis of sample BLACSTPSD2A for arsenic (41.5) and manganese (32.5) were above the established control limit of ± 20 percent. Corresponding sample results have been flagged with a "*" to denote this anomaly.

The recoveries of the following metals from the laboratory fortified aliquot of sample BLACSTPSD2A were outside of the laboratory established control limits of 75-125 percent: antimony (61.1%), barium (126.0%) and nickel (163.8%). Sample results have been flagged with an "N" accordingly.

Please note that not all elements were included in the matrix spiking solution for the SPLP extract. The routine protocol of spiking with only the Toxicity Characteristic Leachate Procedure (TCLP) elements plus copper and zinc (SEM metals) was followed. The post spike solution contained the full list of TAL metals.

The recovery of silver from the laboratory fortified aliquot of the SPLP extract of sample BLACSTPSD2A was 210.8% which is outside of the laboratory established control limits of 75-125 percent. The laboratory suspects that the sample was spiked incorrectly (1 milliliter of silver spiking solution utilized versus 0.5 milliliter).

If there are any questions regarding this submittal, please contact Jeannine McCrumb at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 0001 and ending with page 0583.

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. The Laboratory Director or his designee, as verified by the following signature, has authorized the release of the data contained in this hardcopy data package.

Sincerely,



Michael F. Wheeler, Ph.D.
Laboratory Director

Enclosure
MFW/jtw/jmm

0001-B Last Alpha

Sediment 1 of 1

Severn Trent Laboratories, Inc.
208 South Park Drive, Suite 1, Colchester, VT 05446 Tel: (802) 655-1203

CHAIN OF CUSTODY RECORD

Report to: FA Engineering
 Company: FA Engineering
 Address: 12011 Bel-Red Rd. Suite 200
Bellevue, WA 98005
 Contact: Sen Kindred
 Phone: 425-451-7400
 Fax: 425-451-7800
 Contract/Quote: _____

Invoice to: SAME
 Company: _____
 Address: _____
 Contact: _____
 Phone: _____
 Fax: _____

Sampler's Name: Marty Green
 Cathy Bohike
 Sampler's Signature: [Signature]

| Matrix ¹ | Date | Time | C o m p | G r a b | Identifying Marks of Sample(s) | No./Type of Containers ² | | | ANALYSIS REQUESTED | Lab Use Only Due Date: |
|---------------------|--------|------|------------------|------------------|--------------------------------|-------------------------------------|--------------|-----------|--------------------|---------------------------|
| | | | | | | VOA | A/G 1 Lt. | 250 ml | | |
| SD | 8/8/11 | 110 | | | BLUE-ST-PSD-5A | | | 3 | X | |
| SD | 8/8/12 | 50 | | | BLAC-ST-PSD-3A | | | 3 | X | |
| SD | 8/8/13 | 15 | | | BLAC-ST-RSD-3A | | | 2 | X | |
| SD | 8/8/14 | 30 | | | BLAC-ST-PSD-2A (MS)* | | | 5 | X | |
| SD | 8/8/14 | 10 | | | BLAC-ST-RSD-2A | | | 2 | X | |
| SD | 8/8/14 | 30 | | | BLAC-ST-PSD-2A (100) | | | 3 | X | |
| SD | 8/8/16 | 00 | | | BLAC-ST-PSD-1A | | | 3 | X | |
| SD | 8/8/15 | 35 | | | BLAC-ST-RSD-1A | | | 2 | X | |

TAL Metals
 Cyanide
 SPLP
 Grain size

Relinquished by: (Signature) [Signature] Date: 8-11-05 Time: 1215
 Received by: (Signature) [Signature] Date: 08-12-05 Time: 0930

Relinquished by: (Signature) _____ Date: _____ Time: _____
 Received by: (Signature) _____ Date: _____ Time: _____

Relinquished by: (Signature) _____ Date: _____ Time: _____
 Received by: (Signature) _____ Date: _____ Time: _____

Remarks: * MS for TAL, CN, SPLP only

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

Matrix: WW - Wastewater
 VOA - 40 ml vial
 A/G - Amber / Or Glass 1 Liter
 250 ml - Glass wide mouth
 L - Liquid
 S - Soil
 C - Charcoal Tube
 P/O - Plastic or other

STL cannot accept verbal changes.
 Please Fax written changes to
 (802) 655-1248



**Sample Data Summary Package
For Wet Chemistry**

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUESTPSD5A

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD004

Lab Code: STLVLT

Case No.: 23046

Lab Sample ID: 537764

Matrix: SEDIMENT

Client: EASEAT

Date Received: 08/12/03

% Solids: 76.8

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 08/14/03 | N/A | % | 1.0 | | 76.8 | |
| IN847 | TOC by Lloyd Kahn | 08/20/03 | BLKLN0820A | mg/Kg | 1 | 131 | 131 | U |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTPSD3A

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD004

Lab Code: STLV

Case No.: 23046

Lab Sample ID: 537766

Matrix: SEDIMENT

Client: EASEAT

Date Received: 08/12/03

% Solids: 78.8

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 08/14/03 | N/A | % | 1.0 | | 78.8 | |
| IN847 | TOC by Lloyd Kahn | 08/20/03 | BLKLG0820A | mg/Kg | 1 | 127 | 578 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTRSD3A

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD004

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 537768

Matrix: SEDIMENT

Client: EASEAT

Date Received: 08/12/03

% Solids: 84.4

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 08/14/03 | N/A | % | 1.0 | | 84.4 | |
| IN847 | TOC by Lloyd Kahn | 08/20/03 | BLKLK0820A | mg/Kg | 1 | 119 | 119 | U |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTPSD2A

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD004

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 537769

Matrix: SEDIMENT

Client: EASEAT

Date Received: 08/12/03

% Solids: 77.1

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 08/14/03 | N/A | % | 1.0 | | 77.1 | |
| IN847 | TOC by Lloyd Kahn | 08/20/03 | BLK0820A | mg/Kg | 1 | 130 | 130 | U |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTRSD2A

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD004

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 537771

Matrix: SEDIMENT

Client: EASEAT

Date Received: 08/12/03

% Solids: 84.1

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 08/14/03 | N/A | % | 1.0 | | 84.1 | |
| IN847 | TOC by Lloyd Kahn | 08/20/03 | BLK0820A | mg/Kg | 1 | 119 | 119 | U |

WET CHEMISTRY

Sample Report Summary

Client Sample No.
BLACSTPSD2A(100)

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD004

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 537772

Matrix: SEDIMENT

Client: EASEAT

Date Received: 08/12/03

% Solids: 70.5

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 08/14/03 | N/A | % | 1.0 | | 70.5 | |
| IN847 | TOC by Lloyd Kahn | 08/20/03 | BLK0820A | mg/Kg | 1 | 142 | 581 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTPSD1A

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD004

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 537774

Matrix: SEDIMENT

Client: EASEAT

Date Received: 08/12/03

% Solids: 92.2

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 08/14/03 | N/A | % | 1.0 | | 92.2 | |
| IN847 | TOC by Lloyd Kahn | 08/20/03 | BLKLN0820A | mg/Kg | 1 | 109 | 442 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTRSD1A

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD004

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 537776

Matrix: SEDIMENT

Client: EASEAT

Date Received: 08/12/03

% Solids: 79.3

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|-------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 08/14/03 | N/A | % | 1.0 | | 79.3 | |
| IN847 | TOC by Lloyd Kahn | 08/20/03 | BLCLK0820A | mg/Kg | 1 | 127 | 127 | U |

WET CHEMISTRY

Method Blank Report Summary

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD004

Lab Code: STLVT

Case No.: 23046

Matrix: SOIL

Client: EASEAT

% Solids:

| Lab Sample ID | Method | Parameter | Conc. | Units | Qual. | DF | RL | Analytical Run Date | Analytical Batch |
|---------------|--------|-------------------|-------|-------|-------|----|-----|---------------------|------------------|
| BLK0820A | IN847 | TOC by Lloyd Kahn | 100 | mg/Kg | U | 1 | 100 | 08/20/03 | BLK0820A |

WET CHEMISTRY

Duplicate Sample Report Summary

Client Sample No.
BLACSTPSD2AREP

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD004

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 537769DP

Matrix: SEDIMENT

Client: EASEAT

Date Received: 08/12/03

% Solids: 76.7

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | Sample Result | | Duplicate Sample Result | | RPD* |
|--------|-----------------|---------------------|------------------|-------|---------------|-------|-------------------------|-------|------|
| | | | | | Conc. | Qual. | Conc. | Qual. | |
| IN623 | Solids, Percent | 08/14/03 | N/A | % | 77.1 | | 76.7 | | 1 |

* Control Limit for RPD is +/- 20%, unless otherwise specified.

WET CHEMISTRY
Laboratory Control Sample Report Summary

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCD004

Lab Code: STLV

Case No.: 23046

Matrix: SOIL

Client: EASEAT

% Solids:

| Lab Sample ID | Method | Parameter | Analytical Run Date | Analytical Batch | Units | LCS Conc. | True Value | % Recovery* |
|---------------|--------|-------------------|---------------------|------------------|-------|-----------|------------|-------------|
| LCSLK0820A | IN847 | TOC by Lloyd Kahn | 08/20/03 | BLK0820A | mg/Kg | 8740 | 8500.0000 | 102.9 |

* Control Limit for Percent Recovery is 80-120%, unless otherwise specified.



**Sample Data Summary Package
For Metals**

USEPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004

SOW No.: IILM04.1

| <u>EPA Sample No.</u> | <u>Lab Sample ID.</u> |
|-------------------------|-----------------------|
| <u>BLACSTPSD1A</u> | <u>537774</u> |
| <u>BLACSTPSD2A</u> | <u>537769</u> |
| <u>BLACSTPSD2A(100)</u> | <u>537772</u> |
| <u>BLACSTPSD2AD</u> | <u>537769DP</u> |
| <u>BLACSTPSD2AS</u> | <u>537769MS</u> |
| <u>BLACSTPSD3A</u> | <u>537766</u> |
| <u>BLACSTRSD1A</u> | <u>537776</u> |
| <u>BLACSTRSD2A</u> | <u>537771</u> |
| <u>BLACSTRSD3A</u> | <u>537768</u> |
| <u>BLUESTPSD5A</u> | <u>537764</u> |

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: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTPSD1A

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004

Matrix (soil/water): SOIL Lab Sample ID: 537774

Level (low/med): LOW Date Received: 8/12/2003

% Solids: 92.2

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 8600 | | | P |
| 7440-36-0 | Antimony | 1.2 | B | N | P |
| 7440-38-2 | Arsenic | 17.6 | | * | P |
| 7440-39-3 | Barium | 60.0 | | N | P |
| 7440-41-7 | Beryllium | 0.34 | B | | P |
| 7440-43-9 | Cadmium | 0.064 | U | | P |
| 7440-70-2 | Calcium | 1600 | | | P |
| 7440-47-3 | Chromium | 97.3 | | | P |
| 7440-48-4 | Cobalt | 15.0 | | | P |
| 7440-50-8 | Copper | 30.4 | | | P |
| 7439-89-6 | Iron | 25200 | | | P |
| 7439-92-1 | Lead | 3.1 | | | P |
| 7439-95-4 | Magnesium | 9610 | | | P |
| 7439-96-5 | Manganese | 676 | | * | P |
| 7439-97-6 | Mercury | 0.018 | B | | CV |
| 7440-02-0 | Nickel | 101 | | N | P |
| 7440-09-7 | Potassium | 516 | B | | P |
| 7782-49-2 | Selenium | 0.32 | B | | P |
| 7440-22-4 | Silver | 0.23 | U | | P |
| 7440-23-5 | Sodium | 72.2 | B | | P |
| 7440-28-0 | Thallium | 1.4 | | | P |
| 7440-62-2 | Vanadium | 52.5 | | | P |
| 7440-66-6 | Zinc | 36.9 | | | P |
| 57-12-5 | Cyanide | 0.53 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: medium

Color After: yellow Clarity After: clear Artifacts: _____

Comments:

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTPSD2A

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004

Matrix (soil/water): SOIL Lab Sample ID: 537769

Level (low/med): LOW Date Received: 8/12/2003

% Solids: 77.1

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 11500 | | | P |
| 7440-36-0 | Antimony | 1.9 | B | N | P |
| 7440-38-2 | Arsenic | 48.6 | | * | P |
| 7440-39-3 | Barium | 80.1 | | N | P |
| 7440-41-7 | Beryllium | 0.43 | B | | P |
| 7440-43-9 | Cadmium | 0.075 | U | | P |
| 7440-70-2 | Calcium | 2510 | | | P |
| 7440-47-3 | Chromium | 111 | | | P |
| 7440-48-4 | Cobalt | 26.2 | | | P |
| 7440-50-8 | Copper | 32.8 | | | P |
| 7439-89-6 | Iron | 28200 | | | P |
| 7439-92-1 | Lead | 3.8 | | | P |
| 7439-95-4 | Magnesium | 17900 | | | P |
| 7439-96-5 | Manganese | 798 | | * | P |
| 7439-97-6 | Mercury | 0.044 | | | CV |
| 7440-02-0 | Nickel | 193 | | N | P |
| 7440-09-7 | Potassium | 796 | | | P |
| 7782-49-2 | Selenium | 0.49 | B | | P |
| 7440-22-4 | Silver | 0.27 | U | | P |
| 7440-23-5 | Sodium | 123 | B | | P |
| 7440-28-0 | Thallium | 1.7 | | | P |
| 7440-62-2 | Vanadium | 50.6 | | | P |
| 7440-66-6 | Zinc | 54.5 | | | P |
| 57-12-5 | Cyanide | 0.61 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: mediumColor After: yellow Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTPSD2A(100)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004
 Matrix (soil/water): SOIL Lab Sample ID: 537772
 Level (low/med): LOW Date Received: 8/12/2003
 % Solids: 70.5

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 12500 | | | P |
| 7440-36-0 | Antimony | 2.2 | B | N | P |
| 7440-38-2 | Arsenic | 58.5 | | * | P |
| 7440-39-3 | Barium | 85.5 | | N | P |
| 7440-41-7 | Beryllium | 0.44 | B | | P |
| 7440-43-9 | Cadmium | 0.12 | B | | P |
| 7440-70-2 | Calcium | 2820 | | | P |
| 7440-47-3 | Chromium | 152 | | | P |
| 7440-48-4 | Cobalt | 26.8 | | | P |
| 7440-50-8 | Copper | 32.9 | | | P |
| 7439-89-6 | Iron | 31100 | | | P |
| 7439-92-1 | Lead | 4.2 | | | P |
| 7439-95-4 | Magnesium | 15900 | | | P |
| 7439-96-5 | Manganese | 934 | | * | P |
| 7439-97-6 | Mercury | 0.032 | B | | CV |
| 7440-02-0 | Nickel | 178 | | N | P |
| 7440-09-7 | Potassium | 914 | | | P |
| 7782-49-2 | Selenium | 0.57 | B | | P |
| 7440-22-4 | Silver | 0.29 | U | | P |
| 7440-23-5 | Sodium | 169 | B | | P |
| 7440-28-0 | Thallium | 1.6 | | | P |
| 7440-62-2 | Vanadium | 58.6 | | | P |
| 7440-66-6 | Zinc | 57.9 | | | P |
| 57-12-5 | Cyanide | 0.66 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: mediumColor After: yellow Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTPSD3A

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004
 Matrix (soil/water): SOIL Lab Sample ID: 537766
 Level (low/med): LOW Date Received: 8/12/2003
 % Solids: 78.8

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 7970 | | | P |
| 7440-36-0 | Antimony | 1.2 | B | N | P |
| 7440-38-2 | Arsenic | 26.7 | | * | P |
| 7440-39-3 | Barium | 76.8 | | N | P |
| 7440-41-7 | Beryllium | 0.28 | B | | P |
| 7440-43-9 | Cadmium | 0.069 | U | | P |
| 7440-70-2 | Calcium | 2130 | | | P |
| 7440-47-3 | Chromium | 52.2 | | | P |
| 7440-48-4 | Cobalt | 14.9 | | | P |
| 7440-50-8 | Copper | 20.9 | | | P |
| 7439-89-6 | Iron | 21700 | | | P |
| 7439-92-1 | Lead | 2.4 | | | P |
| 7439-95-4 | Magnesium | 8890 | | | P |
| 7439-96-5 | Manganese | 890 | | * | P |
| 7439-97-6 | Mercury | 0.055 | | | CV |
| 7440-02-0 | Nickel | 98.4 | | N | P |
| 7440-09-7 | Potassium | 506 | B | | P |
| 7782-49-2 | Selenium | 0.64 | | | P |
| 7440-22-4 | Silver | 0.25 | U | | P |
| 7440-23-5 | Sodium | 124 | B | | P |
| 7440-28-0 | Thallium | 1.0 | B | | P |
| 7440-62-2 | Vanadium | 32.2 | | | P |
| 7440-66-6 | Zinc | 35.6 | | | P |
| 57-12-5 | Cyanide | 0.55 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: mediumColor After: yellow Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTRSD1A

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004
 Matrix (soil/water): SOIL Lab Sample ID: 537776
 Level (low/med): LOW Date Received: 8/12/2003
 % Solids: 79.3

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 6680 | | | P |
| 7440-36-0 | Antimony | 0.65 | B | N | P |
| 7440-38-2 | Arsenic | 13.4 | | * | P |
| 7440-39-3 | Barium | 58.9 | | N | P |
| 7440-41-7 | Beryllium | 0.30 | B | | P |
| 7440-43-9 | Cadmium | 0.21 | B | | P |
| 7440-70-2 | Calcium | 1690 | | | P |
| 7440-47-3 | Chromium | 66.1 | | | P |
| 7440-48-4 | Cobalt | 15.1 | | | P |
| 7440-50-8 | Copper | 27.8 | | | P |
| 7439-89-6 | Iron | 18500 | | | P |
| 7439-92-1 | Lead | 3.1 | | | P |
| 7439-95-4 | Magnesium | 5090 | | | P |
| 7439-96-5 | Manganese | 747 | | * | P |
| 7439-97-6 | Mercury | 0.031 | B | | CV |
| 7440-02-0 | Nickel | 74.3 | | N | P |
| 7440-09-7 | Potassium | 669 | | | P |
| 7782-49-2 | Selenium | 0.52 | B | | P |
| 7440-22-4 | Silver | 0.26 | U | | P |
| 7440-23-5 | Sodium | 88.0 | B | | P |
| 7440-28-0 | Thallium | 1.1 | B | | P |
| 7440-62-2 | Vanadium | 29.0 | | | P |
| 7440-66-6 | Zinc | 62.3 | | | P |
| 57-12-5 | Cyanide | 0.61 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: mediumColor After: yellow Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTRSD2A

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004

Matrix (soil/water): SOIL Lab Sample ID: 537771

Level (low/med): LOW Date Received: 8/12/2003

% Solids: 84.1

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 8690 | | | P |
| 7440-36-0 | Antimony | 0.86 | B | N | P |
| 7440-38-2 | Arsenic | 12.4 | | * | P |
| 7440-39-3 | Barium | 40.5 | | N | P |
| 7440-41-7 | Beryllium | 0.27 | B | | P |
| 7440-43-9 | Cadmium | 0.071 | U | | P |
| 7440-70-2 | Calcium | 2730 | | | P |
| 7440-47-3 | Chromium | 74.0 | | | P |
| 7440-48-4 | Cobalt | 15.1 | | | P |
| 7440-50-8 | Copper | 17.7 | | | P |
| 7439-89-6 | Iron | 18500 | | | P |
| 7439-92-1 | Lead | 2.2 | | | P |
| 7439-95-4 | Magnesium | 9750 | | | P |
| 7439-96-5 | Manganese | 409 | | * | P |
| 7439-97-6 | Mercury | 0.019 | U | | CV |
| 7440-02-0 | Nickel | 122 | | N | P |
| 7440-09-7 | Potassium | 294 | B | | P |
| 7782-49-2 | Selenium | 0.32 | B | | P |
| 7440-22-4 | Silver | 0.26 | U | | P |
| 7440-23-5 | Sodium | 398 | B | | P |
| 7440-28-0 | Thallium | 0.90 | B | | P |
| 7440-62-2 | Vanadium | 37.4 | | | P |
| 7440-66-6 | Zinc | 30.1 | | | P |
| 57-12-5 | Cyanide | 0.53 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: medium

Color After: yellow Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTRSD3A

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004
 Matrix (soil/water): SOIL Lab Sample ID: 537768
 Level (low/med): LOW Date Received: 8/12/2003
 % Solids: 84.4

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 8700 | | | P |
| 7440-36-0 | Antimony | 1.2 | B | N | P |
| 7440-38-2 | Arsenic | 18.0 | | * | P |
| 7440-39-3 | Barium | 81.2 | | N | P |
| 7440-41-7 | Beryllium | 0.34 | B | | P |
| 7440-43-9 | Cadmium | 0.11 | B | | P |
| 7440-70-2 | Calcium | 2590 | | | P |
| 7440-47-3 | Chromium | 88.3 | | | P |
| 7440-48-4 | Cobalt | 15.1 | | | P |
| 7440-50-8 | Copper | 41.8 | | | P |
| 7439-89-6 | Iron | 23700 | | | P |
| 7439-92-1 | Lead | 3.7 | | | P |
| 7439-95-4 | Magnesium | 8750 | | | P |
| 7439-96-5 | Manganese | 620 | | * | P |
| 7439-97-6 | Mercury | 0.018 | U | | CV |
| 7440-02-0 | Nickel | 102 | | N | P |
| 7440-09-7 | Potassium | 719 | | | P |
| 7782-49-2 | Selenium | 0.20 | U | | P |
| 7440-22-4 | Silver | 0.26 | U | | P |
| 7440-23-5 | Sodium | 262 | B | | P |
| 7440-28-0 | Thallium | 1.2 | B | | P |
| 7440-62-2 | Vanadium | 45.7 | | | P |
| 7440-66-6 | Zinc | 42.3 | | | P |
| 57-12-5 | Cyanide | 0.54 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: medium
 Color After: yellow Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTPSD5A

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004
 Matrix (soil/water): SOIL Lab Sample ID: 537764
 Level (low/med): LOW Date Received: 8/12/2003
 % Solids: 76.8

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 9110 | | | P |
| 7440-36-0 | Antimony | 1.8 | B | N | P |
| 7440-38-2 | Arsenic | 34.3 | | * | P |
| 7440-39-3 | Barium | 73.5 | | N | P |
| 7440-41-7 | Beryllium | 0.48 | B | | P |
| 7440-43-9 | Cadmium | 0.070 | U | | P |
| 7440-70-2 | Calcium | 2530 | | | P |
| 7440-47-3 | Chromium | 98.5 | | | P |
| 7440-48-4 | Cobalt | 24.3 | | | P |
| 7440-50-8 | Copper | 31.3 | | | P |
| 7439-89-6 | Iron | 38900 | | | P |
| 7439-92-1 | Lead | 3.7 | | | P |
| 7439-95-4 | Magnesium | 13200 | | | P |
| 7439-96-5 | Manganese | 1080 | | * | P |
| 7439-97-6 | Mercury | 0.097 | | | CV |
| 7440-02-0 | Nickel | 155 | | N | P |
| 7440-09-7 | Potassium | 646 | | | P |
| 7782-49-2 | Selenium | 0.58 | B | | P |
| 7440-22-4 | Silver | 0.26 | U | | P |
| 7440-23-5 | Sodium | 59.8 | B | | P |
| 7440-28-0 | Thallium | 2.4 | | | P |
| 7440-62-2 | Vanadium | 49.6 | | | P |
| 7440-66-6 | Zinc | 68.6 | | | P |
| 57-12-5 | Cyanide | 0.60 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: medium
 Color After: 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.: GCD004

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) |
| Lead | 1000.0 | 974.20 | 97.4 | 400.0 | 394.50 | 98.6 | 389.40 | 97.4 | P |
| Mercury | 3.0 | 2.92 | 97.3 | 5.0 | 5.00 | 100.0 | 4.94 | 98.8 | CV |
| Selenium | 250.0 | 235.60 | 94.2 | 100.0 | 98.20 | 98.2 | 102.90 | 102.9 | P |
| Cyanide | 120.0 | 114.55 | 95.5 | 150.0 | 154.79 | 103.2 | 157.65 | 105.1 | AS |

(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.: GCD004

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) |
| Lead | | | | 400.0 | 388.30 | 97.1 | 377.20 | 94.3 | P |
| Mercury | | | | 5.0 | 4.94 | 98.8 | 5.07 | 101.4 | CV |
| Selenium | | | | 100.0 | 103.30 | 103.3 | 96.88 | 96.9 | P |
| Cyanide | | | | 150.0 | 158.64 | 105.8 | 157.96 | 105.3 | AS |

(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.: GCD004

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) |
| Lead | | | | 400.0 | 378.30 | 94.6 | | | P |
| Mercury | | | | 5.0 | 5.02 | 100.4 | 5.02 | 100.4 | CV |
| Selenium | | | | 100.0 | 95.84 | 95.8 | | | 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.: GCD004

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) |
| Mercury | | | | 5.0 | 4.90 | 98.0 | 4.60 | 92.0 | CV |

(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.: GCD004

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) |
| Mercury | | | | 5.0 | 4.99 | 99.8 | | | CV |

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

USEPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCD004Initial Calibration Source: Inorganic Ventures/FisherContinuing 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 | 26230.00 | 100.9 | 30200.0 | 29880.00 | 98.9 | 29860.00 | 98.9 | P |
| Antimony | 250.0 | 250.70 | 100.3 | 300.0 | 302.50 | 100.8 | 298.40 | 99.5 | P |
| Arsenic | 250.0 | 245.50 | 98.2 | 100.0 | 100.90 | 100.9 | 97.98 | 98.0 | P |
| Barium | 500.0 | 500.20 | 100.0 | 200.0 | 200.20 | 100.1 | 199.50 | 99.8 | P |
| Beryllium | 500.0 | 506.50 | 101.3 | 100.0 | 99.42 | 99.4 | 99.78 | 99.8 | P |
| Cadmium | 500.0 | 496.30 | 99.3 | 100.0 | 98.85 | 98.8 | 99.30 | 99.3 | P |
| Calcium | 25000.0 | 25250.00 | 101.0 | 30200.0 | 29890.00 | 99.0 | 29640.00 | 98.1 | P |
| Chromium | 500.0 | 500.70 | 100.1 | 200.0 | 197.20 | 98.6 | 196.30 | 98.2 | P |
| Cobalt | 500.0 | 494.20 | 98.8 | 200.0 | 197.10 | 98.6 | 195.30 | 97.6 | P |
| Copper | 500.0 | 509.00 | 101.8 | 200.0 | 203.90 | 102.0 | 203.90 | 102.0 | P |
| Iron | 25500.0 | 26050.00 | 102.2 | 30200.0 | 29660.00 | 98.2 | 29460.00 | 97.5 | P |
| Lead | 1000.0 | 984.80 | 98.5 | 400.0 | 387.90 | 97.0 | 387.00 | 96.8 | P |
| Magnesium | 25000.0 | 25250.00 | 101.0 | 30200.0 | 29590.00 | 98.0 | 29540.00 | 97.8 | P |
| Manganese | 500.0 | 499.10 | 99.8 | 200.0 | 200.10 | 100.0 | 200.60 | 100.3 | P |
| Nickel | 500.0 | 499.50 | 99.9 | 200.0 | 196.30 | 98.2 | 194.80 | 97.4 | P |
| Potassium | 25000.0 | 26470.00 | 105.9 | 30200.0 | 30830.00 | 102.1 | 30730.00 | 101.8 | P |
| Silver | 500.0 | 507.80 | 101.6 | 100.0 | 102.40 | 102.4 | 102.60 | 102.6 | P |
| Sodium | 25000.0 | 25110.00 | 100.4 | 30200.0 | 29040.00 | 96.2 | 29040.00 | 96.2 | P |
| Thallium | 250.0 | 238.90 | 95.6 | 100.0 | 101.50 | 101.5 | 97.02 | 97.0 | P |
| Vanadium | 500.0 | 501.90 | 100.4 | 200.0 | 200.20 | 100.1 | 200.30 | 100.2 | P |
| Zinc | 500.0 | 506.50 | 101.3 | 200.0 | 203.40 | 101.7 | 203.70 | 101.8 | 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 BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCD004Initial Calibration Source: Inorganic Ventures/FisherContinuing 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 | 30130.00 | 99.8 | 30330.00 | 100.4 | P |
| Antimony | | | | 300.0 | 300.00 | 100.0 | 295.30 | 98.4 | P |
| Arsenic | | | | 100.0 | 96.71 | 96.7 | 95.33 | 95.3 | P |
| Barium | | | | 200.0 | 200.00 | 100.0 | 198.80 | 99.4 | P |
| Beryllium | | | | 100.0 | 100.10 | 100.1 | 99.37 | 99.4 | P |
| Cadmium | | | | 100.0 | 99.60 | 99.6 | 99.14 | 99.1 | P |
| Calcium | | | | 30200.0 | 29730.00 | 98.4 | 29700.00 | 98.3 | P |
| Chromium | | | | 200.0 | 196.60 | 98.3 | 195.20 | 97.6 | P |
| Cobalt | | | | 200.0 | 194.30 | 97.2 | 191.30 | 95.6 | P |
| Copper | | | | 200.0 | 205.00 | 102.5 | 204.80 | 102.4 | P |
| Iron | | | | 30200.0 | 29420.00 | 97.4 | 29140.00 | 96.5 | P |
| Lead | | | | 400.0 | 387.50 | 96.9 | 378.00 | 94.5 | P |
| Magnesium | | | | 30200.0 | 29510.00 | 97.7 | 29240.00 | 96.8 | P |
| Manganese | | | | 200.0 | 201.50 | 100.8 | 201.20 | 100.6 | P |
| Nickel | | | | 200.0 | 193.50 | 96.8 | 189.60 | 94.8 | P |
| Potassium | | | | 30200.0 | 30610.00 | 101.4 | 30550.00 | 101.2 | P |
| Silver | | | | 100.0 | 103.40 | 103.4 | 104.10 | 104.1 | P |
| Sodium | | | | 30200.0 | 29100.00 | 96.4 | 28980.00 | 96.0 | P |
| Thallium | | | | 100.0 | 99.04 | 99.0 | 97.75 | 97.8 | P |
| Vanadium | | | | 200.0 | 200.30 | 100.2 | 199.20 | 99.6 | P |
| Zinc | | | | 200.0 | 202.50 | 101.2 | 201.20 | 100.6 | 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.: GCD004

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 | 496.70 | 99.3 | 200.0 | 203.50 | 101.8 | 211.60 | 105.8 | 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.: GCD004

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 | 204.40 | 102.2 | 208.90 | 104.4 | 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: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004AA CRDL Standard Source: Inorganic VenturesICP CRDL Standard Source: Inorganic Ventures

Concentration Units: ug/L

| Analyte | True | Found | %R | CRDL Standard for ICP | | | | |
|----------|------|-------|-------|-----------------------|-------|------|-------|------|
| | | | | Initial | | | Final | |
| | | | | True | Found | %R | Found | %R |
| Lead | | | | 6.0 | 5.93 | 98.8 | 4.89 | 81.5 |
| Mercury | 0.2 | 0.22 | 110.0 | | | | | |
| Selenium | | | | 10.0 | 8.52 | 85.2 | 7.36 | 73.6 |

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: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004AA CRDL Standard Source: Inorganic VenturesICP CRDL Standard Source: Inorganic Ventures

Concentration Units: ug/L

| Analyte | True | Found | %R | CRDL Standard for ICP | | | | |
|-----------|------|-------|----|-----------------------|----------|-------|----------|-------|
| | | | | Initial | | Final | | |
| | | | | True | Found | %R | Found | %R |
| Aluminum | | | | 400.0 | 501.80 | 125.4 | 449.80 | 112.4 |
| Antimony | | | | 120.0 | 124.60 | 103.8 | 121.10 | 100.9 |
| Arsenic | | | | 20.0 | 20.21 | 101.0 | 18.31 | 91.6 |
| Barium | | | | 400.0 | 402.50 | 100.6 | 394.90 | 98.7 |
| Beryllium | | | | 10.0 | 10.40 | 104.0 | 10.50 | 105.0 |
| Cadmium | | | | 10.0 | 10.30 | 103.0 | 10.23 | 102.3 |
| Calcium | | | | 10000.0 | 10530.00 | 105.3 | 10320.00 | 103.2 |
| Chromium | | | | 20.0 | 23.92 | 119.6 | 25.72 | 128.6 |
| Cobalt | | | | 100.0 | 98.70 | 98.7 | 94.18 | 94.2 |
| Copper | | | | 50.0 | 51.87 | 103.7 | 52.55 | 105.1 |
| Iron | | | | 200.0 | 269.60 | 134.8 | 295.90 | 148.0 |
| Lead | | | | 6.0 | 6.65 | 110.8 | 5.96 | 99.3 |
| Magnesium | | | | 10000.0 | 10300.00 | 103.0 | 10040.00 | 100.4 |
| Manganese | | | | 30.0 | 30.27 | 100.9 | 30.58 | 101.9 |
| Nickel | | | | 80.0 | 80.71 | 100.9 | 76.58 | 95.7 |
| Potassium | | | | 10000.0 | 11030.00 | 110.3 | 10740.00 | 107.4 |
| Silver | | | | 20.0 | 20.88 | 104.4 | 21.41 | 107.0 |
| Sodium | | | | 10000.0 | 9944.00 | 99.4 | 9813.00 | 98.1 |
| Thallium | | | | 20.0 | 22.30 | 111.5 | 21.61 | 108.0 |
| Vanadium | | | | 100.0 | 101.00 | 101.0 | 100.00 | 100.0 |
| Zinc | | | | 40.0 | 41.69 | 104.2 | 40.44 | 101.1 |

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.: GCD004

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 | | | Final | |
| | | | | True | Found | %R | Found | %R |
| Manganese | | | | 30.0 | 28.81 | 96.0 | 30.75 | 102.5 |

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

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004Preparation Blank Matrix (soil/water): SOILPreparation Blank Concentration Units (ug/L or mg/kg): MG/KG

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M | |
|-----------|-----------------------------|---|-------------------------------------|---|------|---|------|---|-------------------|--------|---|----|
| | C | | 1 | C | 2 | C | 3 | C | | C | | |
| Aluminum | | | | | | | | | | -3.944 | B | P |
| Antimony | | | | | | | | | | 0.470 | U | P |
| Arsenic | | | | | | | | | | 0.480 | U | P |
| Barium | | | | | | | | | | 0.590 | U | P |
| Beryllium | | | | | | | | | | 0.038 | B | P |
| Cadmium | | | | | | | | | | 0.062 | B | P |
| Calcium | | | | | | | | | | 18.210 | U | P |
| Chromium | | | | | | | | | | 0.140 | U | P |
| Cobalt | | | | | | | | | | 0.200 | U | P |
| Copper | | | | | | | | | | 0.240 | U | P |
| Iron | | | | | | | | | | 3.330 | U | P |
| Lead | 1.5 | U | 1.5 | U | 1.5 | U | 1.5 | U | | 0.164 | B | P |
| Magnesium | | | | | | | | | | 17.830 | U | P |
| Manganese | | | | | | | | | | 0.135 | B | P |
| Mercury | 0.1 | U | 0.1 | U | 0.1 | U | 0.1 | U | | 0.017 | U | CV |
| Nickel | | | | | | | | | | 0.210 | U | P |
| Potassium | | | | | | | | | | 39.300 | U | P |
| Selenium | 1.7 | U | -1.7 | B | 1.7 | U | 1.7 | U | | 0.170 | U | P |
| Silver | | | | | | | | | | 0.220 | U | P |
| Sodium | | | | | | | | | | 71.330 | B | P |
| Thallium | | | | | | | | | | 0.570 | U | P |
| Vanadium | | | | | | | | | | 0.200 | U | P |
| Zinc | | | | | | | | | | 0.422 | B | P |
| Cyanide | 10.0 | U | 10.0 | U | 10.0 | U | 10.0 | U | | 0.500 | U | AS |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004

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) | | | | | | Preparation Blank | C | M |
|----------|-----------------------------|---|-------------------------------------|---|------|---|-----|---|-------------------|---|----|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Lead | | | 1.5 | U | -1.7 | B | | | | | P |
| Mercury | | | 0.1 | U | 0.1 | U | 0.1 | U | | | CV |
| Selenium | | | 1.7 | U | -1.8 | B | | | | | P |
| Cyanide | | | 10.0 | U | | | | | | | AS |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004

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) | | | | | | Preparation Blank | C | M |
|---------|--------------------------------------|---|--|---|-----|---|-----|---|----------------------|---|----|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Mercury | | | 0.1 | U | 0.1 | U | 0.1 | U | | | CV |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | C | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|-----------|--------------------------------------|---|--|---|-------|---|-------|---|----------------------|---|---|
| | | | 1 | C | 2 | C | 3 | C | C | C | |
| Aluminum | 23.6 | U | 23.6 | U | -32.7 | B | -45.2 | B | | | 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 | U | 0.2 | U | 0.3 | B | 0.3 | B | | | P |
| Cadmium | 0.6 | U | 0.6 | U | 0.6 | U | 0.6 | U | | | P |
| Calcium | 182.1 | U | 182.1 | U | 182.1 | U | 182.1 | 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 |
| Magnesium | 178.3 | U | 178.3 | U | 178.3 | U | 178.3 | 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 |
| Potassium | 393.0 | U | 393.0 | U | 393.0 | U | 393.0 | U | | | P |
| Silver | 2.2 | U | 2.2 | U | 2.2 | U | 2.2 | U | | | P |
| Sodium | 472.7 | U | 472.7 | U | 472.7 | U | 472.7 | U | | | P |
| Thallium | 5.7 | U | 5.7 | U | 5.8 | B | 5.7 | U | | | P |
| Vanadium | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | 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: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | C | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|-----------|--------------------------------------|---|--|---|---|---|---|---|----------------------|---|---|
| | | | 1 | C | 2 | C | 3 | C | C | C | |
| Aluminum | | | -53.5 | B | | | | | | | 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 |
| Calcium | | | 182.1 | 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 |
| Magnesium | | | 178.3 | U | | | | | | | P |
| Manganese | | | 0.7 | U | | | | | | | P |
| Nickel | | | 2.1 | U | | | | | | | 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.: GCD004

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) | | | | | | Preparation Blank | C | M |
|-----------|--------------------------------------|---|--|---|-----|---|-----|---|----------------------|---|---|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Manganese | 1.9 | U | 1.9 | U | 1.9 | U | 1.9 | U | | P | |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004

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) | | | | | | Preparation Blank | C | M |
|-----------|--------------------------------------|---|--|---|---|---|---|---|----------------------|---|---|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Manganese | | | 1.9 | 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.: GCD004

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 |
| Lead | 0 | 44 | 3 | 47.5 | 108.0 | 6 | 49.8 | 113.2 |
| Selenium | 0 | 48 | -1 | 46.5 | 96.9 | -3 | 42.9 | 89.4 |

USEPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCD004ICP ID Number: TJA ICAP 4ICS Source: Inorganic VenturesConcentration 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 | 505500 | 497600.0 | 104.2 | 506500 | 502800.0 | 105.3 |
| Antimony | 0 | 575 | 0 | 592.3 | 103.0 | 0 | 577.8 | 100.5 |
| Arsenic | 0 | 97 | 5 | 100.1 | 103.2 | 5 | 95.6 | 98.6 |
| Barium | 0 | 464 | 2 | 491.6 | 105.9 | 2 | 486.2 | 104.8 |
| Beryllium | 0 | 444 | 0 | 468.3 | 105.5 | 0 | 464.4 | 104.6 |
| Cadmium | 0 | 874 | -2 | 924.6 | 105.8 | -1 | 924.5 | 105.8 |
| Calcium | 500000 | 476380 | 492200 | 490200.0 | 102.9 | 486400 | 485100.0 | 101.8 |
| Chromium | 0 | 451 | 7 | 471.9 | 104.6 | 7 | 465.4 | 103.2 |
| Cobalt | 0 | 434 | -1 | 451.2 | 104.0 | -1 | 436.2 | 100.5 |
| Copper | 0 | 482 | 4 | 509.1 | 105.6 | 5 | 507.8 | 105.4 |
| Iron | 200000 | 192500 | 199700 | 196500.0 | 102.1 | 194500 | 191800.0 | 99.6 |
| Lead | 0 | 41 | 1 | 43.6 | 106.3 | 1 | 40.2 | 98.0 |
| Magnesium | 500000 | 524140 | 536700 | 534300.0 | 101.9 | 527300 | 525800.0 | 100.3 |
| Manganese | 0 | 451 | 2 | 477.6 | 105.9 | 3 | 477.4 | 105.9 |
| Nickel | 0 | 876 | 2 | 917.1 | 104.7 | 3 | 885.6 | 101.1 |
| Potassium | 0 | 0 | -133 | -134.4 | | -209 | -227.6 | |
| Silver | 0 | 198 | 0 | 210.2 | 106.2 | 0 | 215.7 | 108.9 |
| Sodium | 0 | 0 | -448 | -293.1 | | -108 | -129.5 | |
| Thallium | 0 | 83 | 2 | 90.2 | 108.7 | 3 | 80.8 | 97.3 |
| Vanadium | 0 | 464 | 5 | 494.6 | 106.6 | 4 | 489.4 | 105.5 |
| Zinc | 0 | 951 | 2 | 986.9 | 103.8 | 3 | 967.7 | 101.8 |

USEPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004

ICP ID Number: TJA ICAP 5 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 | 473 | 23 | 501.8 | 106.1 | 26 | 510.1 | 107.8 |

USEPA - CLP

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

BLACSTPSD2AS

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004Matrix (soil/water): SOIL Level (low/med): LOW% Solids for Sample: 77.1Concentration 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 | | 12389.0098 | | 11459.8896 | | 249.43 | 372.5 | | P |
| Antimony | 75 - 125 | 40.0080 | | 1.8894 | B | 62.36 | 61.1 | N | P |
| Arsenic | | 38.8232 | | 48.6257 | | 4.99 | -196.4 | | P |
| Barium | 75 - 125 | 394.4678 | | 80.1282 | | 249.43 | 126.0 | N | P |
| Beryllium | 75 - 125 | 6.8742 | | 0.4256 | B | 6.24 | 103.3 | | P |
| Cadmium | 75 - 125 | 6.4414 | | 0.0748 | U | 6.24 | 103.2 | | P |
| Chromium | | 170.1088 | | 111.4437 | | 24.94 | 235.2 | | P |
| Cobalt | 75 - 125 | 89.2822 | | 26.1773 | | 62.36 | 101.2 | | P |
| Copper | 75 - 125 | 70.6500 | | 32.8120 | | 31.18 | 121.4 | | P |
| Iron | | 29681.7402 | | 28210.1191 | | 124.71 | 1180.0 | | P |
| Lead | 75 - 125 | 6.6110 | | 3.8499 | | 2.49 | 110.9 | | P |
| Manganese | | 1639.9780 | | 797.7902 | | 62.36 | 1350.5 | | P |
| Mercury | 75 - 125 | 0.2700 | | 0.0443 | | 0.21 | 107.5 | | CV |
| Nickel | 75 - 125 | 294.8219 | | 192.6818 | | 62.36 | 163.8 | N | P |
| Selenium | 75 - 125 | 1.7210 | | 0.4856 | B | 1.25 | 98.8 | | P |
| Silver | 75 - 125 | 6.3354 | | 0.2744 | U | 6.24 | 101.5 | | P |
| Thallium | 75 - 125 | 7.1498 | | 1.7086 | | 6.24 | 87.2 | | P |
| Vanadium | 75 - 125 | 113.2021 | | 50.6086 | | 62.36 | 100.4 | | P |
| Zinc | 75 - 125 | 120.1362 | | 54.5495 | | 62.36 | 105.2 | | P |
| Cyanide | 75 - 125 | 6.2274 | | 0.6118 | U | 6.06 | 102.8 | | AS |

Comments:

USEPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

BLACSTPSD2AA

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS

SDG No.: GCD004Matrix (soil/water): SOILLevel (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 | | 93660.00 | 91890.00 | 2000.0 | 88.5 | | P |
| Antimony | | 526.00 | 15.15 | 500.0 | 102.2 | B | P |
| Arsenic | | 419.00 | 389.90 | 40.0 | 72.8 | | P |
| Barium | | 2692.00 | 642.50 | 2000.0 | 102.5 | | P |
| Beryllium | | 55.47 | 3.41 | 50.0 | 104.1 | B | P |
| Cadmium | | 51.97 | 0.60 | 50.0 | 103.9 | U | P |
| Chromium | | 1096.00 | 893.60 | 200.0 | 101.2 | | P |
| Cobalt | | 701.60 | 209.90 | 500.0 | 98.3 | | P |
| Copper | | 535.50 | 263.10 | 250.0 | 109.0 | | P |
| Iron | | 225500.00 | 226200.00 | 1000.0 | -70.0 | | P |
| Lead | | 49.19 | 30.87 | 20.0 | 91.6 | | P |
| Manganese | | 6879.00 | 6397.00 | 500.0 | 96.4 | | P |
| Nickel | | 2024.00 | 1545.00 | 500.0 | 95.8 | | P |
| Selenium | | 10.75 | 3.89 | 10.0 | 68.6 | B | P |
| Silver | | 53.34 | 2.20 | 50.0 | 106.7 | U | P |
| Thallium | | 60.95 | 13.70 | 50.0 | 94.5 | | P |
| Vanadium | | 929.00 | 405.80 | 500.0 | 104.6 | | P |
| Zinc | | 943.00 | 437.40 | 500.0 | 101.1 | | P |
| Cyanide | | 22.41 | 10.00 | 20.0 | 112.0 | U | AS |

Comments:

USEPA - CLP

6

DUPLICATES

SAMPLE NO.

BLACSTPSD2AD

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004Matrix (soil/water): SOIL Level (low/med): LOW% Solids for Sample: 77.1 % Solids for Duplicate: 76.7Concentration Units (ug/L or mg/kg dry weight): MG/KG

| Analyte | Control Limit | Sample (S) | C | Duplicate (D) | C | RPD | Q | M |
|-----------|---------------|------------|---|---------------|---|-------|---|----|
| Aluminum | | 11459.8896 | | 10207.7695 | | 11.6 | | P |
| Antimony | | 1.8894 | B | 1.9655 | B | 3.9 | | P |
| Arsenic | | 48.6257 | | 31.9141 | | 41.5 | * | P |
| Barium | 24.9 | 80.1282 | | 56.8193 | | 34.0 | | P |
| Beryllium | | 0.4256 | B | 0.3629 | B | 15.9 | | P |
| Cadmium | | 0.0748 | U | 0.0748 | U | | | P |
| Calcium | 623.6 | 2507.9819 | | 2060.2620 | | 19.6 | | P |
| Chromium | | 111.4437 | | 128.0804 | | 13.9 | | P |
| Cobalt | 6.2 | 26.1773 | | 20.2659 | | 25.5 | | P |
| Copper | | 32.8120 | | 30.1432 | | 8.5 | | P |
| Iron | | 28210.1191 | | 27025.3496 | | 4.3 | | P |
| Lead | | 3.8499 | | 3.6267 | | 6.0 | | P |
| Magnesium | | 17908.8105 | | 16237.6602 | | 9.8 | | P |
| Manganese | | 797.7902 | | 574.9277 | | 32.5 | * | P |
| Mercury | | 0.0443 | | 0.0283 | B | 44.1 | | CV |
| Nickel | | 192.6818 | | 174.8479 | | 9.7 | | P |
| Potassium | | 795.9194 | | 612.5911 | B | 26.0 | | P |
| Selenium | | 0.4856 | B | 0.2120 | U | 200.0 | | P |
| Silver | | 0.2744 | U | 1.0969 | B | 200.0 | | P |
| Sodium | | 123.3912 | B | 106.7919 | B | 14.4 | | P |
| Thallium | 1.2 | 1.7086 | | 1.4379 | | 17.2 | | P |
| Vanadium | | 50.6086 | | 46.2312 | | 9.0 | | P |
| Zinc | | 54.5495 | | 50.8705 | | 7.0 | | P |
| Cyanide | | 0.6118 | U | 0.5950 | U | | | AS |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004Solid LCS Source: Environmental Express

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|-----------|----------------|-------|----|---------------|--------|---|-----------------|-------|
| | True | Found | %R | True | Found | C | Limits | %R |
| Aluminum | | | | 200.0 | 208.7 | | 160.0 240.0 | 104.4 |
| Antimony | | | | 50.0 | 52.3 | | 40.0 60.0 | 104.6 |
| Arsenic | | | | 24.0 | 24.4 | | 19.2 28.8 | 101.7 |
| Barium | | | | 200.0 | 207.8 | | 160.0 240.0 | 103.9 |
| Beryllium | | | | 5.0 | 5.4 | | 4.0 6.0 | 108.0 |
| Cadmium | | | | 25.0 | 26.3 | | 20.0 30.0 | 105.2 |
| Calcium | | | | 2000.0 | 2123.0 | | 1600.0 2400.0 | 106.2 |
| Chromium | | | | 20.0 | 21.3 | | 16.0 24.0 | 106.5 |
| Cobalt | | | | 50.0 | 50.8 | | 40.0 60.0 | 101.6 |
| Copper | | | | 25.0 | 27.7 | | 20.0 30.0 | 110.8 |
| Iron | | | | 100.0 | 111.2 | | 80.0 120.0 | 111.2 |
| Lead | | | | 22.0 | 22.2 | | 17.6 26.4 | 100.9 |
| Magnesium | | | | 2000.0 | 2070.0 | | 1600.0 2400.0 | 103.5 |
| Manganese | | | | 50.0 | 53.6 | | 40.0 60.0 | 107.2 |
| Mercury | | | | 0.1 | 0.1 | | 0.1 0.1 | 100.0 |
| Nickel | | | | 50.0 | 51.0 | | 40.0 60.0 | 102.0 |
| Potassium | | | | 2000.0 | 2097.0 | | 1600.0 2400.0 | 104.8 |
| Selenium | | | | 21.0 | 20.3 | | 16.8 25.2 | 96.7 |
| Silver | | | | 25.0 | 26.6 | | 20.0 30.0 | 106.4 |
| Sodium | | | | 2000.0 | 2126.0 | | 1600.0 2400.0 | 106.3 |
| Thallium | | | | 25.0 | 24.4 | | 20.0 30.0 | 97.6 |
| Vanadium | | | | 50.0 | 53.6 | | 40.0 60.0 | 107.2 |
| Zinc | | | | 50.0 | 52.4 | | 40.0 60.0 | 104.8 |
| Cyanide | | | | 6.0 | 6.1 | | 5.4 6.6 | 101.7 |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004

Solid LCS Source: Environmental Express

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | |
|---------|----------------|-------|----|---------------|-------|----------|-------------|
| | True | Found | %R | True | Found | C Limits | %R |
| Cyanide | | | | 6.0 | 6.1 | 5.4 | 6.6 101.7 |

USEPA - CLP

9

ICP SERIAL DILUTIONS

SAMPLE NO.

BLACSTPSD2AL

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCD004Matrix (soil/water): SOILLevel (low/med): LOW

Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | | Serial Dilution Result (S) | | % Difference | Q | M |
|-----------|---------------------------|---|----------------------------|---|--------------|---|---|
| | | C | | C | | | |
| Aluminum | 91890.00 | | 93840.00 | | 2.1 | | P |
| Antimony | 15.15 | B | 23.50 | U | 100.0 | | P |
| Arsenic | 389.90 | | 407.20 | | 4.4 | | P |
| Barium | 642.50 | | 645.10 | B | 0.4 | | P |
| Beryllium | 3.41 | B | 4.97 | B | 45.7 | | P |
| Cadmium | 0.60 | U | 3.00 | U | | | P |
| Calcium | 20110.00 | | 20830.00 | B | 3.6 | | P |
| Chromium | 893.60 | | 911.20 | | 2.0 | | P |
| Cobalt | 209.90 | | 215.40 | B | 2.6 | | P |
| Copper | 263.10 | | 266.40 | | 1.3 | | P |
| Iron | 226200.00 | | 233700.00 | | 3.3 | | P |
| Lead | 30.87 | | 32.11 | | 4.0 | | P |
| Magnesium | 143600.00 | | 144500.00 | | 0.6 | | P |
| Manganese | 6397.00 | | 6647.00 | | 3.9 | | P |
| Nickel | 1545.00 | | 1611.00 | | 4.3 | | P |
| Potassium | 6382.00 | | 6358.00 | B | 0.4 | | P |
| Selenium | 3.89 | B | 8.50 | U | 100.0 | | P |
| Silver | 2.20 | U | 11.00 | U | | | P |
| Sodium | 989.40 | B | 2363.50 | U | 100.0 | | P |
| Thallium | 13.70 | | 34.44 | B | 151.4 | | P |
| Vanadium | 405.80 | | 417.40 | | 2.9 | | P |
| Zinc | 437.40 | | 458.30 | | 4.8 | | P |

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004ICP ID Number: _____ Date: 7/1/2003Flame AA ID Number: Lachat Cyanide

Furnace AA ID Number: _____

| Analyte | Wave-length (nm) | Back-ground | CRDL (ug/L) | IDL (ug/L) | M |
|---------|------------------|-------------|-------------|------------|----|
| Cyanide | | | 10 | 10.0 | AS |

Comments: _____

USEPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON

Contract: 23046

Lab Code: STLVT Case No.: 23046

SAS No.: _____ SDG No.: GCD004

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:

USEPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVT Case No.: 23046

SAS No.: _____

SDG No.: GCD004ICP ID Number: TJA ICAP 4Date: 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:

USEPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004ICP ID Number: TJA ICAP 5 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 |
|-----------|------------------|-------------|-------------|------------|---|
| Manganese | 294.920 | | 15 | 1.9 | P |

Comments: _____

USEPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004

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 |
|----------|------------------|-------------|-------------|------------|---|
| Lead | 220.353 | | 3 | 1.5 | P |
| Selenium | 196.026 | | 5 | 1.7 | P |

Comments:

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004
 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 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Antimony | 206.84 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Arsenic | 189.04 | 0.000000 | 0.000000 | -0.0000600 | 0.000000 | 0.000000 |
| Barium | 493.41 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Beryllium | 313.04 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Boron | 249.68 | 0.000000 | 0.000000 | 0.0008950 | 0.000000 | 0.000000 |
| Cadmium | 226.50 | 0.000000 | 0.000000 | 0.0000330 | 0.000000 | 0.000000 |
| Calcium | 317.93 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Chromium | 267.72 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Cobalt | 228.62 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0004320 |
| Copper | 324.75 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Iron | 271.44 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Lead | 220.35 | 0.0006300 | 0.000000 | 0.0000090 | 0.000000 | 0.000000 |
| Magnesium | 279.08 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Manganese | 257.61 | 0.000000 | 0.000000 | 0.000000 | 0.0000200 | 0.000000 |
| Molybdenum | 202.03 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Nickel | 231.60 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Potassium | 766.49 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Selenium | 196.03 | 0.000000 | 0.000000 | -0.0000220 | 0.000000 | 0.000000 |
| Silicon | 288.16 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Silver | 328.07 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Sodium | 330.23 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Thallium | 190.86 | 0.0000200 | 0.000000 | -0.0000900 | 0.000000 | 0.000000 |
| Tin | 189.99 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Vanadium | 292.40 | 0.000000 | 0.000000 | 0.0000490 | 0.000000 | 0.000000 |
| Zinc | 213.86 | 0.0000250 | 0.000000 | 0.0000630 | 0.000000 | 0.000000 |

Comments: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004

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 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0072400 |
| Antimony | 206.84 | 0.000000 | 0.0111600 | 0.000000 | 0.000000 | -0.0024800 |
| Arsenic | 189.04 | 0.000000 | 0.0004700 | 0.000000 | 0.000000 | 0.0013380 |
| Barium | 493.41 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000000 |
| Beryllium | 313.04 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000000 |
| Boron | 249.68 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000000 |
| Cadmium | 226.50 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000000 |
| Calcium | 317.93 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000000 |
| Chromium | 267.72 | 0.0001150 | 0.000000 | 0.000000 | 0.000000 | 0.0001350 |
| Cobalt | 228.62 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | -0.0016380 |
| Copper | 324.75 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000000 |
| Iron | 271.44 | 0.1059800 | 0.000000 | 0.000000 | 0.000000 | 0.0036200 |
| Lead | 220.35 | -0.0022600 | -0.0001190 | 0.000000 | 0.000000 | -0.0007540 |
| Magnesium | 279.08 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000000 |
| Manganese | 257.61 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000000 |
| Molybdenum | 202.03 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000000 |
| Nickel | 231.60 | -0.0004300 | 0.000000 | 0.000000 | 0.000000 | 0.0000000 |
| Potassium | 766.49 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000000 |
| Selenium | 196.03 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000000 |
| Silicon | 288.16 | 0.000000 | -0.0038600 | 0.000000 | 0.000000 | -0.0042750 |
| Silver | 328.07 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | -0.0007920 |
| Sodium | 330.23 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000000 |
| Thallium | 190.86 | 0.0032700 | 0.0002540 | 0.000000 | -0.008140 | 0.0000000 |
| Tin | 189.99 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000000 |
| Vanadium | 292.40 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | -0.0160000 |
| Zinc | 213.86 | 0.000000 | 0.000000 | 0.0003300 | 0.000000 | 0.0000000 |

Comments: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004
 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: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004
 ICP ID Number: TJA ICAP 5 Date: 10/2/2002

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | | |
|------------|------------------|--------------------------------------|-----------|------------|-----------|-----------|
| | | Al | Ca | Fe | Mg | Ag |
| 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 | 0.0000050 | 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 |
| Cadmium | 226.50 | 0.0000070 | 0.0000000 | 0.0000830 | 0.0000000 | 0.0000000 |
| Calcium | 317.93 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.72 | 0.0000290 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cobalt | 228.61 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper | 324.75 | 0.0000000 | 0.0000000 | 0.0000060 | 0.0000000 | 0.0000000 |
| Iron | 271.44 | 0.0001300 | 0.0000000 | 0.0000000 | -0.000400 | 0.0000000 |
| Lead | 220.35 | 0.0008600 | 0.0000000 | 0.0000920 | -0.000008 | 0.0000000 |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 294.92 | 0.0000000 | 0.0000000 | 0.0006580 | 0.0000180 | 0.0000000 |
| Molybdenum | 202.03 | 0.0000000 | 0.0000000 | 0.0000260 | 0.0000000 | 0.0000000 |
| Nickel | 231.60 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Phosphorus | 178.29 | 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 | 0.0000100 | 0.0000000 | -0.0001300 | -0.000010 | 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 |
| Strontium | 421.55 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.86 | -0.0000090 | 0.0000000 | -0.0004350 | 0.0000000 | 0.0000000 |
| Titanium | 334.94 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Vanadium | 292.40 | 0.0000000 | 0.0000000 | -0.0003250 | 0.0000000 | 0.0000000 |
| Zinc | 213.85 | 0.0000000 | 0.0000000 | 0.0000800 | 0.0000390 | 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.: GCD004
 ICP ID Number: TJA ICAP 5 Date: 10/2/2002

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | | |
|------------|------------------|--------------------------------------|-----------|-----------|-----------|------------|
| | | As | B | Be | Cd | Co |
| Aluminum | 308.22 | 0.0026340 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Antimony | 206.84 | 0.0002400 | 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 | 0.0000000 | 0.0000000 |
| Cadmium | 226.50 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000840 |
| 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 | 228.61 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper | 324.75 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000610 |
| Iron | 271.44 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0840960 |
| Lead | 220.35 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0026440 |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 294.92 | 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 | 0.0022990 |
| Phosphorus | 178.29 | 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 | 0.0000000 | 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 |
| Strontium | 421.55 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.86 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0018110 |
| Titanium | 334.94 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0002200 |
| Vanadium | 292.40 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc | 213.85 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

Comments: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004

ICP ID Number: TJA ICAP 5 Date: 10/2/2002

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | | |
|------------|------------------|--------------------------------------|------------|-----------|-----------|-----------|
| | | Cr | Cu | Mn | Na | Ni |
| Aluminum | 308.22 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Antimony | 206.84 | 0.0087280 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Arsenic | 189.04 | -0.0088830 | 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 | 0.0000000 | 0.0000000 |
| Cadmium | 226.50 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0001070 |
| 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 | 228.61 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| 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 | -0.0000530 | -0.0000340 | 0.0000000 | 0.0000000 | 0.0000000 |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 294.92 | -0.0015990 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Molybdenum | 202.03 | 0.0004700 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Nickel | 231.60 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Phosphorus | 178.29 | 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 | 0.0000000 | 0.0000000 | 0.0000000 |
| Silver | 328.07 | -0.0000990 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Sodium | 330.23 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Strontium | 421.55 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.86 | 0.0002810 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Titanium | 334.94 | 0.0002200 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Vanadium | 292.40 | -0.0020840 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc | 213.85 | 0.0000000 | 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.: GCD004

ICP ID Number: TJA ICAP 5 Date: 10/2/2002

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | | |
|------------|------------------|--------------------------------------|------------|----------|----------|-----------|
| | | Pb | Sb | Se | Si | Tl |
| Aluminum | 308.22 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Antimony | 206.84 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Arsenic | 189.04 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Barium | 493.41 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Beryllium | 313.04 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Cadmium | 226.50 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Calcium | 317.93 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Chromium | 267.72 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Cobalt | 228.61 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Copper | 324.75 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Iron | 271.44 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Lead | 220.35 | 0.000000 | -0.0001650 | 0.000000 | 0.000000 | 0.000000 |
| Magnesium | 279.08 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Manganese | 294.92 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Molybdenum | 202.03 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Nickel | 231.60 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0005120 |
| Phosphorus | 178.29 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Potassium | 766.49 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Selenium | 196.03 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000650 |
| Silver | 328.07 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Sodium | 330.23 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Strontium | 421.55 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Thallium | 190.86 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Titanium | 334.94 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Vanadium | 292.40 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Zinc | 213.85 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

Comments: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004

ICP ID Number: TJA ICAP 5 Date: 10/2/2002

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | |
|------------|------------------|--------------------------------------|-----------|--|--|
| | | V | Zn | | |
| Aluminum | 308.22 | -0.0084630 | 0.0000000 | | |
| Antimony | 206.84 | -0.0060220 | 0.0000000 | | |
| Arsenic | 189.04 | 0.0000000 | 0.0000000 | | |
| Barium | 493.41 | 0.0000000 | 0.0000000 | | |
| Beryllium | 313.04 | 0.0009440 | 0.0000000 | | |
| Cadmium | 226.50 | 0.0000000 | 0.0000000 | | |
| Calcium | 317.93 | 0.0000000 | 0.0000000 | | |
| Chromium | 267.72 | -0.0001950 | 0.0000000 | | |
| Cobalt | 228.61 | 0.0000000 | 0.0000000 | | |
| Copper | 324.75 | 0.0000000 | 0.0000000 | | |
| Iron | 271.44 | 0.0124990 | 0.0000000 | | |
| Lead | 220.35 | 0.0000000 | 0.0000000 | | |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | | |
| Manganese | 294.92 | 0.0078880 | 0.0000000 | | |
| Molybdenum | 202.03 | -0.0000010 | 0.0000000 | | |
| Nickel | 231.60 | 0.0000000 | 0.0000000 | | |
| Phosphorus | 178.29 | 0.0000000 | 0.0000000 | | |
| Potassium | 766.49 | 0.0000000 | 0.0000000 | | |
| Selenium | 196.03 | 0.0000920 | 0.0000000 | | |
| Silver | 328.07 | 0.0000910 | 0.0000000 | | |
| Sodium | 330.23 | 0.0000000 | 0.0593250 | | |
| Strontium | 421.55 | 0.0000000 | 0.0000000 | | |
| Thallium | 190.86 | -0.0011100 | 0.0000000 | | |
| Titanium | 334.94 | 0.0000000 | 0.0000000 | | |
| Vanadium | 292.40 | 0.0000000 | 0.0000000 | | |
| Zinc | 213.85 | -0.0000350 | 0.0000000 | | |

Comments: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004

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: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004
 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 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Antimony | 206.838 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Arsenic | 189.042 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Barium | 493.409 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Beryllium | 313.042 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Boron | 249.678 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Cadmium | 226.502 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Calcium | 317.933 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Chromium | 267.716 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Cobalt | 228.616 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Copper | 324.754 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Iron | 271.441 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | -0.0082960 |
| Lead | 220.353 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Magnesium | 279.079 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Manganese | 257.610 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Molybdenum | 202.030 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Nickel | 231.604 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Phosphorus | 178.287 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Potassium | 766.491 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Selenium | 196.026 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | -0.0001900 |
| Silver | 328.068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Sodium | 330.232 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Strontium | 421.552 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Thallium | 190.864 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0002350 |
| Tin | 189.989 | 0.000000 | 0.000000 | -0.0004370 | 0.000000 | 0.000000 |
| Titanium | 334.941 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Vanadium | 292.402 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Zinc | 206.200 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

Comments: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004
 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 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Antimony | 206.838 | 0.0078510 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Arsenic | 189.042 | -0.0002840 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Barium | 493.409 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Beryllium | 313.042 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Boron | 249.678 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Cadmium | 226.502 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | -0.0001750 |
| Calcium | 317.933 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Chromium | 267.716 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Cobalt | 228.616 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Copper | 324.754 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Iron | 271.441 | 0.0008900 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Lead | 220.353 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000800 |
| Magnesium | 279.079 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Manganese | 257.610 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Molybdenum | 202.030 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Nickel | 231.604 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Phosphorus | 178.287 | -0.0007400 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Potassium | 766.491 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Selenium | 196.026 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Silver | 328.068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Sodium | 330.232 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Strontium | 421.552 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Thallium | 190.864 | 0.000000 | 0.000000 | -0.0004500 | 0.000000 | 0.000000 |
| Tin | 189.989 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Titanium | 334.941 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Vanadium | 292.402 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Zinc | 206.200 | 0.0044570 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

Comments: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004

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 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Antimony | 206.838 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Arsenic | 189.042 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Barium | 493.409 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Beryllium | 313.042 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Boron | 249.678 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Cadmium | 226.502 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Calcium | 317.933 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Chromium | 267.716 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Cobalt | 228.616 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Copper | 324.754 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Iron | 271.441 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Lead | 220.353 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Magnesium | 279.079 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Manganese | 257.610 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Molybdenum | 202.030 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Nickel | 231.604 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Phosphorus | 178.287 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Potassium | 766.491 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Selenium | 196.026 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Silver | 328.068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Sodium | 330.232 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Strontium | 421.552 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Thallium | 190.864 | -0.000350 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Tin | 189.989 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Titanium | 334.941 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Vanadium | 292.402 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Zinc | 206.200 | 0.000390 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

Comments: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004ICP 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 BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCD004ICP ID Number: TJA ICAP 4Date: 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.: GCD004

ICP ID Number: TJA ICAP 5 Date: 7/1/2003

| Analyte | Integ. Time (Sec.) | Concentration (ug/L) | M |
|-----------|--------------------------|-------------------------|---|
| Manganese | 10.00 | 100000.0 | 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.: GCD004

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

| Analyte | Integ. Time (Sec.) | Concentration (ug/L) | M |
|----------|--------------------------|-------------------------|---|
| Lead | 10.00 | 50000.0 | P |
| Selenium | 10.00 | 5000.0 | P |

Comments:

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004Method: AS

| EPA Sample No. | Preparation Date | Initial Weight (σ) | Volume (mL) |
|-------------------|---------------------|--------------------------------|----------------|
| BLACSTPSD1A | 8/15/2003 | 1.03 | 50.0 |
| BLACSTPSD2A | 8/15/2003 | 1.06 | 50.0 |
| BLACSTPSD2A (100) | 8/15/2003 | 1.07 | 50.0 |
| BLACSTPSD2AD | 8/15/2003 | 1.09 | 50.0 |
| BLACSTPSD2AS | 8/15/2003 | 1.07 | 50.0 |
| BLACSTPSD3A | 8/15/2003 | 1.16 | 50.0 |
| BLACSTRSD1A | 8/15/2003 | 1.03 | 50.0 |
| BLACSTRSD2A | 8/15/2003 | 1.13 | 50.0 |
| BLACSTRSD3A | 8/15/2003 | 1.09 | 50.0 |
| BLUESTPSD5A | 8/15/2003 | 1.09 | 50.0 |
| ICV | 8/15/2003 | 50.0 | 50.0 |
| LCS0815A | 8/15/2003 | 1.00 | 50.0 |
| LCSD0815A | 8/15/2003 | 1.00 | 50.0 |
| PBS0815A | 8/15/2003 | 1.00 | 50.0 |

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004Method: CV

| EPA Sample No. | Preparation Date | Initial Weight (α) | Volume (mL) |
|-------------------|---------------------|--------------------------------|----------------|
| BLACSTPSD1A | 8/25/2003 | 0.64 | 100.0 |
| BLACSTPSD2A | 8/25/2003 | 0.62 | 100.0 |
| BLACSTPSD2A(100) | 8/25/2003 | 0.61 | 100.0 |
| BLACSTPSD2AD | 8/25/2003 | 0.65 | 100.0 |
| BLACSTPSD2AS | 8/25/2003 | 0.61 | 100.0 |
| BLACSTPSD3A | 8/25/2003 | 0.67 | 100.0 |
| BLACSTRSD1A | 8/25/2003 | 0.62 | 100.0 |
| BLACSTRSD2A | 8/25/2003 | 0.64 | 100.0 |
| BLACSTRSD3A | 8/25/2003 | 0.64 | 100.0 |
| BLUESTPSD5A | 8/25/2003 | 0.65 | 100.0 |
| LCSS0825C | 8/25/2003 | 1.00 | 100.0 |
| PBS0825C | 8/25/2003 | 0.60 | 100.0 |

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004Method: P

| EPA Sample No. | Preparation Date | Initial Weight (α) | Volume (mL) |
|-------------------|------------------|-----------------------------|-------------|
| BLACSTPSD1A | 9/8/2003 | 1.02 | 100.0 |
| BLACSTPSD2A | 9/8/2003 | 1.04 | 100.0 |
| BLACSTPSD2A (100) | 9/8/2003 | 1.06 | 100.0 |
| BLACSTPSD2AD | 9/8/2003 | 1.04 | 100.0 |
| BLACSTPSD2AS | 9/8/2003 | 1.04 | 100.0 |
| BLACSTPSD3A | 9/8/2003 | 1.10 | 100.0 |
| BLACSTRSD1A | 9/8/2003 | 1.08 | 100.0 |
| BLACSTRSD2A | 9/8/2003 | 1.00 | 100.0 |
| BLACSTRSD3A | 9/8/2003 | 1.01 | 100.0 |
| BLUESTPSD5A | 9/8/2003 | 1.11 | 100.0 |
| LCSS0908F | 9/8/2003 | 1.00 | 100.0 |
| PBS0908F | 9/8/2003 | 1.00 | 100.0 |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004
 Instrument ID Number: Lachat Cyanide QC8000 Method: AS
 Start Date: 8/15/2003 End Date: 8/15/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V L | Z N | C N | | | | |
| S0 | 1.00 | 1433 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| S10 | 1.00 | 1434 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| S30 | 1.00 | 1435 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| S50 | 1.00 | 1436 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| S100 | 1.00 | 1437 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| S200 | 1.00 | 1438 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| S300 | 1.00 | 1439 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| ICV | 1.00 | 1440 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| ICB | 1.00 | 1441 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| LRS | 1.00 | 1442 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| LRS | 1.00 | 1443 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| CCV | 1.00 | 1444 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| CCB | 1.00 | 1445 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| ZZZZZZ | 1.00 | 1446 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PBS0815A | 1.00 | 1447 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| LCS0815A | 1.00 | 1448 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| LCSD0815A | 1.00 | 1449 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| BLUESTPSD5A | 1.00 | 1450 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| BLACSTPSD3A | 1.00 | 1451 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| BLACSTRSD3A | 1.00 | 1452 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| BLACSTPSD2A | 1.00 | 1453 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| BLACSTPSD2AD | 1.00 | 1454 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| BLACSTPSD2AS | 1.00 | 1455 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| CCV | 1.00 | 1456 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| CCB | 1.00 | 1457 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| BLACSTRSD2A | 1.00 | 1458 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| BLACSTPSD2A(100) | 1.00 | 1459 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| BLACSTPSD1A | 1.00 | 1500 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| BLACSTRSD1A | 1.00 | 1501 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| ZZZZZZ | 1.00 | 1502 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1503 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1504 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1505 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1506 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1507 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1507 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| CCB | 1.00 | 1508 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| ZZZZZZ | 1.00 | 1509 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

USEPA - CLP
14
ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004
 Instrument ID Number: Lachat Cyanide QC8000 Method: AS
 Start Date: 8/15/2003 End Date: 8/15/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|------|------|-----|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| | | | | A | S | A | B | B | C | C | C | C | F | P | M | M | H | N | K | S | A | N | T | V | Z | C | | | | | |
| | | | | L | B | S | A | E | D | A | R | O | U | E | B | G | N | G | I | E | G | A | L | | | | | N | N | | |
| ZZZZZ | 1.00 | 1510 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLACSTPSD2AA | 1.00 | 1511 | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | |
| CCV | 1.00 | 1512 | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | |
| CCB | 1.00 | 1513 | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004
 Instrument ID Number: TJA ICAP 6 Method: P
 Start Date: 9/8/2003 End Date: 9/9/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K I | S E | A G | N A | T L | V L | Z N | C N | | | | |
| S0 | 1.00 | 2307 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | | | |
| S | 1.00 | 2311 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S | 1.00 | 2315 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | | | |
| S | 1.00 | 2319 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LRS | 1.00 | 2323 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | | | |
| LRS | 1.00 | 2327 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | | | |
| LRS | 1.00 | 2332 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | | | |
| ICV | 1.00 | 2336 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | | | |
| ICB | 1.00 | 2340 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | | | |
| ICSA | 1.00 | 2344 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | | | |
| ICSAB | 1.00 | 2348 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | | | |
| CRI | 1.00 | 2352 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | | | |
| CCV | 1.00 | 2356 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | | | |
| CCB | 1.00 | 0001 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0005 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0009 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0017 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0025 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 5.00 | 0029 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0033 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0037 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0041 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 0045 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | | | |
| CCB | 1.00 | 0049 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0054 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0058 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0102 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PBS0908F | 1.00 | 0106 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | | | |
| LCSS0908F | 1.00 | 0110 | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0114 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0118 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0122 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLUESTPSD5A | 1.00 | 0126 | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| BLACSTPSD3A | 1.00 | 0130 | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| CCV | 1.00 | 0134 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | | | |
| CCB | 1.00 | 0138 | | | | | | | | | | | X | | | | | | | X | | | | | | | | | | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004
 Instrument ID Number: TJA ICAP 6 Method: P
 Start Date: 9/8/2003 End Date: 9/9/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|--------|--------|---|--------|--------|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K | S E | A G | N A | T L | V | Z N | C N | | |
| BLACSTRSD3A | 1.00 | 0142 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| BLACSTPSD2A | 1.00 | 0147 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| BLACSTPSD2AL | 5.00 | 0151 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| BLACSTPSD2AA | 1.00 | 0155 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| BLACSTPSD2AD | 1.00 | 0159 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| BLACSTPSD2AS | 1.00 | 0203 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| BLACSTRSD2A | 1.00 | 0207 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| BLACSTPSD2A(100) | 1.00 | 0211 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| BLACSTPSD1A | 1.00 | 0215 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| BLACSTRSD1A | 1.00 | 0219 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| CCV | 1.00 | 0223 | | | | | | | | | | | X | | | | | | | | X | | | | | | | | |
| CCB | 1.00 | 0227 | | | | | | | | | | | X | | | | | | | | X | | | | | | | | |
| ZZZZZZ | 1.00 | 0231 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 5.00 | 0235 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0239 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0243 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ICSA | 1.00 | 0248 | | | | | | | | | | | X | | | | | | | | X | | | | | | | | |
| ICSAB | 1.00 | 0252 | | | | | | | | | | | X | | | | | | | | X | | | | | | | | |
| CRI | 1.00 | 0256 | | | | | | | | | | | X | | | | | | | | X | | | | | | | | |
| CCV | 1.00 | 0300 | | | | | | | | | | | X | | | | | | | | X | | | | | | | | |
| CCB | 1.00 | 0304 | | | | | | | | | | | X | | | | | | | | X | | | | | | | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON

Contract: 23046

Lab Code: STLVT

Case No.: 23046

SAS No.: _____

SDG No.: GCD004

Instrument ID Number: TJA ICAP 4

Method: P

Start Date: 9/15/2003

End Date: 9/15/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C F | F E | P B | M G | M N | H G | N I | K E | S E | A G | A L | T L | V L | Z N | C N | | | | |
| S0 | 1.00 | 1240 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| S | 1.00 | 1245 | | X | | | | | X | | | | X | X | | | | | X | | | X | | | | | | | | | |
| S | 1.00 | 1249 | | | X | X | | | | | | | X | | | | | | | | | | X | | | | | | | | |
| S | 1.00 | 1252 | | | | | X | X | X | | X | X | X | | | X | X | | | X | | | X | | | X | X | | | | |
| LRS | 1.00 | 1257 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| LRS | 1.00 | 1302 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| LRS | 1.00 | 1307 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICV | 1.00 | 1312 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICB | 1.00 | 1316 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICSA | 1.00 | 1321 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICSAB | 1.00 | 1326 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CRI | 1.00 | 1331 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCV | 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 | X | X | X | | | |
| CCB | 1.00 | 1340 | | X | X | X | 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 | 1345 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1350 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1355 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1359 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1404 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1409 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 5.00 | 1413 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1418 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1423 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1427 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 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 | X | X | X | | | |
| CCB | 1.00 | 1437 | | X | X | X | 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 | 1441 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1446 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1451 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PBS0908F | 1.00 | 1455 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| LCSS0908F | 1.00 | 1500 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLUESTPSD5A | 1.00 | 1505 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLACSTPSD3A | 1.00 | 1510 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLACSTRSD3A | 1.00 | 1514 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLACSTPSD2A | 1.00 | 1519 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLACSTPSD2AL | 5.00 | 1524 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCV | 1.00 | 1528 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCB | 1.00 | 1533 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004
 Instrument ID Number: TJA ICAP 4 Method: P
 Start Date: 9/15/2003 End Date: 9/15/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|--|--|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S G | A A | N L | T L | V | Z N | C N | | | | |
| BLACSTPSD2AA | 1.00 | 1538 | | X | X | X | X | X | X | | X | X | X | X | X | | X | | | X | | X | X | X | | | | | | | |
| BLACSTPSD2AD | 1.00 | 1542 | | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | | X | X | X | X | X | | | | | | | |
| BLACSTPSD2AS | 1.00 | 1547 | | X | X | X | X | X | X | | X | X | X | X | | | X | | | X | | X | X | X | | | | | | | |
| BLACSTRSD2A | 1.00 | 1552 | | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | | X | X | X | X | X | | | | | | | |
| BLACSTPSD2A(100) | 1.00 | 1557 | | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | | X | X | X | X | X | | | | | | | |
| BLACSTPSD1A | 1.00 | 1601 | | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | | X | X | X | X | X | | | | | | | |
| BLACSTRSD1A | 1.00 | 1606 | | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | | X | X | X | X | X | | | | | | | |
| ICSA | 1.00 | 1611 | | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | | X | X | X | X | X | | | | | | | |
| ICSAB | 1.00 | 1615 | | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | | X | X | X | X | X | | | | | | | |
| CRI | 1.00 | 1620 | | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | | X | X | X | X | X | | | | | | | |
| CCV | 1.00 | 1625 | | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | | X | X | X | X | X | | | | | | | |
| CCB | 1.00 | 1630 | | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | | X | X | X | X | X | | | | | | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004
 Instrument ID Number: TJA ICAP 5 Method: P
 Start Date: 9/17/2003 End Date: 9/18/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|-------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S G | A A | N L | T L | V L | Z N | C N | | | | |
| ZZZZZZ | 10.00 | 0123 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 10.00 | 0129 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 10.00 | 0134 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 10.00 | 0140 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 10.00 | 0146 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ICSA | 1.00 | 0152 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ICSAB | 1.00 | 0157 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CRI | 1.00 | 0203 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 0209 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCB | 1.00 | 0215 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

USEPA - CLP
14
ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004
 Instrument ID Number: Leeman Hydra AA Method: CV
 Start Date: 8/26/2003 End Date: 8/26/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V L | Z N |
| ZZZZZZ | 1.00 | 1535 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1537 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1538 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1540 | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1542 | | | | | | | | | | | | | | | X | | | | | | | | | |
| CCB | 1.00 | 1544 | | | | | | | | | | | | | | | X | | | | | | | | | |
| ZZZZZZ | 1.00 | 1546 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1548 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1550 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1552 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1554 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1556 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1558 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1559 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1601 | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1603 | | | | | | | | | | | | | | | X | | | | | | | | | |
| CCB | 1.00 | 1605 | | | | | | | | | | | | | | | X | | | | | | | | | |
| ZZZZZZ | 1.00 | 1607 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1609 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1610 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1612 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1614 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1616 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1618 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1620 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1621 | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1623 | | | | | | | | | | | | | | | X | | | | | | | | | |
| CCB | 1.00 | 1625 | | | | | | | | | | | | | | | X | | | | | | | | | |
| ZZZZZZ | 1.00 | 1627 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1629 | | | | | | | | | | | | | | | | | | | | | | | | |
| PBS0825C | 1.00 | 1631 | | | | | | | | | | | | | | | X | | | | | | | | | |
| LCSS0825C | 1.00 | 1633 | | | | | | | | | | | | | | | X | | | | | | | | | |
| ZZZZZZ | 1.00 | 1634 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1636 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1638 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1640 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1642 | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1644 | | | | | | | | | | | | | | | X | | | | | | | | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004
 Instrument ID Number: Leeman Hydra AA Method: CV
 Start Date: 8/26/2003 End Date: 8/26/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S G | A A | N L | T L | V L | Z N | C N | | |
| CCB | 1.00 | 1646 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| BLUESTPSD5A | 1.00 | 1647 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| BLACSTPSD3A | 1.00 | 1650 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| BLACSTRSD3A | 1.00 | 1652 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| BLACSTPSD2A | 1.00 | 1654 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| BLACSTPSD2AS | 1.00 | 1656 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| BLACSTPSD2AD | 1.00 | 1658 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| BLACSTRSD2A | 1.00 | 1700 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| BLACSTPSD2A(100) | 1.00 | 1702 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| BLACSTPSD1A | 1.00 | 1704 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| CCV | 1.00 | 1706 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| CCB | 1.00 | 1708 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| BLACSTRSD1A | 1.00 | 1710 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| CCV | 1.00 | 1712 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| CCB | 1.00 | 1714 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |



**Sample Data Summary Package
For Metals**

USEPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL BURLINGTON Contract: 23046
Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004-SPLP
SOW No.: ILM04.1

| <u>EPA Sample No.</u> | <u>Lab Sample ID.</u> |
|-------------------------------|-----------------------|
| <u>BLACSTPSD1ASPLP</u> | <u>537775</u> |
| <u>BLACSTPSD2A (100) SPLP</u> | <u>537773</u> |
| <u>BLACSTPSD2ASPLP</u> | <u>537770</u> |
| <u>BLACSTPSD2ASPLPD</u> | <u>537770DP</u> |
| <u>BLACSTPSD2ASPLPS</u> | <u>537770MS</u> |
| <u>BLACSTPSD3ASPLP</u> | <u>537767</u> |
| <u>BLUESTPSD5ASPLP</u> | <u>537765</u> |

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: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTPSD1ASPLP

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004-SPLP
 Matrix (soil/water): SPLP EXT Lab Sample ID: 537775
 Level (low/med): LOW Date Received: 8/12/2003
 % 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 | 1340 | | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 6.3 | B | | P |
| 7440-39-3 | Barium | 68.8 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 1320 | B | | P |
| 7440-47-3 | Chromium | 13.0 | | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 4.3 | B | | P |
| 7439-89-6 | Iron | 2450 | | | P |
| 7439-92-1 | Lead | 2.9 | B | | P |
| 7439-95-4 | Magnesium | 1660 | B | | P |
| 7439-96-5 | Manganese | 76.5 | | | P |
| 7439-97-6 | Mercury | 10.0 | U | N | CV |
| 7440-02-0 | Nickel | 17.3 | B | | P |
| 7440-09-7 | Potassium | 393 | U | | P |
| 7782-49-2 | Selenium | 1.7 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | N | P |
| 7440-23-5 | Sodium | 22600 | | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 6.2 | B | | P |
| 7440-66-6 | Zinc | 33.4 | | | P |

Color Before: pale yellow Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTPSD2A(100) SPLP

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004-SPLP
 Matrix (soil/water): SPLP EXT Lab Sample ID: 537773
 Level (low/med): LOW Date Received: 8/12/2003
 % 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 | 3230 | | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 10.3 | | | P |
| 7440-39-3 | Barium | 102 | B | | P |
| 7440-41-7 | Beryllium | 0.24 | B | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 1640 | B | | P |
| 7440-47-3 | Chromium | 28.3 | | | P |
| 7440-48-4 | Cobalt | 4.4 | B | | P |
| 7440-50-8 | Copper | 8.3 | B | | P |
| 7439-89-6 | Iron | 5490 | | | P |
| 7439-92-1 | Lead | 2.9 | B | | P |
| 7439-95-4 | Magnesium | 3170 | B | | P |
| 7439-96-5 | Manganese | 161 | | | P |
| 7439-97-6 | Mercury | 10.0 | U | N | CV |
| 7440-02-0 | Nickel | 39.0 | B | | P |
| 7440-09-7 | Potassium | 393 | U | | P |
| 7782-49-2 | Selenium | 1.7 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | N | P |
| 7440-23-5 | Sodium | 35800 | | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 10.2 | B | | P |
| 7440-66-6 | Zinc | 37.0 | | | P |

Color Before: pale yellow Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTPSD2ASPLP

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004-SPLP
 Matrix (soil/water): SPLP EXT Lab Sample ID: 537770
 Level (low/med): LOW Date Received: 8/12/2003
 % 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 | 3020 | | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 9.5 | B | | P |
| 7440-39-3 | Barium | 168 | B | | P |
| 7440-41-7 | Beryllium | 0.23 | B | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 2070 | B | | P |
| 7440-47-3 | Chromium | 24.9 | | | P |
| 7440-48-4 | Cobalt | 3.7 | B | | P |
| 7440-50-8 | Copper | 8.3 | B | | P |
| 7439-89-6 | Iron | 4910 | | | P |
| 7439-92-1 | Lead | 3.6 | | | P |
| 7439-95-4 | Magnesium | 3310 | B | | P |
| 7439-96-5 | Manganese | 149 | | | P |
| 7439-97-6 | Mercury | 10.0 | U | N | CV |
| 7440-02-0 | Nickel | 36.1 | B | | P |
| 7440-09-7 | Potassium | 393 | U | | P |
| 7782-49-2 | Selenium | 1.7 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | N | P |
| 7440-23-5 | Sodium | 12200 | | | P |
| 7440-28-0 | Thallium | 6.0 | B | | P |
| 7440-62-2 | Vanadium | 9.7 | B | | P |
| 7440-66-6 | Zinc | 86.2 | | | P |

Color Before: pale yellow Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTPSD3ASPLP

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004-SPLP
 Matrix (soil/water): SPLP EXT Lab Sample ID: 537767
 Level (low/med): LOW Date Received: 8/12/2003
 % 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 | 910 | | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 36.0 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 1100 | B | | P |
| 7440-47-3 | Chromium | 7.8 | B | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 4.8 | B | | P |
| 7439-89-6 | Iron | 1660 | | | P |
| 7439-92-1 | Lead | 1.5 | B | | P |
| 7439-95-4 | Magnesium | 1100 | B | | P |
| 7439-96-5 | Manganese | 44.1 | | | P |
| 7439-97-6 | Mercury | 10.0 | U | N | CV |
| 7440-02-0 | Nickel | 10.6 | B | | P |
| 7440-09-7 | Potassium | 393 | U | | P |
| 7782-49-2 | Selenium | 1.7 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | N | P |
| 7440-23-5 | Sodium | 6440 | | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 3.8 | B | | P |
| 7440-66-6 | Zinc | 10.0 | B | | P |

Color Before: pale yellow Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTPSD5ASPLP

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004-SPLP

Matrix (soil/water): SPLP EXT Lab Sample ID: 537765

Level (low/med): LOW Date Received: 8/12/2003

% 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 | 3010 | | | P |
| 7440-36-0 | Antimony | 5.1 | B | | P |
| 7440-38-2 | Arsenic | 6.6 | B | | P |
| 7440-39-3 | Barium | 136 | B | | P |
| 7440-41-7 | Beryllium | 0.26 | B | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 1720 | B | | P |
| 7440-47-3 | Chromium | 12.5 | | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 7.0 | B | | P |
| 7439-89-6 | Iron | 3530 | | | P |
| 7439-92-1 | Lead | 2.9 | B | | P |
| 7439-95-4 | Magnesium | 1490 | B | | P |
| 7439-96-5 | Manganese | 111 | | | P |
| 7439-97-6 | Mercury | 10.0 | U | N | CV |
| 7440-02-0 | Nickel | 17.9 | B | | P |
| 7440-09-7 | Potassium | 547 | B | | P |
| 7782-49-2 | Selenium | 1.7 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | N | P |
| 7440-23-5 | Sodium | 13000 | | | P |
| 7440-28-0 | Thallium | 6.2 | B | | P |
| 7440-62-2 | Vanadium | 7.4 | B | | P |
| 7440-66-6 | Zinc | 60.4 | | | P |

Color Before: pale yellow Clarity Before: clear Texture: _____Color After: colorless 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.: GCD004-SPLP

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) |
| Arsenic | 250.0 | 240.70 | 96.3 | 100.0 | 98.42 | 98.4 | 102.70 | 102.7 | P |
| Mercury | 3.0 | 3.29 | 109.7 | 5.0 | 4.93 | 98.6 | 4.73 | 94.6 | CV |
| Selenium | 250.0 | 235.60 | 94.2 | 100.0 | 98.20 | 98.2 | 102.90 | 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.: GCD004-SPLP

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) |
| Arsenic | | | | 100.0 | 103.20 | 103.2 | 94.79 | 94.8 | P |
| Mercury | | | | 5.0 | 4.97 | 99.4 | | | CV |
| Selenium | | | | 100.0 | 103.30 | 103.3 | 96.88 | 96.9 | 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.: GCD004-SPLP

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) |
| Arsenic | | | | 100.0 | 96.11 | 96.1 | | | P |
| Selenium | | | | 100.0 | 95.84 | 95.8 | | | 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.: GCD004-SPLP

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 | 26230.00 | 100.9 | 30200.0 | 29880.00 | 98.9 | 29860.00 | 98.9 | P |
| Antimony | 250.0 | 250.70 | 100.3 | 300.0 | 302.50 | 100.8 | 298.40 | 99.5 | P |
| Arsenic | 250.0 | 245.50 | 98.2 | 100.0 | 100.90 | 100.9 | 97.98 | 98.0 | P |
| Barium | 500.0 | 500.20 | 100.0 | 200.0 | 200.20 | 100.1 | 199.50 | 99.8 | P |
| Beryllium | 500.0 | 506.50 | 101.3 | 100.0 | 99.42 | 99.4 | 99.78 | 99.8 | P |
| Cadmium | 500.0 | 496.30 | 99.3 | 100.0 | 98.85 | 98.8 | 99.30 | 99.3 | P |
| Calcium | 25000.0 | 25250.00 | 101.0 | 30200.0 | 29890.00 | 99.0 | 29640.00 | 98.1 | P |
| Chromium | 500.0 | 500.70 | 100.1 | 200.0 | 197.20 | 98.6 | 196.30 | 98.2 | P |
| Cobalt | 500.0 | 494.20 | 98.8 | 200.0 | 197.10 | 98.6 | 195.30 | 97.6 | P |
| Copper | 500.0 | 509.00 | 101.8 | 200.0 | 203.90 | 102.0 | 203.90 | 102.0 | P |
| Iron | 25500.0 | 26050.00 | 102.2 | 30200.0 | 29660.00 | 98.2 | 29460.00 | 97.5 | P |
| Lead | 1000.0 | 984.80 | 98.5 | 400.0 | 387.90 | 97.0 | 387.00 | 96.8 | P |
| Magnesium | 25000.0 | 25250.00 | 101.0 | 30200.0 | 29590.00 | 98.0 | 29540.00 | 97.8 | P |
| Manganese | 500.0 | 499.10 | 99.8 | 200.0 | 200.10 | 100.0 | 200.60 | 100.3 | P |
| Nickel | 500.0 | 499.50 | 99.9 | 200.0 | 196.30 | 98.2 | 194.80 | 97.4 | P |
| Potassium | 25000.0 | 26470.00 | 105.9 | 30200.0 | 30830.00 | 102.1 | 30730.00 | 101.8 | P |
| Silver | 500.0 | 507.80 | 101.6 | 100.0 | 102.40 | 102.4 | 102.60 | 102.6 | P |
| Sodium | 25000.0 | 25110.00 | 100.4 | 30200.0 | 29040.00 | 96.2 | 29040.00 | 96.2 | P |
| Thallium | 250.0 | 238.90 | 95.6 | 100.0 | 101.50 | 101.5 | 97.02 | 97.0 | P |
| Vanadium | 500.0 | 501.90 | 100.4 | 200.0 | 200.20 | 100.1 | 200.30 | 100.2 | P |
| Zinc | 500.0 | 506.50 | 101.3 | 200.0 | 203.40 | 101.7 | 203.70 | 101.8 | 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 BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCD004-SPLPInitial Calibration Source: Inorganic Ventures/FisherContinuing 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 | 30130.00 | 99.8 | 30330.00 | 100.4 | P |
| Antimony | | | | 300.0 | 300.00 | 100.0 | 295.30 | 98.4 | P |
| Arsenic | | | | 100.0 | 96.71 | 96.7 | 95.33 | 95.3 | P |
| Barium | | | | 200.0 | 200.00 | 100.0 | 198.80 | 99.4 | P |
| Beryllium | | | | 100.0 | 100.10 | 100.1 | 99.37 | 99.4 | P |
| Cadmium | | | | 100.0 | 99.60 | 99.6 | 99.14 | 99.1 | P |
| Calcium | | | | 30200.0 | 29730.00 | 98.4 | 29700.00 | 98.3 | P |
| Chromium | | | | 200.0 | 196.60 | 98.3 | 195.20 | 97.6 | P |
| Cobalt | | | | 200.0 | 194.30 | 97.2 | 191.30 | 95.6 | P |
| Copper | | | | 200.0 | 205.00 | 102.5 | 204.80 | 102.4 | P |
| Iron | | | | 30200.0 | 29420.00 | 97.4 | 29140.00 | 96.5 | P |
| Lead | | | | 400.0 | 387.50 | 96.9 | 378.00 | 94.5 | P |
| Magnesium | | | | 30200.0 | 29510.00 | 97.7 | 29240.00 | 96.8 | P |
| Manganese | | | | 200.0 | 201.50 | 100.8 | 201.20 | 100.6 | P |
| Nickel | | | | 200.0 | 193.50 | 96.8 | 189.60 | 94.8 | P |
| Potassium | | | | 30200.0 | 30610.00 | 101.4 | 30550.00 | 101.2 | P |
| Silver | | | | 100.0 | 103.40 | 103.4 | 104.10 | 104.1 | P |
| Sodium | | | | 30200.0 | 29100.00 | 96.4 | 28980.00 | 96.0 | P |
| Thallium | | | | 100.0 | 99.04 | 99.0 | 97.75 | 97.8 | P |
| Vanadium | | | | 200.0 | 200.30 | 100.2 | 199.20 | 99.6 | P |
| Zinc | | | | 200.0 | 202.50 | 101.2 | 201.20 | 100.6 | 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.: GCD004-SPLP

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 | | Final | | |
| | | | | True | Found | %R | Found | %R |
| Arsenic | | | | 20.0 | 20.75 | 103.8 | 17.41 | 87.0 |
| Mercury | 0.2 | 0.13 | 65.0 | | | | | |
| Selenium | | | | 10.0 | 8.52 | 85.2 | 7.36 | 73.6 |

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.: GCD004-SPLP

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 | | Final | | |
| | | | | True | Found | %R | Found | %R |
| Aluminum | | | | 400.0 | 501.80 | 125.4 | 449.80 | 112.4 |
| Antimony | | | | 120.0 | 124.60 | 103.8 | 121.10 | 100.9 |
| Arsenic | | | | 20.0 | 20.21 | 101.0 | 18.31 | 91.6 |
| Barium | | | | 400.0 | 402.50 | 100.6 | 394.90 | 98.7 |
| Beryllium | | | | 10.0 | 10.40 | 104.0 | 10.50 | 105.0 |
| Cadmium | | | | 10.0 | 10.30 | 103.0 | 10.23 | 102.3 |
| Calcium | | | | 10000.0 | 10530.00 | 105.3 | 10320.00 | 103.2 |
| Chromium | | | | 20.0 | 23.92 | 119.6 | 25.72 | 128.6 |
| Cobalt | | | | 100.0 | 98.70 | 98.7 | 94.18 | 94.2 |
| Copper | | | | 50.0 | 51.87 | 103.7 | 52.55 | 105.1 |
| Iron | | | | 200.0 | 269.60 | 134.8 | 295.90 | 148.0 |
| Lead | | | | 6.0 | 6.65 | 110.8 | 5.96 | 99.3 |
| Magnesium | | | | 10000.0 | 10300.00 | 103.0 | 10040.00 | 100.4 |
| Manganese | | | | 30.0 | 30.27 | 100.9 | 30.58 | 101.9 |
| Nickel | | | | 80.0 | 80.71 | 100.9 | 76.58 | 95.7 |
| Potassium | | | | 10000.0 | 11030.00 | 110.3 | 10740.00 | 107.4 |
| Silver | | | | 20.0 | 20.88 | 104.4 | 21.41 | 107.0 |
| Sodium | | | | 10000.0 | 9944.00 | 99.4 | 9813.00 | 98.1 |
| Thallium | | | | 20.0 | 22.30 | 111.5 | 21.61 | 108.0 |
| Vanadium | | | | 100.0 | 101.00 | 101.0 | 100.00 | 100.0 |
| Zinc | | | | 40.0 | 41.69 | 104.2 | 40.44 | 101.1 |

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

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004-SPLPPreparation Blank Matrix (soil/water): SPLP EXTPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M | |
|-----------|-----------------------------|---|-------------------------------------|---|-----|---|------|---|-------------------|----------|---|----|
| | C | | 1 | C | 2 | C | 3 | C | | C | | |
| Aluminum | | | | | | | | | | 23.600 | U | P |
| Antimony | | | | | | | | | | 4.700 | U | P |
| Arsenic | 2.4 | U | 2.4 | U | 2.4 | U | -2.5 | B | | 4.800 | U | P |
| Barium | | | | | | | | | | 5.900 | U | P |
| Beryllium | | | | | | | | | | 0.200 | U | P |
| Cadmium | | | | | | | | | | 0.600 | U | P |
| Calcium | | | | | | | | | | 302.000 | B | P |
| Chromium | | | | | | | | | | 1.400 | U | P |
| Cobalt | | | | | | | | | | 2.000 | U | P |
| Copper | | | | | | | | | | 4.820 | B | P |
| Iron | | | | | | | | | | 33.300 | U | P |
| Lead | | | | | | | | | | 1.300 | U | P |
| Magnesium | | | | | | | | | | 178.000 | U | P |
| Manganese | | | | | | | | | | 0.731 | B | P |
| Mercury | 0.1 | U | 0.1 | U | 0.1 | U | -0.1 | B | | 10.000 | U | CV |
| Nickel | | | | | | | | | | 2.100 | U | P |
| Potassium | | | | | | | | | | 393.000 | U | P |
| Selenium | 1.7 | U | -1.7 | B | 1.7 | U | 1.7 | U | | 1.700 | U | P |
| Silver | | | | | | | | | | 2.200 | U | P |
| Sodium | | | | | | | | | | 9510.000 | | P |
| Thallium | | | | | | | | | | 5.700 | U | P |
| Vanadium | | | | | | | | | | 2.000 | U | P |
| Zinc | | | | | | | | | | 9.490 | B | P |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004-SPLP

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) | | | | | | Preparation Blank | C | M |
|----------|--------------------------------------|---|--|---|------|---|---|---|----------------------|---|---|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Arsenic | | | -3.0 | B | 2.4 | U | | | | | P |
| Selenium | | | 1.7 | U | -1.8 | B | | | | | P |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004-SPLPPreparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | C | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|-----------|--------------------------------------|---|--|---|-------|---|-------|---|----------------------|--|---|
| | | | 1 | C | 2 | C | 3 | C | C | | |
| Aluminum | 23.6 | U | 23.6 | U | -32.7 | B | -45.2 | B | | | 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 | U | 0.2 | U | 0.3 | B | 0.3 | B | | | P |
| Cadmium | 0.6 | U | 0.6 | U | 0.6 | U | 0.6 | U | | | P |
| Calcium | 182.1 | U | 182.1 | U | 182.1 | U | 182.1 | 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 |
| Magnesium | 178.3 | U | 178.3 | U | 178.3 | U | 178.3 | 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 |
| Potassium | 393.0 | U | 393.0 | U | 393.0 | U | 393.0 | U | | | P |
| Silver | 2.2 | U | 2.2 | U | 2.2 | U | 2.2 | U | | | P |
| Sodium | 472.7 | U | 472.7 | U | 472.7 | U | 472.7 | U | | | P |
| Thallium | 5.7 | U | 5.7 | U | 5.8 | B | 5.7 | U | | | P |
| Vanadium | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | 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: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004-SPLPPreparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | C | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|-----------|--------------------------------------|---|--|---|---|---|---|---|----------------------|---|---|
| | | | 1 | C | 2 | C | 3 | C | C | C | |
| Aluminum | | | -53.5 | B | | | | | | | 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 |
| Calcium | | | 182.1 | 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 |
| Magnesium | | | 178.3 | U | | | | | | | P |
| Manganese | | | 0.7 | U | | | | | | | P |
| Nickel | | | 2.1 | U | | | | | | | 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

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004-SPLP

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 |
| Arsenic | 0 | 94 | -2 | 96.8 | 103.0 | 0 | 96.8 | 103.0 |
| Selenium | 0 | 48 | -1 | 46.5 | 96.9 | -3 | 42.9 | 89.4 |

USEPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCD004-SPLPICP ID Number: TJA ICAP 4ICS Source: Inorganic VenturesConcentration 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 | 505500 | 497600.0 | 104.2 | 506500 | 502800.0 | 105.3 |
| Antimony | 0 | 575 | 0 | 592.3 | 103.0 | 0 | 577.8 | 100.5 |
| Arsenic | 0 | 97 | 5 | 100.1 | 103.2 | 5 | 95.6 | 98.6 |
| Barium | 0 | 464 | 2 | 491.6 | 105.9 | 2 | 486.2 | 104.8 |
| Beryllium | 0 | 444 | 0 | 468.3 | 105.5 | 0 | 464.4 | 104.6 |
| Cadmium | 0 | 874 | -2 | 924.6 | 105.8 | -1 | 924.5 | 105.8 |
| Calcium | 500000 | 476380 | 492200 | 490200.0 | 102.9 | 486400 | 485100.0 | 101.8 |
| Chromium | 0 | 451 | 7 | 471.9 | 104.6 | 7 | 465.4 | 103.2 |
| Cobalt | 0 | 434 | -1 | 451.2 | 104.0 | -1 | 436.2 | 100.5 |
| Copper | 0 | 482 | 4 | 509.1 | 105.6 | 5 | 507.8 | 105.4 |
| Iron | 200000 | 192500 | 199700 | 196500.0 | 102.1 | 194500 | 191800.0 | 99.6 |
| Lead | 0 | 41 | 1 | 43.6 | 106.3 | 1 | 40.2 | 98.0 |
| Magnesium | 500000 | 524140 | 536700 | 534300.0 | 101.9 | 527300 | 525800.0 | 100.3 |
| Manganese | 0 | 451 | 2 | 477.6 | 105.9 | 3 | 477.4 | 105.9 |
| Nickel | 0 | 876 | 2 | 917.1 | 104.7 | 3 | 885.6 | 101.1 |
| Potassium | 0 | 0 | -133 | -134.4 | | -209 | -227.6 | |
| Silver | 0 | 198 | 0 | 210.2 | 106.2 | 0 | 215.7 | 108.9 |
| Sodium | 0 | 0 | -448 | -293.1 | | -108 | -129.5 | |
| Thallium | 0 | 83 | 2 | 90.2 | 108.7 | 3 | 80.8 | 97.3 |
| Vanadium | 0 | 464 | 5 | 494.6 | 106.6 | 4 | 489.4 | 105.5 |
| Zinc | 0 | 951 | 2 | 986.9 | 103.8 | 3 | 967.7 | 101.8 |

USEPA - CLP

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

BLACSTPSD2ASPLPS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004-SPLP

Matrix (soil/water): SPLP EXT Level (low/med): LOW

% Solids for Sample: 0.0

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

| Analyte | Control Limit %R | Spiked Sample Result (SSR) C | Sample Result (SR) C | Spike Added (SA) | %R | Q | M |
|----------|------------------|------------------------------|----------------------|------------------|-------|---|----|
| Arsenic | 75 - 125 | 1042.0000 | 9.4900 B | 1000.00 | 103.3 | | P |
| Barium | 75 - 125 | 2277.0000 | 167.6000 B | 2000.00 | 105.5 | | P |
| Cadmium | 75 - 125 | 53.4300 | 0.6000 U | 50.00 | 106.9 | | P |
| Chromium | 75 - 125 | 237.6000 | 24.8900 | 200.00 | 106.4 | | P |
| Copper | 75 - 125 | 279.3000 | 8.2800 B | 250.00 | 108.4 | | P |
| Lead | 75 - 125 | 523.8000 | 3.5540 | 500.00 | 104.0 | | P |
| Mercury | 75 - 125 | 73.3000 | 10.0000 U | 100.00 | 73.3 | N | CV |
| Nickel | 75 - 125 | 561.1000 | 36.1000 B | 500.00 | 105.0 | | P |
| Selenium | 75 - 125 | 2077.0000 | 1.7000 U | 2000.00 | 103.8 | | P |
| Silver | 75 - 125 | 1054.0000 | 2.2000 U | 500.00 | 210.8 | N | P |
| Zinc | 75 - 125 | 631.5000 | 86.2500 | 500.00 | 109.0 | | P |

Comments:

USEPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

BLACSTPSD2ASPLPA

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS _____ SDG No.: GCD004-SPLP

Matrix (soil/water): SPLP EXT 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 | | 5746.00 | 3015.00 | 2000.0 | 136.6 | | P |
| Antimony | | 541.60 | 4.70 | 500.0 | 108.3 | | P |
| Arsenic | | 47.41 | 9.49 | 40.0 | 94.8 | | P |
| Barium | | 2263.00 | 167.60 | 2000.0 | 104.8 | | P |
| Beryllium | | 54.20 | 0.23 | 50.0 | 107.9 | | P |
| Cadmium | | 54.38 | 0.60 | 50.0 | 108.8 | | P |
| Chromium | | 245.10 | 24.89 | 200.0 | 110.1 | | P |
| Cobalt | | 532.70 | 3.72 | 500.0 | 105.8 | | P |
| Copper | | 284.90 | 8.28 | 250.0 | 110.6 | | P |
| Iron | | 6015.00 | 4913.00 | 1000.0 | 110.2 | | P |
| Lead | | 21.40 | 3.55 | 20.0 | 89.2 | | P |
| Manganese | | 694.70 | 148.60 | 500.0 | 109.2 | | P |
| Nickel | | 568.70 | 36.10 | 500.0 | 106.5 | | P |
| Selenium | | 6.76 | 1.70 | 10.0 | 67.6 | | P |
| Silver | | 53.81 | 2.20 | 50.0 | 107.6 | | P |
| Thallium | | 55.10 | 6.03 | 50.0 | 98.1 | | P |
| Vanadium | | 553.80 | 9.74 | 500.0 | 108.8 | | P |
| Zinc | | 635.10 | 86.25 | 500.0 | 109.8 | | P |

Comments: _____

USEPA - CLP

6

DUPLICATES

SAMPLE NO.

BLACSTPSD2ASPLPD

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004-SPLPMatrix (soil/water): SPLP EXT Level (low/med): LOW% Solids for Sample: 0.0 % Solids for Duplicate: 0.0Concentration Units (ug/L or mg/kg dry weight): UG/L

| Analyte | Control Limit | Sample (S) | C | Duplicate (D) | C | RPD | Q | M |
|-----------|---------------|------------|---|---------------|---|-------|---|----|
| Aluminum | | 3015.0000 | | 2911.0000 | | 3.5 | | P |
| Antimony | | 4.7000 | U | 4.7000 | U | | | P |
| Arsenic | | 9.4900 | B | 8.0790 | B | 16.1 | | P |
| Barium | | 167.6000 | B | 167.1000 | B | 0.3 | | P |
| Beryllium | | 0.2326 | B | 0.2462 | B | 5.7 | | P |
| Cadmium | | 0.6000 | U | 0.6000 | U | | | P |
| Calcium | | 2072.0000 | B | 2031.0000 | B | 2.0 | | P |
| Chromium | 10.0 | 24.8900 | | 24.0300 | | 3.5 | | P |
| Cobalt | | 3.7250 | B | 4.0650 | B | 8.7 | | P |
| Copper | | 8.2800 | B | 10.9200 | B | 27.5 | | P |
| Iron | | 4913.0000 | | 4875.0000 | | 0.8 | | P |
| Lead | 3.0 | 3.5540 | | 3.0420 | | 15.5 | | P |
| Magnesium | | 3309.0000 | B | 3276.0000 | B | 1.0 | | P |
| Manganese | | 148.6000 | | 148.3000 | | 0.2 | | P |
| Mercury | | 10.0000 | U | 10.0000 | U | | | CV |
| Nickel | | 36.1000 | B | 36.0400 | B | 0.2 | | P |
| Potassium | | 393.0000 | U | 393.0000 | U | | | P |
| Selenium | | 1.7000 | U | 1.7000 | U | | | P |
| Silver | | 2.2000 | U | 2.2000 | U | | | P |
| Sodium | 5000.0 | 12150.0000 | | 12170.0000 | | 0.2 | | P |
| Thallium | | 6.0310 | B | 5.7000 | U | 200.0 | | P |
| Vanadium | | 9.7370 | B | 9.6920 | B | 0.5 | | P |
| Zinc | 20.0 | 86.2500 | | 83.4200 | | 3.3 | | P |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004-SPLP

Solid LCS Source: _____

Aqueous LCS Source: Inorganic Ventures

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|-----------|----------------|----------|-------|---------------|-------|---|--------|----|
| | True | Found | %R | True | Found | C | Limits | %R |
| Aluminum | 51000.0 | 51150.00 | 100.3 | | | | | |
| Antimony | 2000.0 | 1999.00 | 100.0 | | | | | |
| Arsenic | 1050.0 | 1028.00 | 97.9 | | | | | |
| Barium | 500.0 | 498.60 | 99.7 | | | | | |
| Beryllium | 500.0 | 496.20 | 99.2 | | | | | |
| Cadmium | 525.0 | 510.00 | 97.1 | | | | | |
| Calcium | 50000.0 | 49850.00 | 99.7 | | | | | |
| Chromium | 500.0 | 493.10 | 98.6 | | | | | |
| Cobalt | 500.0 | 482.30 | 96.5 | | | | | |
| Copper | 500.0 | 509.50 | 101.9 | | | | | |
| Iron | 50500.0 | 50760.00 | 100.5 | | | | | |
| Lead | 1015.0 | 974.00 | 96.0 | | | | | |
| Magnesium | 50000.0 | 49930.00 | 99.9 | | | | | |
| Manganese | 500.0 | 492.60 | 98.5 | | | | | |
| Mercury | 1.0 | 1.00 | 100.0 | | | | | |
| Nickel | 500.0 | 484.20 | 96.8 | | | | | |
| Potassium | 50000.0 | 48970.00 | 97.9 | | | | | |
| Selenium | 525.0 | 489.40 | 93.2 | | | | | |
| Silver | 500.0 | 413.00 | 82.6 | | | | | |
| Sodium | 50000.0 | 51000.00 | 102.0 | | | | | |
| Thallium | 550.0 | 513.70 | 93.4 | | | | | |
| Vanadium | 500.0 | 502.80 | 100.6 | | | | | |
| Zinc | 500.0 | 496.20 | 99.2 | | | | | |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004-SPLP

Solid LCS Source: _____

Aqueous LCS Source: Inorganic Ventures

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|-----------|----------------|----------|-------|---------------|-------|---|--------|----|
| | True | Found | %R | True | Found | C | Limits | %R |
| Aluminum | 51000.0 | 51300.00 | 100.6 | | | | | |
| Antimony | 2000.0 | 2009.00 | 100.4 | | | | | |
| Arsenic | 1050.0 | 1028.00 | 97.9 | | | | | |
| Barium | 500.0 | 497.90 | 99.6 | | | | | |
| Beryllium | 500.0 | 495.50 | 99.1 | | | | | |
| Cadmium | 525.0 | 511.00 | 97.3 | | | | | |
| Calcium | 50000.0 | 49970.00 | 99.9 | | | | | |
| Chromium | 500.0 | 493.20 | 98.6 | | | | | |
| Cobalt | 500.0 | 483.10 | 96.6 | | | | | |
| Copper | 500.0 | 511.50 | 102.3 | | | | | |
| Iron | 50500.0 | 50840.00 | 100.7 | | | | | |
| Lead | 1015.0 | 976.00 | 96.2 | | | | | |
| Magnesium | 50000.0 | 50040.00 | 100.1 | | | | | |
| Manganese | 500.0 | 493.60 | 98.7 | | | | | |
| Nickel | 500.0 | 484.80 | 97.0 | | | | | |
| Potassium | 50000.0 | 49360.00 | 98.7 | | | | | |
| Selenium | 525.0 | 491.20 | 93.6 | | | | | |
| Silver | 500.0 | 414.20 | 82.8 | | | | | |
| Sodium | 50000.0 | 51100.00 | 102.2 | | | | | |
| Thallium | 550.0 | 516.90 | 94.0 | | | | | |
| Vanadium | 500.0 | 503.70 | 100.7 | | | | | |
| Zinc | 500.0 | 495.20 | 99.0 | | | | | |

USEPA - CLP

9
ICP SERIAL DILUTIONS

SAMPLE NO.

BLACSTPSD2ASPLPL

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVT Case No.: 23046SAS No.: _____ SDG No.: GCD004-SPLPMatrix (soil/water): SPLP EXTLevel (low/med): LOW

Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | | Serial Dilution Result (S) | | % Difference | Q | M |
|-----------|---------------------------|---|----------------------------|---|--------------|---|---|
| | | C | | C | | | |
| Aluminum | 3015.00 | | 2951.00 | | 2.1 | | P |
| Antimony | 4.70 | U | 23.50 | U | | | P |
| Arsenic | 9.49 | B | 24.00 | U | 100.0 | | P |
| Barium | 167.60 | B | 165.60 | B | 1.2 | | P |
| Beryllium | 0.23 | B | 1.00 | U | 100.0 | | P |
| Cadmium | 0.60 | U | 3.00 | U | | | P |
| Calcium | 2072.00 | B | 2077.00 | B | 0.2 | | P |
| Chromium | 24.89 | | 22.33 | B | 10.3 | | P |
| Cobalt | 3.72 | B | 10.00 | U | 100.0 | | P |
| Copper | 8.28 | B | 12.00 | U | 100.0 | | P |
| Iron | 4913.00 | | 4819.00 | | 1.9 | | P |
| Lead | 3.55 | | 6.50 | U | 100.0 | | P |
| Magnesium | 3309.00 | B | 3308.00 | B | 0.0 | | P |
| Manganese | 148.60 | | 147.00 | | 1.1 | | P |
| Nickel | 36.10 | B | 37.64 | B | 4.3 | | P |
| Potassium | 393.00 | U | 1965.00 | U | | | P |
| Selenium | 1.70 | U | 8.50 | U | | | P |
| Silver | 2.20 | U | 11.00 | U | | | P |
| Sodium | 12150.00 | | 12350.00 | B | 1.6 | | P |
| Thallium | 6.03 | B | 28.50 | U | 100.0 | | P |
| Vanadium | 9.74 | B | 14.08 | B | 44.6 | | P |
| Zinc | 86.25 | | 90.40 | B | 4.8 | | P |

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVT Case No.: 23046

SAS No.: _____

SDG No.: GCD004-SPLP

ICP ID Number: _____

Date: 7/1/2003Flame 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:

USEPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVT Case No.: 23046

SAS No.: _____

SDG No.: GCD004-SPLPICP ID Number: TJA ICAP 4Date: 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:

USEPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVT Case No.: 23046

SAS No.: _____

SDG No.: GCD004-SPLPICP ID Number: TJA ICAP 6Date: 7/1/2003

Flame AA ID Number: _____

Furnace AA ID Number: _____

| Analyte | Wave-length (nm) | Back-ground | CRDL (ug/L) | IDL (ug/L) | M |
|----------|------------------|-------------|-------------|------------|---|
| Arsenic | 189.042 | | 10 | 2.4 | P |
| Selenium | 196.026 | | 5 | 1.7 | P |

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004-SPLP
 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 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Antimony | 206.84 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Arsenic | 189.04 | 0.000000 | 0.000000 | -0.000060 | 0.000000 | 0.000000 |
| Barium | 493.41 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Beryllium | 313.04 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Boron | 249.68 | 0.000000 | 0.000000 | 0.000895 | 0.000000 | 0.000000 |
| Cadmium | 226.50 | 0.000000 | 0.000000 | 0.000033 | 0.000000 | 0.000000 |
| Calcium | 317.93 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Chromium | 267.72 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Cobalt | 228.62 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000432 |
| Copper | 324.75 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Iron | 271.44 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Lead | 220.35 | 0.000630 | 0.000000 | 0.000090 | 0.000000 | 0.000000 |
| Magnesium | 279.08 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Manganese | 257.61 | 0.000000 | 0.000000 | 0.000000 | 0.000020 | 0.000000 |
| Molybdenum | 202.03 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Nickel | 231.60 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Potassium | 766.49 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Selenium | 196.03 | 0.000000 | 0.000000 | -0.000022 | 0.000000 | 0.000000 |
| Silicon | 288.16 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Silver | 328.07 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Sodium | 330.23 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Thallium | 190.86 | 0.000020 | 0.000000 | -0.000090 | 0.000000 | 0.000000 |
| Tin | 189.99 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Vanadium | 292.40 | 0.000000 | 0.000000 | 0.000049 | 0.000000 | 0.000000 |
| Zinc | 213.86 | 0.000025 | 0.000000 | 0.000063 | 0.000000 | 0.000000 |

Comments: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004-SPLP

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: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004-SPLP

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: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004-SPLP
 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: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004-SPLP
 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: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004-SPLP

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 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Antimony | 206.838 | 0.0078510 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Arsenic | 189.042 | -0.0002840 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Barium | 493.409 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Beryllium | 313.042 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Boron | 249.678 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Cadmium | 226.502 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | -0.0001750 |
| Calcium | 317.933 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Chromium | 267.716 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Cobalt | 228.616 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Copper | 324.754 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Iron | 271.441 | 0.0008900 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Lead | 220.353 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000800 |
| Magnesium | 279.079 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Manganese | 257.610 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Molybdenum | 202.030 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Nickel | 231.604 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Phosphorus | 178.287 | -0.0007400 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Potassium | 766.491 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Selenium | 196.026 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Silver | 328.068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Sodium | 330.232 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Strontium | 421.552 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Thallium | 190.864 | 0.000000 | 0.000000 | -0.0004500 | 0.000000 | 0.000000 |
| Tin | 189.989 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Titanium | 334.941 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Vanadium | 292.402 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Zinc | 206.200 | 0.0044570 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

Comments: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004-SPLP
 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: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004-SPLP

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 BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCD004-SPLPICP ID Number: TJA ICAP 4Date: 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: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004-SPLPICP ID Number: TJA ICAP 6 Date: 7/1/2003

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

Comments: _____

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004-SPLPMethod: CV

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|------------------------|---------------------|----------------------|----------------|
| BLACSTPSD1ASPLP | 9/3/2003 | 1.00 | 100.0 |
| BLACSTPSD2A (100) SPLP | 9/3/2003 | 1.00 | 100.0 |
| BLACSTPSD2ASPLP | 9/3/2003 | 1.00 | 100.0 |
| BLACSTPSD2ASPLPD | 9/3/2003 | 1.00 | 100.0 |
| BLACSTPSD2ASPLPS | 9/3/2003 | 1.00 | 100.0 |
| BLACSTPSD3ASPLP | 9/3/2003 | 1.00 | 100.0 |
| BLUESTPSD5ASPLP | 9/3/2003 | 1.00 | 100.0 |
| EBLKV6 | 9/3/2003 | 1.0 | 100.0 |
| LCSW0903B | 9/3/2003 | 100.0 | 100.0 |

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004-SPLPMethod: P

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|-----------------------|---------------------|----------------------|----------------|
| BLACSTPSD1ASPLP | 8/21/2003 | 100.00 | 100.0 |
| BLACSTPSD2A(100) SPLP | 8/21/2003 | 100.00 | 100.0 |
| BLACSTPSD2ASPLP | 8/21/2003 | 100.00 | 100.0 |
| BLACSTPSD2ASPLPD | 8/21/2003 | 100.00 | 100.0 |
| BLACSTPSD2ASPLPS | 8/21/2003 | 100.00 | 100.0 |
| BLACSTPSD3ASPLP | 8/21/2003 | 100.00 | 100.0 |
| BLUESTPSD5ASPLP | 8/21/2003 | 100.00 | 100.0 |
| EBLKV6 | 8/21/2003 | 100.0 | 100.0 |
| LCSDW0821B | 8/21/2003 | 100.0 | 100.0 |
| LCSW0821B | 8/21/2003 | 100.0 | 100.0 |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCD004-SPLPInstrument ID Number: TJA ICAP 6Method: PStart Date: 9/8/2003End Date: 9/9/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|--------|--------|---|--------|--------|--|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C F | P B | M G | M N | H G | N I | K | S E | A G | N A | T L | V | Z N | C N | | | |
| S0 | 1.00 | 2307 | | | | X | | | | | | | | | | | | | X | | | | | | | | | | |
| S | 1.00 | 2311 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S | 1.00 | 2315 | | | X | | | | | | | | | | | | | | X | | | | | | | | | | |
| S | 1.00 | 2319 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LRS | 1.00 | 2323 | | | X | | | | | | | | | | | | | | X | | | | | | | | | | |
| LRS | 1.00 | 2327 | | | X | | | | | | | | | | | | | | X | | | | | | | | | | |
| LRS | 1.00 | 2332 | | | X | | | | | | | | | | | | | | X | | | | | | | | | | |
| ICV | 1.00 | 2336 | | | X | | | | | | | | | | | | | | X | | | | | | | | | | |
| ICB | 1.00 | 2340 | | | X | | | | | | | | | | | | | | X | | | | | | | | | | |
| ICSA | 1.00 | 2344 | | | X | | | | | | | | | | | | | | X | | | | | | | | | | |
| ICSAB | 1.00 | 2348 | | | X | | | | | | | | | | | | | | X | | | | | | | | | | |
| CRI | 1.00 | 2352 | | | X | | | | | | | | | | | | | | X | | | | | | | | | | |
| CCV | 1.00 | 2356 | | | X | | | | | | | | | | | | | | X | | | | | | | | | | |
| CCB | 1.00 | 0001 | | | X | | | | | | | | | | | | | | X | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0005 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LCSW0821B | 1.00 | 0009 | | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| LCSDW0821B | 1.00 | 0013 | | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| BLUESTPSD5ASPLP | 1.00 | 0017 | | | X | | | | | | | | | | | | | | X | | | | | | | | | | |
| BLACSTPSD3ASPLP | 1.00 | 0021 | | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| BLACSTPSD2ASPLP | 1.00 | 0025 | | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| BLACSTPSD2ASPLPL | 5.00 | 0029 | | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| BLACSTPSD2ASPLPA | 1.00 | 0033 | | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| BLACSTPSD2ASPLPD | 1.00 | 0037 | | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| BLACSTPSD2ASPLPS | 1.00 | 0041 | | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| CCV | 1.00 | 0045 | | | X | | | | | | | | | | | | | | X | | | | | | | | | | |
| CCB | 1.00 | 0049 | | | X | | | | | | | | | | | | | | X | | | | | | | | | | |
| BLACSTPSD2A (100) SPLP | 1.00 | 0054 | | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| BLACSTPSD1ASPLP | 1.00 | 0058 | | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| EBLKV6 | 1.00 | 0102 | | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0106 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0110 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0114 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0118 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0122 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0126 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0130 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 0134 | | | X | | | | | | | | | | | | | | X | | | | | | | | | | |
| CCB | 1.00 | 0138 | | | X | | | | | | | | | | | | | | X | | | | | | | | | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004-SPLP
 Instrument ID Number: TJA ICAP 6 Method: P
 Start Date: 9/8/2003 End Date: 9/9/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V L | Z N | C N | | | | |
| ZZZZZZ | 1.00 | 0142 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0147 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 5.00 | 0151 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0155 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0159 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0203 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0207 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0211 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0215 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0219 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 0223 | | | X | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| CCB | 1.00 | 0227 | | | X | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0231 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 5.00 | 0235 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0239 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0243 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ICSA | 1.00 | 0248 | | | X | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| ICSAB | 1.00 | 0252 | | | X | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| CRI | 1.00 | 0256 | | | X | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| CCV | 1.00 | 0300 | | | X | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| CCB | 1.00 | 0304 | | | X | | | | | | | | | | | | | | | X | | | | | | | | | | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON

Contract: 23046

Lab Code: STLVT

Case No.: 23046

SAS No.: _____

SDG No.: GCD004-SPLP

Instrument ID Number: TJA ICAP 4

Method: P

Start Date: 9/15/2003

End Date: 9/15/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | A L | N T | V L | Z N | C N | | | | |
| S0 | 1.00 | 1240 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| S | 1.00 | 1245 | | X | | | | | X | | | | X | X | | | | X | | | X | | | | | | | | | | |
| S | 1.00 | 1249 | | | X | X | | | | | | | X | | | | | | | | | | X | | | | | | | | |
| S | 1.00 | 1252 | | | | | X | X | X | | X | X | X | | | X | X | | X | | X | | | X | X | | | | | | |
| LRS | 1.00 | 1257 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| LRS | 1.00 | 1302 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| LRS | 1.00 | 1307 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICV | 1.00 | 1312 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICB | 1.00 | 1316 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICSA | 1.00 | 1321 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICSAB | 1.00 | 1326 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CRI | 1.00 | 1331 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCV | 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 | X | X | X | | | |
| CCB | 1.00 | 1340 | | X | X | X | 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 | 1345 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LCSW0821B | 1.00 | 1350 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| LCSDW0821B | 1.00 | 1355 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLUESTPSD5ASPLP | 1.00 | 1359 | | X | X | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLACSTPSD3ASPLP | 1.00 | 1404 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLACSTPSD2ASPLP | 1.00 | 1409 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLACSTPSD2ASPLPL | 5.00 | 1413 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLACSTPSD2ASPLPA | 1.00 | 1418 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLACSTPSD2ASPLPD | 1.00 | 1423 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLACSTPSD2ASPLPS | 1.00 | 1427 | | | | X | X | | X | X | X | X | X | | | X | | | X | | X | | | | | | X | | | | |
| CCV | 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 | X | X | X | | | |
| CCB | 1.00 | 1437 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLACSTPSD2A (100) SPLP | 1.00 | 1441 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLACSTPSD1ASPLP | 1.00 | 1446 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| EBLKV6 | 1.00 | 1451 | | X | X | X | 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 | 1455 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1505 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1510 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1514 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1519 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 5.00 | 1524 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1528 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCB | 1.00 | 1533 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |

USEPA - CLP
14
ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004-SPLP
 Instrument ID Number: TJA ICAP 4 Method: P
 Start Date: 9/15/2003 End Date: 9/15/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V L | Z N | C N | | |
| ZZZZZZ | 1.00 | 1538 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1542 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1547 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1552 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1557 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1601 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1606 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ICSA | 1.00 | 1611 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| ICSA B | 1.00 | 1615 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CRI | 1.00 | 1620 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CCV | 1.00 | 1625 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CCB | 1.00 | 1630 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |

USEPA - CLP
14
ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCD004-SPLP
 Instrument ID Number: Leeman Hydra AA Method: CV
 Start Date: 9/4/2003 End Date: 9/4/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C F | P E | M B | M G | M N | H G | N I | K E | S E | A G | A L | T L | V L | Z N | C N | | |
| S0 | 1.00 | 1115 | .. | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| S0.2 | 1.00 | 1117 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| S0.5 | 1.00 | 1119 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| S1 | 1.00 | 1120 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| S5 | 1.00 | 1122 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| S10 | 1.00 | 1124 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| ICV | 1.00 | 1126 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| ICB | 1.00 | 1128 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| CRA | 1.00 | 1130 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| CCV | 1.00 | 1132 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| CCB | 1.00 | 1134 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| ZZZZZZ | 1.00 | 1135 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LCSW0903B | 1.00 | 1137 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| ZZZZZZ | 1.00 | 1139 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1141 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLUESTPSD5ASPLP | 1.00 | 1143 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| BLACSTPSD3ASPLP | 1.00 | 1145 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| BLACSTPSD2ASPLP | 1.00 | 1147 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| BLACSTPSD2ASPLPD | 1.00 | 1148 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| BLACSTPSD2ASPLPS | 1.00 | 1150 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| CCV | 1.00 | 1152 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| CCB | 1.00 | 1154 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| BLACSTPSD2A (100) SPLP | 1.00 | 1155 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| BLACSTPSD1ASPLP | 1.00 | 1157 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| EBLKV6 | 1.00 | 1159 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| ZZZZZZ | 1.00 | 1201 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1204 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1205 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1207 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1209 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1211 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| CCB | 1.00 | 1213 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |

SEVERN
TRENT

STL

**Geotechnical Analysis
Sample Data Summary Package**

EASEAT SDG # GCD004

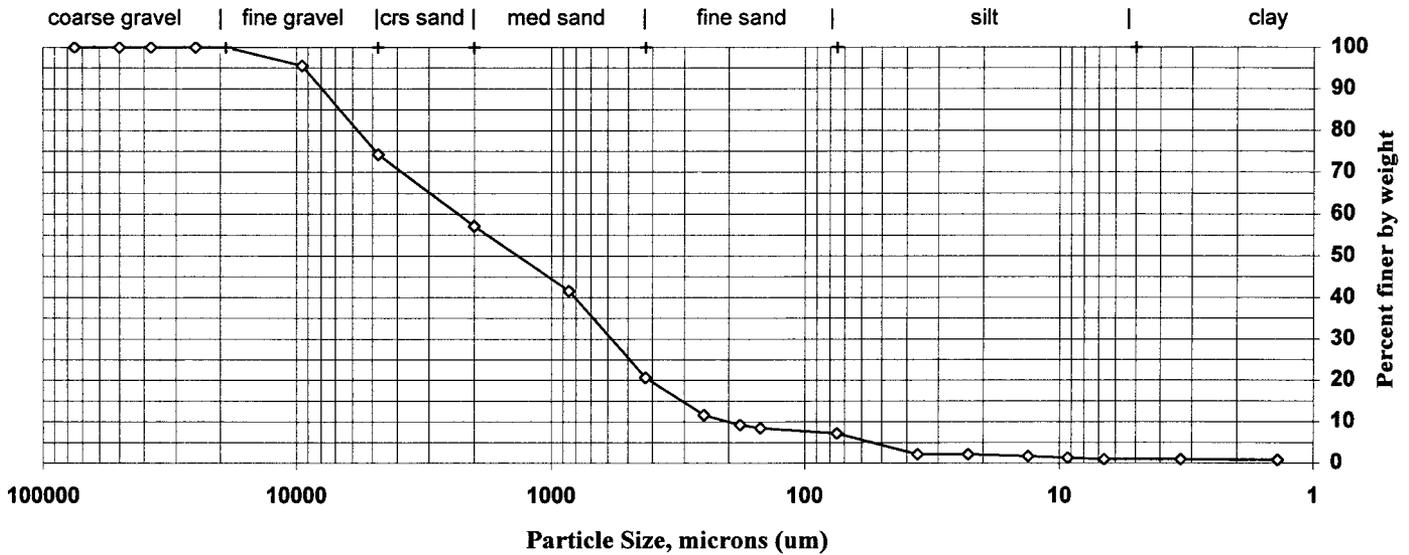
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|---------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>95327</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD004</u> |
| Date Received: <u>12-Aug-03</u> | Start Date: <u>30-Aug-03</u> | End Date: <u>5-Sep-03</u> |

| | |
|----------------|------------------|
| Lab ID: 537764 | Sample ID: PSD5A |
|----------------|------------------|

| | |
|---|-------------------------------------|
| Percent Solids: <u>82.7%</u> | Maximum Particle Size: <u>19 mm</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>subangular</u> |
| Non-soil mass: <u>0.0%</u> | Hardness (> #10): <u>hard</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 95.6 | 4.4 |
| #4 | 4750 | 74.2 | 21.4 |
| #10 | 2000 | 57.2 | 17.0 |
| #20 | 850 | 41.6 | 15.6 |
| #40 | 425 | 20.7 | 20.9 |
| #60 | 250 | 11.6 | 9.1 |
| #80 | 180 | 9.2 | 2.4 |
| #100 | 150 | 8.5 | 0.7 |
| #200 | 75 | 7.2 | 1.3 |
| Hydrometer | 36.1 | 2.1 | 5.1 |
| | 22.8 | 2.1 | 0.0 |
| | 13.2 | 1.7 | 0.4 |
| | 9.3 | 1.3 | 0.4 |
| | 6.6 | 0.9 | 0.4 |
| | 3.3 | 0.9 | 0.0 |
| V | 1.4 | 0.8 | 0.1 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 25.8 |
| Sand | 67.0 |
| Coarse Sand | 17.0 |
| Medium Sand | 36.5 |
| Fine Sand | 13.5 |
| Silt | 6.3 |
| Clay | 0.9 |

Dispersion Device: Mechanical mixer with a metal paddle.
 Dispersion Period: 1 minute

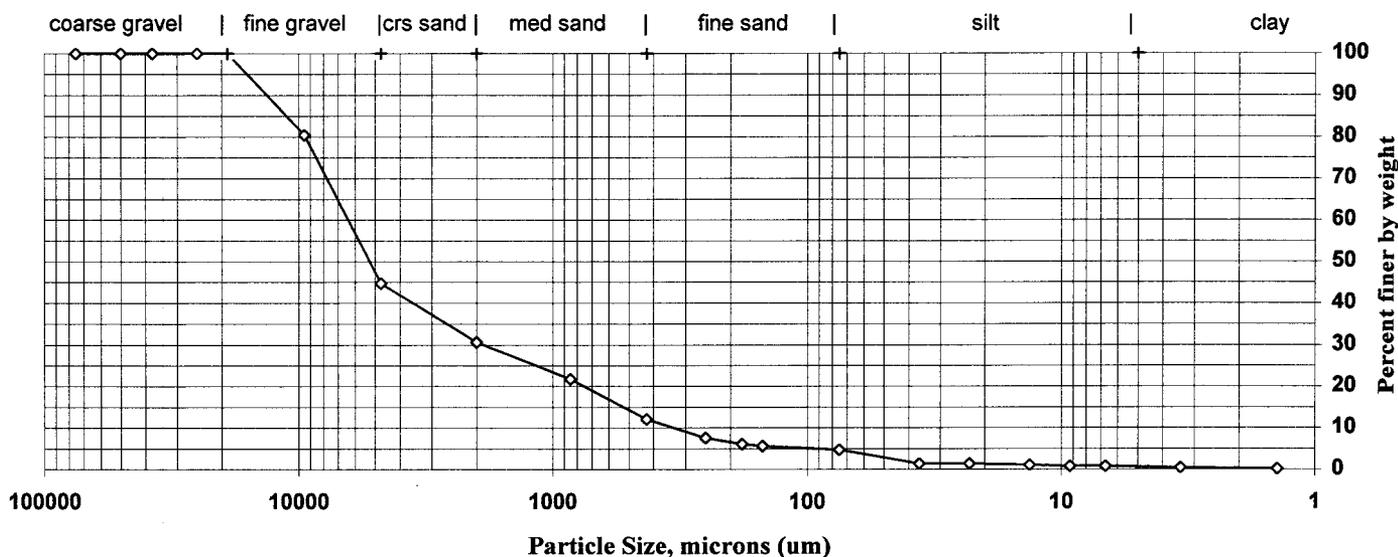
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|---------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>95327</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD004</u> |
| Date Received: <u>12-Aug-03</u> | Start Date: <u>30-Aug-03</u> | End Date: <u>5-Sep-03</u> |

| | |
|----------------|------------------|
| Lab ID: 537766 | Sample ID: PSD3A |
|----------------|------------------|

| | |
|---|-------------------------------------|
| Percent Solids: <u>86.3%</u> | Maximum Particle Size: <u>19 mm</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>subangular</u> |
| Non-soil mass: <u>0.1%</u> | Hardness (> #10): <u>hard</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 80.4 | 19.6 |
| #4 | 4750 | 44.8 | 35.6 |
| #10 | 2000 | 30.6 | 14.1 |
| #20 | 850 | 21.8 | 8.9 |
| #40 | 425 | 12.1 | 9.7 |
| #60 | 250 | 7.6 | 4.5 |
| #80 | 180 | 6.1 | 1.4 |
| #100 | 150 | 5.7 | 0.5 |
| #200 | 75 | 4.7 | 0.9 |
| Hydrometer | 36.3 | 1.4 | 3.4 |
| | 22.9 | 1.4 | 0.0 |
| | 13.3 | 1.0 | 0.3 |
| | 9.2 | 0.7 | 0.3 |
| | 6.7 | 0.7 | 0.0 |
| | 3.4 | 0.3 | 0.4 |
| V | 1.4 | 0.2 | 0.2 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 55.2 |
| Sand | 40.0 |
| Coarse Sand | 14.1 |
| Medium Sand | 18.6 |
| Fine Sand | 7.3 |
| Silt | 4.0 |
| Clay | 0.7 |

Dispersion Device: Mechanical mixer with a metal paddle.

Dispersion Period: 1 minute

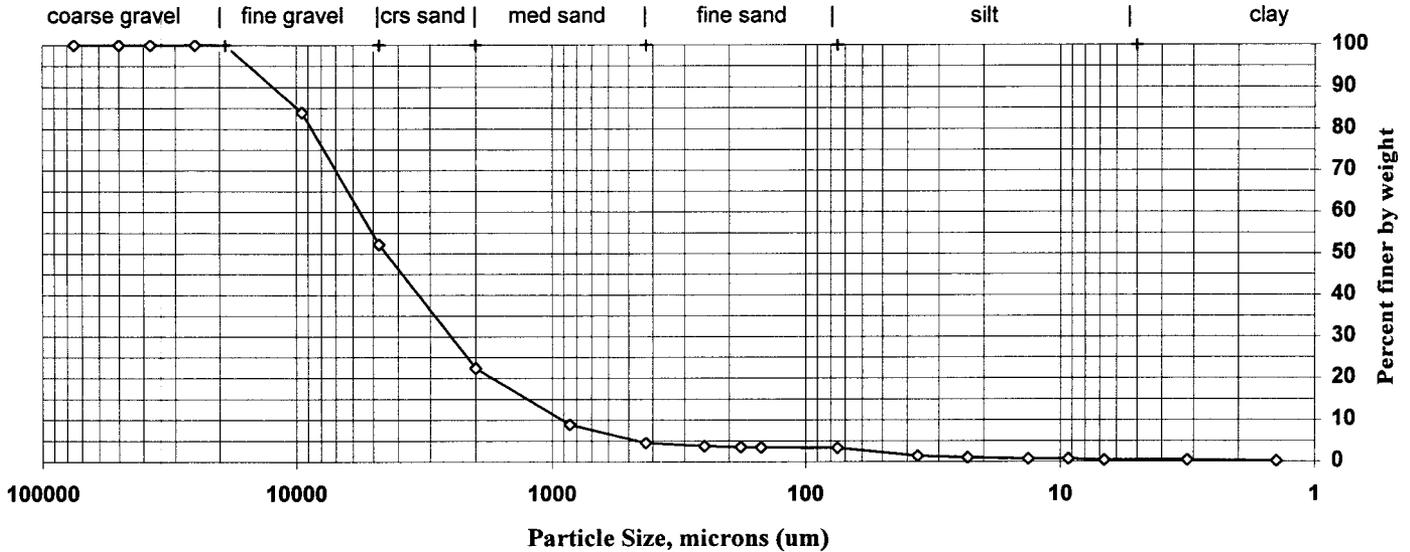
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|---------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>95327</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD004</u> |
| Date Received: <u>12-Aug-03</u> | Start Date: <u>30-Aug-03</u> | End Date: <u>5-Sep-03</u> |

| | |
|----------------|------------------|
| Lab ID: 537768 | Sample ID: RSD3A |
|----------------|------------------|

| | |
|---|-------------------------------------|
| Percent Solids: <u>85.4%</u> | Maximum Particle Size: <u>19 mm</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>subangular</u> |
| Non-soil mass: <u>NA</u> | Hardness (> #10): <u>hard</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 83.9 | 16.1 |
| #4 | 4750 | 52.2 | 31.7 |
| #10 | 2000 | 22.4 | 29.8 |
| #20 | 850 | 9.0 | 13.4 |
| #40 | 425 | 4.5 | 4.4 |
| #60 | 250 | 3.7 | 0.8 |
| #80 | 180 | 3.5 | 0.2 |
| #100 | 150 | 3.4 | 0.1 |
| #200 | 75 | 3.3 | 0.1 |
| Hydrometer | 36.3 | 1.4 | 1.9 |
| | 23.0 | 1.0 | 0.3 |
| | 13.4 | 0.7 | 0.3 |
| | 9.3 | 0.7 | 0.0 |
| | 6.7 | 0.4 | 0.3 |
| | 3.2 | 0.4 | 0.0 |
| V | 1.4 | 0.2 | 0.2 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 47.8 |
| Sand | 48.9 |
| Coarse Sand | 29.8 |
| Medium Sand | 17.9 |
| Fine Sand | 1.2 |
| Silt | 2.9 |
| Clay | 0.4 |

Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

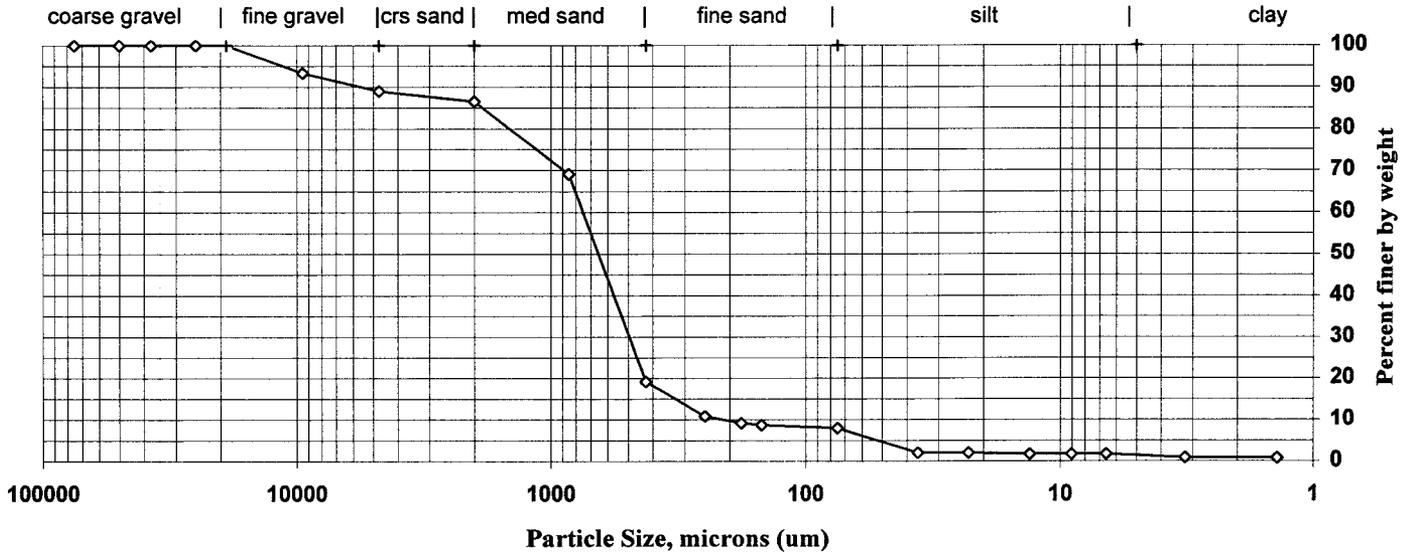
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|---------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>95327</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD004</u> |
| Date Received: <u>12-Aug-03</u> | Start Date: <u>30-Aug-03</u> | End Date: <u>5-Sep-03</u> |

| | |
|----------------|------------------|
| Lab ID: 537769 | Sample ID: PSD2A |
|----------------|------------------|

| | |
|---|-------------------------------------|
| Percent Solids: <u>82.8%</u> | Maximum Particle Size: <u>19 mm</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>subangular</u> |
| Non-soil mass: <u>0.2%</u> | Hardness (> #10): <u>hard</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 93.4 | 6.6 |
| #4 | 4750 | 89.0 | 4.4 |
| #10 | 2000 | 86.5 | 2.5 |
| #20 | 850 | 69.1 | 17.4 |
| #40 | 425 | 19.2 | 49.9 |
| #60 | 250 | 10.8 | 8.3 |
| #80 | 180 | 9.2 | 1.6 |
| #100 | 150 | 8.7 | 0.5 |
| #200 | 75 | 7.9 | 0.8 |
| Hydrometer | 36.1 | 2.0 | 5.9 |
| | 22.8 | 2.0 | 0.0 |
| | 13.2 | 1.7 | 0.3 |
| | 9.0 | 1.7 | 0.0 |
| | 6.6 | 1.7 | 0.0 |
| | 3.2 | 0.8 | 0.9 |
| V | 1.4 | 0.7 | 0.1 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 11.0 |
| Sand | 81.0 |
| Coarse Sand | 2.5 |
| Medium Sand | 67.3 |
| Fine Sand | 11.2 |
| Silt | 6.2 |
| Clay | 1.7 |

Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

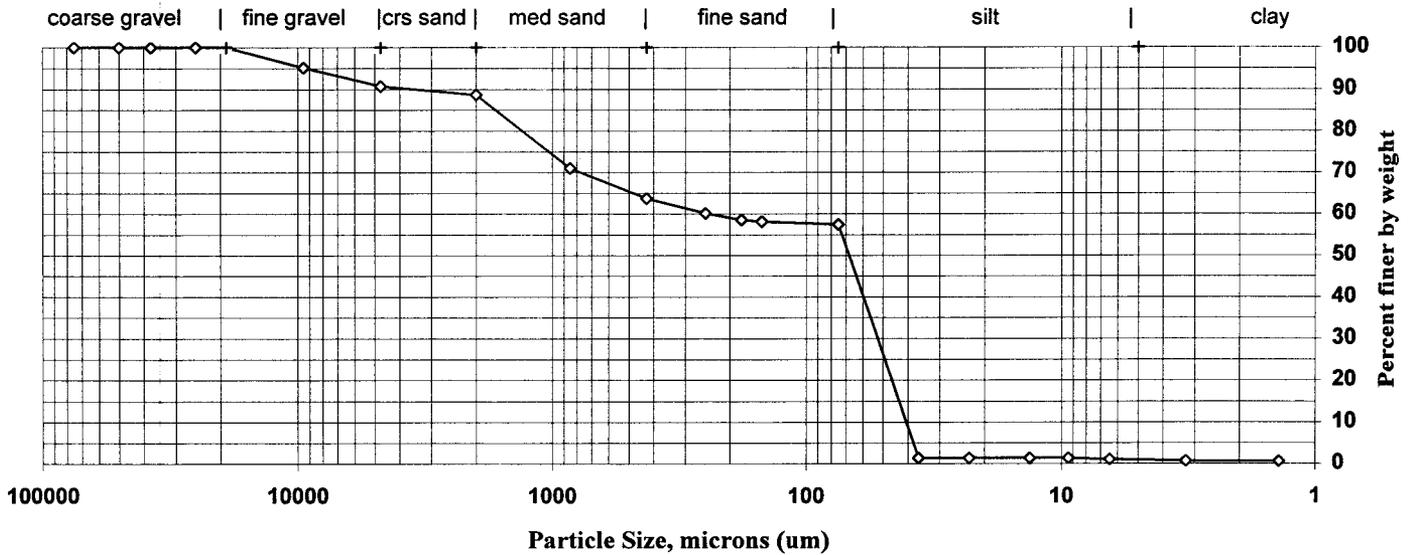
Particle Size of Soils by ASTM D422

Sample preparation method: **D2217**

| | | |
|---------------------------------|------------------------------|---------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>95327</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD004</u> |
| Date Received: <u>12-Aug-03</u> | Start Date: <u>30-Aug-03</u> | End Date: <u>5-Sep-03</u> |

| | |
|----------------|------------------|
| Lab ID: 537771 | Sample ID: RSD2A |
|----------------|------------------|

| | |
|---|-------------------------------------|
| Percent Solids: <u>86.2%</u> | Maximum Particle Size: <u>19 mm</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>subangular</u> |
| Non-soil mass: <u>0.0%</u> | Hardness (> #10): <u>hard</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 95.2 | 4.8 |
| #4 | 4750 | 90.8 | 4.4 |
| #10 | 2000 | 88.7 | 2.1 |
| #20 | 850 | 71.0 | 17.7 |
| #40 | 425 | 63.8 | 7.2 |
| #60 | 250 | 60.2 | 3.6 |
| #80 | 180 | 58.5 | 1.6 |
| #100 | 150 | 58.2 | 0.4 |
| #200 | 75 | 57.5 | 0.7 |
| Hydrometer | 36.3 | 1.3 | 56.2 |
| | 22.9 | 1.3 | 0.0 |
| | 13.2 | 1.3 | 0.0 |
| | 9.4 | 1.3 | 0.0 |
| | 6.4 | 1.1 | 0.3 |
| | 3.3 | 0.7 | 0.4 |
| V | 1.4 | 0.6 | 0.1 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 9.2 |
| Sand | 33.3 |
| Coarse Sand | 2.1 |
| Medium Sand | 24.9 |
| Fine Sand | 6.2 |
| Silt | 56.5 |
| Clay | 1.1 |

Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

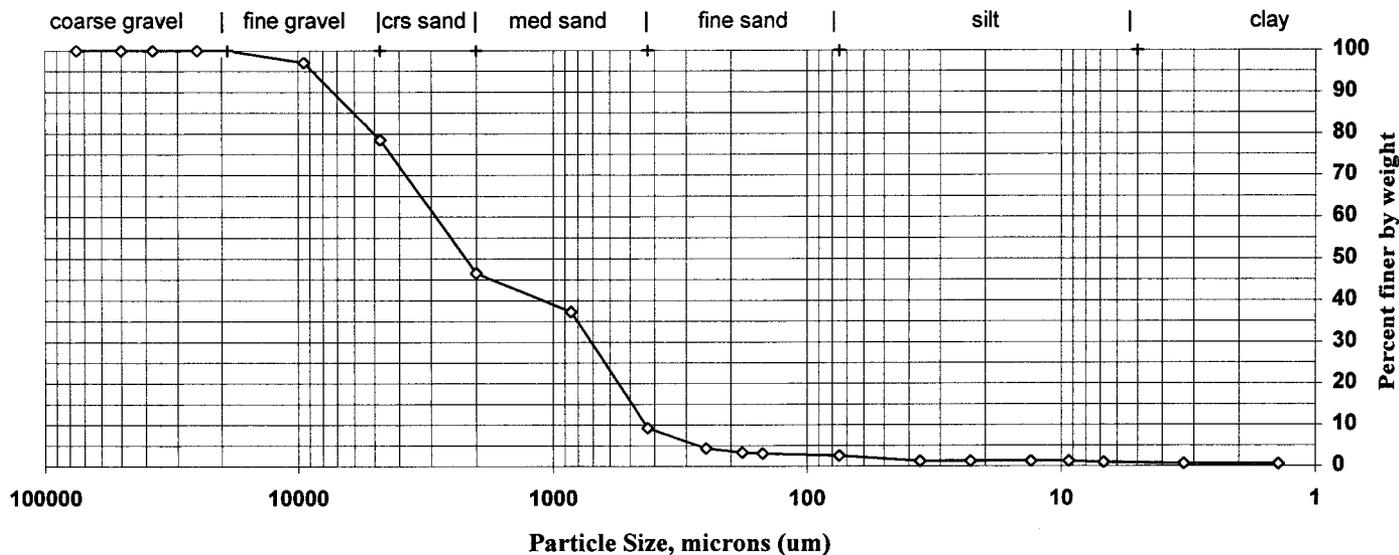
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|---------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>95327</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD004</u> |
| Date Received: <u>12-Aug-03</u> | Start Date: <u>30-Aug-03</u> | End Date: <u>5-Sep-03</u> |

| | |
|-----------------------|------------------------------|
| Lab ID: <u>537772</u> | Sample ID: <u>PSD2A(100)</u> |
|-----------------------|------------------------------|

| | |
|---|-------------------------------------|
| Percent Solids: <u>93.1%</u> | Maximum Particle Size: <u>19 mm</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>subangular</u> |
| Non-soil mass: <u>NA</u> | Hardness (> #10): <u>hard</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 97.1 | 2.9 |
| #4 | 4750 | 78.5 | 18.5 |
| #10 | 2000 | 46.6 | 31.9 |
| #20 | 850 | 37.3 | 9.3 |
| #40 | 425 | 9.3 | 28.1 |
| #60 | 250 | 4.3 | 4.9 |
| #80 | 180 | 3.3 | 1.0 |
| #100 | 150 | 3.0 | 0.3 |
| #200 | 75 | 2.5 | 0.5 |
| Hydrometer | 36.0 | 1.2 | 1.3 |
| | 22.8 | 1.2 | 0.0 |
| | 13.2 | 1.2 | 0.0 |
| | 9.3 | 1.2 | 0.0 |
| | 6.8 | 0.9 | 0.3 |
| | 3.3 | 0.6 | 0.3 |
| V | 1.4 | 0.5 | 0.0 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 21.5 |
| Sand | 76.0 |
| Coarse Sand | 31.9 |
| Medium Sand | 37.3 |
| Fine Sand | 6.7 |
| Silt | 1.6 |
| Clay | 0.9 |

Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

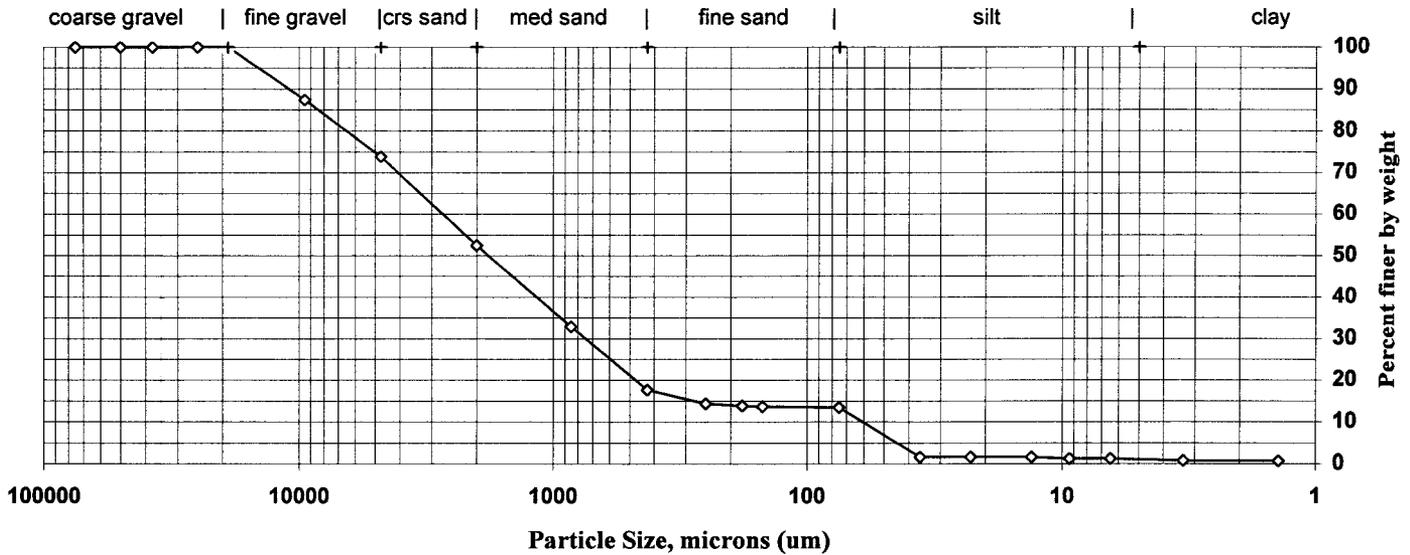
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|---------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>95327</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD004</u> |
| Date Received: <u>12-Aug-03</u> | Start Date: <u>30-Aug-03</u> | End Date: <u>5-Sep-03</u> |

| | |
|-----------------------|-------------------------|
| Lab ID: <u>537774</u> | Sample ID: <u>PSD1A</u> |
|-----------------------|-------------------------|

| | |
|---|-------------------------------------|
| Percent Solids: <u>89.7%</u> | Maximum Particle Size: <u>19 mm</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>subangular</u> |
| Non-soil mass: <u>NA</u> | Hardness (> #10): <u>hard</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 87.4 | 12.6 |
| #4 | 4750 | 73.8 | 13.6 |
| #10 | 2000 | 52.4 | 21.4 |
| #20 | 850 | 32.9 | 19.6 |
| #40 | 425 | 17.7 | 15.2 |
| #60 | 250 | 14.4 | 3.3 |
| #80 | 180 | 13.9 | 0.6 |
| #100 | 150 | 13.7 | 0.2 |
| #200 | 75 | 13.5 | 0.2 |
| Hydrometer | 36.0 | 1.6 | 11.9 |
| | 22.8 | 1.6 | 0.0 |
| | 13.2 | 1.6 | 0.0 |
| | 9.3 | 1.2 | 0.4 |
| | 6.4 | 1.2 | 0.0 |
| | 3.3 | 0.8 | 0.4 |
| V | 1.4 | 0.7 | 0.1 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 26.2 |
| Sand | 60.3 |
| Coarse Sand | 21.4 |
| Medium Sand | 34.7 |
| Fine Sand | 4.2 |
| Silt | 12.3 |
| Clay | 1.2 |

Dispersion Device: Mechanical mixer with a metal paddle.
 Dispersion Period: 1 minute

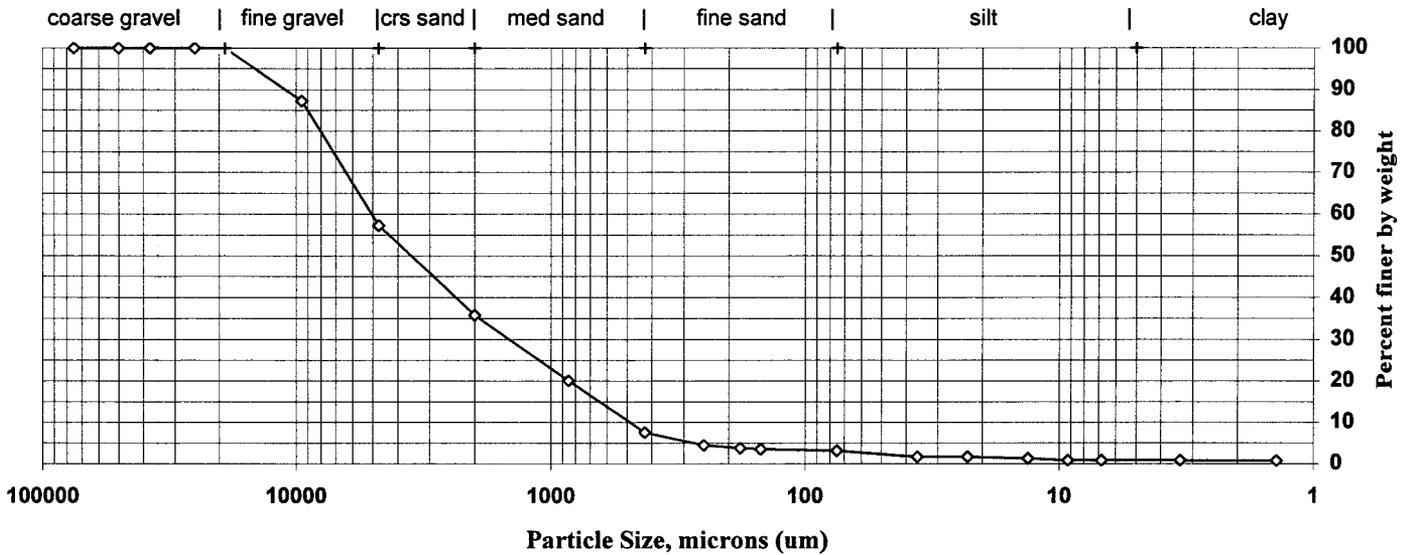
Particle Size of Soils by ASTM D422

Sample preparation method: D2217

| | | |
|---------------------------------|------------------------------|---------------------------|
| Client: <u>EASEAT</u> | Project No.: <u>23046</u> | ETR(s) #: <u>95327</u> |
| Client Code: <u>EASEAT</u> | Job No.: <u>N/A</u> | SDG(s): <u>GCD004</u> |
| Date Received: <u>12-Aug-03</u> | Start Date: <u>30-Aug-03</u> | End Date: <u>5-Sep-03</u> |

| | |
|----------------|------------------|
| Lab ID: 537776 | Sample ID: RSD1A |
|----------------|------------------|

| | |
|---|-------------------------------------|
| Percent Solids: <u>85.5%</u> | Maximum Particle Size: <u>19 mm</u> |
| Specific Gravity: <u>2.65</u> (assumed) | Shape (> #10): <u>subangular</u> |
| Non-soil mass: <u>0.0%</u> | Hardness (> #10): <u>hard</u> |



| Sieve size | Particle size, um | Percent finer | Incremental percent |
|------------|-------------------|---------------|---------------------|
| 3 inch | 75000 | 100.0 | 0.0 |
| 2 inch | 50000 | 100.0 | 0.0 |
| 1.5 inch | 37500 | 100.0 | 0.0 |
| 1 inch | 25000 | 100.0 | 0.0 |
| 3/4 inch | 19000 | 100.0 | 0.0 |
| 3/8 inch | 9500 | 87.2 | 12.8 |
| #4 | 4750 | 57.3 | 29.9 |
| #10 | 2000 | 35.7 | 21.5 |
| #20 | 850 | 20.1 | 15.6 |
| #40 | 425 | 7.5 | 12.6 |
| #60 | 250 | 4.4 | 3.1 |
| #80 | 180 | 3.7 | 0.7 |
| #100 | 150 | 3.5 | 0.2 |
| #200 | 75 | 3.1 | 0.4 |
| Hydrometer | 36.0 | 1.7 | 1.5 |
| | 22.8 | 1.7 | 0.0 |
| | 13.2 | 1.3 | 0.4 |
| | 9.2 | 0.9 | 0.4 |
| | 6.8 | 0.9 | 0.0 |
| | 3.4 | 0.9 | 0.0 |
| V | 1.4 | 0.7 | 0.1 |

| Soil Classification | Percent of Total Sample |
|---------------------|-------------------------|
| Gravel | 42.7 |
| Sand | 54.1 |
| Coarse Sand | 21.5 |
| Medium Sand | 28.2 |
| Fine Sand | 4.4 |
| Silt | 2.3 |
| Clay | 0.9 |

Dispersion Device: Mechanical mixer with a metal paddle.

Dispersion Period: 1 minute

**STL Burlington
Colchester, Vermont**

**Sample Data Summary
Package**

SDG: GCS003

Report to: EA Engineering Invoice to: same

Company: EA Engineering Company: same

Address: 12011 Bel Road Suite 200 Address: _____

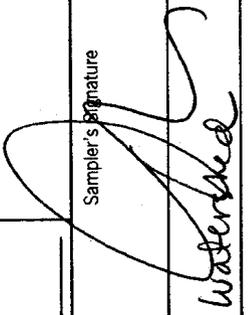
Bellevue WA 98005

Contact: Jan Knudsen Contact: _____

Phone: 425-451-7400 Phone: _____

Fax: 425-451-7800 Fax: _____

Contract/Quote: _____

Sampler's Name: Janice Gatherer Sampler's Signature: 

| Matrix ¹ | Date | Time | Identifying Marks of Sample(s) | | | No./Type of Containers ² | | | ANALYSIS REQUESTED | Lab Use Only Due Date: |
|---------------------|------|------|--|---|---|-------------------------------------|--------------|-----------|--------------------|---------------------------|
| | | | C | G | P | VOA | A/G 1 Lt. | 250 ml | | |
| | | | Project Name: <u>Granite Cr. Watershed</u> | | | | | | | |
| S 7/29/16 | | | X | | | | | 2 | Guaride | |
| | | | | | | | | | PH | |
| | | | | | | | | | SPLP | |
| | | | | | | | | | ABA | |
| | | | | | | | | | Chrome VI | |
| S 7/29/17 | | | X | | | | | 2 | X | |
| S 7/29/15 | | | X | | | | | 1 | X | |
| S 7/29/13 | | | X | | | | | 1 | X | |
| S 7/29/16 | | | X | | | | | 2 | X | |
| S 7/29/17 | | | X | | | | | 1 | X | |
| S 7/29/16 | | | X | | | | | 2 | X | |
| S 7/29/17 | | | X | | | | | 1 | X | |
| S 7/29/18 | | | X | | | | | 2 | X | |
| S 7/29/15 | | | X | | | | | 2 | X | |
| S 7/29/16 | | | X | | | | | 2 | X | |

Relinquished by: (Signature) Jan Knudsen Date 7/23/03 Time 0900 Received by: (Signature) _____

Relinquished by: (Signature) _____ Date _____ Time _____ Received by: (Signature) _____

Relinquished by: (Signature) _____ Date _____ Time _____ Received by: (Signature) _____

Remarks: _____

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

Matrix: WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil

Container: VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248



**Sample Data Summary Package
For Wet Chemistry**

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUEADSSS19(0.5)

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCS003

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535823

Matrix: SOIL

Client: EASEAT

Date Received: 07/24/03

% Solids: 66.1

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|----------|-----|-----|-------|-------|
| 9040B | Corrosivity by pH | 08/02/03 | | pH Units | 1 | 0.0 | 3.7 | |
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 66.1 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUEWPSUS22(1.5)

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCS003

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535825

Matrix: SOIL

Client: EASEAT

Date Received: 07/24/03

% Solids: 94.0

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|----------|-----|-----|-------|-------|
| 9040B | Corrosivity by pH | 08/02/03 | | pH Units | 1 | 0.0 | 3.4 | |
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 94.0 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUETASSS23(0.2)

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCS003

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535827

Matrix: SOIL

Client: EASEAT

Date Received: 07/24/03

% Solids: 51.3

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|----------|-----|-----|-------|-------|
| 9040B | Corrosivity by pH | 08/02/03 | | pH Units | 1 | 0.0 | 5.4 | |
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 51.3 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUETASSS27(0.5)

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCS003

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535829

Matrix: SOIL

Client: EASEAT

Date Received: 07/24/03

% Solids: 95.3

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|----------|-----|-----|-------|-------|
| 9040B | Corrosivity by pH | 08/02/03 | | pH Units | 1 | 0.0 | 6.6 | |
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 95.3 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUETASUS24(1.0)

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCS003

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535831

Matrix: SOIL

Client: EASEAT

Date Received: 07/24/03

% Solids: 87.0

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|----------|-----|-----|-------|-------|
| 9040B | Corrosivity by pH | 08/02/03 | | pH Units | 1 | 0.0 | 6.0 | |
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 87.0 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUEWPSUS29(1.0)

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCS003

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535832

Matrix: SOIL

Client: EASEAT

Date Received: 07/24/03

% Solids: 93.2

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|----------|-----|-----|-------|-------|
| 9040B | Corrosivity by pH | 08/02/03 | | pH Units | 1 | 0.0 | 4.4 | |
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 93.2 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUEWPSUS20(2.5)

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCS003

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535834

Matrix: SOIL

Client: EASEAT

Date Received: 07/24/03

% Solids: 93.4

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|----------|-----|-----|-------|-------|
| 9040B | Corrosivity by pH | 08/02/03 | | pH Units | 1 | 0.0 | 3.8 | |
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 93.4 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUEWPSUS21(1.5)

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCS003

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535836

Matrix: SOIL

Client: EASEAT

Date Received: 07/24/03

% Solids: 94.2

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|----------|-----|-----|-------|-------|
| 9040B | Corrosivity by pH | 08/02/03 | | pH Units | 1 | 0.0 | 3.6 | |
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 94.2 | |

WET CHEMISTRY

Laboratory Control Sample Report Summary

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCS003

Lab Code: STLVT

Case No.: 23046

Matrix: SOIL

Client: EASEAT

% Solids:

| Lab Sample ID | Method | Parameter | Analytical Run Date | Analytical Batch | Units | LCS Conc. | True Value | % Recovery* |
|---------------|--------|-------------------|---------------------|------------------|----------|-----------|------------|-------------|
| LCSPH0802A | 9040B | Corrosivity by pH | 08/02/03 | | pH Units | 6.0 | 6.0000 | 100.5 |

* Control Limit for Percent Recovery is 80-120%, unless otherwise specified.

WET CHEMISTRY

Laboratory Control Sample Duplicate Report Summary

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCS003

Lab Code: STLVT

Case No.: 23046

Matrix: SOIL

Client: EASEAT

% Solids:

| Lab Sample ID | Method | Parameter | Analytical Run Date | Analytical Batch | Units | LCSD Conc. | True Value | % Recovery* | RPD** |
|---------------|--------|-------------------|---------------------|------------------|----------|------------|------------|-------------|-------|
| LCSDPH0802A | 9040B | Corrosivity by pH | 08/02/03 | | pH Units | 6.0 | 6.0000 | 100.5 | 0 |

* Control Limit for Percent Recovery is 80-120%, unless otherwise specified.

** Control Limit for RPD is +/- 20%, unless otherwise specified.



**Sample Data Summary Package
For Metals**

USEPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003

SOW No.: ILM04.1

| EPA Sample No. | Lab Sample ID. |
|--------------------------|----------------|
| <u>BLUEADSSS19 (0.5)</u> | <u>535823</u> |
| <u>BLUETASSS23 (0.2)</u> | <u>535827</u> |
| <u>BLUETASSS27 (0.5)</u> | <u>535829</u> |
| <u>BLUETASUS24 (1.0)</u> | <u>535831</u> |
| <u>BLUEWPSUS20 (2.5)</u> | <u>535834</u> |
| <u>BLUEWPSUS21 (1.5)</u> | <u>535836</u> |
| <u>BLUEWPSUS22 (1.5)</u> | <u>535825</u> |
| <u>BLUEWPSUS29 (1.0)</u> | <u>535832</u> |

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: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUEADSSS19(0.5)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003
 Matrix (soil/water): SOIL Lab Sample ID: 535823
 Level (low/med): LOW Date Received: 7/24/2003
 % Solids: 66.1

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 7340 | | | P |
| 7440-36-0 | Antimony | 13.9 | | | P |
| 7440-38-2 | Arsenic | 48.7 | | E | P |
| 7440-39-3 | Barium | 39.2 | | | P |
| 7440-41-7 | Beryllium | 0.25 | B | | P |
| 7440-43-9 | Cadmium | 0.035 | U | | P |
| 7440-70-2 | Calcium | 26.0 | U | | P |
| 7440-47-3 | Chromium | 18.7 | | E | P |
| 7440-48-4 | Cobalt | 21.1 | | | P |
| 7440-50-8 | Copper | 99.7 | | | P |
| 7439-89-6 | Iron | 370000 | | | P |
| 7439-92-1 | Lead | 21.7 | | E | P |
| 7439-95-4 | Magnesium | 1470 | | E | P |
| 7439-96-5 | Manganese | 308 | | E | P |
| 7439-97-6 | Mercury | 0.67 | | | CV |
| 7440-02-0 | Nickel | 28.0 | | E | P |
| 7440-09-7 | Potassium | 1480 | | E | P |
| 7782-49-2 | Selenium | 17.1 | | E | P |
| 7440-22-4 | Silver | 0.65 | B | | P |
| 7440-23-5 | Sodium | 151 | B | | P |
| 7440-28-0 | Thallium | 20.6 | | | P |
| 7440-62-2 | Vanadium | 15.4 | | E | P |
| 7440-66-6 | Zinc | 82.4 | | E | P |
| 57-12-5 | Cyanide | 0.75 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: mediumColor After: yellow Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUETASSS23 (0.2)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003
 Matrix (soil/water): SOIL Lab Sample ID: 535827
 Level (low/med): LOW Date Received: 7/24/2003
 % Solids: 51.3

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 3030 | | | P |
| 7440-36-0 | Antimony | 20.2 | | | P |
| 7440-38-2 | Arsenic | 44.3 | | E | P |
| 7440-39-3 | Barium | 22.6 | B | | P |
| 7440-41-7 | Beryllium | 0.33 | B | | P |
| 7440-43-9 | Cadmium | 0.043 | U | | P |
| 7440-70-2 | Calcium | 32.0 | U | | P |
| 7440-47-3 | Chromium | 14.6 | | E | P |
| 7440-48-4 | Cobalt | 29.2 | | | P |
| 7440-50-8 | Copper | 37.0 | | | P |
| 7439-89-6 | Iron | 557000 | | | P |
| 7439-92-1 | Lead | 29.1 | | E | P |
| 7439-95-4 | Magnesium | 238 | B | E | P |
| 7439-96-5 | Manganese | 260 | | E | P |
| 7439-97-6 | Mercury | 0.25 | | | CV |
| 7440-02-0 | Nickel | 46.9 | | E | P |
| 7440-09-7 | Potassium | 327 | B | E | P |
| 7782-49-2 | Selenium | 25.7 | | E | P |
| 7440-22-4 | Silver | 0.84 | B | | P |
| 7440-23-5 | Sodium | 31.4 | U | | P |
| 7440-28-0 | Thallium | 30.9 | | | P |
| 7440-62-2 | Vanadium | 3.8 | B | E | P |
| 7440-66-6 | Zinc | 165 | | E | P |
| 57-12-5 | Cyanide | 0.97 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: mediumColor After: yellow Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUETASSS27 (0.5)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003
 Matrix (soil/water): SOIL Lab Sample ID: 535829
 Level (low/med): LOW Date Received: 7/24/2003
 % Solids: 95.3

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 16900 | | | P |
| 7440-36-0 | Antimony | 1.1 | B | | P |
| 7440-38-2 | Arsenic | 7.3 | | E | P |
| 7440-39-3 | Barium | 271 | | | P |
| 7440-41-7 | Beryllium | 0.54 | | | P |
| 7440-43-9 | Cadmium | 0.090 | B | | P |
| 7440-70-2 | Calcium | 1580 | | | P |
| 7440-47-3 | Chromium | 10.1 | | E | P |
| 7440-48-4 | Cobalt | 6.8 | | | P |
| 7440-50-8 | Copper | 42.6 | | | P |
| 7439-89-6 | Iron | 15300 | | | P |
| 7439-92-1 | Lead | 12.9 | | E | P |
| 7439-95-4 | Magnesium | 1130 | | E | P |
| 7439-96-5 | Manganese | 499 | | E | P |
| 7439-97-6 | Mercury | 0.062 | | | CV |
| 7440-02-0 | Nickel | 16.5 | | E | P |
| 7440-09-7 | Potassium | 1070 | | E | P |
| 7782-49-2 | Selenium | 1.3 | | E | P |
| 7440-22-4 | Silver | 0.19 | B | | P |
| 7440-23-5 | Sodium | 472 | | | P |
| 7440-28-0 | Thallium | 0.88 | B | | P |
| 7440-62-2 | Vanadium | 19.9 | | E | P |
| 7440-66-6 | Zinc | 46.0 | | E | P |
| 57-12-5 | Cyanide | 0.52 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: mediumColor After: yellow Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUETASUS24 (1.0)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003
 Matrix (soil/water): SOIL Lab Sample ID: 535831
 Level (low/med): LOW Date Received: 7/24/2003
 % Solids: 87.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 15300 | | | P |
| 7440-36-0 | Antimony | 0.82 | B | | P |
| 7440-38-2 | Arsenic | 36.8 | | E | P |
| 7440-39-3 | Barium | 81.2 | | | P |
| 7440-41-7 | Beryllium | 0.52 | | | P |
| 7440-43-9 | Cadmium | 0.099 | B | | P |
| 7440-70-2 | Calcium | 2910 | | | P |
| 7440-47-3 | Chromium | 96.5 | | E | P |
| 7440-48-4 | Cobalt | 23.1 | | | P |
| 7440-50-8 | Copper | 44.2 | | | P |
| 7439-89-6 | Iron | 25300 | | | P |
| 7439-92-1 | Lead | 6.4 | | E | P |
| 7439-95-4 | Magnesium | 9200 | | E | P |
| 7439-96-5 | Manganese | 1210 | | E | P |
| 7439-97-6 | Mercury | 0.14 | | | CV |
| 7440-02-0 | Nickel | 135 | | E | P |
| 7440-09-7 | Potassium | 820 | | E | P |
| 7782-49-2 | Selenium | 1.6 | | E | P |
| 7440-22-4 | Silver | 0.78 | B | | P |
| 7440-23-5 | Sodium | 679 | | | P |
| 7440-28-0 | Thallium | 1.6 | | | P |
| 7440-62-2 | Vanadium | 45.6 | | E | P |
| 7440-66-6 | Zinc | 93.8 | | E | P |
| 57-12-5 | Cyanide | 0.56 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: mediumColor After: yellow Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUEWPSUS20 (2.5)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003
 Matrix (soil/water): SOIL Lab Sample ID: 535834
 Level (low/med): LOW Date Received: 7/24/2003
 % Solids: 93.4

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 8260 | | | P |
| 7440-36-0 | Antimony | 1.7 | B | | P |
| 7440-38-2 | Arsenic | 20.4 | | E | P |
| 7440-39-3 | Barium | 78.1 | | | P |
| 7440-41-7 | Beryllium | 0.23 | B | | P |
| 7440-43-9 | Cadmium | 0.026 | U | | P |
| 7440-70-2 | Calcium | 19.4 | U | | P |
| 7440-47-3 | Chromium | 17.9 | | E | P |
| 7440-48-4 | Cobalt | 5.9 | | | P |
| 7440-50-8 | Copper | 58.2 | | | P |
| 7439-89-6 | Iron | 41200 | | | P |
| 7439-92-1 | Lead | 11.3 | | E | P |
| 7439-95-4 | Magnesium | 5050 | | E | P |
| 7439-96-5 | Manganese | 230 | | E | P |
| 7439-97-6 | Mercury | 1.2 | | | CV |
| 7440-02-0 | Nickel | 9.5 | | E | P |
| 7440-09-7 | Potassium | 3370 | | E | P |
| 7782-49-2 | Selenium | 2.5 | | E | P |
| 7440-22-4 | Silver | 0.34 | B | | P |
| 7440-23-5 | Sodium | 356 | B | | P |
| 7440-28-0 | Thallium | 2.1 | | | P |
| 7440-62-2 | Vanadium | 24.1 | | E | P |
| 7440-66-6 | Zinc | 51.6 | | E | P |
| 57-12-5 | Cyanide | 0.54 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: mediumColor After: yellow Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUEWPSUS21(1.5)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003
 Matrix (soil/water): SOIL Lab Sample ID: 535836
 Level (low/med): LOW Date Received: 7/24/2003
 % Solids: 94.2

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 3040 | | | P |
| 7440-36-0 | Antimony | 2.8 | B | | P |
| 7440-38-2 | Arsenic | 86.8 | | E | P |
| 7440-39-3 | Barium | 64.4 | | | P |
| 7440-41-7 | Beryllium | 0.19 | B | | P |
| 7440-43-9 | Cadmium | 0.023 | U | | P |
| 7440-70-2 | Calcium | 70.7 | B | | P |
| 7440-47-3 | Chromium | 8.6 | | E | P |
| 7440-48-4 | Cobalt | 3.5 | B | | P |
| 7440-50-8 | Copper | 58.1 | | | P |
| 7439-89-6 | Iron | 34200 | | | P |
| 7439-92-1 | Lead | 15.7 | | E | P |
| 7439-95-4 | Magnesium | 1050 | | E | P |
| 7439-96-5 | Manganese | 72.5 | | E | P |
| 7439-97-6 | Mercury | 0.50 | | | CV |
| 7440-02-0 | Nickel | 7.2 | | E | P |
| 7440-09-7 | Potassium | 1920 | | E | P |
| 7782-49-2 | Selenium | 4.1 | | E | P |
| 7440-22-4 | Silver | 0.68 | B | | P |
| 7440-23-5 | Sodium | 147 | B | | P |
| 7440-28-0 | Thallium | 2.1 | | | P |
| 7440-62-2 | Vanadium | 17.5 | | E | P |
| 7440-66-6 | Zinc | 49.6 | | E | P |
| 57-12-5 | Cyanide | 0.41 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: medium
 Color After: yellow Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUEWPSUS22 (1.5)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003
 Matrix (soil/water): SOIL Lab Sample ID: 535825
 Level (low/med): LOW Date Received: 7/24/2003
 % Solids: 94.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 1970 | | | P |
| 7440-36-0 | Antimony | 2.0 | B | | P |
| 7440-38-2 | Arsenic | 11.6 | | E | P |
| 7440-39-3 | Barium | 38.3 | | | P |
| 7440-41-7 | Beryllium | 0.12 | B | | P |
| 7440-43-9 | Cadmium | 0.024 | U | | P |
| 7440-70-2 | Calcium | 18.1 | U | | P |
| 7440-47-3 | Chromium | 8.7 | | E | P |
| 7440-48-4 | Cobalt | 11.3 | | | P |
| 7440-50-8 | Copper | 53.5 | | | P |
| 7439-89-6 | Iron | 30200 | | | P |
| 7439-92-1 | Lead | 8.3 | | E | P |
| 7439-95-4 | Magnesium | 573 | | E | P |
| 7439-96-5 | Manganese | 239 | | E | P |
| 7439-97-6 | Mercury | 0.67 | | | CV |
| 7440-02-0 | Nickel | 21.7 | | E | P |
| 7440-09-7 | Potassium | 1250 | | E | P |
| 7782-49-2 | Selenium | 1.6 | | E | P |
| 7440-22-4 | Silver | 0.10 | B | | P |
| 7440-23-5 | Sodium | 141 | B | | P |
| 7440-28-0 | Thallium | 2.3 | | | P |
| 7440-62-2 | Vanadium | 12.3 | | E | P |
| 7440-66-6 | Zinc | 79.1 | | E | P |
| 57-12-5 | Cyanide | 0.50 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: mediumColor After: yellow Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.:

BLUEWPSUS29 (1.0)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003
 Matrix (soil/water): SOIL Lab Sample ID: 535832
 Level (low/med): LOW Date Received: 7/24/2003
 % Solids: 93.2

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 9460 | | | P |
| 7440-36-0 | Antimony | 3.1 | B | | P |
| 7440-38-2 | Arsenic | 13.0 | | E | P |
| 7440-39-3 | Barium | 64.5 | | | P |
| 7440-41-7 | Beryllium | 0.39 | B | | P |
| 7440-43-9 | Cadmium | 0.028 | U | | P |
| 7440-70-2 | Calcium | 79.8 | B | | P |
| 7440-47-3 | Chromium | 19.4 | | E | P |
| 7440-48-4 | Cobalt | 6.1 | | | P |
| 7440-50-8 | Copper | 95.3 | | | P |
| 7439-89-6 | Iron | 36100 | | | P |
| 7439-92-1 | Lead | 12.3 | | E | P |
| 7439-95-4 | Magnesium | 1260 | | E | P |
| 7439-96-5 | Manganese | 96.5 | | E | P |
| 7439-97-6 | Mercury | 0.32 | | | CV |
| 7440-02-0 | Nickel | 22.5 | | E | P |
| 7440-09-7 | Potassium | 939 | | E | P |
| 7782-49-2 | Selenium | 5.5 | | E | P |
| 7440-22-4 | Silver | 0.20 | B | | P |
| 7440-23-5 | Sodium | 237 | B | | P |
| 7440-28-0 | Thallium | 1.5 | | | P |
| 7440-62-2 | Vanadium | 34.4 | | E | P |
| 7440-66-6 | Zinc | 47.9 | | E | P |
| 57-12-5 | Cyanide | 0.53 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: mediumColor After: yellow Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003Initial Calibration Source: Inorganic Ventures/FisherContinuing 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 | 25900.00 | 99.6 | 30200.0 | 29490.00 | 97.6 | 28490.00 | 94.3 | P |
| Antimony | 250.0 | 246.60 | 98.6 | 300.0 | 302.00 | 100.7 | 293.10 | 97.7 | P |
| Arsenic | 250.0 | 246.40 | 98.6 | 100.0 | 97.85 | 97.8 | 97.31 | 97.3 | P |
| Barium | 500.0 | 492.70 | 98.5 | 200.0 | 196.50 | 98.2 | 188.10 | 94.0 | P |
| Beryllium | 500.0 | 497.90 | 99.6 | 100.0 | 97.48 | 97.5 | 94.87 | 94.9 | P |
| Cadmium | 500.0 | 485.40 | 97.1 | 100.0 | 95.86 | 95.9 | 94.34 | 94.3 | P |
| Calcium | 25000.0 | 24900.00 | 99.6 | 30200.0 | 29370.00 | 97.3 | 28630.00 | 94.8 | P |
| Chromium | 500.0 | 495.60 | 99.1 | 200.0 | 193.60 | 96.8 | 190.80 | 95.4 | P |
| Cobalt | 500.0 | 494.10 | 98.8 | 200.0 | 197.30 | 98.6 | 195.70 | 97.8 | P |
| Copper | 500.0 | 497.90 | 99.6 | 200.0 | 197.80 | 98.9 | 190.80 | 95.4 | P |
| Iron | 25500.0 | 25860.00 | 101.4 | 30200.0 | 29260.00 | 96.9 | 27780.00 | 92.0 | P |
| Lead | 1000.0 | 992.40 | 99.2 | 400.0 | 391.70 | 97.9 | 383.10 | 95.8 | P |
| Magnesium | 25000.0 | 24900.00 | 99.6 | 30200.0 | 29240.00 | 96.8 | 28570.00 | 94.6 | P |
| Manganese | 500.0 | 488.00 | 97.6 | 200.0 | 193.40 | 96.7 | 189.20 | 94.6 | P |
| Mercury | 3.0 | 2.72 | 90.7 | 5.0 | 4.85 | 97.0 | 4.46 | 89.2 | CV |
| Nickel | 500.0 | 492.00 | 98.4 | 200.0 | 194.60 | 97.3 | 190.80 | 95.4 | P |
| Potassium | 25000.0 | 26010.00 | 104.0 | 30200.0 | 30660.00 | 101.5 | 29890.00 | 99.0 | P |
| Selenium | 250.0 | 245.10 | 98.0 | 100.0 | 103.20 | 103.2 | 97.95 | 98.0 | P |
| Silver | 500.0 | 495.70 | 99.1 | 100.0 | 98.00 | 98.0 | 97.36 | 97.4 | P |
| Sodium | 25000.0 | 25150.00 | 100.6 | 30200.0 | 29200.00 | 96.7 | 28960.00 | 95.9 | P |
| Thallium | 250.0 | 238.60 | 95.4 | 100.0 | 95.46 | 95.5 | 95.92 | 95.9 | P |
| Vanadium | 500.0 | 490.10 | 98.0 | 200.0 | 193.10 | 96.6 | 189.20 | 94.6 | P |
| Zinc | 500.0 | 488.20 | 97.6 | 200.0 | 190.80 | 95.4 | 185.30 | 92.6 | P |
| Cyanide | 120.0 | 116.78 | 97.3 | 150.0 | 139.64 | 93.1 | 142.74 | 95.2 | AS |

(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: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003Initial Calibration Source: Inorganic Ventures/FisherContinuing 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 | 29140.00 | 96.5 | 30820.00 | 102.1 | P |
| Antimony | | | | 300.0 | 297.70 | 99.2 | 317.30 | 105.8 | P |
| Arsenic | | | | 100.0 | 98.98 | 99.0 | 104.80 | 104.8 | P |
| Barium | | | | 200.0 | 193.20 | 96.6 | 204.90 | 102.4 | P |
| Beryllium | | | | 100.0 | 94.71 | 94.7 | 100.10 | 100.1 | P |
| Cadmium | | | | 100.0 | 95.27 | 95.3 | 101.40 | 101.4 | P |
| Calcium | | | | 30200.0 | 28850.00 | 95.5 | 30740.00 | 101.8 | P |
| Chromium | | | | 200.0 | 192.90 | 96.4 | 204.90 | 102.4 | P |
| Cobalt | | | | 200.0 | 200.20 | 100.1 | 212.60 | 106.3 | P |
| Copper | | | | 200.0 | 196.10 | 98.0 | 206.40 | 103.2 | P |
| Iron | | | | 30200.0 | 27050.00 | 89.6 | 28830.00 | 95.5 | P |
| Lead | | | | 400.0 | 393.10 | 98.3 | 417.60 | 104.4 | P |
| Magnesium | | | | 30200.0 | 28860.00 | 95.6 | 30720.00 | 101.7 | P |
| Manganese | | | | 200.0 | 191.00 | 95.5 | 202.20 | 101.1 | P |
| Mercury | | | | 5.0 | 4.76 | 95.2 | | | CV |
| Nickel | | | | 200.0 | 192.80 | 96.4 | 204.90 | 102.4 | P |
| Potassium | | | | 30200.0 | 31070.00 | 102.9 | 32490.00 | 107.6 | P |
| Selenium | | | | 100.0 | 98.90 | 98.9 | 103.70 | 103.7 | P |
| Silver | | | | 100.0 | 100.50 | 100.5 | 105.50 | 105.5 | P |
| Sodium | | | | 30200.0 | 30170.00 | 99.9 | 31490.00 | 104.3 | P |
| Thallium | | | | 100.0 | 101.00 | 101.0 | 104.00 | 104.0 | P |
| Vanadium | | | | 200.0 | 193.20 | 96.6 | 204.80 | 102.4 | P |
| Zinc | | | | 200.0 | 183.40 | 91.7 | 194.50 | 97.2 | P |
| Cyanide | | | | 150.0 | 144.46 | 96.3 | 143.71 | 95.8 | AS |

(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.: GCS003

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) |
| Iron | 25500.0 | 25990.00 | 101.9 | 30200.0 | 29900.00 | 99.0 | 31190.00 | 103.3 | P |
| Manganese | 500.0 | 494.10 | 98.8 | 200.0 | 197.40 | 98.7 | 209.90 | 105.0 | 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.: GCS003

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) |
| Iron | | | | 30200.0 | 30700.00 | 101.7 | 31870.00 | 105.5 | P |
| Manganese | | | | 200.0 | 205.70 | 102.8 | 209.10 | 104.6 | 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.: GCS003

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) |
| Iron | | | | 30200.0 | 30810.00 | 102.0 | | | P |
| Manganese | | | | 200.0 | 198.40 | 99.2 | | | 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.: GCS003

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) |
| Iron | 25500.0 | 25720.00 | 100.9 | 30200.0 | 30680.00 | 101.6 | 30840.00 | 102.1 | 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.: GCS003

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) |
| Iron | | | | 30200.0 | 29770.00 | 98.6 | | | 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: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003AA CRDL Standard Source: Inorganic VenturesICP 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 | 519.90 | 130.0 | 611.50 | 152.9 |
| Antimony | | | | 120.0 | 123.10 | 102.6 | 125.30 | 104.4 |
| Arsenic | | | | 20.0 | 21.31 | 106.6 | 20.36 | 101.8 |
| Barium | | | | 400.0 | 394.00 | 98.5 | 397.60 | 99.4 |
| Beryllium | | | | 10.0 | 10.46 | 104.6 | 10.67 | 106.7 |
| Cadmium | | | | 10.0 | 10.34 | 103.4 | 10.79 | 107.9 |
| Calcium | | | | 10000.0 | 10340.00 | 103.4 | 10500.00 | 105.0 |
| Chromium | | | | 20.0 | 22.63 | 113.2 | 23.21 | 116.0 |
| Cobalt | | | | 100.0 | 98.61 | 98.6 | 102.30 | 102.3 |
| Copper | | | | 50.0 | 50.81 | 101.6 | 49.56 | 99.1 |
| Iron | | | | 200.0 | 265.10 | 132.6 | 290.30 | 145.2 |
| Lead | | | | 6.0 | 7.16 | 119.3 | 5.44 | 90.7 |
| Magnesium | | | | 10000.0 | 10200.00 | 102.0 | 10410.00 | 104.1 |
| Manganese | | | | 30.0 | 30.06 | 100.2 | 30.38 | 101.3 |
| Mercury | 0.2 | 0.14 | 70.0 | | | | | |
| Nickel | | | | 80.0 | 80.72 | 100.9 | 82.99 | 103.7 |
| Potassium | | | | 10000.0 | 10700.00 | 107.0 | 11090.00 | 110.9 |
| Selenium | | | | 10.0 | 13.07 | 130.7 | 13.03 | 130.3 |
| Silver | | | | 20.0 | 19.74 | 98.7 | 20.73 | 103.6 |
| Sodium | | | | 10000.0 | 10220.00 | 102.2 | 10780.00 | 107.8 |
| Thallium | | | | 20.0 | 19.19 | 96.0 | 22.81 | 114.0 |
| Vanadium | | | | 100.0 | 99.90 | 99.9 | 102.90 | 102.9 |
| Zinc | | | | 40.0 | 40.37 | 100.9 | 39.89 | 99.7 |

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.: GCS003

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 | | | Final | |
| | | | | True | Found | %R | Found | %R |
| Iron | | | | 200.0 | 322.80 | 161.4 | 344.40 | 172.2 |
| Manganese | | | | 30.0 | 30.90 | 103.0 | 30.61 | 102.0 |

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.: GCS003

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 | | | Final | |
| | | | | True | Found | %R | Found | %R |
| Iron | | | | 200.0 | 265.90 | 133.0 | 293.70 | 146.8 |

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

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003Preparation Blank Matrix (soil/water): SOILPreparation Blank Concentration Units (ug/L or mg/kg): MG/KG

| Analyte | Initial Calib. Blank (ug/L) | C | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|-----------|--------------------------------------|---|--|---|-------|---|-------|---|----------------------|---|----|
| | | | 1 | C | 2 | C | 3 | C | C | | |
| Aluminum | -47.3 | B | -47.4 | B | -31.6 | B | 18.3 | U | -3.802 | B | P |
| Antimony | 3.8 | U | 3.8 | U | 3.8 | U | 3.8 | U | 0.633 | B | P |
| Arsenic | 2.4 | U | 2.4 | U | 2.4 | U | 2.4 | U | 0.240 | U | P |
| Barium | 7.3 | U | 7.3 | U | 7.3 | U | 7.3 | U | 0.730 | U | P |
| Beryllium | 0.3 | B | 0.3 | B | 0.4 | B | 0.4 | B | 0.020 | U | P |
| Cadmium | 0.3 | B | 0.3 | U | 0.3 | U | 0.3 | U | 0.030 | U | P |
| Calcium | 223.2 | U | 223.2 | U | 223.2 | U | 223.2 | U | 22.320 | U | P |
| Chromium | 0.6 | U | 0.6 | U | 0.6 | U | 0.6 | U | 0.060 | U | P |
| Cobalt | 1.8 | U | 1.8 | U | 1.8 | U | 1.8 | U | 0.180 | U | P |
| Copper | 1.4 | U | 1.4 | U | 1.4 | U | -2.3 | B | 0.140 | U | P |
| Iron | -24.6 | B | 16.8 | U | 17.7 | B | 16.8 | U | 1.680 | U | P |
| Lead | 1.5 | U | 1.5 | U | 1.5 | U | 1.5 | U | 0.150 | U | P |
| Magnesium | 181.7 | U | 181.7 | U | 181.7 | U | 181.7 | U | 18.170 | U | P |
| Manganese | 0.7 | U | 0.7 | U | 0.7 | U | 0.7 | U | 0.070 | U | P |
| Mercury | 0.1 | U | 0.1 | U | 0.1 | U | 0.1 | U | 0.017 | U | CV |
| Nickel | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | -0.264 | B | P |
| Potassium | 250.0 | U | 250.0 | U | 250.0 | U | 250.0 | U | 25.000 | U | P |
| Selenium | 2.1 | B | 3.0 | B | 2.0 | B | 1.7 | U | 0.176 | B | P |
| Silver | 0.9 | U | 0.9 | U | 0.9 | U | 0.9 | U | -0.153 | B | P |
| Sodium | 218.8 | U | 218.8 | U | 218.8 | U | 300.1 | B | 39.380 | B | P |
| Thallium | 2.8 | U | 2.8 | U | -3.6 | B | 2.8 | U | -0.796 | B | P |
| Vanadium | 2.2 | U | 2.2 | U | 2.2 | U | 2.2 | U | 0.220 | U | P |
| Zinc | 5.7 | U | 5.7 | U | 5.7 | U | 5.7 | U | 0.570 | U | P |
| Cyanide | 10.0 | U | 10.0 | U | 10.0 | U | 10.0 | U | 0.490 | U | AS |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | C | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|-----------|--------------------------------------|---|--|---|---|---|---|---|----------------------|---|----|
| | | | 1 | C | 2 | C | 3 | C | C | C | |
| Aluminum | | | 18.3 | U | | | | | | | P |
| Antimony | | | 3.8 | U | | | | | | | P |
| Arsenic | | | 2.4 | U | | | | | | | P |
| Barium | | | 7.3 | U | | | | | | | P |
| Beryllium | | | 0.4 | B | | | | | | | P |
| Cadmium | | | 0.3 | U | | | | | | | P |
| Calcium | | | 223.2 | U | | | | | | | P |
| Chromium | | | 0.6 | U | | | | | | | P |
| Cobalt | | | 1.8 | U | | | | | | | P |
| Copper | | | -2.1 | B | | | | | | | P |
| Iron | | | 16.8 | U | | | | | | | P |
| Lead | | | 1.5 | U | | | | | | | P |
| Magnesium | | | 181.7 | U | | | | | | | P |
| Manganese | | | 0.7 | U | | | | | | | P |
| Nickel | | | 2.0 | U | | | | | | | P |
| Potassium | | | 250.0 | U | | | | | | | P |
| Selenium | | | 1.7 | U | | | | | | | P |
| Silver | | | 0.9 | U | | | | | | | P |
| Sodium | | | 218.8 | U | | | | | | | P |
| Thallium | | | 2.8 | U | | | | | | | P |
| Vanadium | | | 2.2 | U | | | | | | | P |
| Zinc | | | 5.7 | U | | | | | | | P |
| Cyanide | | | 10.0 | U | | | | | | | AS |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003

Preparation Blank Matrix (soil/water): WATER

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

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|-----------|-----------------------------|---|-------------------------------------|---|------|---|------|---|-------------------|---|---|
| | | C | 1 | C | 2 | C | 3 | C | | C | |
| Iron | 23.3 | B | 16.8 | U | 44.5 | B | 41.4 | B | | | P |
| Manganese | 0.7 | U | 0.7 | U | 0.7 | U | 0.7 | U | | | P |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003

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) | | | | | | Preparation Blank | C | M |
|-----------|--------------------------------------|---|--|---|------|---|---|---|----------------------|---|---|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Iron | | | 24.2 | B | 54.2 | B | | | | | P |
| Manganese | | | 0.7 | U | 0.7 | U | | | | | P |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003

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) | | | | | | Preparation Blank | C | M |
|---------|--------------------------------------|---|--|---|------|---|------|---|----------------------|---|---|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Iron | 66.7 | U | 66.7 | U | 66.7 | U | 66.7 | U | | P | |

USEPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003ICP ID Number: TJA ICAP 6 ICS Source: Inorganic VenturesConcentration 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 | 488880 | 496400 | 499500.0 | 102.2 | 527200 | 533200.0 | 109.1 |
| Antimony | 0 | 604 | 7 | 605.7 | 100.3 | 7 | 646.0 | 107.0 |
| Arsenic | 0 | 98 | 3 | 97.1 | 99.1 | 0 | 105.3 | 107.4 |
| Barium | 0 | 493 | 2 | 483.9 | 98.2 | 2 | 517.2 | 104.9 |
| Beryllium | 0 | 452 | 0 | 454.7 | 100.6 | 0 | 475.6 | 105.2 |
| Cadmium | 0 | 922 | 9 | 910.7 | 98.8 | 8 | 975.4 | 105.8 |
| Calcium | 500000 | 459460 | 450800 | 455700.0 | 99.2 | 476900 | 483800.0 | 105.3 |
| Chromium | 0 | 471 | 5 | 465.1 | 98.7 | 5 | 499.1 | 106.0 |
| Cobalt | 0 | 465 | 8 | 463.3 | 99.6 | 8 | 502.9 | 108.2 |
| Copper | 0 | 526 | 3 | 510.0 | 97.0 | 1 | 549.7 | 104.5 |
| Iron | 200000 | 191660 | 196000 | 194300.0 | 101.4 | 195300 | 194400.0 | 101.4 |
| Lead | 0 | 48 | -1 | 41.9 | 87.3 | 1 | 48.5 | 101.0 |
| Magnesium | 500000 | 546140 | 530000 | 538400.0 | 98.6 | 564700 | 575100.0 | 105.3 |
| Manganese | 0 | 468 | 0 | 461.1 | 98.5 | 0 | 491.5 | 105.0 |
| Nickel | 0 | 926 | 11 | 913.1 | 98.6 | 11 | 977.8 | 105.6 |
| Potassium | 0 | 0 | -130 | -123.6 | | 162 | 175.7 | |
| Selenium | 0 | 46 | 4 | 51.0 | 110.9 | 2 | 51.9 | 112.8 |
| Silver | 0 | 215 | 1 | 206.7 | 96.1 | 1 | 225.9 | 105.1 |
| Sodium | 0 | 0 | -248 | -336.8 | | -86 | -439.8 | |
| Thallium | 0 | 97 | 12 | 95.0 | 97.9 | 4 | 104.4 | 107.6 |
| Vanadium | 0 | 477 | -2 | 468.6 | 98.2 | -1 | 502.8 | 105.4 |
| Zinc | 0 | 901 | 11 | 901.4 | 100.0 | 10 | 929.3 | 103.1 |

USEPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003

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 |
| Iron | 200000 | 191660 | 207700 | 201200.0 | 105.0 | 209100 | 202800.0 | 105.8 |
| Manganese | 0 | 468 | 0 | 479.7 | 102.5 | 0 | 471.3 | 100.7 |

USEPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003

ICP ID Number: TJA ICAP 5 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 |
| Iron | 200000 | 189440 | 201200 | 201700.0 | 106.5 | 212800 | 208100.0 | 109.9 |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003Solid LCS Source: Environmental Express

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | |
|-----------|----------------|-------|----|---------------|---------|-----------------|-------|
| | True | Found | %R | True | Found C | Limits | %R |
| Aluminum | | | | 200.0 | 211.9 | 160.0 240.0 | 106.0 |
| Antimony | | | | 50.0 | 54.1 | 40.0 60.0 | 108.2 |
| Arsenic | | | | 24.0 | 24.8 | 19.2 28.8 | 103.3 |
| Barium | | | | 200.0 | 207.6 | 160.0 240.0 | 103.8 |
| Beryllium | | | | 5.0 | 5.3 | 4.0 6.0 | 106.0 |
| Cadmium | | | | 25.0 | 26.1 | 20.0 30.0 | 104.4 |
| Calcium | | | | 2000.0 | 2135.0 | 1600.0 2400.0 | 106.8 |
| Chromium | | | | 20.0 | 21.6 | 16.0 24.0 | 108.0 |
| Cobalt | | | | 50.0 | 52.9 | 40.0 60.0 | 105.8 |
| Copper | | | | 25.0 | 27.6 | 20.0 30.0 | 110.4 |
| Iron | | | | 100.0 | 111.1 | 80.0 120.0 | 111.1 |
| Lead | | | | 22.0 | 23.0 | 17.6 26.4 | 104.5 |
| Magnesium | | | | 2000.0 | 2081.0 | 1600.0 2400.0 | 104.0 |
| Manganese | | | | 50.0 | 52.9 | 40.0 60.0 | 105.8 |
| Mercury | | | | 0.1 | 0.1 | 0.1 0.1 | 100.0 |
| Nickel | | | | 50.0 | 52.0 | 40.0 60.0 | 104.0 |
| Potassium | | | | 2000.0 | 2084.0 | 1600.0 2400.0 | 104.2 |
| Selenium | | | | 21.0 | 21.0 | 16.8 25.2 | 100.0 |
| Silver | | | | 25.0 | 26.5 | 20.0 30.0 | 106.0 |
| Sodium | | | | 2000.0 | 2126.0 | 1600.0 2400.0 | 106.3 |
| Thallium | | | | 25.0 | 25.0 | 20.0 30.0 | 100.0 |
| Vanadium | | | | 50.0 | 53.8 | 40.0 60.0 | 107.6 |
| Zinc | | | | 50.0 | 52.0 | 40.0 60.0 | 104.0 |
| Cyanide | | | | 6.0 | 6.0 | 5.4 6.6 | 100.0 |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003

Solid LCS Source: Environmental Express

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | |
|---------|----------------|-------|----|---------------|---------|--------|-------------|
| | True | Found | %R | True | Found C | Limits | %R |
| Mercury | | | | 0.1 | 0.1 | 0.1 | 0.1 100.0 |
| Cyanide | | | | 6.0 | 5.9 | 5.4 | 6.6 98.3 |

USEPA - CLP

9
ICP SERIAL DILUTIONS

SAMPLE NO.

BLUEADSSS19 (0.5) L

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVT Case No.: 23046SAS No.: _____ SDG No.: GCS003Matrix (soil/water): SOILLevel (low/med): LOW

Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | | Serial Dilution Result (S) | | % Difference | Q | M |
|-----------|---------------------------|---|----------------------------|---|--------------|---|---|
| | | C | | C | | | |
| Aluminum | 63100.00 | | 69340.00 | | 9.9 | | P |
| Antimony | 119.50 | | 162.20 | B | 35.7 | | P |
| Arsenic | 418.50 | | 467.50 | | 11.7 | E | P |
| Barium | 336.90 | | 362.90 | B | 7.7 | | P |
| Beryllium | 2.15 | B | 3.38 | B | 57.2 | | P |
| Cadmium | 0.30 | U | 1.50 | U | | | P |
| Calcium | 223.20 | U | 1116.00 | U | | | P |
| Chromium | 160.70 | | 180.40 | | 12.3 | E | P |
| Cobalt | 181.00 | | 194.30 | B | 7.3 | | P |
| Copper | 856.60 | | 895.50 | | 4.5 | | P |
| Iron | 3181000.00 | | 3124000.00 | | 1.8 | | P |
| Lead | 186.30 | | 209.90 | | 12.7 | E | P |
| Magnesium | 12600.00 | | 14480.00 | B | 14.9 | E | P |
| Manganese | 2649.00 | | 3003.00 | | 13.4 | E | P |
| Nickel | 240.70 | | 265.00 | | 10.1 | E | P |
| Potassium | 12700.00 | | 14380.00 | B | 13.2 | E | P |
| Selenium | 146.70 | | 123.70 | | 15.7 | E | P |
| Silver | 5.60 | B | 8.38 | B | 49.6 | | P |
| Sodium | 1300.00 | B | 1094.00 | U | 100.0 | | P |
| Thallium | 177.40 | | 192.30 | | 8.4 | | P |
| Vanadium | 132.50 | | 156.30 | B | 18.0 | E | P |
| Zinc | 707.90 | | 804.80 | | 13.7 | E | P |

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003ICP ID Number: _____ Date: 7/1/2003Flame AA ID Number: Lachat Cyanide

Furnace AA ID Number: _____

| Analyte | Wave-length (nm) | Back-ground | CRDL (ug/L) | IDL (ug/L) | M |
|---------|------------------|-------------|-------------|------------|----|
| Cyanide | | | 10 | 10.0 | AS |

Comments: _____

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003ICP ID Number: _____ Date: 7/1/2003Flame 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: _____

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003ICP ID Number: TJA ICAP 5 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 |
|---------|------------------|-------------|-------------|------------|---|
| Iron | 271.441 | | 100 | 66.7 | P |

Comments: _____

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003ICP ID Number: TJA ICAP 6 Date: 7/1/2003

Flame AA ID Number: _____

Furnace AA ID Number: _____

| Analyte | Wave-length (nm) | Back-ground | CRDL _i (ug/L) | IDL (ug/L) | M |
|-----------|------------------|-------------|--------------------------|------------|---|
| Aluminum | 308.215 | | 200 | 18.3 | P |
| Antimony | 206.838 | | 60 | 3.8 | P |
| Arsenic | 189.042 | | 10 | 2.4 | P |
| Barium | 493.409 | | 200 | 7.3 | P |
| Beryllium | 313.042 | | 5 | 0.2 | P |
| Cadmium | 226.502 | | 5 | 0.3 | P |
| Calcium | 317.933 | | 5000 | 223.2 | P |
| Chromium | 267.716 | | 10 | 0.6 | P |
| Cobalt | 228.616 | | 50 | 1.8 | P |
| Copper | 324.754 | | 25 | 1.4 | P |
| Iron | 271.441 | | 100 | 16.8 | P |
| Lead | 220.353 | | 3 | 1.5 | P |
| Magnesium | 279.079 | | 5000 | 181.7 | P |
| Manganese | 257.610 | | 15 | 0.7 | P |
| Nickel | 231.604 | | 40 | 2.0 | P |
| Potassium | 766.491 | | 5000 | 250.0 | P |
| Selenium | 196.026 | | 5 | 1.7 | P |
| Silver | 328.068 | | 10 | 0.9 | P |
| Sodium | 330.232 | | 5000 | 218.8 | P |
| Thallium | 190.864 | | 10 | 2.8 | P |
| Vanadium | 292.402 | | 50 | 2.2 | P |
| Zinc | 206.200 | | 20 | 5.7 | P |

Comments: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003

ICP ID Number: TJA ICAP 5 Date: 10/2/2002

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | | |
|------------|------------------|--------------------------------------|----------|------------|-----------|----------|
| | | Al | Ca | Fe | Mg | Ag |
| Aluminum | 308.22 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Antimony | 206.84 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Arsenic | 189.04 | 0.000000 | 0.000000 | 0.0000050 | 0.000000 | 0.000000 |
| Barium | 493.41 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Beryllium | 313.04 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Cadmium | 226.50 | 0.0000070 | 0.000000 | 0.0000830 | 0.000000 | 0.000000 |
| Calcium | 317.93 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Chromium | 267.72 | 0.0000290 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Cobalt | 228.61 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Copper | 324.75 | 0.000000 | 0.000000 | 0.0000060 | 0.000000 | 0.000000 |
| Iron | 271.44 | 0.0001300 | 0.000000 | 0.000000 | -0.000400 | 0.000000 |
| Lead | 220.35 | 0.0008600 | 0.000000 | 0.0000920 | -0.000008 | 0.000000 |
| Magnesium | 279.08 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Manganese | 294.92 | 0.000000 | 0.000000 | 0.0006580 | 0.0000180 | 0.000000 |
| Molybdenum | 202.03 | 0.000000 | 0.000000 | 0.0000260 | 0.000000 | 0.000000 |
| Nickel | 231.60 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Phosphorus | 178.29 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Potassium | 766.49 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Selenium | 196.03 | 0.0000100 | 0.000000 | -0.0001300 | -0.000010 | 0.000000 |
| Silver | 328.07 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Sodium | 330.23 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Strontium | 421.55 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Thallium | 190.86 | -0.0000090 | 0.000000 | -0.0004350 | 0.000000 | 0.000000 |
| Titanium | 334.94 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Vanadium | 292.40 | 0.000000 | 0.000000 | -0.0003250 | 0.000000 | 0.000000 |
| Zinc | 213.85 | 0.000000 | 0.000000 | 0.0000800 | 0.0000390 | 0.000000 |

Comments: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003
 ICP ID Number: TJA ICAP 5 Date: 10/2/2002

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | | |
|------------|------------------|--------------------------------------|-----------|-----------|-----------|------------|
| | | As | B | Be | Cd | Co |
| Aluminum | 308.22 | 0.0026340 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Antimony | 206.84 | 0.0002400 | 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 | 0.0000000 | 0.0000000 |
| Cadmium | 226.50 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000840 |
| 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 | 228.61 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper | 324.75 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000610 |
| Iron | 271.44 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0840960 |
| Lead | 220.35 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0026440 |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 294.92 | 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 | 0.0022990 |
| Phosphorus | 178.29 | 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 | 0.0000000 | 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 |
| Strontium | 421.55 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.86 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0018110 |
| Titanium | 334.94 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0002200 |
| Vanadium | 292.40 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc | 213.85 | 0.0000000 | 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.: GCS003

ICP ID Number: TJA ICAP 5 Date: 10/2/2002

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | | |
|------------|------------------|--------------------------------------|------------|-----------|-----------|-----------|
| | | Cr | Cu | Mn | Na | Ni |
| Aluminum | 308.22 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Antimony | 206.84 | 0.0087280 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Arsenic | 189.04 | -0.0088830 | 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 | 0.0000000 | 0.0000000 |
| Cadmium | 226.50 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0001070 |
| 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 | 228.61 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| 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 | -0.0000530 | -0.0000340 | 0.0000000 | 0.0000000 | 0.0000000 |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 294.92 | -0.0015990 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Molybdenum | 202.03 | 0.0004700 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Nickel | 231.60 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Phosphorus | 178.29 | 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 | 0.0000000 | 0.0000000 | 0.0000000 |
| Silver | 328.07 | -0.0000990 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Sodium | 330.23 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Strontium | 421.55 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.86 | 0.0002810 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Titanium | 334.94 | 0.0002200 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Vanadium | 292.40 | -0.0020840 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc | 213.85 | 0.0000000 | 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.: GCS003
 ICP ID Number: TJA ICAP 5 Date: 10/2/2002

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | | |
|------------|------------------|--------------------------------------|------------|----------|----------|-----------|
| | | Pb | Sb | Se | Si | Tl |
| Aluminum | 308.22 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Antimony | 206.84 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Arsenic | 189.04 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Barium | 493.41 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Beryllium | 313.04 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Cadmium | 226.50 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Calcium | 317.93 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Chromium | 267.72 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Cobalt | 228.61 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Copper | 324.75 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Iron | 271.44 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Lead | 220.35 | 0.000000 | -0.0001650 | 0.000000 | 0.000000 | 0.000000 |
| Magnesium | 279.08 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Manganese | 294.92 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Molybdenum | 202.03 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Nickel | 231.60 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0005120 |
| Phosphorus | 178.29 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Potassium | 766.49 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Selenium | 196.03 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000650 |
| Silver | 328.07 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Sodium | 330.23 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Strontium | 421.55 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Thallium | 190.86 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Titanium | 334.94 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Vanadium | 292.40 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Zinc | 213.85 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

Comments: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003

ICP ID Number: TJA ICAP 5 Date: 10/2/2002

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | |
|------------|------------------|--------------------------------------|-----------|--|--|
| | | V | Zn | | |
| Aluminum | 308.22 | -0.0084630 | 0.0000000 | | |
| Antimony | 206.84 | -0.0060220 | 0.0000000 | | |
| Arsenic | 189.04 | 0.0000000 | 0.0000000 | | |
| Barium | 493.41 | 0.0000000 | 0.0000000 | | |
| Beryllium | 313.04 | 0.0009440 | 0.0000000 | | |
| Cadmium | 226.50 | 0.0000000 | 0.0000000 | | |
| Calcium | 317.93 | 0.0000000 | 0.0000000 | | |
| Chromium | 267.72 | -0.0001950 | 0.0000000 | | |
| Cobalt | 228.61 | 0.0000000 | 0.0000000 | | |
| Copper | 324.75 | 0.0000000 | 0.0000000 | | |
| Iron | 271.44 | 0.0124990 | 0.0000000 | | |
| Lead | 220.35 | 0.0000000 | 0.0000000 | | |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | | |
| Manganese | 294.92 | 0.0078880 | 0.0000000 | | |
| Molybdenum | 202.03 | -0.0000010 | 0.0000000 | | |
| Nickel | 231.60 | 0.0000000 | 0.0000000 | | |
| Phosphorus | 178.29 | 0.0000000 | 0.0000000 | | |
| Potassium | 766.49 | 0.0000000 | 0.0000000 | | |
| Selenium | 196.03 | 0.0000920 | 0.0000000 | | |
| Silver | 328.07 | 0.0000910 | 0.0000000 | | |
| Sodium | 330.23 | 0.0000000 | 0.0593250 | | |
| Strontium | 421.55 | 0.0000000 | 0.0000000 | | |
| Thallium | 190.86 | -0.0011100 | 0.0000000 | | |
| Titanium | 334.94 | 0.0000000 | 0.0000000 | | |
| Vanadium | 292.40 | 0.0000000 | 0.0000000 | | |
| Zinc | 213.85 | -0.0000350 | 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.: GCS003
 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: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003
 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 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Antimony | 206.838 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Arsenic | 189.042 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Barium | 493.409 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Beryllium | 313.042 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Boron | 249.678 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Cadmium | 226.502 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Calcium | 317.933 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Chromium | 267.716 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Cobalt | 228.616 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Copper | 324.754 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Iron | 271.441 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | -0.0082960 |
| Lead | 220.353 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Magnesium | 279.079 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Manganese | 257.610 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Molybdenum | 202.030 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Nickel | 231.604 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Phosphorus | 178.287 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Potassium | 766.491 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Selenium | 196.026 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | -0.0001900 |
| Silver | 328.068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Sodium | 330.232 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Strontium | 421.552 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Thallium | 190.864 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0002350 |
| Tin | 189.989 | 0.000000 | 0.000000 | -0.0004370 | 0.000000 | 0.000000 |
| Titanium | 334.941 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Vanadium | 292.402 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Zinc | 206.200 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

Comments: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003
 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.: GCS003

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 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Antimony | 206.838 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Arsenic | 189.042 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Barium | 493.409 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Beryllium | 313.042 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Boron | 249.678 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Cadmium | 226.502 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Calcium | 317.933 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Chromium | 267.716 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Cobalt | 228.616 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Copper | 324.754 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Iron | 271.441 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Lead | 220.353 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Magnesium | 279.079 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Manganese | 257.610 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Molybdenum | 202.030 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Nickel | 231.604 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Phosphorus | 178.287 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Potassium | 766.491 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Selenium | 196.026 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Silver | 328.068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Sodium | 330.232 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Strontium | 421.552 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Thallium | 190.864 | -0.000350 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Tin | 189.989 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Titanium | 334.941 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Vanadium | 292.402 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Zinc | 206.200 | 0.000390 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

Comments: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003

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: _____

ICP LINEAR RANGES (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003ICP ID Number: TJA ICAP 5 Date: 7/1/2003

| Analyte | Integ. Time (Sec.) | Concentration (ug/L) | M |
|---------|--------------------------|-------------------------|---|
| Iron | 10.00 | 1000000.0 | P |

Comments: _____

ICP LINEAR RANGES (QUARTERLY)

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCS003ICP ID Number: TJA ICAP 6Date: 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 | 100000.0 | P |
| Iron | 10.00 | 1000000.0 | P |
| Lead | 10.00 | 50000.0 | P |
| Magnesium | 10.00 | 600000.0 | P |
| Manganese | 10.00 | 10000.0 | P |
| Nickel | 10.00 | 50000.0 | P |
| Potassium | 10.00 | 100000.0 | P |
| Selenium | 10.00 | 5000.0 | 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 | 10000.0 | P |

Comments: _____

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003Method: AS

| EPA Sample No. | Preparation Date | Initial Weight (σ) | Volume (mL) |
|-------------------|---------------------|--------------------------------|----------------|
| BLUEADSSS19 (0.5) | 8/1/2003 | 1.01 | 50.0 |
| BLUETASSS23 (0.2) | 8/1/2003 | 1.01 | 50.0 |
| BLUETASSS27 (0.5) | 8/1/2003 | 1.01 | 50.0 |
| BLUETASUS24 (1.0) | 8/1/2003 | 1.03 | 50.0 |
| BLUEWPSUS20 (2.5) | 8/1/2003 | 1.00 | 50.0 |
| BLUEWPSUS21 (1.5) | 8/1/2003 | 1.31 | 50.0 |
| BLUEWPSUS22 (1.5) | 8/1/2003 | 1.06 | 50.0 |
| BLUEWPSUS29 (1.0) | 8/1/2003 | 1.01 | 50.0 |
| ICV | 8/1/2003 | 50.0 | 50.0 |
| LCS0801A | 8/1/2003 | 1.00 | 50.0 |
| LCSD0801A | 8/1/2003 | 1.00 | 50.0 |
| PBS0801A | 8/1/2003 | 1.02 | 50.0 |

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003Method: CV

| EPA Sample No. | Preparation Date | Initial Weight (α) | Volume (mL) |
|-------------------|---------------------|--------------------------------|----------------|
| BLUEADSSS19 (0.5) | 8/13/2003 | 0.64 | 100.0 |
| BLUETASSS23 (0.2) | 8/13/2003 | 0.62 | 100.0 |
| BLUETASSS27 (0.5) | 8/13/2003 | 0.64 | 100.0 |
| BLUETASUS24 (1.0) | 8/13/2003 | 0.65 | 100.0 |
| BLUEWPSUS20 (2.5) | 8/13/2003 | 0.63 | 100.0 |
| BLUEWPSUS21 (1.5) | 8/13/2003 | 0.61 | 100.0 |
| BLUEWPSUS22 (1.5) | 8/13/2003 | 0.68 | 100.0 |
| BLUEWPSUS29 (1.0) | 8/13/2003 | 0.63 | 100.0 |
| LCSDS0813A | 8/13/2003 | 1.00 | 100.0 |
| LCSS0813A | 8/13/2003 | 1.00 | 100.0 |
| PBS0813A | 8/13/2003 | 0.60 | 100.0 |

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003Method: P

| EPA Sample No. | Preparation Date | Initial Weight (g) | Volume (mL) |
|-------------------|---------------------|-----------------------|----------------|
| BLUEADSSS19(0.5) | 8/17/2003 | 1.30 | 100.0 |
| BLUETASSS23(0.2) | 8/17/2003 | 1.36 | 100.0 |
| BLUETASSS27(0.5) | 8/17/2003 | 1.16 | 100.0 |
| BLUETASUS24(1.0) | 8/17/2003 | 1.12 | 100.0 |
| BLUEWPSUS20(2.5) | 8/17/2003 | 1.23 | 100.0 |
| BLUEWPSUS21(1.5) | 8/17/2003 | 1.38 | 100.0 |
| BLUEWPSUS22(1.5) | 8/17/2003 | 1.31 | 100.0 |
| BLUEWPSUS29(1.0) | 8/17/2003 | 1.15 | 100.0 |
| LCSS0817A | 8/17/2003 | 1.00 | 100.0 |
| PBS0817A | 8/17/2003 | 1.00 | 100.0 |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003
 Instrument ID Number: Lachat Cyanide QC8000 Method: AS
 Start Date: 8/1/2003 End Date: 8/1/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|---|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V L | Z N | C N | | | | |
| S0 | 1.00 | 1352 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S10 | 1.00 | 1353 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S30 | 1.00 | 1354 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S50 | 1.00 | 1355 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S100 | 1.00 | 1356 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S200 | 1.00 | 1357 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S300 | 1.00 | 1358 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ICV | 1.00 | 1400 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ICB | 1.00 | 1401 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LRS | 1.00 | 1402 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LRS | 1.00 | 1403 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCV | 1.00 | 1404 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1405 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZ | 1.00 | 1406 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PBS0801A | 1.00 | 1407 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LCS0801A | 1.00 | 1408 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LCSD0801A | 1.00 | 1409 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZ | 1.00 | 1410 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1411 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1412 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1413 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1414 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1414 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1415 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1416 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZ | 1.00 | 1417 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1418 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1419 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1420 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLUEADSSS19(0.5) | 1.00 | 1421 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLUEWPSUS22(1.5) | 1.00 | 1422 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLUETASSS23(0.2) | 1.00 | 1423 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLUETASSS27(0.5) | 1.00 | 1424 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLUETASUS24(1.0) | 1.00 | 1425 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLUEWPSUS29(1.0) | 1.00 | 1426 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCV | 1.00 | 1427 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1428 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLUEWPSUS20(2.5) | 1.00 | 1429 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003
 Instrument ID Number: Lachat Cyanide QC8000 Method: AS
 Start Date: 8/1/2003 End Date: 8/1/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K I | S E | A G | N A | T L | V L | Z N | C N | | | | |
| BLUEWPSUS21 (1.5) | 1.00 | 1430 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| ZZZZZZ | 1.00 | 1431 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1432 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1433 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| CCB | 1.00 | 1434 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003
 Instrument ID Number: TJA ICAP 6 Method: P
 Start Date: 9/17/2003 End Date: 9/17/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V L | Z N | C N | | |
| S0 | 1.00 | 1348 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| S | 1.00 | 1352 | | X | | | | | X | | | | X | X | | | | | X | | X | | | | | | | | |
| S | 1.00 | 1356 | | | X | X | | | | | | | X | | | | | | X | | X | | | | | | | | |
| S | 1.00 | 1400 | | | | | X | X | X | | X | X | X | | X | X | | X | X | | X | | | X | X | | | | |
| LRS | 1.00 | 1404 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| LRS | 1.00 | 1408 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| LRS | 1.00 | 1413 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| ICV | 1.00 | 1417 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| ICB | 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 | X | X | | |
| ICSA | 1.00 | 1425 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| ICSAB | 1.00 | 1429 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CRI | 1.00 | 1433 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CCV | 1.00 | 1438 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CCB | 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 | X | X | | |
| PBS0817A | 1.00 | 1446 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| LCSS0817A | 1.00 | 1450 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLUEADSSS19(0.5) | 1.00 | 1454 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLUEADSSS19(0.5)L | 5.00 | 1458 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLUEWPSUS22(1.5) | 1.00 | 1502 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLUETASSS23(0.2) | 1.00 | 1506 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLUETASSS27(0.5) | 1.00 | 1510 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLUETASUS24(1.0) | 1.00 | 1514 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLUEWPSUS29(1.0) | 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 | X | X | | |
| BLUEWPSUS20(2.5) | 1.00 | 1522 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CCV | 1.00 | 1526 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CCB | 1.00 | 1530 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLUEWPSUS21(1.5) | 1.00 | 1535 | | X | X | 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 | 1539 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1543 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1547 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 5.00 | 1551 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1555 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1559 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1603 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1607 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1611 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1615 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CCB | 1.00 | 1619 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003
 Instrument ID Number: TJA ICAP 6 Method: P
 Start Date: 9/17/2003 End Date: 9/17/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|---|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V L | Z N | C N | | | | |
| ZZZZZZ | 1.00 | 1623 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1628 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1632 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1636 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1640 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ICSA | 1.00 | 1644 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| ICSAB | 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 | X | X | X | X | | |
| CRI | 1.00 | 1652 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CCV | 1.00 | 1656 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CCB | 1.00 | 1700 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003
 Instrument ID Number: TJA ICAP 6 Method: P
 Start Date: 9/17/2003 End Date: 9/18/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|-------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V L | Z N | C N |
| ZZZZZZ | 1.00 | 0043 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0047 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0051 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 10.00 | 0056 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0100 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0104 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0108 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0112 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0116 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0120 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 0124 | | | | | | | | | | | X | | | X | | | | | | | | | | | |
| CCB | 1.00 | 0128 | | | | | | | | | | | X | | | X | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0132 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0136 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0140 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0144 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ICSA | 1.00 | 0148 | | | | | | | | | | | X | | | X | | | | | | | | | | | |
| ICSAB | 1.00 | 0153 | | | | | | | | | | | X | | | X | | | | | | | | | | | |
| CRI | 1.00 | 0157 | | | | | | | | | | | X | | | X | | | | | | | | | | | |
| CCV | 1.00 | 0201 | | | | | | | | | | | X | | | X | | | | | | | | | | | |
| CCB | 1.00 | 0205 | | | | | | | | | | | X | | | X | | | | | | | | | | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003
 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 | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C F | F U | P E | M B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V L | Z N | C N |
| S0 | 1.00 | 1447 | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| S0.2 | 1.00 | 1449 | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| S0.5 | 1.00 | 1451 | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| S1 | 1.00 | 1453 | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| S5 | 1.00 | 1454 | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| S10 | 1.00 | 1456 | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| ICV | 1.00 | 1458 | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| ICB | 1.00 | 1500 | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| CRA | 1.00 | 1501 | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| CCV | 1.00 | 1503 | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| CCB | 1.00 | 1505 | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| PBS0813A | 1.00 | 1507 | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| LCSS0813A | 1.00 | 1508 | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| LCSDS0813A | 1.00 | 1510 | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1512 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1514 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1516 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1518 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1519 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1521 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1523 | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| CCB | 1.00 | 1525 | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| BLUEADSSS19 (0.5) | 1.00 | 1527 | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| BLUEWPSUS22 (1.5) | 1.00 | 1528 | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| BLUETASSS23 (0.2) | 1.00 | 1530 | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| BLUETASSS27 (0.5) | 1.00 | 1532 | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| BLUETASUS24 (1.0) | 1.00 | 1534 | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| BLUEWPSUS29 (1.0) | 1.00 | 1535 | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| BLUEWPSUS20 (2.5) | 1.00 | 1537 | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| BLUEWPSUS21 (1.5) | 1.00 | 1539 | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1541 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1543 | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| CCB | 1.00 | 1545 | | | | | | | | | | | | | | | | X | | | | | | | | | | |



**Sample Data Summary Package
For Metals**

USEPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL BURLINGTON Contract: 23046
Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLP
SOW No.: ILM04.1

| EPA Sample No. | Lab Sample ID. |
|-------------------------------|----------------|
| <u>BLUEADSSS19 (0.5) SPLP</u> | <u>535824</u> |
| <u>BLUETASSS27 (0.5) SPLP</u> | <u>535830</u> |
| <u>BLUEWPSUS20 (2.5) SPLP</u> | <u>535835</u> |
| <u>BLUEWPSUS21 (1.5) SPLP</u> | <u>535837</u> |
| <u>BLUEWPSUS22 (1.5) SPLP</u> | <u>535826</u> |
| <u>BLUEWPSUS29 (1.0) SPLP</u> | <u>535833</u> |

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: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUEADSSS19(0.5) SPLP

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLP
 Matrix (soil/water): SPLP EXT Lab Sample ID: 535824
 Level (low/med): LOW Date Received: 7/24/2003
 % 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 | 471 | | | P |
| 7440-36-0 | Antimony | 3.8 | U | | P |
| 7440-38-2 | Arsenic | 2.4 | U | | P |
| 7440-39-3 | Barium | 25.4 | B | | P |
| 7440-41-7 | Beryllium | 0.37 | B | | P |
| 7440-43-9 | Cadmium | 1.2 | B | | P |
| 7440-70-2 | Calcium | 1510 | B | | P |
| 7440-47-3 | Chromium | 0.60 | U | | P |
| 7440-48-4 | Cobalt | 8.5 | B | | P |
| 7440-50-8 | Copper | 7.4 | B | | P |
| 7439-89-6 | Iron | 16.8 | U | | P |
| 7439-92-1 | Lead | 6.2 | | | P |
| 7439-95-4 | Magnesium | 1160 | B | | P |
| 7439-96-5 | Manganese | 677 | | | P |
| 7439-97-6 | Mercury | 14.8 | B | | CV |
| 7440-02-0 | Nickel | 34.3 | B | | P |
| 7440-09-7 | Potassium | 1850 | B | | P |
| 7782-49-2 | Selenium | 1.8 | B | | P |
| 7440-22-4 | Silver | 0.90 | U | | P |
| 7440-23-5 | Sodium | 6580 | | | P |
| 7440-28-0 | Thallium | 2.8 | U | | P |
| 7440-62-2 | Vanadium | 2.2 | U | | P |
| 7440-66-6 | Zinc | 50.0 | | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUETASSS27 (0.5) SPLP

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLP
 Matrix (soil/water): SPLP EXT Lab Sample ID: 535830
 Level (low/med): LOW Date Received: 7/24/2003
 % 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 | 2010 | | | P |
| 7440-36-0 | Antimony | 5.1 | B | | P |
| 7440-38-2 | Arsenic | 2.4 | B | | P |
| 7440-39-3 | Barium | 30.6 | B | | P |
| 7440-41-7 | Beryllium | 0.37 | B | | P |
| 7440-43-9 | Cadmium | 0.30 | U | | P |
| 7440-70-2 | Calcium | 1160 | B | | P |
| 7440-47-3 | Chromium | 1.5 | B | | P |
| 7440-48-4 | Cobalt | 1.8 | U | | P |
| 7440-50-8 | Copper | 3.7 | B | | P |
| 7439-89-6 | Iron | 1350 | | | P |
| 7439-92-1 | Lead | 2.5 | B | | P |
| 7439-95-4 | Magnesium | 227 | B | | P |
| 7439-96-5 | Manganese | 65.5 | | | P |
| 7439-97-6 | Mercury | 10.0 | U | | CV |
| 7440-02-0 | Nickel | 2.0 | U | | P |
| 7440-09-7 | Potassium | 2280 | B | | P |
| 7782-49-2 | Selenium | 3.5 | B | | P |
| 7440-22-4 | Silver | 0.90 | U | | P |
| 7440-23-5 | Sodium | 6410 | | | P |
| 7440-28-0 | Thallium | 2.8 | U | | P |
| 7440-62-2 | Vanadium | 4.3 | B | | P |
| 7440-66-6 | Zinc | 7.6 | B | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUEWPSUS20(2.5) SPLP

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLP
 Matrix (soil/water): SPLP EXT Lab Sample ID: 535835
 Level (low/med): LOW Date Received: 7/24/2003
 % 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 | 33.2 | B | | P |
| 7440-36-0 | Antimony | 3.8 | U | | P |
| 7440-38-2 | Arsenic | 2.4 | U | | P |
| 7440-39-3 | Barium | 16.2 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.30 | U | | P |
| 7440-70-2 | Calcium | 1030 | B | | P |
| 7440-47-3 | Chromium | 0.73 | B | | P |
| 7440-48-4 | Cobalt | 1.8 | U | | P |
| 7440-50-8 | Copper | 1.4 | B | | P |
| 7439-89-6 | Iron | 16.8 | U | | P |
| 7439-92-1 | Lead | 1.5 | U | | P |
| 7439-95-4 | Magnesium | 404 | B | | P |
| 7439-96-5 | Manganese | 39.9 | | | P |
| 7439-97-6 | Mercury | 10.0 | U | | CV |
| 7440-02-0 | Nickel | 2.6 | B | | P |
| 7440-09-7 | Potassium | 2270 | B | | P |
| 7782-49-2 | Selenium | 1.7 | U | | P |
| 7440-22-4 | Silver | 0.90 | U | | P |
| 7440-23-5 | Sodium | 8380 | | | P |
| 7440-28-0 | Thallium | 2.8 | U | | P |
| 7440-62-2 | Vanadium | 2.2 | U | | P |
| 7440-66-6 | Zinc | 15.2 | B | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUEWPSUS21 (1.5) SPLP

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLP

Matrix (soil/water): SPLP EXT Lab Sample ID: 535837

Level (low/med): LOW Date Received: 7/24/2003

% 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 | 115 | B | | P |
| 7440-36-0 | Antimony | 4.3 | B | | P |
| 7440-38-2 | Arsenic | 2.4 | U | | P |
| 7440-39-3 | Barium | 36.7 | B | | P |
| 7440-41-7 | Beryllium | 0.29 | B | | P |
| 7440-43-9 | Cadmium | 0.30 | U | | P |
| 7440-70-2 | Calcium | 1760 | B | | P |
| 7440-47-3 | Chromium | 0.79 | B | | P |
| 7440-48-4 | Cobalt | 1.8 | U | | P |
| 7440-50-8 | Copper | 5.7 | B | | P |
| 7439-89-6 | Iron | 16.8 | U | | P |
| 7439-92-1 | Lead | 1.5 | U | | P |
| 7439-95-4 | Magnesium | 404 | B | | P |
| 7439-96-5 | Manganese | 103 | | | P |
| 7439-97-6 | Mercury | 10.0 | U | | CV |
| 7440-02-0 | Nickel | 3.4 | B | | P |
| 7440-09-7 | Potassium | 2740 | B | | P |
| 7782-49-2 | Selenium | 1.7 | U | | P |
| 7440-22-4 | Silver | 0.90 | U | | P |
| 7440-23-5 | Sodium | 11800 | | | P |
| 7440-28-0 | Thallium | 2.8 | U | | P |
| 7440-62-2 | Vanadium | 2.2 | U | | P |
| 7440-66-6 | Zinc | 37.6 | | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUEWPSUS22 (1.5) SPLP

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLP
 Matrix (soil/water): SPLP EXT Lab Sample ID: 535826
 Level (low/med): LOW Date Received: 7/24/2003
 % 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 | 261 | | | P |
| 7440-36-0 | Antimony | 3.8 | U | | P |
| 7440-38-2 | Arsenic | 5.4 | B | | P |
| 7440-39-3 | Barium | 33.3 | B | | P |
| 7440-41-7 | Beryllium | 0.62 | B | | P |
| 7440-43-9 | Cadmium | 0.30 | U | | P |
| 7440-70-2 | Calcium | 955 | B | | P |
| 7440-47-3 | Chromium | 0.83 | B | | P |
| 7440-48-4 | Cobalt | 1.8 | U | | P |
| 7440-50-8 | Copper | 18.6 | B | | P |
| 7439-89-6 | Iron | 296 | | | P |
| 7439-92-1 | Lead | 11.8 | | | P |
| 7439-95-4 | Magnesium | 321 | B | | P |
| 7439-96-5 | Manganese | 84.8 | | | P |
| 7439-97-6 | Mercury | 10.0 | U | | CV |
| 7440-02-0 | Nickel | 4.0 | B | | P |
| 7440-09-7 | Potassium | 1720 | B | | P |
| 7782-49-2 | Selenium | 2.8 | B | | P |
| 7440-22-4 | Silver | 0.90 | U | | P |
| 7440-23-5 | Sodium | 6840 | | | P |
| 7440-28-0 | Thallium | 2.8 | U | | P |
| 7440-62-2 | Vanadium | 2.2 | U | | P |
| 7440-66-6 | Zinc | 48.4 | | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUEWPSUS29 (1.0) SPLP

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLP
 Matrix (soil/water): SPLP EXT Lab Sample ID: 535833
 Level (low/med): LOW Date Received: 7/24/2003
 % 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 | 18.3 | U | | P |
| 7440-36-0 | Antimony | 3.8 | U | | P |
| 7440-38-2 | Arsenic | 2.4 | U | | P |
| 7440-39-3 | Barium | 32.1 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.30 | U | | P |
| 7440-70-2 | Calcium | 970 | B | | P |
| 7440-47-3 | Chromium | 1.3 | B | | P |
| 7440-48-4 | Cobalt | 1.8 | U | | P |
| 7440-50-8 | Copper | 1.4 | U | | P |
| 7439-89-6 | Iron | 16.8 | U | | P |
| 7439-92-1 | Lead | 1.5 | U | | P |
| 7439-95-4 | Magnesium | 182 | U | | P |
| 7439-96-5 | Manganese | 63.1 | | | P |
| 7439-97-6 | Mercury | 10.0 | U | | CV |
| 7440-02-0 | Nickel | 5.0 | B | | P |
| 7440-09-7 | Potassium | 673 | B | | P |
| 7782-49-2 | Selenium | 1.8 | B | | P |
| 7440-22-4 | Silver | 0.90 | U | | P |
| 7440-23-5 | Sodium | 24900 | | | P |
| 7440-28-0 | Thallium | 2.8 | U | | P |
| 7440-62-2 | Vanadium | 2.2 | U | | P |
| 7440-66-6 | Zinc | 25.9 | | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless 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.: GCS003-SPLP

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) |
| Mercury | 3.0 | 2.94 | 98.0 | 5.0 | 4.96 | 99.2 | 4.88 | 97.6 | CV |

(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.: GCS003-SPLP

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) |
| Mercury | | | | 5.0 | 4.87 | 97.4 | 4.65 | 93.0 | CV |

(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: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLPInitial Calibration Source: Inorganic Ventures/FisherContinuing 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 | 25900.00 | 99.6 | 30200.0 | 29490.00 | 97.6 | 28490.00 | 94.3 | P |
| Antimony | 250.0 | 246.60 | 98.6 | 300.0 | 302.00 | 100.7 | 293.10 | 97.7 | P |
| Arsenic | 250.0 | 246.40 | 98.6 | 100.0 | 97.85 | 97.8 | 97.31 | 97.3 | P |
| Barium | 500.0 | 492.70 | 98.5 | 200.0 | 196.50 | 98.2 | 188.10 | 94.0 | P |
| Beryllium | 500.0 | 497.90 | 99.6 | 100.0 | 97.48 | 97.5 | 94.87 | 94.9 | P |
| Cadmium | 500.0 | 485.40 | 97.1 | 100.0 | 95.86 | 95.9 | 94.34 | 94.3 | P |
| Calcium | 25000.0 | 24900.00 | 99.6 | 30200.0 | 29370.00 | 97.3 | 28630.00 | 94.8 | P |
| Chromium | 500.0 | 495.60 | 99.1 | 200.0 | 193.60 | 96.8 | 190.80 | 95.4 | P |
| Cobalt | 500.0 | 494.10 | 98.8 | 200.0 | 197.30 | 98.6 | 195.70 | 97.8 | P |
| Copper | 500.0 | 497.90 | 99.6 | 200.0 | 197.80 | 98.9 | 190.80 | 95.4 | P |
| Iron | 25500.0 | 25860.00 | 101.4 | 30200.0 | 29260.00 | 96.9 | 27780.00 | 92.0 | P |
| Lead | 1000.0 | 992.40 | 99.2 | 400.0 | 391.70 | 97.9 | 383.10 | 95.8 | P |
| Magnesium | 25000.0 | 24900.00 | 99.6 | 30200.0 | 29240.00 | 96.8 | 28570.00 | 94.6 | P |
| Manganese | 500.0 | 488.00 | 97.6 | 200.0 | 193.40 | 96.7 | 189.20 | 94.6 | P |
| Nickel | 500.0 | 492.00 | 98.4 | 200.0 | 194.60 | 97.3 | 190.80 | 95.4 | P |
| Potassium | 25000.0 | 26010.00 | 104.0 | 30200.0 | 30660.00 | 101.5 | 29890.00 | 99.0 | P |
| Selenium | 250.0 | 245.10 | 98.0 | 100.0 | 103.20 | 103.2 | 97.95 | 98.0 | P |
| Silver | 500.0 | 495.70 | 99.1 | 100.0 | 98.00 | 98.0 | 97.36 | 97.4 | P |
| Sodium | 25000.0 | 25150.00 | 100.6 | 30200.0 | 29200.00 | 96.7 | 28960.00 | 95.9 | P |
| Thallium | 250.0 | 238.60 | 95.4 | 100.0 | 95.46 | 95.5 | 95.92 | 95.9 | P |
| Vanadium | 500.0 | 490.10 | 98.0 | 200.0 | 193.10 | 96.6 | 189.20 | 94.6 | P |
| Zinc | 500.0 | 488.20 | 97.6 | 200.0 | 190.80 | 95.4 | 185.30 | 92.6 | 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: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLPInitial Calibration Source: Inorganic Ventures/FisherContinuing 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 | 29140.00 | 96.5 | 30820.00 | 102.1 | P |
| Antimony | | | | 300.0 | 297.70 | 99.2 | 317.30 | 105.8 | P |
| Arsenic | | | | 100.0 | 98.98 | 99.0 | 104.80 | 104.8 | P |
| Barium | | | | 200.0 | 193.20 | 96.6 | 204.90 | 102.4 | P |
| Beryllium | | | | 100.0 | 94.71 | 94.7 | 100.10 | 100.1 | P |
| Cadmium | | | | 100.0 | 95.27 | 95.3 | 101.40 | 101.4 | P |
| Calcium | | | | 30200.0 | 28850.00 | 95.5 | 30740.00 | 101.8 | P |
| Chromium | | | | 200.0 | 192.90 | 96.4 | 204.90 | 102.4 | P |
| Cobalt | | | | 200.0 | 200.20 | 100.1 | 212.60 | 106.3 | P |
| Copper | | | | 200.0 | 196.10 | 98.0 | 206.40 | 103.2 | P |
| Iron | | | | 30200.0 | 27050.00 | 89.6 | 28830.00 | 95.5 | P |
| Lead | | | | 400.0 | 393.10 | 98.3 | 417.60 | 104.4 | P |
| Magnesium | | | | 30200.0 | 28860.00 | 95.6 | 30720.00 | 101.7 | P |
| Manganese | | | | 200.0 | 191.00 | 95.5 | 202.20 | 101.1 | P |
| Nickel | | | | 200.0 | 192.80 | 96.4 | 204.90 | 102.4 | P |
| Potassium | | | | 30200.0 | 31070.00 | 102.9 | 32490.00 | 107.6 | P |
| Selenium | | | | 100.0 | 98.90 | 98.9 | 103.70 | 103.7 | P |
| Silver | | | | 100.0 | 100.50 | 100.5 | 105.50 | 105.5 | P |
| Sodium | | | | 30200.0 | 30170.00 | 99.9 | 31490.00 | 104.3 | P |
| Thallium | | | | 100.0 | 101.00 | 101.0 | 104.00 | 104.0 | P |
| Vanadium | | | | 200.0 | 193.20 | 96.6 | 204.80 | 102.4 | P |
| Zinc | | | | 200.0 | 183.40 | 91.7 | 194.50 | 97.2 | 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.: GCS003-SPLP

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 | 26200.00 | 100.8 | 30200.0 | 29670.00 | 98.2 | 29500.00 | 97.7 | P |
| Antimony | 250.0 | 258.60 | 103.4 | 300.0 | 305.20 | 101.7 | 306.60 | 102.2 | P |
| Arsenic | 250.0 | 258.80 | 103.5 | 100.0 | 99.75 | 99.8 | 96.69 | 96.7 | P |
| Barium | 500.0 | 500.70 | 100.1 | 200.0 | 198.40 | 99.2 | 197.60 | 98.8 | P |
| Beryllium | 500.0 | 515.00 | 103.0 | 100.0 | 99.07 | 99.1 | 98.55 | 98.6 | P |
| Cadmium | 500.0 | 496.70 | 99.3 | 100.0 | 96.77 | 96.8 | 94.97 | 95.0 | P |
| Calcium | 25000.0 | 25120.00 | 100.5 | 30200.0 | 29600.00 | 98.0 | 29300.00 | 97.0 | P |
| Chromium | 500.0 | 507.20 | 101.4 | 200.0 | 196.40 | 98.2 | 194.50 | 97.2 | P |
| Cobalt | 500.0 | 499.90 | 100.0 | 200.0 | 196.10 | 98.0 | 194.10 | 97.0 | P |
| Copper | 500.0 | 508.40 | 101.7 | 200.0 | 199.30 | 99.6 | 198.80 | 99.4 | P |
| Iron | 25500.0 | 26390.00 | 103.5 | 30200.0 | 29960.00 | 99.2 | 29710.00 | 98.4 | P |
| Magnesium | 25000.0 | 25540.00 | 102.2 | 30200.0 | 29750.00 | 98.5 | 29520.00 | 97.7 | P |
| Manganese | 500.0 | 502.20 | 100.4 | 200.0 | 200.50 | 100.2 | 198.50 | 99.2 | P |
| Nickel | 500.0 | 502.70 | 100.5 | 200.0 | 194.70 | 97.4 | 191.70 | 95.8 | P |
| Potassium | 25000.0 | 25150.00 | 100.6 | 30200.0 | 30020.00 | 99.4 | 29870.00 | 98.9 | P |
| Silver | 500.0 | 504.20 | 100.8 | 100.0 | 98.89 | 98.9 | 100.30 | 100.3 | P |
| Sodium | 25000.0 | 25490.00 | 102.0 | 30200.0 | 29180.00 | 96.6 | 29750.00 | 98.5 | P |
| Vanadium | 500.0 | 505.30 | 101.1 | 200.0 | 198.10 | 99.0 | 195.20 | 97.6 | P |
| Zinc | 500.0 | 500.00 | 100.0 | 200.0 | 195.70 | 97.8 | 193.30 | 96.6 | 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.: GCS003-SPLP

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 | 30580.00 | 101.3 | | | P |
| Antimony | | | | 300.0 | 318.60 | 106.2 | | | P |
| Arsenic | | | | 100.0 | 98.64 | 98.6 | | | P |
| Barium | | | | 200.0 | 205.20 | 102.6 | | | P |
| Beryllium | | | | 100.0 | 101.90 | 101.9 | | | P |
| Cadmium | | | | 100.0 | 98.11 | 98.1 | | | P |
| Calcium | | | | 30200.0 | 30290.00 | 100.3 | | | P |
| Chromium | | | | 200.0 | 200.80 | 100.4 | | | P |
| Cobalt | | | | 200.0 | 199.30 | 99.6 | | | P |
| Copper | | | | 200.0 | 205.90 | 103.0 | | | P |
| Iron | | | | 30200.0 | 30690.00 | 101.6 | | | P |
| Magnesium | | | | 30200.0 | 30280.00 | 100.3 | | | P |
| Manganese | | | | 200.0 | 205.00 | 102.5 | | | P |
| Nickel | | | | 200.0 | 196.30 | 98.2 | | | P |
| Potassium | | | | 30200.0 | 30760.00 | 101.9 | | | P |
| Silver | | | | 100.0 | 103.50 | 103.5 | | | P |
| Sodium | | | | 30200.0 | 30440.00 | 100.8 | | | P |
| Vanadium | | | | 200.0 | 201.60 | 100.8 | | | P |
| Zinc | | | | 200.0 | 199.50 | 99.8 | | | 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.: GCS003-SPLP

AA CRDL Standard Source: Inorganic Ventures

ICP CRDL Standard Source: Inorganic Ventures

Concentration Units: ug/L

| Analyte | CRDL Standard for ICP | | | CRDL Standard for ICP | | | | |
|---------|-----------------------|-------|-------|-----------------------|------------------|---------------|----------------|-------------|
| | True | Found | %R | Initial True | Initial Found | Initial %R | Final Found | Final %R |
| Mercury | 0.2 | 0.20 | 100.0 | | | | | |

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 BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCS003-SPLPAA CRDL Standard Source: Inorganic VenturesICP CRDL Standard Source: Inorganic Ventures

Concentration Units: ug/L

| Analyte | True | Found | %R | CRDL Standard for ICP | | | | |
|-----------|------|-------|----|-----------------------|----------|-------|----------|-------|
| | | | | Initial | | | Final | |
| | | | | True | Found | %R | Found | %R |
| Aluminum | | | | 400.0 | 519.90 | 130.0 | 611.50 | 152.9 |
| Antimony | | | | 120.0 | 123.10 | 102.6 | 125.30 | 104.4 |
| Arsenic | | | | 20.0 | 21.31 | 106.6 | 20.36 | 101.8 |
| Barium | | | | 400.0 | 394.00 | 98.5 | 397.60 | 99.4 |
| Beryllium | | | | 10.0 | 10.46 | 104.6 | 10.67 | 106.7 |
| Cadmium | | | | 10.0 | 10.34 | 103.4 | 10.79 | 107.9 |
| Calcium | | | | 10000.0 | 10340.00 | 103.4 | 10500.00 | 105.0 |
| Chromium | | | | 20.0 | 22.63 | 113.2 | 23.21 | 116.0 |
| Cobalt | | | | 100.0 | 98.61 | 98.6 | 102.30 | 102.3 |
| Copper | | | | 50.0 | 50.81 | 101.6 | 49.56 | 99.1 |
| Iron | | | | 200.0 | 265.10 | 132.6 | 290.30 | 145.2 |
| Lead | | | | 6.0 | 7.16 | 119.3 | 5.44 | 90.7 |
| Magnesium | | | | 10000.0 | 10200.00 | 102.0 | 10410.00 | 104.1 |
| Manganese | | | | 30.0 | 30.06 | 100.2 | 30.38 | 101.3 |
| Nickel | | | | 80.0 | 80.72 | 100.9 | 82.99 | 103.7 |
| Potassium | | | | 10000.0 | 10700.00 | 107.0 | 11090.00 | 110.9 |
| Selenium | | | | 10.0 | 13.07 | 130.7 | 13.03 | 130.3 |
| Silver | | | | 20.0 | 19.74 | 98.7 | 20.73 | 103.6 |
| Sodium | | | | 10000.0 | 10220.00 | 102.2 | 10780.00 | 107.8 |
| Thallium | | | | 20.0 | 19.19 | 96.0 | 22.81 | 114.0 |
| Vanadium | | | | 100.0 | 99.90 | 99.9 | 102.90 | 102.9 |
| Zinc | | | | 40.0 | 40.37 | 100.9 | 39.89 | 99.7 |

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 BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCS003-SPLPAA CRDL Standard Source: Inorganic VenturesICP CRDL Standard Source: Inorganic Ventures

Concentration Units: ug/L

| Analyte | True | Found | %R | CRDL Standard for ICP | | | | |
|-----------|------|-------|----|-----------------------|----------|-------|----------|-------|
| | | | | Initial | | Final | | |
| | | | | True | Found | %R | Found | %R |
| Aluminum | | | | 400.0 | 512.00 | 128.0 | 565.60 | 141.4 |
| Antimony | | | | 120.0 | 120.50 | 100.4 | 125.00 | 104.2 |
| Arsenic | | | | 20.0 | 16.20 | 81.0 | 19.09 | 95.4 |
| Barium | | | | 400.0 | 388.00 | 97.0 | 416.10 | 104.0 |
| Beryllium | | | | 10.0 | 10.07 | 100.7 | 10.72 | 107.2 |
| Cadmium | | | | 10.0 | 9.67 | 96.7 | 10.66 | 106.6 |
| Calcium | | | | 10000.0 | 9939.00 | 99.4 | 10540.00 | 105.4 |
| Chromium | | | | 20.0 | 20.60 | 103.0 | 22.73 | 113.6 |
| Cobalt | | | | 100.0 | 95.22 | 95.2 | 101.80 | 101.8 |
| Copper | | | | 50.0 | 48.43 | 96.9 | 54.35 | 108.7 |
| Iron | | | | 200.0 | 238.20 | 119.1 | 281.80 | 140.9 |
| Magnesium | | | | 10000.0 | 10030.00 | 100.3 | 10580.00 | 105.8 |
| Manganese | | | | 30.0 | 28.13 | 93.8 | 30.95 | 103.2 |
| Nickel | | | | 80.0 | 80.46 | 100.6 | 87.28 | 109.1 |
| Potassium | | | | 10000.0 | 9812.00 | 98.1 | 10470.00 | 104.7 |
| Silver | | | | 20.0 | 21.52 | 107.6 | 24.27 | 121.4 |
| Sodium | | | | 10000.0 | 10180.00 | 101.8 | 10870.00 | 108.7 |
| Vanadium | | | | 100.0 | 99.59 | 99.6 | 107.20 | 107.2 |
| Zinc | | | | 40.0 | 39.39 | 98.5 | 42.57 | 106.4 |

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.: GCS003-SPLP

Preparation Blank Matrix (soil/water): WATER *Method Blank R1P919103*

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

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|---------|-----------------------------|---|-------------------------------------|---|-----|---|------|---|-------------------|---|----|
| | C | | 1 | C | 2 | C | 3 | C | C | | |
| Mercury | 0.1 | U | 0.1 | U | 0.1 | U | -0.2 | B | 0.100 | U | CV |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLP
 Preparation Blank Matrix (soil/water): SPLP EXT SPLP blank 4/9/03
 Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M | |
|---------|-----------------------------|-------------------------------------|-----|---|---|---|---|-------------------|--------|---|----|
| | | C | 1 | C | 2 | C | 3 | C | C | | |
| Mercury | | | 0.1 | U | | | | | 10.000 | U | CV |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLP
 Preparation Blank Matrix (soil/water): WATER *Method Blank*
 Preparation Blank Concentration Units (ug/L or mg/kg): UG/L *KUP 9/19/03*

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|-----------|-----------------------------|---|-------------------------------------|---|-------|---|-------|---|-------------------|---|---|
| | C | | 1 | C | 2 | C | 3 | C | C | | |
| Aluminum | -47.3 | B | -47.4 | B | -31.6 | B | 18.3 | U | -41.570 | B | P |
| Antimony | 3.8 | U | 3.8 | U | 3.8 | U | 3.8 | U | 3.800 | U | P |
| Arsenic | 2.4 | U | 2.4 | U | 2.4 | U | 2.4 | U | 2.400 | U | P |
| Barium | 7.3 | U | 7.3 | U | 7.3 | U | 7.3 | U | 7.300 | U | P |
| Beryllium | 0.3 | B | 0.3 | B | 0.4 | B | 0.4 | B | 0.275 | B | P |
| Cadmium | 0.3 | B | 0.3 | U | 0.3 | U | 0.3 | U | 0.300 | U | P |
| Calcium | 223.2 | U | 223.2 | U | 223.2 | U | 223.2 | U | 223.200 | U | P |
| Chromium | 0.6 | U | 0.6 | U | 0.6 | U | 0.6 | U | 0.600 | U | P |
| Cobalt | 1.8 | U | 1.8 | U | 1.8 | U | 1.8 | U | 1.800 | U | P |
| Copper | 1.4 | U | 1.4 | U | 1.4 | U | -2.3 | B | 1.400 | U | P |
| Iron | -24.6 | B | 16.8 | U | 17.7 | B | 16.8 | U | 22.530 | B | P |
| Lead | 1.5 | U | 1.5 | U | 1.5 | U | 1.5 | U | 1.500 | U | P |
| Magnesium | 181.7 | U | 181.7 | U | 181.7 | U | 181.7 | U | 181.700 | U | P |
| Manganese | 0.7 | U | 0.7 | U | 0.7 | U | 0.7 | U | 0.700 | U | P |
| Nickel | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.000 | U | P |
| Potassium | 250.0 | U | 250.0 | U | 250.0 | U | 250.0 | U | 250.000 | U | P |
| Selenium | 2.1 | B | 3.0 | B | 2.0 | B | 1.7 | U | 2.031 | B | P |
| Silver | 0.9 | U | 0.9 | U | 0.9 | U | 0.9 | U | 0.900 | U | P |
| Sodium | 218.8 | U | 218.8 | U | 218.8 | U | 300.1 | B | 299.700 | B | P |
| Thallium | 2.8 | U | 2.8 | U | -3.6 | B | 2.8 | U | -4.048 | B | P |
| Vanadium | 2.2 | U | 2.2 | U | 2.2 | U | 2.2 | U | 2.200 | U | P |
| Zinc | 5.7 | U | 5.7 | U | 5.7 | U | 5.7 | U | 5.700 | U | P |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCS003-SPLPPreparation Blank Matrix (soil/water): WATER *Method blank*Preparation Blank Concentration Units (ug/L or mg/kg): *ug/L*

| Analyte | Initial Calib. Blank (ug/L) | C | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M | |
|-----------|--------------------------------------|---|--|---|---|---|---|---|----------------------|---------|---|---|
| | | | 1 | C | 2 | C | 3 | C | C | | | |
| Aluminum | | | 18.3 | U | | | | | | -30.670 | B | P |
| Antimony | | | 3.8 | U | | | | | | 3.800 | U | P |
| Arsenic | | | 2.4 | U | | | | | | 2.400 | U | P |
| Barium | | | 7.3 | U | | | | | | 7.300 | U | P |
| Beryllium | | | 0.4 | B | | | | | | 0.334 | B | P |
| Cadmium | | | 0.3 | U | | | | | | 0.300 | U | P |
| Calcium | | | 223.2 | U | | | | | | 223.200 | U | P |
| Chromium | | | 0.6 | U | | | | | | 0.600 | U | P |
| Cobalt | | | 1.8 | U | | | | | | 1.800 | U | P |
| Copper | | | -2.1 | B | | | | | | -3.335 | B | P |
| Iron | | | 16.8 | U | | | | | | -28.650 | B | P |
| Lead | | | 1.5 | U | | | | | | 1.500 | U | P |
| Magnesium | | | 181.7 | U | | | | | | 181.700 | U | P |
| Manganese | | | 0.7 | U | | | | | | 0.700 | U | P |
| Nickel | | | 2.0 | U | | | | | | 2.000 | U | P |
| Potassium | | | 250.0 | U | | | | | | 250.000 | U | P |
| Selenium | | | 1.7 | U | | | | | | 1.805 | B | P |
| Silver | | | 0.9 | U | | | | | | 0.900 | U | P |
| Sodium | | | 218.8 | U | | | | | | 412.900 | B | P |
| Thallium | | | 2.8 | U | | | | | | 2.800 | U | P |
| Vanadium | | | 2.2 | U | | | | | | 2.200 | U | P |
| Zinc | | | 5.7 | U | | | | | | 5.700 | U | P |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLP

Preparation Blank Matrix (soil/water): WATER *Method blank*

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

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|-----------|-----------------------------|---|-------------------------------------|---|-------|---|-------|---|-------------------|---|---|
| | | C | 1 | C | 2 | C | 3 | C | | C | |
| Aluminum | 63.1 | U | 63.1 | U | 63.1 | U | 63.1 | U | 63.100 | U | P |
| Antimony | 5.0 | U | -5.3 | B | 5.0 | U | 5.0 | U | 5.000 | U | P |
| Arsenic | 6.0 | U | 6.0 | U | 6.0 | U | 6.0 | U | 6.000 | U | P |
| Barium | 12.0 | U | 12.0 | U | 12.0 | U | 12.0 | U | 12.000 | U | P |
| Beryllium | 0.4 | U | 0.4 | U | 0.4 | U | 0.4 | U | 0.400 | U | P |
| Cadmium | 1.2 | U | 1.2 | U | 1.2 | U | 1.2 | U | 1.200 | U | P |
| Calcium | 294.2 | U | 294.2 | U | 294.2 | U | 294.2 | U | 294.200 | U | P |
| Chromium | 1.9 | U | 1.9 | U | 1.9 | U | 1.9 | U | 1.900 | U | P |
| Cobalt | 3.7 | U | 3.7 | U | 3.7 | U | 3.7 | U | 3.700 | U | P |
| Copper | 3.3 | U | 3.3 | U | 3.3 | U | 3.3 | U | 3.300 | U | P |
| Iron | 66.7 | U | 66.7 | U | 66.7 | U | 66.7 | U | 66.700 | U | P |
| Magnesium | 292.8 | U | 292.8 | U | 292.8 | U | 292.8 | U | 292.800 | U | P |
| Manganese | 1.9 | U | 1.9 | U | 1.9 | U | 1.9 | U | 1.900 | U | P |
| Nickel | 4.4 | U | 4.4 | U | 4.4 | U | 4.4 | U | 4.400 | U | P |
| Potassium | 370.7 | U | 370.7 | U | 370.7 | U | 370.7 | U | 370.700 | U | P |
| Silver | 2.9 | U | 2.9 | U | 2.9 | U | 3.9 | B | 2.900 | U | P |
| Sodium | 532.3 | U | 532.3 | U | 536.5 | B | 732.8 | B | 532.300 | U | P |
| Vanadium | 3.6 | U | 3.6 | U | 3.6 | U | 3.6 | U | 3.600 | U | P |
| Zinc | 1.6 | U | 1.6 | U | 1.6 | U | 1.6 | U | 1.857 | B | P |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLP

Preparation Blank Matrix (soil/water): SPLP EXT *SPLP Blank*

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

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M | |
|-----------|-----------------------------|---|-------------------------------------|---|---|---|---|---|-------------------|----------|---|---|
| | | C | 1 | C | 2 | C | 3 | C | | C | | |
| Aluminum | | | | | | | | | | 63.100 | U | P |
| Antimony | | | | | | | | | | 5.000 | U | P |
| Arsenic | | | | | | | | | | 6.000 | U | P |
| Barium | | | | | | | | | | 12.000 | U | P |
| Beryllium | | | | | | | | | | 0.400 | U | P |
| Cadmium | | | | | | | | | | 1.200 | U | P |
| Calcium | | | | | | | | | | 405.000 | B | P |
| Chromium | | | | | | | | | | 2.105 | B | P |
| Cobalt | | | | | | | | | | 3.700 | U | P |
| Copper | | | | | | | | | | 3.300 | U | P |
| Iron | | | | | | | | | | 66.700 | U | P |
| Magnesium | | | | | | | | | | 292.800 | U | P |
| Manganese | | | | | | | | | | 1.900 | U | P |
| Nickel | | | | | | | | | | 4.400 | U | P |
| Potassium | | | | | | | | | | 555.900 | B | P |
| Silver | | | | | | | | | | 3.886 | B | P |
| Sodium | | | | | | | | | | 7744.000 | | P |
| Vanadium | | | | | | | | | | 3.600 | U | P |
| Zinc | | | | | | | | | | 8.167 | B | P |

USEPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCS003-SPLPICP ID Number: TJA ICAP 6ICS Source: Inorganic VenturesConcentration 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 | 488880 | 496400 | 499500.0 | 102.2 | 527200 | 533200.0 | 109.1 |
| Antimony | 0 | 604 | 7 | 605.7 | 100.3 | 7 | 646.0 | 107.0 |
| Arsenic | 0 | 98 | 3 | 97.1 | 99.1 | 0 | 105.3 | 107.4 |
| Barium | 0 | 493 | 2 | 483.9 | 98.2 | 2 | 517.2 | 104.9 |
| Beryllium | 0 | 452 | 0 | 454.7 | 100.6 | 0 | 475.6 | 105.2 |
| Cadmium | 0 | 922 | 9 | 910.7 | 98.8 | 8 | 975.4 | 105.8 |
| Calcium | 500000 | 459460 | 450800 | 455700.0 | 99.2 | 476900 | 483800.0 | 105.3 |
| Chromium | 0 | 471 | 5 | 465.1 | 98.7 | 5 | 499.1 | 106.0 |
| Cobalt | 0 | 465 | 8 | 463.3 | 99.6 | 8 | 502.9 | 108.2 |
| Copper | 0 | 526 | 3 | 510.0 | 97.0 | 1 | 549.7 | 104.5 |
| Iron | 200000 | 191660 | 196000 | 194300.0 | 101.4 | 195300 | 194400.0 | 101.4 |
| Lead | 0 | 48 | -1 | 41.9 | 87.3 | 1 | 48.5 | 101.0 |
| Magnesium | 500000 | 546140 | 530000 | 538400.0 | 98.6 | 564700 | 575100.0 | 105.3 |
| Manganese | 0 | 468 | 0 | 461.1 | 98.5 | 0 | 491.5 | 105.0 |
| Nickel | 0 | 926 | 11 | 913.1 | 98.6 | 11 | 977.8 | 105.6 |
| Potassium | 0 | 0 | -130 | -123.6 | | 162 | 175.7 | |
| Selenium | 0 | 46 | 4 | 51.0 | 110.9 | 2 | 51.9 | 112.8 |
| Silver | 0 | 215 | 1 | 206.7 | 96.1 | 1 | 225.9 | 105.1 |
| Sodium | 0 | 0 | -248 | -336.8 | | -86 | -439.8 | |
| Thallium | 0 | 97 | 12 | 95.0 | 97.9 | 4 | 104.4 | 107.6 |
| Vanadium | 0 | 477 | -2 | 468.6 | 98.2 | -1 | 502.8 | 105.4 |
| Zinc | 0 | 901 | 11 | 901.4 | 100.0 | 10 | 929.3 | 103.1 |

USEPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLPICP ID Number: TJA ICAP 5 ICS Source: Inorganic VenturesConcentration 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 | 492120 | 535300 | 505100.0 | 102.6 | 514400 | 516000.0 | 104.9 |
| Antimony | 0 | 578 | 3 | 600.8 | 103.9 | 5 | 619.6 | 107.2 |
| Arsenic | 0 | 92 | -3 | 96.4 | 104.8 | -5 | 94.1 | 102.3 |
| Barium | 0 | 493 | 2 | 489.9 | 99.4 | 2 | 506.2 | 102.7 |
| Beryllium | 0 | 466 | 0 | 476.5 | 102.3 | 0 | 485.9 | 104.3 |
| Cadmium | 0 | 899 | -4 | 905.5 | 100.7 | -4 | 915.1 | 101.8 |
| Calcium | 500000 | 509040 | 566300 | 540200.0 | 106.1 | 542300 | 547400.0 | 107.5 |
| Chromium | 0 | 463 | 0 | 468.9 | 101.3 | 1 | 476.7 | 103.0 |
| Cobalt | 0 | 440 | -1 | 445.4 | 101.2 | 0 | 451.6 | 102.6 |
| Copper | 0 | 498 | 2 | 489.7 | 98.3 | 2 | 504.1 | 101.2 |
| Iron | 200000 | 189440 | 212500 | 198600.0 | 104.8 | 203100 | 201700.0 | 106.5 |
| Magnesium | 500000 | 497400 | 535700 | 511400.0 | 102.8 | 511300 | 516300.0 | 103.8 |
| Manganese | 0 | 473 | 26 | 491.1 | 103.8 | 26 | 500.2 | 105.8 |
| Nickel | 0 | 889 | -1 | 895.1 | 100.7 | 0 | 908.4 | 102.2 |
| Potassium | 0 | 0 | 52 | 169.4 | | 112 | 92.3 | |
| Silver | 0 | 206 | 1 | 204.8 | 99.4 | 7 | 211.6 | 102.7 |
| Sodium | 0 | 0 | 711 | -25.2 | | -461 | 57.4 | |
| Vanadium | 0 | 474 | 4 | 483.7 | 102.0 | 3 | 492.8 | 104.0 |
| Zinc | 0 | 940 | -14 | 934.4 | 99.4 | -13 | 951.2 | 101.2 |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLP
 Solid LCS Source: _____
 Aqueous LCS Source: Inorganic Ventures

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|---------|----------------|-------|------|---------------|-------|---|--------|----|
| | True | Found | %R | True | Found | C | Limits | %R |
| Mercury | 1.0 | 0.92 | 92.0 | | | | | |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLP

Solid LCS Source: _____

Aqueous LCS Source: Inorganic Ventures

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|-----------|----------------|----------|-------|---------------|-------|---|--------|----|
| | True | Found | %R | True | Found | C | Limits | %R |
| Aluminum | 51000.0 | 53160.00 | 104.2 | | | | | |
| Antimony | 2000.0 | 2104.00 | 105.2 | | | | | |
| Arsenic | 1050.0 | 1096.00 | 104.4 | | | | | |
| Barium | 500.0 | 512.60 | 102.5 | | | | | |
| Beryllium | 500.0 | 508.00 | 101.6 | | | | | |
| Cadmium | 525.0 | 523.60 | 99.7 | | | | | |
| Calcium | 50000.0 | 51410.00 | 102.8 | | | | | |
| Chromium | 500.0 | 515.40 | 103.1 | | | | | |
| Cobalt | 500.0 | 516.50 | 103.3 | | | | | |
| Copper | 500.0 | 527.70 | 105.5 | | | | | |
| Iron | 50500.0 | 50640.00 | 100.3 | | | | | |
| Lead | 1015.0 | 1042.00 | 102.7 | | | | | |
| Magnesium | 50000.0 | 51880.00 | 103.8 | | | | | |
| Manganese | 500.0 | 505.30 | 101.1 | | | | | |
| Nickel | 500.0 | 507.10 | 101.4 | | | | | |
| Potassium | 50000.0 | 51220.00 | 102.4 | | | | | |
| Selenium | 525.0 | 521.90 | 99.4 | | | | | |
| Silver | 500.0 | 445.30 | 89.1 | | | | | |
| Sodium | 50000.0 | 55030.00 | 110.1 | | | | | |
| Thallium | 550.0 | 555.80 | 101.1 | | | | | |
| Vanadium | 500.0 | 510.10 | 102.0 | | | | | |
| Zinc | 500.0 | 533.80 | 106.8 | | | | | |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLP

Solid LCS Source: _____

Aqueous LCS Source: Inorganic Ventures

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | |
|-----------|----------------|----------|-------|---------------|---------|--------|----|
| | True | Found | %R | True | Found C | Limits | %R |
| Aluminum | 51000.0 | 51670.00 | 101.3 | | | | |
| Antimony | 2000.0 | 2071.00 | 103.6 | | | | |
| Arsenic | 1050.0 | 1084.00 | 103.2 | | | | |
| Barium | 500.0 | 501.00 | 100.2 | | | | |
| Beryllium | 500.0 | 494.10 | 98.8 | | | | |
| Cadmium | 525.0 | 516.20 | 98.3 | | | | |
| Calcium | 50000.0 | 50070.00 | 100.1 | | | | |
| Chromium | 500.0 | 509.30 | 101.9 | | | | |
| Cobalt | 500.0 | 517.50 | 103.5 | | | | |
| Copper | 500.0 | 519.80 | 104.0 | | | | |
| Iron | 50500.0 | 48130.00 | 95.3 | | | | |
| Lead | 1015.0 | 1034.00 | 101.9 | | | | |
| Magnesium | 50000.0 | 50660.00 | 101.3 | | | | |
| Manganese | 500.0 | 496.10 | 99.2 | | | | |
| Nickel | 500.0 | 500.70 | 100.1 | | | | |
| Potassium | 50000.0 | 51030.00 | 102.1 | | | | |
| Selenium | 525.0 | 512.40 | 97.6 | | | | |
| Silver | 500.0 | 432.50 | 86.5 | | | | |
| Sodium | 50000.0 | 54330.00 | 108.7 | | | | |
| Thallium | 550.0 | 548.50 | 99.7 | | | | |
| Vanadium | 500.0 | 504.60 | 100.9 | | | | |
| Zinc | 500.0 | 479.30 | 95.9 | | | | |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLP

Solid LCS Source: _____

Aqueous LCS Source: Inorganic Ventures

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|-----------|----------------|----------|-------|---------------|-------|---|--------|----|
| | True | Found | %R | True | Found | C | Limits | %R |
| Aluminum | 51000.0 | 51570.00 | 101.1 | | | | | |
| Antimony | 2000.0 | 2157.00 | 107.8 | | | | | |
| Arsenic | 1050.0 | 1115.00 | 106.2 | | | | | |
| Barium | 500.0 | 511.00 | 102.2 | | | | | |
| Beryllium | 500.0 | 523.20 | 104.6 | | | | | |
| Cadmium | 525.0 | 522.30 | 99.5 | | | | | |
| Calcium | 50000.0 | 50890.00 | 101.8 | | | | | |
| Chromium | 500.0 | 514.60 | 102.9 | | | | | |
| Cobalt | 500.0 | 505.00 | 101.0 | | | | | |
| Copper | 500.0 | 518.60 | 103.7 | | | | | |
| Iron | 50500.0 | 52710.00 | 104.4 | | | | | |
| Magnesium | 50000.0 | 51440.00 | 102.9 | | | | | |
| Manganese | 500.0 | 513.80 | 102.8 | | | | | |
| Nickel | 500.0 | 506.60 | 101.3 | | | | | |
| Potassium | 50000.0 | 48380.00 | 96.8 | | | | | |
| Silver | 500.0 | 422.00 | 84.4 | | | | | |
| Sodium | 50000.0 | 52510.00 | 105.0 | | | | | |
| Vanadium | 500.0 | 513.00 | 102.6 | | | | | |
| Zinc | 500.0 | 503.80 | 100.8 | | | | | |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLP

Solid LCS Source: _____

Aqueous LCS Source: Inorganic Ventures

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|-----------|----------------|----------|-------|---------------|-------|---|--------|----|
| | True | Found | %R | True | Found | C | Limits | %R |
| Aluminum | 51000.0 | 50220.00 | 98.5 | | | | | |
| Antimony | 2000.0 | 2012.00 | 100.6 | | | | | |
| Arsenic | 1050.0 | 1057.00 | 100.7 | | | | | |
| Barium | 500.0 | 486.80 | 97.4 | | | | | |
| Beryllium | 500.0 | 481.40 | 96.3 | | | | | |
| Cadmium | 525.0 | 503.80 | 96.0 | | | | | |
| Calcium | 50000.0 | 48810.00 | 97.6 | | | | | |
| Chromium | 500.0 | 494.60 | 98.9 | | | | | |
| Cobalt | 500.0 | 504.20 | 100.8 | | | | | |
| Copper | 500.0 | 504.90 | 101.0 | | | | | |
| Iron | 50500.0 | 47110.00 | 93.3 | | | | | |
| Lead | 1015.0 | 1007.00 | 99.2 | | | | | |
| Magnesium | 50000.0 | 49370.00 | 98.7 | | | | | |
| Manganese | 500.0 | 482.50 | 96.5 | | | | | |
| Nickel | 500.0 | 488.60 | 97.7 | | | | | |
| Potassium | 50000.0 | 49530.00 | 99.1 | | | | | |
| Selenium | 525.0 | 499.20 | 95.1 | | | | | |
| Silver | 500.0 | 420.00 | 84.0 | | | | | |
| Sodium | 50000.0 | 52710.00 | 105.4 | | | | | |
| Thallium | 550.0 | 538.20 | 97.9 | | | | | |
| Vanadium | 500.0 | 490.20 | 98.0 | | | | | |
| Zinc | 500.0 | 467.50 | 93.5 | | | | | |

USEPA - CLP

9

ICP SERIAL DILUTIONS

SAMPLE NO.

BLUEADSSS19(0.5) SPLPL

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVT Case No.: 23046SAS No.: _____ SDG No.: GCS003-SPLPMatrix (soil/water): SPLP EXTLevel (low/med): LOW

Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | | Serial Dilution Result (S) | | % Difference | Q | M |
|-----------|---------------------------|---|----------------------------|---|--------------|---|---|
| | | C | | C | | | |
| Aluminum | 471.40 | | 299.60 | B | 36.4 | | P |
| Antimony | 3.80 | U | 19.00 | U | | | P |
| Arsenic | 2.40 | U | 12.00 | U | | | P |
| Barium | 25.43 | B | 36.50 | U | 100.0 | | P |
| Beryllium | 0.37 | B | 1.66 | B | 348.6 | | P |
| Cadmium | 1.20 | B | 2.17 | B | 80.8 | | P |
| Calcium | 1509.00 | B | 1191.00 | B | 21.1 | | P |
| Chromium | 0.60 | U | 3.00 | U | | | P |
| Cobalt | 8.52 | B | 9.00 | U | 100.0 | | P |
| Copper | 7.38 | B | 7.00 | U | 100.0 | | P |
| Iron | 16.80 | U | 84.00 | U | | | P |
| Lead | 6.24 | | 7.50 | U | 100.0 | | P |
| Magnesium | 1156.00 | B | 908.50 | U | 100.0 | | P |
| Manganese | 677.40 | | 670.60 | | 1.0 | | P |
| Nickel | 34.32 | B | 34.56 | B | 0.7 | | P |
| Potassium | 1852.00 | B | 2297.00 | B | 24.0 | | P |
| Selenium | 1.77 | B | 8.50 | U | 100.0 | | P |
| Silver | 0.90 | U | 4.50 | U | | | P |
| Sodium | 6575.00 | | 6583.00 | B | 0.1 | | P |
| Thallium | 2.80 | U | 14.00 | U | | | P |
| Vanadium | 2.20 | U | 11.00 | U | | | P |
| Zinc | 50.04 | | 47.12 | B | 5.8 | | P |

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLPICP ID Number: _____ Date: 7/1/2003Flame 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: _____

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVT Case No.: 23046

SAS No.: _____

SDG No.: GCS003-SPLPICP ID Number: TJA ICAP 5Date: 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 | 63.1 | P |
| Antimony | 206.838 | | 60 | 5.0 | P |
| Arsenic | 189.042 | | 10 | 6.0 | P |
| Barium | 493.409 | | 200 | 12.0 | P |
| Beryllium | 313.042 | | 5 | 0.4 | P |
| Cadmium | 226.501 | | 5 | 1.2 | P |
| Calcium | 317.933 | | 5000 | 294.2 | P |
| Chromium | 267.716 | | 10 | 1.9 | P |
| Cobalt | 228.611 | | 50 | 3.7 | P |
| Copper | 324.754 | | 25 | 3.3 | P |
| Iron | 271.441 | | 100 | 66.7 | P |
| Magnesium | 279.079 | | 5000 | 292.8 | P |
| Manganese | 294.920 | | 15 | 1.9 | P |
| Nickel | 231.601 | | 40 | 4.4 | P |
| Potassium | 766.491 | | 5000 | 370.7 | P |
| Silver | 328.068 | | 10 | 2.9 | P |
| Sodium | 330.232 | | 5000 | 532.3 | P |
| Vanadium | 292.402 | | 50 | 3.6 | P |
| Zinc | 213.851 | | 20 | 1.6 | P |

Comments:

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLPICP 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 |
|-----------|------------------|-------------|-------------|------------|---|
| Aluminum | 308.215 | | 200 | 18.3 | P |
| Antimony | 206.838 | | 60 | 3.8 | P |
| Arsenic | 189.042 | | 10 | 2.4 | P |
| Barium | 493.409 | | 200 | 7.3 | P |
| Beryllium | 313.042 | | 5 | 0.2 | P |
| Cadmium | 226.502 | | 5 | 0.3 | P |
| Calcium | 317.933 | | 5000 | 223.2 | P |
| Chromium | 267.716 | | 10 | 0.6 | P |
| Cobalt | 228.616 | | 50 | 1.8 | P |
| Copper | 324.754 | | 25 | 1.4 | P |
| Iron | 271.441 | | 100 | 16.8 | P |
| Lead | 220.353 | | 3 | 1.5 | P |
| Magnesium | 279.079 | | 5000 | 181.7 | P |
| Manganese | 257.610 | | 15 | 0.7 | P |
| Nickel | 231.604 | | 40 | 2.0 | P |
| Potassium | 766.491 | | 5000 | 250.0 | P |
| Selenium | 196.026 | | 5 | 1.7 | P |
| Silver | 328.068 | | 10 | 0.9 | P |
| Sodium | 330.232 | | 5000 | 218.8 | P |
| Thallium | 190.864 | | 10 | 2.8 | P |
| Vanadium | 292.402 | | 50 | 2.2 | P |
| Zinc | 206.200 | | 20 | 5.7 | P |

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLP

ICP ID Number: TJA ICAP 5 Date: 10/2/2002

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | | |
|------------|------------------|--------------------------------------|-----------|------------|-----------|-----------|
| | | Al | Ca | Fe | Mg | Ag |
| 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 | 0.0000050 | 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 |
| Cadmium | 226.50 | 0.0000070 | 0.0000000 | 0.0000830 | 0.0000000 | 0.0000000 |
| Calcium | 317.93 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.72 | 0.0000290 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cobalt | 228.61 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper | 324.75 | 0.0000000 | 0.0000000 | 0.0000060 | 0.0000000 | 0.0000000 |
| Iron | 271.44 | 0.0001300 | 0.0000000 | 0.0000000 | -0.000400 | 0.0000000 |
| Lead | 220.35 | 0.0008600 | 0.0000000 | 0.0000920 | -0.000008 | 0.0000000 |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 294.92 | 0.0000000 | 0.0000000 | 0.0006580 | 0.0000180 | 0.0000000 |
| Molybdenum | 202.03 | 0.0000000 | 0.0000000 | 0.0000260 | 0.0000000 | 0.0000000 |
| Nickel | 231.60 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Phosphorus | 178.29 | 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 | 0.0000100 | 0.0000000 | -0.0001300 | -0.000010 | 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 |
| Strontium | 421.55 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.86 | -0.0000090 | 0.0000000 | -0.0004350 | 0.0000000 | 0.0000000 |
| Titanium | 334.94 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Vanadium | 292.40 | 0.0000000 | 0.0000000 | -0.0003250 | 0.0000000 | 0.0000000 |
| Zinc | 213.85 | 0.0000000 | 0.0000000 | 0.0000800 | 0.0000390 | 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.: GCS003-SPLP

ICP ID Number: TJA ICAP 5 Date: 10/2/2002

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | | |
|------------|------------------|--------------------------------------|-----------|-----------|-----------|------------|
| | | As | B | Be | Cd | Co |
| Aluminum | 308.22 | 0.0026340 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Antimony | 206.84 | 0.0002400 | 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 | 0.0000000 | 0.0000000 |
| Cadmium | 226.50 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000840 |
| 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 | 228.61 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper | 324.75 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000610 |
| Iron | 271.44 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0840960 |
| Lead | 220.35 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0026440 |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 294.92 | 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 | 0.0022990 |
| Phosphorus | 178.29 | 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 | 0.0000000 | 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 |
| Strontium | 421.55 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.86 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0018110 |
| Titanium | 334.94 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0002200 |
| Vanadium | 292.40 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc | 213.85 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

Comments: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLP
 ICP ID Number: TJA ICAP 5 Date: 10/2/2002

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | | |
|------------|------------------|--------------------------------------|------------|-----------|-----------|-----------|
| | | Cr | Cu | Mn | Na | Ni |
| Aluminum | 308.22 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Antimony | 206.84 | 0.0087280 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Arsenic | 189.04 | -0.0088830 | 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 | 0.0000000 | 0.0000000 |
| Cadmium | 226.50 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0001070 |
| 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 | 228.61 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| 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 | -0.0000530 | -0.0000340 | 0.0000000 | 0.0000000 | 0.0000000 |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 294.92 | -0.0015990 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Molybdenum | 202.03 | 0.0004700 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Nickel | 231.60 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Phosphorus | 178.29 | 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 | 0.0000000 | 0.0000000 | 0.0000000 |
| Silver | 328.07 | -0.0000990 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Sodium | 330.23 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Strontium | 421.55 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.86 | 0.0002810 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Titanium | 334.94 | 0.0002200 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Vanadium | 292.40 | -0.0020840 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc | 213.85 | 0.0000000 | 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.: GCS003-SPLP
 ICP ID Number: TJA ICAP 5 Date: 10/2/2002

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | | |
|------------|------------------|--------------------------------------|------------|-----------|-----------|-----------|
| | | Pb | Sb | Se | Si | Tl |
| 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 | 0.0000000 | 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 | 0.0000000 | 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 | 228.61 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| 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 | 0.0000000 | -0.0001650 | 0.0000000 | 0.0000000 | 0.0000000 |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 294.92 | 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 | 0.0005120 |
| Phosphorus | 178.29 | 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 | 0.0000000 | 0.0000000 | 0.0000650 |
| 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 |
| Strontium | 421.55 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.86 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Titanium | 334.94 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Vanadium | 292.40 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc | 213.85 | 0.0000000 | 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.: GCS003-SPLP

ICP ID Number: TJA ICAP 5 Date: 10/2/2002

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | |
|------------|------------------|--------------------------------------|-----------|--|--|
| | | V | Zn | | |
| Aluminum | 308.22 | -0.0084630 | 0.0000000 | | |
| Antimony | 206.84 | -0.0060220 | 0.0000000 | | |
| Arsenic | 189.04 | 0.0000000 | 0.0000000 | | |
| Barium | 493.41 | 0.0000000 | 0.0000000 | | |
| Beryllium | 313.04 | 0.0009440 | 0.0000000 | | |
| Cadmium | 226.50 | 0.0000000 | 0.0000000 | | |
| Calcium | 317.93 | 0.0000000 | 0.0000000 | | |
| Chromium | 267.72 | -0.0001950 | 0.0000000 | | |
| Cobalt | 228.61 | 0.0000000 | 0.0000000 | | |
| Copper | 324.75 | 0.0000000 | 0.0000000 | | |
| Iron | 271.44 | 0.0124990 | 0.0000000 | | |
| Lead | 220.35 | 0.0000000 | 0.0000000 | | |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | | |
| Manganese | 294.92 | 0.0078880 | 0.0000000 | | |
| Molybdenum | 202.03 | -0.0000010 | 0.0000000 | | |
| Nickel | 231.60 | 0.0000000 | 0.0000000 | | |
| Phosphorus | 178.29 | 0.0000000 | 0.0000000 | | |
| Potassium | 766.49 | 0.0000000 | 0.0000000 | | |
| Selenium | 196.03 | 0.0000920 | 0.0000000 | | |
| Silver | 328.07 | 0.0000910 | 0.0000000 | | |
| Sodium | 330.23 | 0.0000000 | 0.0593250 | | |
| Strontium | 421.55 | 0.0000000 | 0.0000000 | | |
| Thallium | 190.86 | -0.0011100 | 0.0000000 | | |
| Titanium | 334.94 | 0.0000000 | 0.0000000 | | |
| Vanadium | 292.40 | 0.0000000 | 0.0000000 | | |
| Zinc | 213.85 | -0.0000350 | 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.: GCS003-SPLP

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: _____

USEPA - CLP

11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLPICP 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: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLP

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.: GCS003-SPLP

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 BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCS003-SPLPICP ID Number: TJA ICAP 6Date: 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: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLPICP ID Number: TJA ICAP 5 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 | 50000.0 | P |
| Beryllium | 10.00 | 5000.0 | P |
| Cadmium | 10.00 | 25000.0 | P |
| Calcium | 10.00 | 600000.0 | P |
| Chromium | 10.00 | 100000.0 | P |
| Cobalt | 10.00 | 50000.0 | P |
| Copper | 10.00 | 100000.0 | P |
| Iron | 10.00 | 1000000.0 | P |
| Magnesium | 10.00 | 600000.0 | P |
| Manganese | 10.00 | 100000.0 | P |
| Nickel | 10.00 | 100000.0 | P |
| Potassium | 10.00 | 100000.0 | P |
| Silver | 10.00 | 2000.0 | P |
| Sodium | 10.00 | 100000.0 | P |
| Vanadium | 10.00 | 100000.0 | P |
| Zinc | 10.00 | 10000.0 | P |

Comments: _____

USEPA - CLP

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCS003-SPLPICP ID Number: TJA ICAP 6Date: 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 | 100000.0 | P |
| Iron | 10.00 | 1000000.0 | P |
| Lead | 10.00 | 50000.0 | P |
| Magnesium | 10.00 | 600000.0 | P |
| Manganese | 10.00 | 10000.0 | P |
| Nickel | 10.00 | 50000.0 | P |
| Potassium | 10.00 | 100000.0 | P |
| Selenium | 10.00 | 5000.0 | 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 | 10000.0 | P |

Comments: _____

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLPMethod: CV

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|------------------------|---------------------|----------------------|----------------|
| BLUEADSSS19 (0.5) SPLP | 8/9/2003 | 1.00 | 100.0 |
| BLUETASSS27 (0.5) SPLP | 8/9/2003 | 1.00 | 100.0 |
| BLUEWPSUS20 (2.5) SPLP | 8/9/2003 | 1.00 | 100.0 |
| BLUEWPSUS21 (1.5) SPLP | 8/9/2003 | 1.00 | 100.0 |
| BLUEWPSUS22 (1.5) SPLP | 8/9/2003 | 1.00 | 100.0 |
| BLUEWPSUS29 (1.0) SPLP | 8/9/2003 | 1.00 | 100.0 |
| LCSW0809A | 8/9/2003 | 100.0 | 100.0 |
| PBW0809A | 8/9/2003 | 100.0 | 100.0 |
| SPLPBLKP8 | 8/9/2003 | 1.00 | 100.0 |

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLPMethod: P

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|------------------------|---------------------|----------------------|----------------|
| BLUEADSSS19 (0.5) SPLP | 8/11/2003 | 100.00 | 100.0 |
| BLUEWPSUS20 (2.5) SPLP | 8/11/2003 | 100.00 | 100.0 |
| BLUEWPSUS21 (1.5) SPLP | 8/11/2003 | 100.00 | 100.0 |
| BLUEWPSUS22 (1.5) SPLP | 8/11/2003 | 100.00 | 100.0 |
| BLUEWPSUS29 (1.0) SPLP | 8/11/2003 | 100.00 | 100.0 |
| LCSW0811A | 8/11/2003 | 100.0 | 100.0 |
| PBW0811A | 8/11/2003 | 100.0 | 100.0 |

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLPMethod: P

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|------------------------|---------------------|----------------------|----------------|
| BLUETASSS27 (0.5) SPLP | 9/15/2003 | 100.00 | 100.0 |
| LCSDW0915D | 9/15/2003 | 100.0 | 100.0 |
| LCSW0915D | 9/15/2003 | 100.0 | 100.0 |
| PBW0915D | 9/15/2003 | 100.0 | 100.0 |

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLPMethod: P

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|-------------------|---------------------|----------------------|----------------|
| LCSW0918F | 9/18/2003 | 100.0 | 100.0 |
| PBW0918F | 9/18/2003 | 100.0 | 100.0 |
| SPLPBLKP8 | 9/18/2003 | 100.00 | 100.0 |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLP
 Instrument ID Number: TJA ICAP 6 Method: P
 Start Date: 9/17/2003 End Date: 9/17/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C F | F U | P B | M G | M N | H G | N I | K E | S G | A L | N T | T V | Z N |
| S0 | 1.00 | 1348 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| S | 1.00 | 1352 | | X | | | | | X | | | | X | X | | | | | X | | X | | | | |
| S | 1.00 | 1356 | | | X | X | | | | | | | X | | | | | | X | | X | | | | |
| S | 1.00 | 1400 | | | | | X | X | X | | X | X | X | | X | X | | X | | X | | | X | X | |
| LRS | 1.00 | 1404 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| LRS | 1.00 | 1408 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| LRS | 1.00 | 1413 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| ICV | 1.00 | 1417 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| ICB | 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 |
| ICSA | 1.00 | 1425 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| ICSAB | 1.00 | 1429 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CRI | 1.00 | 1433 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCV | 1.00 | 1438 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCB | 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 |
| ZZZZZZ | 1.00 | 1446 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1450 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1454 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 5.00 | 1458 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1502 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1506 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1510 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1514 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1518 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1522 | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1526 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCB | 1.00 | 1530 | | 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 | 1535 | | | | | | | | | | | | | | | | | | | | | | | |
| PBW0811A | 1.00 | 1539 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| LCSW0811A | 1.00 | 1543 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| BLUEADSSS19(0.5) SPLP | 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 |
| BLUEADSSS19(0.5) SPLP | 5.00 | 1551 | | 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 | 1555 | | | | | | | | | | | | | | | | | | | | | | | |
| BLUEWPSUS22(1.5) SPLP | 1.00 | 1559 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| BLUEWPSUS29(1.0) SPLP | 1.00 | 1603 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| BLUEWPSUS20(2.5) SPLP | 1.00 | 1607 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| BLUEWPSUS21(1.5) SPLP | 1.00 | 1611 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCV | 1.00 | 1615 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCB | 1.00 | 1619 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLP
 Instrument ID Number: TJA ICAP 6 Method: P
 Start Date: 9/17/2003 End Date: 9/17/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S G | A A | N L | T L | V L | Z N | C N | | |
| ZZZZZZ | 1.00 | 1623 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PBW0915D | 1.00 | 1628 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| LCSW0915D | 1.00 | 1632 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| LCSDW0915D | 1.00 | 1636 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| BLUETASSS27(0.5) SPLP | 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 | X | X | X | |
| ICSA | 1.00 | 1644 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| ICSAB | 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 | X | X | X | |
| CRI | 1.00 | 1652 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CCV | 1.00 | 1656 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CCB | 1.00 | 1700 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS003-SPLP
 Instrument ID Number: TJA ICAP 5 Method: P
 Start Date: 9/18/2003 End Date: 9/18/2003

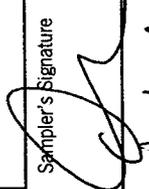
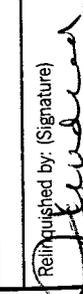
| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V L | Z N | C N |
| S0 | 1.00 | 1854 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| S | 1.00 | 1900 | | X | | | | | | X | | | | X | | X | | | | X | | X | | | | | |
| S | 1.00 | 1904 | | | X | X | | | | | | | | | | | | | | | | | | | | | |
| S | 1.00 | 1908 | | | | | X | X | X | | X | X | X | | | X | | X | | | X | | | X | X | | |
| LRS | 1.00 | 1914 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| LRS | 1.00 | 1920 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| LRS | 1.00 | 1926 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| ICV | 1.00 | 1932 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| ICB | 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 | X | |
| ICSA | 1.00 | 1944 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| ICSAB | 1.00 | 1949 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CRI | 1.00 | 1955 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CCV | 1.00 | 2001 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CCB | 1.00 | 2007 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| PBW0918F | 1.00 | 2013 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| LCSW0918F | 1.00 | 2019 | | X | 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 | 2025 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 5.00 | 2031 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 2036 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 2042 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 2048 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 2054 | | | | | | | | | | | | | | | | | | | | | | | | | |
| SPLPBLKP8 | 1.00 | 2059 | | X | 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 | 2105 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 2111 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CCB | 1.00 | 2117 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| ICSA | 1.00 | 2123 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| ICSAB | 1.00 | 2128 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CRI | 1.00 | 2134 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CCV | 1.00 | 2140 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CCB | 1.00 | 2146 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |

STL Burlington
Colchester, Vermont

Sample Data Summary
Package

SDG: GCS004

pl of 1

| | | | | | |
|---|---|--|---|--|---|
| Report to: Company: EA Engineering Address: 12011 Bet-Red Rd Bellevue, WA 98005 Contact: Jon Findree Phone: 425-451-7400 Fax: 425-451-7800 Contract/ Quote: | | Invoice to: Company: SAME Address: Contact: Phone: Fax: | | Lab Use Only Due Date: | |
| Sampler's Name: James Cathoer | | Sampler's Signature:  | | Temp. of coolers when received (C°): 1 2 3 4 5 Custody Seal N / Y Intact N / Y Screened For Radioactivity <input type="checkbox"/> | |
| Project Name: Granite Creek Watershed Mines | | Identifying Marks of Sample(s) | | ANALYSIS REQUESTED P13 Metals CD CRtg SCLP ABA | |
| Proj. No. B8910 | No./Type of Containers* VOA A/G 250 P/O I Lt. ml | No./Type of Containers* VOA A/G 250 P/O I Lt. ml | | Lab/Sample ID (Lab Use Only) | |
| Matrix ¹ Date Time S 7/23/03 1025 S 7/23/03 1100 S 7/23/03 1143 S 7/23/03 1216 S 7/23/03 1403 S 7/23/03 1426 S 7/23/03 1500 S 7/24/03 1030 S 7/24/03 0080 S 7/24/03 0910 | Identifying Marks of Sample(s) BLAC-TA-SUS-30 (0.75) BLAC-PD-SSS-10 (0.4) BLAC-TA-SUS-31 (0.9) BLAC-TA-SUS-14 (1.5) CLEA-B6-SSS-26 (0.5) BLAC-WP-SUS-13 (1.5) BLAC-WP-SUS-12 (1.0) CLEA-B6-SSS-25 (0.5) BLUE-TA-SUS-32 (1.5) BLUE-TA-SUS-33 (2.0) | No./Type of Containers* VOA A/G 250 P/O I Lt. ml 1 2 1 1 2 2 2 2 2 2 2 | No./Type of Containers* VOA A/G 250 P/O I Lt. ml 1 2 1 1 2 2 2 2 2 2 2 | Lab/Sample ID (Lab Use Only) | ANALYSIS REQUESTED P13 Metals CD CRtg SCLP ABA |
| Relinquished by: (Signature)  | Date 7-25-03 | Time 1000 | Received by: (Signature) Anthony Hung | Date 7/24/03 | Time 1045 |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
| Remarks Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule. | | | | | |



**Sample Data Summary Package
For Wet Chemistry**

WET CHEMISTRY

Sample Report Summary

Client Sample No.
BLACTASUS30(0.75)

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCS004

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 536024

Matrix: SOIL

Client: EASEAT

Date Received: 07/26/03

% Solids: 66.5

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|----------|-----|-----|-------|-------|
| 9040B | Corrosivity by pH | 08/02/03 | | pH Units | 1 | 0.0 | 5.3 | |
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 66.5 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACPDSS10(0.4)

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCS004

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 536025

Matrix: SOIL

Client: EASEAT

Date Received: 07/26/03

% Solids: 51.4

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|----------|-----|-----|-------|-------|
| 9040B | Corrosivity by pH | 08/02/03 | | pH Units | 1 | 0.0 | 5.0 | |
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 51.4 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACTASUS31(0.9)

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCS004

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 536027

Matrix: SOIL

Client: EASEAT

Date Received: 07/26/03

% Solids: 96.7

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|----------|-----|-----|-------|-------|
| 9040B | Corrosivity by pH | 08/02/03 | | pH Units | 1 | 0.0 | 4.7 | |
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 96.7 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACTASUS14(1.3)

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCS004

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 536028

Matrix: SOIL

Client: EASEAT

Date Received: 07/26/03

% Solids: 92.1

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|----------|-----|-----|-------|-------|
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 92.1 | |
| 9040B | Corrosivity by pH | 08/02/03 | | pH Units | 1 | 0.0 | 3.9 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

CLEABGSSS26(0.5)

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCS004

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 536029

Matrix: SOIL

Client: EASEAT

Date Received: 07/26/03

% Solids: 98.5

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|----------|-----|-----|-------|-------|
| 9040B | Corrosivity by pH | 08/02/03 | | pH Units | 1 | 0.0 | 6.6 | |
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 98.5 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACWPSUS13(1.5)

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCS004

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 536031

Matrix: SOIL

Client: EASEAT

Date Received: 07/26/03

% Solids: 97.7

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|----------|-----|-----|-------|-------|
| 9040B | Corrosivity by pH | 08/02/03 | | pH Units | 1 | 0.0 | 4.0 | |
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 97.7 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACWPSUS12(1.0)

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCS004

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 536033

Matrix: SOIL

Client: EASEAT

Date Received: 07/26/03

% Solids: 93.8

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|----------|-----|-----|-------|-------|
| 9040B | Corrosivity by pH | 08/02/03 | | pH Units | 1 | 0.0 | 4.6 | |
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 93.8 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

CLEABGSSS25(0.5)

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCS004

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 536035

Matrix: SOIL

Client: EASEAT

Date Received: 07/26/03

% Solids: 95.3

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|----------|-----|-----|-------|-------|
| 9040B | Corrosivity by pH | 08/02/03 | | pH Units | 1 | 0.0 | 6.5 | |
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 95.3 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUETASUS32(1.5)

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCS004

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 536037

Matrix: SOIL

Client: EASEAT

Date Received: 07/26/03

% Solids: 96.2

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|----------|-----|-----|-------|-------|
| 9040B | Corrosivity by pH | 08/02/03 | | pH Units | 1 | 0.0 | 6.5 | |
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 96.2 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUETASUS33(2.0)

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCS004

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 536039

Matrix: SOIL

Client: EASEAT

Date Received: 07/26/03

% Solids: 95.0

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------|---------------------|------------------|----------|-----|-----|-------|-------|
| 9040B | Corrosivity by pH | 08/02/03 | | pH Units | 1 | 0.0 | 5.8 | |
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 95.0 | |

WET CHEMISTRY

Duplicate Sample Report Summary

Client Sample No.

CLEABGSSS25(0.5)REP

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCS004

Lab Code: STLVLT

Case No.: 23046

Lab Sample ID: 536035DP

Matrix: SOIL

Client: EASEAT

Date Received: 07/26/03

% Solids: 94.5

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | Sample Result | | Duplicate Sample Result | | RPD* |
|--------|-------------------|---------------------|------------------|----------|---------------|-------|-------------------------|-------|------|
| | | | | | Conc. | Qual. | Conc. | Qual. | |
| 9040B | Corrosivity by pH | 08/02/03 | | pH Units | 6.5 | | 6.5 | | 0 |
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 95.3 | | 94.5 | | 1 |

* Control Limit for RPD is +/- 20%, unless otherwise specified.

WET CHEMISTRY
Laboratory Control Sample Report Summary

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCS004

Lab Code: STLVT

Case No.: 23046

Matrix: SOIL

Client: EASEAT

% Solids:

| Lab Sample ID | Method | Parameter | Analytical Run Date | Analytical Batch | Units | LCS Conc. | True Value | % Recovery* |
|---------------|--------|-------------------|---------------------|------------------|----------|-----------|------------|-------------|
| LCSPH0802A | 9040B | Corrosivity by pH | 08/02/03 | | pH Units | 6.0 | 6.0 | 100.5 |

* Control Limit for Percent Recovery is 80-120%, unless otherwise specified.

WET CHEMISTRY
Laboratory Control Sample Duplicate
Report Summary

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCS004

Lab Code: STLVT

Case No.: 23046

Matrix: SOIL

Client: EASEAT

% Solids:

| Lab Sample ID | Method | Parameter | Analytical Run Date | Analytical Batch | Units | LCSD Conc. | True Value | % Recovery* | RPD** |
|---------------|--------|-------------------|---------------------|------------------|----------|------------|------------|-------------|-------|
| LCSDPH0802A | 9040B | Corrosivity by pH | 08/02/03 | | pH Units | 6.0 | 6.0 | 100.5 | 0 |

* Control Limit for Percent Recovery is 80-120%, unless otherwise specified.

** Control Limit for RPD is +/- 20%, unless otherwise specified.



**Sample Data Summary Package
For Metals**

USEPA-CLP FORMS

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

SOW No.: ILM04.1

| <u>EPA Sample No.</u> | <u>Lab Sample ID.</u> |
|---------------------------|-----------------------|
| <u>BLACPDSSS10 (0.4)</u> | <u>536025</u> |
| <u>BLACTASUS14 (1.5)</u> | <u>536028</u> |
| <u>BLACTASUS30 (0.75)</u> | <u>536024</u> |
| <u>BLACTASUS31 (0.9)</u> | <u>536027</u> |
| <u>BLACWPSUS12 (1.0)</u> | <u>536033</u> |
| <u>BLACWPSUS13 (1.5)</u> | <u>536031</u> |
| <u>BLUETASUS32 (1.5)</u> | <u>536037</u> |
| <u>BLUETASUS33 (2.0)</u> | <u>536039</u> |
| <u>CLEABGSSS25 (0.5)</u> | <u>536035</u> |
| <u>CLEABGSSS25 (0.5)D</u> | <u>536035DP</u> |
| <u>CLEABGSSS25 (0.5)S</u> | <u>536035MS</u> |
| <u>CLEABGSSS26 (0.5)</u> | <u>536029</u> |

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: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACPDSSS10 (0.4)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004
 Matrix (soil/water): SOIL Lab Sample ID: 536025
 Level (low/med): LOW Date Received: 07/26/03
 % Solids: 51.4

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 1300 | | | P |
| 7440-36-0 | Antimony | 7.8 | B | N | P |
| 7440-38-2 | Arsenic | 21.2 | | | P |
| 7440-39-3 | Barium | 12.2 | B | | P |
| 7440-41-7 | Beryllium | 0.034 | U | | P |
| 7440-43-9 | Cadmium | 1.1 | | | P |
| 7440-70-2 | Calcium | 50.2 | U | | P |
| 7440-47-3 | Chromium | 39.6 | | | P |
| 7440-48-4 | Cobalt | 18.3 | | | P |
| 7440-50-8 | Copper | 1440 | | | P |
| 7439-89-6 | Iron | 459000 | | * | P |
| 7439-92-1 | Lead | 32.0 | | E | P |
| 7439-95-4 | Magnesium | 50.0 | U | | P |
| 7439-96-5 | Manganese | 72.9 | | | P |
| 7439-97-6 | Mercury | 0.49 | | | CV |
| 7440-02-0 | Nickel | 23.9 | | | P |
| 7440-09-7 | Potassium | 214 | B | | P |
| 7782-49-2 | Selenium | 29.7 | | N | P |
| 7440-22-4 | Silver | 0.92 | B | | P |
| 7440-23-5 | Sodium | 90.8 | U | | P |
| 7440-28-0 | Thallium | 17.4 | | | P |
| 7440-62-2 | Vanadium | 35.7 | | | P |
| 7440-66-6 | Zinc | 29.2 | | | P |
| 57-12-5 | Cyanide | 0.88 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: mediumColor After: yellow Clarity After: clear Artifacts: _____Comments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACTASUS14 (1.5)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004
 Matrix (soil/water): SOIL Lab Sample ID: 536028
 Level (low/med): LOW Date Received: 07/26/03
 % Solids: 92.1

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 3190 | | | P |
| 7440-36-0 | Antimony | 3.4 | B | N | P |
| 7440-38-2 | Arsenic | 20.5 | | | P |
| 7440-39-3 | Barium | 58.0 | | | P |
| 7440-41-7 | Beryllium | 0.019 | U | | P |
| 7440-43-9 | Cadmium | 0.48 | | | P |
| 7440-70-2 | Calcium | 157 | B | | P |
| 7440-47-3 | Chromium | 58.4 | | | P |
| 7440-48-4 | Cobalt | 9.6 | | | P |
| 7440-50-8 | Copper | 915 | | | P |
| 7439-89-6 | Iron | 193000 | | * | P |
| 7439-92-1 | Lead | 14.6 | | E | P |
| 7439-95-4 | Magnesium | 3940 | | | P |
| 7439-96-5 | Manganese | 81.8 | | | P |
| 7439-97-6 | Mercury | 0.17 | | | CV |
| 7440-02-0 | Nickel | 34.2 | | | P |
| 7440-09-7 | Potassium | 471 | | | P |
| 7782-49-2 | Selenium | 9.7 | | N | P |
| 7440-22-4 | Silver | 0.44 | B | | P |
| 7440-23-5 | Sodium | 49.4 | U | | P |
| 7440-28-0 | Thallium | 6.3 | | | P |
| 7440-62-2 | Vanadium | 36.4 | | | P |
| 7440-66-6 | Zinc | 27.4 | | | P |
| 57-12-5 | Cyanide | 0.54 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: mediumColor After: yellow Clarity After: clear Artifacts: _____Comments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACTASUS30 (0.75)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004
 Matrix (soil/water): SOIL Lab Sample ID: 536024
 Level (low/med): LOW Date Received: 07/26/03
 % Solids: 66.5

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 19300 | | | P |
| 7440-36-0 | Antimony | 4.6 | B | N | P |
| 7440-38-2 | Arsenic | 82.3 | | | P |
| 7440-39-3 | Barium | 53.0 | | | P |
| 7440-41-7 | Beryllium | 0.27 | B | | P |
| 7440-43-9 | Cadmium | 0.21 | B | | P |
| 7440-70-2 | Calcium | 2750 | | | P |
| 7440-47-3 | Chromium | 147 | | | P |
| 7440-48-4 | Cobalt | 20.0 | | | P |
| 7440-50-8 | Copper | 126 | | | P |
| 7439-89-6 | Iron | 106000 | | * | P |
| 7439-92-1 | Lead | 10.3 | | E | P |
| 7439-95-4 | Magnesium | 13200 | | | P |
| 7439-96-5 | Manganese | 330 | | | P |
| 7439-97-6 | Mercury | 0.75 | | | CV |
| 7440-02-0 | Nickel | 146 | | | P |
| 7440-09-7 | Potassium | 911 | | | P |
| 7782-49-2 | Selenium | 4.0 | | N | P |
| 7440-22-4 | Silver | 1.3 | B | | P |
| 7440-23-5 | Sodium | 453 | B | | P |
| 7440-28-0 | Thallium | 3.0 | | | P |
| 7440-62-2 | Vanadium | 64.8 | | | P |
| 7440-66-6 | Zinc | 46.0 | | | P |
| 57-12-5 | Cyanide | 0.74 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: mediumColor After: yellow Clarity After: clear Artifacts: rootsComments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACTASUS31 (0.9)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004
 Matrix (soil/water): SOIL Lab Sample ID: 536027
 Level (low/med): LOW Date Received: 07/26/03
 % Solids: 96.7

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 18400 | | | P |
| 7440-36-0 | Antimony | 1.7 | B | N | P |
| 7440-38-2 | Arsenic | 24.9 | | | P |
| 7440-39-3 | Barium | 61.5 | | | P |
| 7440-41-7 | Beryllium | 0.28 | B | | P |
| 7440-43-9 | Cadmium | 0.21 | B | | P |
| 7440-70-2 | Calcium | 5290 | | | P |
| 7440-47-3 | Chromium | 53.3 | | | P |
| 7440-48-4 | Cobalt | 30.5 | | | P |
| 7440-50-8 | Copper | 216 | | | P |
| 7439-89-6 | Iron | 46800 | | * | P |
| 7439-92-1 | Lead | 13.9 | | E | P |
| 7439-95-4 | Magnesium | 6040 | | | P |
| 7439-96-5 | Manganese | 720 | | | P |
| 7439-97-6 | Mercury | 0.096 | | | CV |
| 7440-02-0 | Nickel | 77.8 | | | P |
| 7440-09-7 | Potassium | 1080 | | | P |
| 7782-49-2 | Selenium | 2.7 | | N | P |
| 7440-22-4 | Silver | 0.50 | B | | P |
| 7440-23-5 | Sodium | 1150 | | | P |
| 7440-28-0 | Thallium | 1.8 | | | P |
| 7440-62-2 | Vanadium | 44.8 | | | P |
| 7440-66-6 | Zinc | 57.8 | | | P |
| 57-12-5 | Cyanide | 0.51 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: mediumColor After: yellow Clarity After: clear Artifacts: rootsComments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACWPSUS12 (1.0)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004
 Matrix (soil/water): SOIL Lab Sample ID: 536033
 Level (low/med): LOW Date Received: 07/26/03
 % Solids: 93.8

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 12500 | | | P |
| 7440-36-0 | Antimony | 0.96 | B | N | P |
| 7440-38-2 | Arsenic | 7.9 | | | P |
| 7440-39-3 | Barium | 131 | | | P |
| 7440-41-7 | Beryllium | 0.45 | B | | P |
| 7440-43-9 | Cadmium | 0.20 | B | | P |
| 7440-70-2 | Calcium | 256 | B | | P |
| 7440-47-3 | Chromium | 15.6 | | | P |
| 7440-48-4 | Cobalt | 23.0 | | | P |
| 7440-50-8 | Copper | 132 | | | P |
| 7439-89-6 | Iron | 47200 | | * | P |
| 7439-92-1 | Lead | 9.6 | | E | P |
| 7439-95-4 | Magnesium | 2350 | | | P |
| 7439-96-5 | Manganese | 1020 | | | P |
| 7439-97-6 | Mercury | 0.19 | | | CV |
| 7440-02-0 | Nickel | 33.6 | | | P |
| 7440-09-7 | Potassium | 1230 | | | P |
| 7782-49-2 | Selenium | 1.9 | | N | P |
| 7440-22-4 | Silver | 0.31 | B | | P |
| 7440-23-5 | Sodium | 118 | B | | P |
| 7440-28-0 | Thallium | 2.6 | | | P |
| 7440-62-2 | Vanadium | 48.2 | | | P |
| 7440-66-6 | Zinc | 78.4 | | | P |
| 57-12-5 | Cyanide | 0.51 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: mediumColor After: yellow Clarity After: clear Artifacts: rootsComments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACWPSUS13(1.5)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

Matrix (soil/water): SOIL Lab Sample ID: 536031

Level (low/med): LOW Date Received: 07/26/03

% Solids: 97.7

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 3080 | | | P |
| 7440-36-0 | Antimony | 1.3 | B | N | P |
| 7440-38-2 | Arsenic | 8.9 | | | P |
| 7440-39-3 | Barium | 69.8 | | | P |
| 7440-41-7 | Beryllium | 0.26 | B | | P |
| 7440-43-9 | Cadmium | 0.10 | U | | P |
| 7440-70-2 | Calcium | 25.5 | U | | P |
| 7440-47-3 | Chromium | 3.0 | | | P |
| 7440-48-4 | Cobalt | 1.9 | B | | P |
| 7440-50-8 | Copper | 20.9 | | | P |
| 7439-89-6 | Iron | 21800 | | * | P |
| 7439-92-1 | Lead | 7.3 | | E | P |
| 7439-95-4 | Magnesium | 74.3 | B | | P |
| 7439-96-5 | Manganese | 15.8 | | | P |
| 7439-97-6 | Mercury | 3.7 | | | CV |
| 7440-02-0 | Nickel | 16.8 | | | P |
| 7440-09-7 | Potassium | 867 | | | P |
| 7782-49-2 | Selenium | 1.4 | | N | P |
| 7440-22-4 | Silver | 0.11 | B | | P |
| 7440-23-5 | Sodium | 46.2 | U | | P |
| 7440-28-0 | Thallium | 1.0 | | | P |
| 7440-62-2 | Vanadium | 19.1 | | | P |
| 7440-66-6 | Zinc | 29.0 | | | P |
| 57-12-5 | Cyanide | 0.45 | U | | AS |

Color Before: gray Clarity Before: _____ Texture: mediumColor After: yellow Clarity After: clear Artifacts: _____

Comments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUETASUS32 (1.5)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004
 Matrix (soil/water): SOIL Lab Sample ID: 536037
 Level (low/med): LOW Date Received: 07/26/03
 % Solids: 96.2

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 19100 | | | P |
| 7440-36-0 | Antimony | 1.7 | B | N | P |
| 7440-38-2 | Arsenic | 12.5 | | | P |
| 7440-39-3 | Barium | 130 | | | P |
| 7440-41-7 | Beryllium | 0.63 | | | P |
| 7440-43-9 | Cadmium | 3.0 | | | P |
| 7440-70-2 | Calcium | 4040 | | | P |
| 7440-47-3 | Chromium | 113 | | | P |
| 7440-48-4 | Cobalt | 31.4 | | | P |
| 7440-50-8 | Copper | 54.9 | | | P |
| 7439-89-6 | Iron | 49800 | | * | P |
| 7439-92-1 | Lead | 3.8 | | E | P |
| 7439-95-4 | Magnesium | 17500 | | | P |
| 7439-96-5 | Manganese | 8270 | | | P |
| 7439-97-6 | Mercury | 0.035 | | | CV |
| 7440-02-0 | Nickel | 221 | | | P |
| 7440-09-7 | Potassium | 1340 | | | P |
| 7782-49-2 | Selenium | 3.8 | | N | P |
| 7440-22-4 | Silver | 0.85 | B | | P |
| 7440-23-5 | Sodium | 363 | B | | P |
| 7440-28-0 | Thallium | 6.9 | | | P |
| 7440-62-2 | Vanadium | 93.3 | | | P |
| 7440-66-6 | Zinc | 138 | | | P |
| 57-12-5 | Cyanide | 0.49 | U | | AS |

Color Before: black Clarity Before: _____ Texture: mediumColor After: yellow Clarity After: clear Artifacts: _____Comments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUETASUS33(2.0)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004
 Matrix (soil/water): SOIL Lab Sample ID: 536039
 Level (low/med): LOW Date Received: 07/26/03
 % Solids: 95.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 13900 | | | P |
| 7440-36-0 | Antimony | 1.8 | B | N | P |
| 7440-38-2 | Arsenic | 10.5 | | | P |
| 7440-39-3 | Barium | 63.8 | | | P |
| 7440-41-7 | Beryllium | 0.51 | | | P |
| 7440-43-9 | Cadmium | 0.35 | B | | P |
| 7440-70-2 | Calcium | 3360 | | | P |
| 7440-47-3 | Chromium | 147 | | | P |
| 7440-48-4 | Cobalt | 20.0 | | | P |
| 7440-50-8 | Copper | 37.3 | | | P |
| 7439-89-6 | Iron | 39100 | | * | P |
| 7439-92-1 | Lead | 4.1 | | E | P |
| 7439-95-4 | Magnesium | 14200 | | | P |
| 7439-96-5 | Manganese | 856 | | | P |
| 7439-97-6 | Mercury | 0.052 | | | CV |
| 7440-02-0 | Nickel | 135 | | | P |
| 7440-09-7 | Potassium | 536 | | | P |
| 7782-49-2 | Selenium | 2.3 | | N | P |
| 7440-22-4 | Silver | 0.25 | B | | P |
| 7440-23-5 | Sodium | 275 | B | | P |
| 7440-28-0 | Thallium | 1.1 | | | P |
| 7440-62-2 | Vanadium | 63.1 | | | P |
| 7440-66-6 | Zinc | 69.8 | | | P |
| 57-12-5 | Cyanide | 0.53 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: medium
 Color After: yellow Clarity After: clear Artifacts: _____

Comments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

CLEABGSSS25 (0.5)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004
 Matrix (soil/water): SOIL Lab Sample ID: 536035
 Level (low/med): LOW Date Received: 07/26/03
 % Solids: 95.3

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 23100 | | | P |
| 7440-36-0 | Antimony | 1.2 | B | N | P |
| 7440-38-2 | Arsenic | 8.1 | | | P |
| 7440-39-3 | Barium | 311 | | | P |
| 7440-41-7 | Beryllium | 0.76 | | | P |
| 7440-43-9 | Cadmium | 0.16 | B | | P |
| 7440-70-2 | Calcium | 1520 | | | P |
| 7440-47-3 | Chromium | 12.5 | | | P |
| 7440-48-4 | Cobalt | 7.3 | | | P |
| 7440-50-8 | Copper | 52.6 | | | P |
| 7439-89-6 | Iron | 30300 | | * | P |
| 7439-92-1 | Lead | 8.2 | | E | P |
| 7439-95-4 | Magnesium | 1910 | | | P |
| 7439-96-5 | Manganese | 907 | | | P |
| 7439-97-6 | Mercury | 0.068 | | | CV |
| 7440-02-0 | Nickel | 21.9 | | | P |
| 7440-09-7 | Potassium | 1450 | | | P |
| 7782-49-2 | Selenium | 1.9 | | N | P |
| 7440-22-4 | Silver | 0.50 | B | | P |
| 7440-23-5 | Sodium | 299 | B | | P |
| 7440-28-0 | Thallium | 0.78 | B | | P |
| 7440-62-2 | Vanadium | 33.9 | | | P |
| 7440-66-6 | Zinc | 55.3 | | | P |
| 57-12-5 | Cyanide | 0.51 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: medium
 Color After: yellow Clarity After: clear Artifacts: roots

Comments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

CLEABGSSS26(0.5)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004
 Matrix (soil/water): SOIL Lab Sample ID: 536029
 Level (low/med): LOW Date Received: 07/26/03
 % Solids: 98.5

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 27500 | | | P |
| 7440-36-0 | Antimony | 0.50 | U | N | P |
| 7440-38-2 | Arsenic | 4.8 | | | P |
| 7440-39-3 | Barium | 430 | | | P |
| 7440-41-7 | Beryllium | 0.94 | | | P |
| 7440-43-9 | Cadmium | 0.16 | B | | P |
| 7440-70-2 | Calcium | 1880 | | | P |
| 7440-47-3 | Chromium | 11.7 | | | P |
| 7440-48-4 | Cobalt | 12.9 | | | P |
| 7440-50-8 | Copper | 35.3 | | | P |
| 7439-89-6 | Iron | 35300 | | * | P |
| 7439-92-1 | Lead | 7.3 | | E | P |
| 7439-95-4 | Magnesium | 1780 | | | P |
| 7439-96-5 | Manganese | 1520 | | | P |
| 7439-97-6 | Mercury | 0.045 | | | CV |
| 7440-02-0 | Nickel | 39.5 | | | P |
| 7440-09-7 | Potassium | 1110 | | | P |
| 7782-49-2 | Selenium | 1.3 | | N | P |
| 7440-22-4 | Silver | 0.53 | B | | P |
| 7440-23-5 | Sodium | 358 | B | | P |
| 7440-28-0 | Thallium | 1.5 | | | P |
| 7440-62-2 | Vanadium | 38.5 | | | P |
| 7440-66-6 | Zinc | 102 | | | P |
| 57-12-5 | Cyanide | 0.51 | U | | AS |

Color Before: brown Clarity Before: _____ Texture: medium
 Color After: yellow Clarity After: clear Artifacts: roots

Comments:

USEPA-CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

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) |
| Barium | 500.0 | 487.60 | 97.5 | 200.0 | 196.00 | 98.0 | 195.10 | 97.6 | P |
| Beryllium | 500.0 | 485.00 | 97.0 | 100.0 | 94.97 | 95.0 | 95.43 | 95.4 | P |
| Cobalt | 500.0 | 480.40 | 96.1 | 200.0 | 191.80 | 95.9 | 192.70 | 96.4 | P |
| Mercury | 3.0 | 2.92 | 97.3 | 5.0 | 4.87 | 97.4 | 4.44 | 88.8 | CV |
| Nickel | 500.0 | 484.20 | 96.8 | 200.0 | 189.60 | 94.8 | 190.40 | 95.2 | P |
| Silver | 500.0 | 491.30 | 98.3 | 100.0 | 98.27 | 98.3 | 98.95 | 99.0 | P |
| Thallium | 250.0 | 231.00 | 92.4 | 100.0 | 96.27 | 96.3 | 93.80 | 93.8 | P |
| Vanadium | 500.0 | 483.00 | 96.6 | 200.0 | 189.80 | 94.9 | 190.80 | 95.4 | P |
| Zinc | 500.0 | 475.90 | 95.2 | 200.0 | 186.50 | 93.2 | 185.90 | 93.0 | P |
| Cyanide | 120.0 | 127.66 | 106.4 | 150.0 | 149.12 | 99.4 | 152.71 | 101.8 | AS |

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

USEPA-CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

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) | |
| Barium | | | | 200.0 | 203.70 | 101.8 | 201.10 | 100.6 | P |
| Beryllium | | | | 100.0 | 101.10 | 101.1 | 103.00 | 103.0 | P |
| Cobalt | | | | 200.0 | 202.80 | 101.4 | 205.10 | 102.6 | P |
| Mercury | | | | 5.0 | 4.76 | 95.2 | 4.66 | 93.2 | CV |
| Nickel | | | | 200.0 | 200.60 | 100.3 | 203.30 | 101.6 | P |
| Silver | | | | 100.0 | 102.50 | 102.5 | 101.60 | 101.6 | P |
| Thallium | | | | 100.0 | 97.95 | 98.0 | 96.59 | 96.6 | P |
| Vanadium | | | | 200.0 | 201.20 | 100.6 | 202.00 | 101.0 | P |
| Zinc | | | | 200.0 | 198.00 | 99.0 | 203.60 | 101.8 | P |
| Cyanide | | | | 150.0 | 152.68 | 101.8 | 155.26 | 103.5 | AS |

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

USEPA-CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

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) |
| Barium | | | | 200.0 | 195.70 | 97.8 | | | P |
| Beryllium | | | | 100.0 | 106.40 | 106.4 | | | P |
| Cobalt | | | | 200.0 | 210.10 | 105.0 | | | P |
| Mercury | | | | 5.0 | 4.67 | 93.4 | 4.46 | 89.2 | CV |
| Nickel | | | | 200.0 | 209.60 | 104.8 | | | P |
| Silver | | | | 100.0 | 99.97 | 100.0 | | | P |
| Thallium | | | | 100.0 | 99.88 | 99.9 | | | P |
| Vanadium | | | | 200.0 | 205.10 | 102.6 | | | P |
| Zinc | | | | 200.0 | 215.40 | 107.7 | | | P |

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

USEPA-CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

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) |
| Mercury | | | | 5.0 | 4.62 | 92.4 | | | CV |

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

USEPA-CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

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 | 25190.00 | 96.9 | 30200.0 | 29820.00 | 98.7 | 29700.00 | 98.3 | P |
| Antimony | 250.0 | 238.20 | 95.3 | 300.0 | 303.60 | 101.2 | 295.30 | 98.4 | P |
| Cadmium | 500.0 | 464.40 | 92.9 | 100.0 | 96.73 | 96.7 | 95.95 | 96.0 | P |
| Calcium | 25000.0 | 24220.00 | 96.9 | 30200.0 | 29770.00 | 98.6 | 29620.00 | 98.1 | P |
| Cobalt | 500.0 | 465.90 | 93.2 | 200.0 | 195.10 | 97.6 | 194.50 | 97.2 | P |
| Iron | 25500.0 | 25240.00 | 99.0 | 30200.0 | 30040.00 | 99.5 | 29950.00 | 99.2 | P |
| Magnesium | 25000.0 | 24430.00 | 97.7 | 30200.0 | 29810.00 | 98.7 | 29790.00 | 98.6 | P |
| Manganese | 500.0 | 468.10 | 93.6 | 200.0 | 197.10 | 98.6 | 196.60 | 98.3 | P |
| Mercury | 3.0 | 2.88 | 96.0 | 5.0 | 4.85 | 97.0 | 4.71 | 94.2 | CV |
| Nickel | 500.0 | 468.90 | 93.8 | 200.0 | 194.40 | 97.2 | 193.70 | 96.8 | P |
| Potassium | 25000.0 | 23770.00 | 95.1 | 30200.0 | 29540.00 | 97.8 | 29520.00 | 97.7 | P |
| Sodium | 25000.0 | 23970.00 | 95.9 | 30200.0 | 29080.00 | 96.3 | 29000.00 | 96.0 | P |
| Zinc | 500.0 | 464.90 | 93.0 | 200.0 | 193.10 | 96.6 | 192.30 | 96.2 | P |

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

USEPA-CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

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 | 28450.00 | 94.2 | 29270.00 | 96.9 | P |
| Antimony | | | | 300.0 | 285.00 | 95.0 | 294.40 | 98.1 | P |
| Cadmium | | | | 100.0 | 92.58 | 92.6 | 95.09 | 95.1 | P |
| Calcium | | | | 30200.0 | 28350.00 | 93.9 | 29180.00 | 96.6 | P |
| Cobalt | | | | 200.0 | 186.10 | 93.0 | 191.80 | 95.9 | P |
| Iron | | | | 30200.0 | 28340.00 | 93.8 | 29170.00 | 96.6 | P |
| Magnesium | | | | 30200.0 | 28500.00 | 94.4 | 29210.00 | 96.7 | P |
| Manganese | | | | 200.0 | 187.40 | 93.7 | 191.10 | 95.6 | P |
| Nickel | | | | 200.0 | 187.10 | 93.6 | 191.50 | 95.8 | P |
| Potassium | | | | 30200.0 | 28500.00 | 94.4 | 29130.00 | 96.5 | P |
| Sodium | | | | 30200.0 | 28040.00 | 92.8 | 28670.00 | 94.9 | P |
| Zinc | | | | 200.0 | 185.10 | 92.6 | 190.20 | 95.1 | P |

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

USEPA-CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

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) |
| Arsenic | 250.0 | 245.40 | 98.2 | 100.0 | 97.78 | 97.8 | 101.90 | 101.9 | P |
| Chromium | 500.0 | 501.60 | 100.3 | 200.0 | 197.30 | 98.6 | 208.80 | 104.4 | P |
| Copper | 500.0 | 502.60 | 100.5 | 200.0 | 202.20 | 101.1 | 213.00 | 106.5 | P |
| Lead | 1000.0 | 984.20 | 98.4 | 400.0 | 387.30 | 96.8 | 409.50 | 102.4 | P |
| Selenium | 250.0 | 240.20 | 96.1 | 100.0 | 99.29 | 99.3 | 103.10 | 103.1 | P |

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

USEPA-CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

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) |
| Arsenic | | | | 100.0 | 100.60 | 100.6 | 102.30 | 102.3 | P |
| Chromium | | | | 200.0 | 202.00 | 101.0 | 207.00 | 103.5 | P |
| Copper | | | | 200.0 | 206.80 | 103.4 | 211.80 | 105.9 | P |
| Lead | | | | 400.0 | 395.30 | 98.8 | 404.30 | 101.1 | P |
| Selenium | | | | 100.0 | 101.40 | 101.4 | 102.60 | 102.6 | P |

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

USEPA-CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

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) |
| Arsenic | | | | 100.0 | 97.49 | 97.5 | | | P |
| Chromium | | | | 200.0 | 194.90 | 97.4 | | | P |
| Copper | | | | 200.0 | 202.10 | 101.0 | | | P |
| Lead | | | | 400.0 | 377.60 | 94.4 | | | P |
| Selenium | | | | 100.0 | 97.52 | 97.5 | | | P |

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

USEPA-CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

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) |
| Iron | 25500.0 | 25720.00 | 100.9 | 30200.0 | 30680.00 | 101.6 | 30840.00 | 102.1 | P |

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

USEPA-CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

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) |
| Iron | | | | 30200.0 | 29770.00 | 98.6 | | | P |

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

USEPA-CLP FORMS

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004AA CRDL Standard Source: Inorganic VenturesICP CRDL Standard Source: Inorganic Ventures

Concentration Units: ug/L

| Analyte | True | Found | %R | CRDL Standard for ICP | | | | |
|-----------|------|-------|-------|-----------------------|--------|-------|--------|-------|
| | | | | Initial | | | Final | |
| | | | | True | Found | %R | Found | %R |
| Barium | | | | 400.0 | 403.60 | 100.9 | 381.10 | 95.3 |
| Beryllium | | | | 10.0 | 9.67 | 96.7 | 11.41 | 114.1 |
| Cobalt | | | | 100.0 | 97.07 | 97.1 | 100.90 | 100.9 |
| Mercury | 0.2 | 0.25 | 125.0 | | | | | |
| Nickel | | | | 80.0 | 79.04 | 98.8 | 82.97 | 103.7 |
| Silver | | | | 20.0 | 20.36 | 101.8 | 19.58 | 97.9 |
| Thallium | | | | 20.0 | 19.21 | 96.0 | 19.16 | 95.8 |
| Vanadium | | | | 100.0 | 99.91 | 99.9 | 102.20 | 102.2 |
| Zinc | | | | 40.0 | 38.36 | 95.9 | 42.40 | 106.0 |

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

USEPA-CLP FORMS

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004AA CRDL Standard Source: Inorganic VenturesICP CRDL Standard Source: Inorganic Ventures

Concentration Units: ug/L

| Analyte | True | Found | %R | CRDL Standard for ICP | | | | |
|-----------|------|-------|-------|-----------------------|----------|-------|----------|-------|
| | | | | Initial | | | Final | |
| | | | | True | Found | %R | Found | %R |
| Aluminum | | | | 400.0 | 552.80 | 138.2 | 591.90 | 148.0 |
| Antimony | | | | 120.0 | 118.90 | 99.1 | 120.00 | 100.0 |
| Cadmium | | | | 10.0 | 9.85 | 98.5 | 9.90 | 99.0 |
| Calcium | | | | 10000.0 | 10260.00 | 102.6 | 10190.00 | 101.9 |
| Cobalt | | | | 100.0 | 95.18 | 95.2 | 94.79 | 94.8 |
| Iron | | | | 200.0 | 230.10 | 115.0 | 257.10 | 128.6 |
| Magnesium | | | | 10000.0 | 10220.00 | 102.2 | 10160.00 | 101.6 |
| Manganese | | | | 30.0 | 28.22 | 94.1 | 28.76 | 95.9 |
| Mercury | 0.2 | 0.25 | 125.0 | | | | | |
| Nickel | | | | 80.0 | 78.66 | 98.3 | 79.70 | 99.6 |
| Potassium | | | | 10000.0 | 9636.00 | 96.4 | 9561.00 | 95.6 |
| Sodium | | | | 10000.0 | 10070.00 | 100.7 | 10160.00 | 101.6 |
| Zinc | | | | 40.0 | 41.71 | 104.3 | 42.08 | 105.2 |

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

USEPA-CLP FORMS

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

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 |
| Arsenic | | | | 20.0 | 19.04 | 95.2 | 19.59 | 98.0 |
| Chromium | | | | 20.0 | 23.28 | 116.4 | 23.08 | 115.4 |
| Copper | | | | 50.0 | 52.04 | 104.1 | 52.38 | 104.8 |
| Lead | | | | 6.0 | 5.75 | 95.8 | 7.14 | 119.0 |
| Selenium | | | | 10.0 | 10.61 | 106.1 | 9.41 | 94.1 |

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

USEPA-CLP FORMS

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

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 | | Final | | |
| | | | | True | Found | %R | Found | %R |
| Iron | | | | 200.0 | 265.90 | 133.0 | 293.70 | 146.8 |

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

USEPA-CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

Preparation Blank Matrix (soil/water): SOIL

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

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M | |
|-----------|-----------------------------|---|-------------------------------------|---|------|---|------|---|-------------------|--------|---|----|
| | | C | 1 | C | 2 | C | 3 | C | | C | | |
| Aluminum | | | | | | | | | | 6.310 | U | P |
| Antimony | | | | | | | | | | 0.500 | U | P |
| Barium | 7.3 | U | 7.3 | U | 7.3 | U | 7.3 | U | | 0.730 | U | P |
| Beryllium | 0.2 | U | -0.5 | B | -0.4 | B | 0.6 | B | | -0.069 | B | P |
| Cadmium | | | | | | | | | | 0.120 | U | P |
| Calcium | | | | | | | | | | 29.420 | U | P |
| Cobalt | 1.8 | U | 1.8 | U | 1.8 | U | 1.8 | U | | 0.180 | U | P |
| Iron | | | | | | | | | | 6.670 | U | P |
| Magnesium | | | | | | | | | | 29.280 | U | P |
| Manganese | | | | | | | | | | 0.190 | U | P |
| Mercury | 0.1 | B | 0.1 | U | 0.1 | U | 0.1 | U | | 0.017 | U | CV |
| Nickel | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | | -0.427 | B | P |
| Potassium | | | | | | | | | | 37.070 | U | P |
| Silver | 0.9 | U | 0.9 | U | 0.9 | U | 0.9 | U | | -0.111 | B | P |
| Sodium | | | | | | | | | | 77.930 | B | P |
| Thallium | 2.8 | U | 2.8 | U | 2.8 | U | 3.3 | B | | -0.920 | B | P |
| Vanadium | 2.2 | U | 2.2 | U | 2.2 | U | 2.2 | U | | 0.220 | U | P |
| Zinc | 5.7 | U | 5.7 | U | 5.7 | U | 5.7 | U | | 0.592 | B | P |
| Cyanide | 10.0 | U | 10.0 | U | 10.0 | U | 10.0 | U | | 0.500 | U | AS |

USEPA-CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

Preparation Blank Matrix (soil/water): WATER

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

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|-----------|-----------------------------|--|-------------------------------------|---|-----|---|-----|---|-------------------|--|----|
| | C | | 1 | C | 2 | C | 3 | C | C | | |
| Barium | | | 7.3 | U | 7.3 | U | | | | | P |
| Beryllium | | | 1.1 | B | 0.9 | B | | | | | P |
| Cobalt | | | 1.8 | U | 1.8 | U | | | | | P |
| Mercury | | | 0.1 | U | 0.1 | U | 0.1 | U | | | CV |
| Nickel | | | 2.0 | U | 2.0 | U | | | | | P |
| Silver | | | 0.9 | U | 0.9 | U | | | | | P |
| Thallium | | | 2.8 | U | 2.8 | U | | | | | P |
| Vanadium | | | 2.2 | U | 2.2 | U | | | | | P |
| Zinc | | | 5.7 | U | 5.7 | U | | | | | P |
| Cyanide | | | 10.0 | U | | | | | | | AS |

USEPA-CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

Preparation Blank Matrix (soil/water): WATER

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

| Analyte | Initial Calib. Blank (ug/L) | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | M |
|---------|--------------------------------------|--|-----|---|---|---|---|----------------------|----|
| | | C | 1 | C | 2 | C | 3 | | |
| Mercury | | | 0.1 | U | | | | | CV |

USEPA-CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

Preparation Blank Matrix (soil/water): WATER

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

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|-----------|-----------------------------|---|-------------------------------------|---|-------|---|-------|---|-------------------|---|----|
| | | C | 1 | C | 2 | C | 3 | C | | C | |
| Aluminum | 63.1 | U | 63.1 | U | 63.1 | U | 63.1 | U | | | P |
| Antimony | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | | | P |
| Cadmium | 1.2 | U | 1.2 | U | 1.2 | U | 1.2 | U | | | P |
| Calcium | 294.2 | U | 294.2 | U | 294.2 | U | 294.2 | U | | | P |
| Cobalt | 3.7 | U | 3.7 | U | 3.7 | U | 3.7 | U | | | P |
| Iron | 66.7 | U | 66.7 | U | 66.7 | U | 66.7 | U | | | P |
| Magnesium | 292.8 | U | 292.8 | U | 292.8 | U | 292.8 | U | | | P |
| Manganese | 1.9 | U | 1.9 | U | 1.9 | U | 1.9 | U | | | P |
| Mercury | 0.1 | U | 0.1 | U | 0.1 | B | | | | | CV |
| Nickel | 4.4 | U | 4.4 | U | 4.4 | U | 4.4 | U | | | P |
| Potassium | 370.7 | U | 370.7 | U | 370.7 | U | 370.7 | U | | | P |
| Sodium | 532.3 | U | 532.3 | U | 532.3 | U | 532.3 | U | | | P |
| Zinc | 1.6 | U | 1.6 | U | 1.6 | U | 1.6 | U | | | P |

USEPA-CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

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) | | | | | | Preparation Blank | | M |
|-----------|--------------------------------------|---|--|---|---|---|---|---|----------------------|---|---|
| | | | 1 | C | 2 | C | 3 | C | C | C | |
| Aluminum | | | 63.1 | U | | | | | | | P |
| Antimony | | | 5.0 | U | | | | | | | P |
| Cadmium | | | 1.2 | U | | | | | | | P |
| Calcium | | | 294.2 | U | | | | | | | P |
| Cobalt | | | 3.7 | U | | | | | | | P |
| Iron | | | 66.7 | U | | | | | | | P |
| Magnesium | | | 292.8 | U | | | | | | | P |
| Manganese | | | 1.9 | U | | | | | | | P |
| Nickel | | | 4.4 | U | | | | | | | P |
| Potassium | | | 370.7 | U | | | | | | | P |
| Sodium | | | 532.3 | U | | | | | | | P |
| Zinc | | | 1.6 | U | | | | | | | P |

USEPA-CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

Preparation Blank Matrix (soil/water): SOIL

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

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|----------|-----------------------------|---|-------------------------------------|---|------|---|-----|---|-------------------|---|---|
| | | C | 1 | C | 2 | C | 3 | C | | C | |
| Arsenic | 2.4 | U | 2.4 | U | -2.5 | B | 2.4 | U | 0.240 | U | P |
| Chromium | 0.6 | U | 0.6 | U | 0.6 | U | 0.6 | U | 0.102 | B | P |
| Copper | 1.4 | U | 1.4 | U | 1.4 | U | 1.4 | U | 0.140 | U | P |
| Lead | 1.5 | U | 1.5 | U | 1.5 | U | 1.5 | U | 0.150 | U | P |
| Selenium | 1.7 | U | 1.7 | B | 1.7 | U | 1.7 | U | 0.170 | U | P |

USEPA-CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

Preparation Blank Matrix (soil/water): WATER

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

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|----------|-----------------------------|--|-------------------------------------|---|-----|---|---|---|-------------------|--|---|
| | C | | 1 | C | 2 | C | 3 | C | C | | |
| Arsenic | | | 2.4 | U | 2.4 | U | | | | | P |
| Chromium | | | 0.6 | U | 0.6 | B | | | | | P |
| Copper | | | 1.4 | U | 2.7 | B | | | | | P |
| Lead | | | 1.5 | U | 1.5 | U | | | | | P |
| Selenium | | | 1.7 | U | 1.7 | U | | | | | P |

USEPA-CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

Preparation Blank Matrix (soil/water): WATER

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

| Analyte | Initial Calib. Blank (ug/L) | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | C | M |
|---------|--------------------------------------|--|---|----------|---|----------|---|----------------------|---|---|
| | | 1 | C | 2 | C | 3 | C | | | |
| Iron | 66.7 U | 66.7 U | | 66.7 U | | 66.7 U | | | | P |

USEPA-CLP FORMS

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

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 |
| Barium | 0 | 466 | 1 | 510.2 | 109.5 | 2 | 494.5 | 106.1 |
| Beryllium | 0 | 446 | -1 | 479.6 | 107.5 | 0 | 503.2 | 112.8 |
| Cobalt | 0 | 435 | 8 | 470.0 | 108.0 | 8 | 489.7 | 112.6 |
| Nickel | 0 | 877 | 11 | 954.1 | 108.8 | 11 | 994.8 | 113.4 |
| Silver | 0 | 196 | 1 | 218.9 | 111.7 | 0 | 216.1 | 110.3 |
| Thallium | 0 | 95 | 5 | 97.1 | 102.2 | 4 | 95.1 | 100.1 |
| Vanadium | 0 | 417 | -2 | 457.2 | 109.6 | -2 | 470.8 | 112.9 |
| Zinc | 0 | 841 | 9 | 934.8 | 111.2 | 10 | 992.6 | 118.0 |

USEPA-CLP FORMS

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

ICP ID Number: TJA ICAP 5 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 | 466480 | 514900 | 503500.0 | 107.9 | 495200 | 489200.0 | 104.9 |
| Antimony | 0 | 550 | 4 | 587.6 | 106.8 | 6 | 570.0 | 103.6 |
| Cadmium | 0 | 860 | -4 | 897.1 | 104.3 | -4 | 873.4 | 101.6 |
| Calcium | 500000 | 484600 | 531200 | 521100.0 | 107.5 | 510300 | 506400.0 | 104.5 |
| Cobalt | 0 | 416 | -2 | 432.9 | 104.1 | -2 | 421.0 | 101.2 |
| Iron | 200000 | 179960 | 199000 | 193800.0 | 107.7 | 189300 | 186800.0 | 103.8 |
| Magnesium | 500000 | 480220 | 515800 | 509200.0 | 106.0 | 495500 | 495300.0 | 103.1 |
| Manganese | 0 | 423 | 4 | 456.4 | 107.9 | 5 | 439.4 | 103.9 |
| Nickel | 0 | 859 | 0 | 892.7 | 103.9 | -1 | 869.9 | 101.3 |
| Potassium | 0 | 0 | -73 | -89.6 | | -267 | -59.1 | |
| Sodium | 0 | 0 | 60 | -196.6 | | -643 | -648.4 | |
| Zinc | 0 | 914 | -9 | 938.1 | 102.6 | -9 | 912.6 | 99.8 |

USEPA-CLP FORMS

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

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 |
| Arsenic | 0 | 98 | 1 | 101.0 | 103.1 | 2 | 97.3 | 99.3 |
| Chromium | 0 | 471 | 6 | 483.1 | 102.6 | 5 | 468.2 | 99.4 |
| Copper | 0 | 526 | 4 | 529.9 | 100.7 | 5 | 514.7 | 97.9 |
| Lead | 0 | 48 | -2 | 47.2 | 98.3 | 2 | 44.9 | 93.5 |
| Selenium | 0 | 46 | 6 | 51.5 | 112.0 | 6 | 50.5 | 109.8 |

USEPA-CLP FORMS

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

ICP ID Number: TJA ICAP 5 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 |
| Iron | 200000 | 189440 | 201200 | 201700.0 | 106.5 | 212800 | 208100.0 | 109.9 |

USEPA-CLP FORMS

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

CLEABGSSS25 (0.5) S

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004Matrix (soil/water): SOIL Level (low/med): LOW% Solids for Sample: 95.3Concentration 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 | | 24751.5605 | 23143.2891 | 205.75 | 781.7 | | P |
| Antimony | 75 - 125 | 20.7292 | 1.2067 B | 51.44 | 38.0 | N | P |
| Arsenic | 75 - 125 | 11.7943 | 8.0579 | 4.20 | 89.0 | | P |
| Barium | 75 - 125 | 519.0009 | 311.3948 | 205.75 | 100.9 | | P |
| Beryllium | 75 - 125 | 5.7178 | 0.7557 | 5.14 | 96.5 | | P |
| Cadmium | 75 - 125 | 4.8485 | 0.1574 B | 5.14 | 91.3 | | P |
| Chromium | 75 - 125 | 33.7985 | 12.5191 | 20.99 | 101.4 | | P |
| Cobalt | 75 - 125 | 54.6777 | 7.3083 | 51.44 | 92.1 | | P |
| Copper | 75 - 125 | 76.9150 | 52.5802 | 26.23 | 92.8 | | P |
| Iron | | 19618.1309 | 30333.0605 | 102.87 | -10416. | | P |
| Lead | 75 - 125 | 10.3736 | 8.2086 | 2.10 | 103.1 | | P |
| Manganese | | 950.3528 | 907.4658 | 51.44 | 83.4 | | P |
| Mercury | 75 - 125 | 0.2396 | 0.0684 | 0.17 | 100.7 | | CV |
| Nickel | 75 - 125 | 68.4423 | 21.8511 | 51.44 | 90.6 | | P |
| Selenium | 75 - 125 | 2.6600 | 1.8773 | 1.05 | 74.5 | N | P |
| Silver | 75 - 125 | 5.3659 | 0.5004 B | 5.14 | 94.7 | | P |
| Thallium | 75 - 125 | 5.0985 | 0.7828 B | 5.14 | 84.0 | | P |
| Vanadium | 75 - 125 | 79.9539 | 33.9377 | 51.44 | 89.5 | | P |
| Zinc | 75 - 125 | 102.8743 | 55.3321 | 51.44 | 92.4 | | P |
| Cyanide | 75 - 125 | 5.2737 | 0.5094 U | 5.25 | 100.5 | | AS |

Comments:

USEPA-CLP FORMS

5B

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

CLEABGSSS25(0.5)A

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS _____ SDG No.: GCS004

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 | | 221500.00 | | 238200.00 | | 2000.0 | -835.0 | | P |
| Antimony | | 468.10 | | 12.42 | B | 500.0 | 91.1 | | P |
| Arsenic | | 110.80 | | 77.56 | | 40.0 | 83.1 | | P |
| Barium | | 4998.00 | | 3205.00 | | 2000.0 | 89.6 | | P |
| Beryllium | | 55.00 | | 7.78 | | 50.0 | 94.4 | | P |
| Cadmium | | 47.26 | | 1.62 | B | 50.0 | 91.3 | | P |
| Chromium | | 312.70 | | 120.50 | | 200.0 | 96.1 | | P |
| Cobalt | | 524.30 | | 75.22 | | 500.0 | 89.8 | | P |
| Copper | | 753.10 | | 506.10 | | 250.0 | 98.8 | | P |
| Iron | | 287600.00 | | 312200.00 | | 1000.0 | -2460. | | P |
| Lead | | 96.70 | | 79.01 | | 20.0 | 88.4 | | P |
| Manganese | | 9047.00 | | 9340.00 | | 500.0 | -58.6 | | P |
| Nickel | | 663.80 | | 224.90 | | 500.0 | 87.8 | | P |
| Selenium | | 27.12 | | 18.07 | | 10.0 | 90.5 | | P |
| Silver | | 52.19 | | 5.15 | B | 50.0 | 94.1 | | P |
| Thallium | | 55.55 | | 8.06 | B | 50.0 | 95.0 | | P |
| Vanadium | | 824.10 | | 349.30 | | 500.0 | 95.0 | | P |
| Zinc | | 982.50 | | 569.50 | | 500.0 | 82.6 | | P |
| Cyanide | | 22.62 | | 10.00 | U | 20.0 | 113.1 | | AS |

Comments: _____

USEPA-CLP FORMS

6

DUPLICATES

SAMPLE NO.

CLEABGSSS25 (0.5)D

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004Matrix (soil/water): SOIL Level (low/med): LOW% Solids for Sample: 95.3 % Solids for Duplicate: 94.5Concentration Units (ug/L or mg/kg dry weight): MG/KG

| Analyte | Control Limit | Sample (S) | C | Duplicate (D) | C | RPD | Q | M |
|-----------|---------------|------------|---|---------------|---|-------|---|----|
| Aluminum | | 23143.2891 | | 22735.2207 | | 1.8 | | P |
| Antimony | | 1.2067 | B | 0.7324 | B | 48.9 | | P |
| Arsenic | | 8.0579 | | 7.3074 | | 9.8 | | P |
| Barium | | 311.3948 | | 300.1244 | | 3.7 | | P |
| Beryllium | 0.5 | 0.7557 | | 0.7428 | | 1.7 | | P |
| Cadmium | | 0.1574 | B | 0.1166 | U | 200.0 | | P |
| Calcium | 485.8 | 1516.6530 | | 1466.1300 | | 3.4 | | P |
| Chromium | | 12.5191 | | 13.8720 | | 10.3 | | P |
| Cobalt | 4.9 | 7.3083 | | 6.7448 | | 8.0 | | P |
| Copper | | 52.5802 | | 50.7975 | | 3.4 | | P |
| Iron | | 30333.0605 | | 20131.3594 | | 40.4 | * | P |
| Lead | | 8.2086 | | 8.2749 | | 0.8 | | P |
| Magnesium | 485.8 | 1908.2040 | | 2211.3401 | | 14.7 | | P |
| Manganese | | 907.4658 | | 929.2294 | | 2.4 | | P |
| Mercury | 0.0 | 0.0684 | | 0.0606 | | 12.1 | | CV |
| Nickel | | 21.8511 | | 19.7039 | | 10.3 | | P |
| Potassium | 485.8 | 1449.6130 | | 1600.2100 | | 9.9 | | P |
| Selenium | 0.5 | 1.8773 | | 1.7733 | | 5.7 | | P |
| Silver | | 0.5004 | B | 0.4905 | B | 2.0 | | P |
| Sodium | | 298.8613 | B | 290.7971 | B | 2.7 | | P |
| Thallium | | 0.7828 | B | 0.7834 | B | 0.1 | | P |
| Vanadium | | 33.9377 | | 28.1178 | | 18.8 | | P |
| Zinc | | 55.3321 | | 54.5257 | | 1.5 | | P |
| Cyanide | | 0.5094 | U | 0.4997 | U | | | AS |

USEPA-CLP FORMS

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004
 Solid LCS Source: Environmental Express
 Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|-----------|----------------|-------|----|---------------|---------|--------|--------|-------|
| | True | Found | %R | True | Found C | Limits | | %R |
| Aluminum | | | | 200.0 | 208.4 | 160.0 | 240.0 | 104.2 |
| Antimony | | | | 50.0 | 50.6 | 40.0 | 60.0 | 101.2 |
| Barium | | | | 200.0 | 209.0 | 160.0 | 240.0 | 104.5 |
| 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 | 2049.0 | 1600.0 | 2400.0 | 102.4 |
| Cobalt | | | | 50.0 | 50.8 | 40.0 | 60.0 | 101.6 |
| Iron | | | | 100.0 | 110.1 | 80.0 | 120.0 | 110.1 |
| Magnesium | | | | 2000.0 | 2038.0 | 1600.0 | 2400.0 | 101.9 |
| Manganese | | | | 50.0 | 50.2 | 40.0 | 60.0 | 100.4 |
| Mercury | | | | 0.1 | 0.1 | 0.1 | 0.1 | 100.0 |
| Nickel | | | | 50.0 | 50.3 | 40.0 | 60.0 | 100.6 |
| Potassium | | | | 2000.0 | 1823.0 | 1600.0 | 2400.0 | 91.2 |
| Silver | | | | 25.0 | 26.2 | 20.0 | 30.0 | 104.8 |
| Sodium | | | | 2000.0 | 2137.0 | 1600.0 | 2400.0 | 106.8 |
| Thallium | | | | 25.0 | 23.6 | 20.0 | 30.0 | 94.4 |
| Vanadium | | | | 50.0 | 52.9 | 40.0 | 60.0 | 105.8 |
| Zinc | | | | 50.0 | 49.6 | 40.0 | 60.0 | 99.2 |
| Cyanide | | | | 6.0 | 6.3 | 5.4 | 6.6 | 105.0 |

USEPA-CLP FORMS

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

Solid LCS Source: Environmental Express

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|----------|----------------|-------|----|---------------|---------|--------|------|-------|
| | True | Found | %R | True | Found C | Limits | | %R |
| Arsenic | | | | 24.0 | 25.7 | 19.2 | 28.8 | 107.1 |
| Chromium | | | | 20.0 | 22.8 | 16.0 | 24.0 | 114.0 |
| Copper | | | | 25.0 | 29.1 | 20.0 | 30.0 | 116.4 |
| Lead | | | | 22.0 | 23.2 | 17.6 | 26.4 | 105.5 |
| Selenium | | | | 21.0 | 20.8 | 16.8 | 25.2 | 99.0 |

USEPA-CLP FORMS

9
ICP SERIAL DILUTIONS

SAMPLE NO.

CLEABGSSS25 (0.5) L

Lab Name: STL BURLINGTON

Contract: 23046

Lab Code: STLVT

Case No.: 23046

SAS No.:

SDG No.: GCS004

Matrix (soil/water): SOIL

Level (low/med):

LOW

Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | | Serial Dilution Result (S) | | % Difference | Q | M |
|-----------|---------------------------|---|----------------------------|---|--------------|---|---|
| | | C | | C | | | |
| Aluminum | 238200.00 | | 243400.00 | | 2.2 | | P |
| Antimony | 12.42 | B | 25.00 | U | 100.0 | | P |
| Arsenic | 77.56 | | 80.17 | | 3.4 | | P |
| Barium | 3205.00 | | 3503.00 | | 9.3 | | P |
| Beryllium | 7.78 | | 9.64 | B | 23.9 | | P |
| Cadmium | 1.62 | B | 6.00 | U | 100.0 | | P |
| Calcium | 15610.00 | | 15930.00 | B | 2.0 | | P |
| Chromium | 120.50 | | 131.00 | | 8.7 | | P |
| Cobalt | 75.22 | | 77.88 | B | 3.5 | | P |
| Copper | 506.10 | | 534.40 | | 5.6 | | P |
| Iron | 312200.00 | | 317100.00 | | 1.6 | | P |
| Lead | 79.01 | | 88.71 | | 12.3 | E | P |
| Magnesium | 19640.00 | | 20220.00 | B | 3.0 | | P |
| Manganese | 9340.00 | | 9479.00 | | 1.5 | | P |
| Nickel | 224.90 | | 235.10 | | 4.5 | | P |
| Potassium | 14920.00 | | 16900.00 | B | 13.3 | | P |
| Selenium | 18.07 | | 29.79 | | 64.9 | | P |
| Silver | 5.15 | B | 7.76 | B | 50.7 | | P |
| Sodium | 3076.00 | B | 2661.50 | U | 100.0 | | P |
| Thallium | 8.06 | B | 14.00 | U | 100.0 | | P |
| Vanadium | 349.30 | | 384.40 | | 10.0 | | P |
| Zinc | 569.50 | | 588.30 | | 3.3 | | P |

USEPA-CLP FORMS

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

ICP ID Number: _____ Date: 07/01/03

Flame AA ID Number: Lachat Cyanide

Furnace AA ID Number: _____

| Analyte | Wave-length (nm) | Back-ground | CRDL (ug/L) | IDL (ug/L) | M |
|---------|------------------|-------------|-------------|------------|----|
| Cyanide | | | 10 | 10.0 | AS |

Comments:

USEPA-CLP FORMS

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

ICP ID Number: _____ Date: 07/01/03

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:

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004ICP ID Number: TJA ICAP 5 Date: 07/01/03

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 | 63.1 | P |
| Antimony | 206.838 | | 60 | 5.0 | P |
| Cadmium | 226.501 | | 5 | 1.2 | P |
| Calcium | 317.933 | | 5000 | 294.2 | P |
| Cobalt | 228.611 | | 50 | 3.7 | P |
| Iron | 271.441 | | 100 | 66.7 | P |
| Magnesium | 279.079 | | 5000 | 292.8 | P |
| Manganese | 294.920 | | 15 | 1.9 | P |
| Nickel | 231.601 | | 40 | 4.4 | P |
| Potassium | 766.491 | | 5000 | 370.7 | P |
| Sodium | 330.232 | | 5000 | 532.3 | P |
| Zinc | 213.851 | | 20 | 1.6 | P |

Comments: _____

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004ICP ID Number: TJA ICAP 6 Date: 07/01/03

Flame AA ID Number: _____

Furnace AA ID Number: _____

| Analyte | Wave-length (nm) | Back-ground | CRDL (ug/L) | IDL (ug/L) | M |
|-----------|------------------|-------------|-------------|------------|---|
| Arsenic | 189.042 | | 10 | 2.4 | P |
| Barium | 493.409 | | 200 | 7.3 | P |
| Beryllium | 313.042 | | 5 | 0.2 | P |
| Chromium | 267.716 | | 10 | 0.6 | P |
| Cobalt | 228.616 | | 50 | 1.8 | P |
| Copper | 324.754 | | 25 | 1.4 | P |
| Lead | 220.353 | | 3 | 1.5 | P |
| Nickel | 231.604 | | 40 | 2.0 | P |
| Selenium | 196.026 | | 5 | 1.7 | P |
| Silver | 328.068 | | 10 | 0.9 | P |
| Thallium | 190.864 | | 10 | 2.8 | P |
| Vanadium | 292.402 | | 50 | 2.2 | P |
| Zinc | 206.200 | | 20 | 5.7 | P |

Comments:

USEPA-CLP FORMS

11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004ICP ID Number: TJA ICAP 5 Date: 10/02/02

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | | |
|------------|------------------|--------------------------------------|-----------|------------|-----------|-----------|
| | | Al | Ca | Fe | Mg | Ag |
| 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 | 0.0000050 | 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 |
| Cadmium | 226.50 | 0.0000070 | 0.0000000 | 0.0000830 | 0.0000000 | 0.0000000 |
| Calcium | 317.93 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.72 | 0.0000290 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cobalt | 228.61 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper | 324.75 | 0.0000000 | 0.0000000 | 0.0000060 | 0.0000000 | 0.0000000 |
| Iron | 271.44 | 0.0001300 | 0.0000000 | 0.0000000 | -0.000400 | 0.0000000 |
| Lead | 220.35 | 0.0008600 | 0.0000000 | 0.0000920 | -0.000008 | 0.0000000 |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 294.92 | 0.0000000 | 0.0000000 | 0.0006580 | 0.0000180 | 0.0000000 |
| Molybdenum | 202.03 | 0.0000000 | 0.0000000 | 0.0000260 | 0.0000000 | 0.0000000 |
| Nickel | 231.60 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Phosphorus | 178.29 | 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 | 0.0000100 | 0.0000000 | -0.0001300 | -0.000010 | 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 |
| Strontium | 421.55 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.86 | -0.0000090 | 0.0000000 | -0.0004350 | 0.0000000 | 0.0000000 |
| Titanium | 334.94 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Vanadium | 292.40 | 0.0000000 | 0.0000000 | -0.0003250 | 0.0000000 | 0.0000000 |
| Zinc | 213.85 | 0.0000000 | 0.0000000 | 0.0000800 | 0.0000390 | 0.0000000 |

Comments: _____

USEPA-CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

ICP ID Number: TJA ICAP 5 Date: 10/02/02

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | | |
|------------|------------------|--------------------------------------|-----------|-----------|-----------|------------|
| | | As | B | Be | Cd | Co |
| Aluminum | 308.22 | 0.0026340 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Antimony | 206.84 | 0.0002400 | 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 | 0.0000000 | 0.0000000 |
| Cadmium | 226.50 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000840 |
| 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 | 228.61 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper | 324.75 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000610 |
| Iron | 271.44 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0840960 |
| Lead | 220.35 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0026440 |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 294.92 | 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 | 0.0022990 |
| Phosphorus | 178.29 | 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 | 0.0000000 | 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 |
| Strontium | 421.55 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.86 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0018110 |
| Titanium | 334.94 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0002200 |
| Vanadium | 292.40 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc | 213.85 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

Comments: _____

USEPA-CLP FORMS

11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004ICP ID Number: TJA ICAP 5 Date: 10/02/02

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | | |
|------------|------------------|--------------------------------------|------------|-----------|-----------|-----------|
| | | Cr | Cu | Mn | Na | Ni |
| Aluminum | 308.22 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Antimony | 206.84 | 0.0087280 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Arsenic | 189.04 | -0.0088830 | 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 | 0.0000000 | 0.0000000 |
| Cadmium | 226.50 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0001070 |
| 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 | 228.61 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| 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 | -0.0000530 | -0.0000340 | 0.0000000 | 0.0000000 | 0.0000000 |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 294.92 | -0.0015990 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Molybdenum | 202.03 | 0.0004700 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Nickel | 231.60 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Phosphorus | 178.29 | 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 | 0.0000000 | 0.0000000 | 0.0000000 |
| Silver | 328.07 | -0.0000990 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Sodium | 330.23 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Strontium | 421.55 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.86 | 0.0002810 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Titanium | 334.94 | 0.0002200 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Vanadium | 292.40 | -0.0020840 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc | 213.85 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

Comments: _____

USEPA-CLP FORMS

11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCS004ICP ID Number: TJA ICAP 5Date: 10/02/02

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | | |
|------------|------------------|--------------------------------------|------------|-----------|-----------|-----------|
| | | Pb | Sb | Se | Si | Tl |
| 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 | 0.0000000 | 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 | 0.0000000 | 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 | 228.61 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| 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 | 0.0000000 | -0.0001650 | 0.0000000 | 0.0000000 | 0.0000000 |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 294.92 | 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 | 0.0005120 |
| Phosphorus | 178.29 | 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 | 0.0000000 | 0.0000000 | 0.0000650 |
| 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 |
| Strontium | 421.55 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.86 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Titanium | 334.94 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Vanadium | 292.40 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc | 213.85 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

Comments: _____

USEPA-CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

ICP ID Number: TJA ICAP 5 Date: 10/02/02

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | |
|------------|------------------|--------------------------------------|-----------|--|--|
| | | V | Zn | | |
| Aluminum | 308.22 | -0.0084630 | 0.0000000 | | |
| Antimony | 206.84 | -0.0060220 | 0.0000000 | | |
| Arsenic | 189.04 | 0.0000000 | 0.0000000 | | |
| Barium | 493.41 | 0.0000000 | 0.0000000 | | |
| Beryllium | 313.04 | 0.0009440 | 0.0000000 | | |
| Cadmium | 226.50 | 0.0000000 | 0.0000000 | | |
| Calcium | 317.93 | 0.0000000 | 0.0000000 | | |
| Chromium | 267.72 | -0.0001950 | 0.0000000 | | |
| Cobalt | 228.61 | 0.0000000 | 0.0000000 | | |
| Copper | 324.75 | 0.0000000 | 0.0000000 | | |
| Iron | 271.44 | 0.0124990 | 0.0000000 | | |
| Lead | 220.35 | 0.0000000 | 0.0000000 | | |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | | |
| Manganese | 294.92 | 0.0078880 | 0.0000000 | | |
| Molybdenum | 202.03 | -0.0000010 | 0.0000000 | | |
| Nickel | 231.60 | 0.0000000 | 0.0000000 | | |
| Phosphorus | 178.29 | 0.0000000 | 0.0000000 | | |
| Potassium | 766.49 | 0.0000000 | 0.0000000 | | |
| Selenium | 196.03 | 0.0000920 | 0.0000000 | | |
| Silver | 328.07 | 0.0000910 | 0.0000000 | | |
| Sodium | 330.23 | 0.0000000 | 0.0593250 | | |
| Strontium | 421.55 | 0.0000000 | 0.0000000 | | |
| Thallium | 190.86 | -0.0011100 | 0.0000000 | | |
| Titanium | 334.94 | 0.0000000 | 0.0000000 | | |
| Vanadium | 292.40 | 0.0000000 | 0.0000000 | | |
| Zinc | 213.85 | -0.0000350 | 0.0000000 | | |

Comments: _____

USEPA-CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

ICP ID Number: TJA ICAP 6 Date: 10/01/02

| 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: _____

USEPA-CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004ICP ID Number: TJA ICAP 6 Date: 10/01/02

| 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: _____

USEPA-CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004
 ICP ID Number: TJA ICAP 6 Date: 10/01/02

| 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: _____

USEPA-CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004

ICP ID Number: TJA ICAP 6 Date: 10/01/02

| 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: _____

USEPA-CLP FORMS

11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004ICP ID Number: TJA ICAP 6 Date: 10/01/02

| 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 FORMS

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004ICP ID Number: TJA ICAP 5 Date: 07/01/03

| Analyte | Integ. Time (Sec.) | Concentration (ug/L) | M |
|-----------|--------------------------|-------------------------|---|
| Aluminum | 10.00 | 1000000.0 | P |
| Antimony | 10.00 | 100000.0 | P |
| Cadmium | 10.00 | 25000.0 | P |
| Calcium | 10.00 | 600000.0 | P |
| Cobalt | 10.00 | 50000.0 | P |
| Iron | 10.00 | 1000000.0 | P |
| Magnesium | 10.00 | 600000.0 | P |
| Manganese | 10.00 | 100000.0 | P |
| Nickel | 10.00 | 100000.0 | P |
| Potassium | 10.00 | 100000.0 | P |
| Sodium | 10.00 | 100000.0 | P |
| Zinc | 10.00 | 10000.0 | P |

Comments: _____

USEPA-CLP FORMS

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004ICP ID Number: TJA ICAP 6 Date: 07/01/03

| Analyte | Integ. Time (Sec.) | Concentration (ug/L) | M |
|-----------|--------------------------|-------------------------|---|
| Arsenic | 10.00 | 5000.0 | P |
| Barium | 10.00 | 10000.0 | P |
| Beryllium | 10.00 | 5000.0 | P |
| Chromium | 10.00 | 100000.0 | P |
| Cobalt | 10.00 | 100000.0 | P |
| Copper | 10.00 | 100000.0 | P |
| Lead | 10.00 | 50000.0 | P |
| Nickel | 10.00 | 50000.0 | P |
| Selenium | 10.00 | 5000.0 | P |
| Silver | 10.00 | 2000.0 | P |
| Thallium | 10.00 | 5000.0 | P |
| Vanadium | 10.00 | 100000.0 | P |
| Zinc | 10.00 | 10000.0 | P |

Comments: _____

USEPA-CLP FORMS

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004Method: AS

| EPA Sample No. | Preparation Date | Initial Weight (g) | Volume (mL) |
|-------------------|---------------------|-----------------------|----------------|
| BLACPDSS10(0.4) | 08/04/03 | 1.11 | 50.0 |
| BLACTASUS14(1.5) | 08/04/03 | 1.01 | 50.0 |
| BLACTASUS30(0.75) | 08/04/03 | 1.02 | 50.0 |
| BLACTASUS31(0.9) | 08/04/03 | 1.02 | 50.0 |
| BLACWPSUS12(1.0) | 08/04/03 | 1.05 | 50.0 |
| BLACWPSUS13(1.5) | 08/04/03 | 1.15 | 50.0 |
| BLUETASUS32(1.5) | 08/04/03 | 1.06 | 50.0 |
| BLUETASUS33(2.0) | 08/04/03 | 1.00 | 50.0 |
| CLEABGSS25(0.5) | 08/04/03 | 1.03 | 50.0 |
| CLEABGSS25(0.5)D | 08/04/03 | 1.05 | 50.0 |
| CLEABGSS25(0.5)S | 08/04/03 | 1.00 | 50.0 |
| CLEABGSS26(0.5) | 08/04/03 | 1.00 | 50.0 |
| ICV | 08/04/03 | 50.0 | 50.0 |
| LCSS0804B | 08/04/03 | 1.00 | 50.0 |
| PBS0804B | 08/04/03 | 1.00 | 50.0 |

USEPA-CLP FORMS

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004Method: CV

| EPA Sample No. | Preparation Date | Initial Weight (g) | Volume (mL) |
|---------------------|---------------------|-----------------------|----------------|
| BLACPDSSS10 (0.4) | 08/15/03 | 0.63 | 100.0 |
| BLACTASUS14 (1.5) | 08/15/03 | 0.61 | 100.0 |
| BLACTASUS30 (0.75) | 08/15/03 | 0.68 | 100.0 |
| BLACTASUS31 (0.9) | 08/15/03 | 0.69 | 100.0 |
| BLACWPSUS12 (1.0) | 08/15/03 | 0.61 | 100.0 |
| BLACWPSUS13 (1.5) | 08/15/03 | 0.62 | 100.0 |
| BLUETASUS32 (1.5) | 08/15/03 | 0.69 | 100.0 |
| BLUETASUS33 (2.0) | 08/15/03 | 0.64 | 100.0 |
| CLEABGSSS25 (0.5) | 08/15/03 | 0.64 | 100.0 |
| CLEABGSSS25 (0.5) D | 08/15/03 | 0.62 | 100.0 |
| CLEABGSSS25 (0.5) S | 08/15/03 | 0.60 | 100.0 |
| CLEABGSSS26 (0.5) | 08/15/03 | 0.60 | 100.0 |
| LCSS0815G | 08/15/03 | 1.00 | 100.0 |
| PBS0815G | 08/15/03 | 0.60 | 100.0 |

USEPA-CLP FORMS

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004Method: P

| EPA Sample No. | Preparation Date | Initial Weight (σ) | Volume (mL) |
|--------------------|---------------------|--------------------------------|----------------|
| BLACPDSS10 (0.4) | 08/22/03 | 1.14 | 100.0 |
| BLACTASUS14 (1.5) | 08/22/03 | 1.17 | 100.0 |
| BLACTASUS30 (0.75) | 08/22/03 | 1.01 | 100.0 |
| BLACTASUS31 (0.9) | 08/22/03 | 1.03 | 100.0 |
| BLACWPSUS12 (1.0) | 08/22/03 | 1.14 | 100.0 |
| BLACWPSUS13 (1.5) | 08/22/03 | 1.18 | 100.0 |
| BLUETASUS32 (1.5) | 08/22/03 | 1.01 | 100.0 |
| BLUETASUS33 (2.0) | 08/22/03 | 1.10 | 100.0 |
| CLEABGSSS25 (0.5) | 08/22/03 | 1.08 | 100.0 |
| CLEABGSSS25 (0.5)D | 08/22/03 | 1.08 | 100.0 |
| CLEABGSSS25 (0.5)S | 08/22/03 | 1.02 | 100.0 |
| CLEABGSSS26 (0.5) | 08/22/03 | 1.01 | 100.0 |
| LCSS0822C | 08/22/03 | 1.00 | 100.0 |
| PBS0822C | 08/22/03 | 1.00 | 100.0 |

USEPA-CLP FORMS

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004Method: P

| EPA Sample No. | Preparation Date | Initial Weight (g) | Volume (mL) |
|-------------------|---------------------|-----------------------|----------------|
| BLACPDSS10(0.4) | 09/16/03 | 1.10 | 100.0 |
| BLACTASUS14(1.5) | 09/16/03 | 1.10 | 100.0 |
| BLACTASUS30(0.75) | 09/16/03 | 1.00 | 100.0 |
| BLACTASUS31(0.9) | 09/16/03 | 1.00 | 100.0 |
| BLACWPSUS12(1.0) | 09/16/03 | 1.03 | 100.0 |
| BLACWPSUS13(1.5) | 09/16/03 | 1.15 | 100.0 |
| BLUETASUS32(1.5) | 09/16/03 | 1.11 | 100.0 |
| BLUETASUS33(2.0) | 09/16/03 | 1.16 | 100.0 |
| CLEABGSSS25(0.5) | 09/16/03 | 1.01 | 100.0 |
| CLEABGSSS25(0.5)D | 09/16/03 | 1.00 | 100.0 |
| CLEABGSSS25(0.5)S | 09/16/03 | 1.00 | 100.0 |
| CLEABGSSS26(0.5) | 09/16/03 | 1.18 | 100.0 |
| LCSS0916E | 09/16/03 | 1.00 | 100.0 |
| PBS0916E | 09/16/03 | 1.00 | 100.0 |

USEPA-CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004
 Instrument ID Number: Lachat Cyanide QC8000 Method: AS
 Start Date: 08/04/03 End Date: 08/04/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|--------|--------|--------|--------|--------|--|---|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K | S E | A G | N A | T A | V L | Z N | C N | | | | |
| BLUETASUS32 (1.5) | 1.00 | 1616 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLUETASUS33 (2.0) | 1.00 | 1617 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZZ | 1.00 | 1618 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLEABGSSS25 (0.5)A | 1.00 | 1619 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCV | 1.00 | 1620 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1621 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |

USEPA-CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004
 Instrument ID Number: TJA ICAP 6 Method: P
 Start Date: 09/08/03 End Date: 09/08/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | |
|--------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|--------|--------|---|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | F U | P B | M G | M N | H G | N I | K | S E | A G | N A | T L | V |
| S0 | 1.00 | 1402 | | | | X | X | | | X | | | | | | X | | X | | X | X | X | | |
| S | 1.00 | 1406 | | | | | | | | | | | | | | | | | | | | | | |
| S | 1.00 | 1410 | | | | | | | | | | | | | | | | | | | X | | | |
| S | 1.00 | 1414 | | | | X | X | | | X | | | | | | X | | X | | | X | X | | |
| LRS | 1.00 | 1418 | | | | X | X | | | X | | | | | | X | | X | | X | X | X | | |
| LRS | 1.00 | 1422 | | | | X | X | | | X | | | | | | X | | X | | X | X | X | | |
| LRS | 1.00 | 1427 | | | | X | X | | | X | | | | | | X | | X | | X | X | X | | |
| ICV | 1.00 | 1431 | | | | X | X | | | X | | | | | | X | | X | | X | X | X | | |
| ICB | 1.00 | 1435 | | | | X | X | | | X | | | | | | X | | X | | X | X | X | | |
| ICSA | 1.00 | 1439 | | | | X | X | | | X | | | | | | X | | X | | X | X | X | | |
| ICSAB | 1.00 | 1443 | | | | X | X | | | X | | | | | | X | | X | | X | X | X | | |
| CRI | 1.00 | 1447 | | | | X | X | | | X | | | | | | X | | X | | X | X | X | | |
| CCV | 1.00 | 1451 | | | | X | X | | | X | | | | | | X | | X | | X | X | X | | |
| CCB | 1.00 | 1456 | | | | X | X | | | X | | | | | | X | | X | | X | X | X | | |
| ZZZZZZ | 1.00 | 1500 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1504 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1508 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1512 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1516 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1520 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1524 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 5.00 | 1528 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1532 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1536 | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1540 | | | | X | X | | | X | | | | | | X | | X | | X | X | X | | |
| CCB | 1.00 | 1544 | | | | X | X | | | X | | | | | | X | | X | | X | X | X | | |
| ZZZZZZ | 1.00 | 1549 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1553 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1557 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1601 | | | | | | | | | | | | | | | | | | | | | | |
| PBS0822C | 1.00 | 1605 | | | | X | X | | | X | | | | | | X | | X | | X | X | X | | |
| LCSS0822C | 1.00 | 1609 | | | | X | X | | | X | | | | | | X | | X | | X | X | X | | |
| BLACTASUS30 (0.75) | 1.00 | 1613 | | | | X | X | | | X | | | | | | X | | X | | X | X | X | | |
| BLACPDSS10 (0.4) | 1.00 | 1617 | | | | X | X | | | X | | | | | | X | | X | | X | X | X | | |
| BLACTASUS31 (0.9) | 1.00 | 1621 | | | | X | X | | | X | | | | | | X | | X | | X | X | X | | |
| BLACTASUS14 (1.5) | 1.00 | 1625 | | | | X | X | | | X | | | | | | X | | X | | X | X | X | | |
| CCV | 1.00 | 1629 | | | | X | X | | | X | | | | | | X | | X | | X | X | X | | |
| CCB | 1.00 | 1633 | | | | X | X | | | X | | | | | | X | | X | | X | X | X | | |

USEPA-CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004
 Instrument ID Number: TJA ICAP 6 Method: P
 Start Date: 09/08/03 End Date: 09/08/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | |
|-------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|--------|--------|---|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | F U | P B | M G | M N | H G | N I | K | S E | A G | N A | T L | V |
| CLEABGSSS26(0.5) | 1.00 | 1637 | | | | | X | X | | | X | | | | | | | X | | X | X | X | X | |
| BLACWPSUS13(1.5) | 1.00 | 1641 | | | | X | X | | | X | | | | | | | | X | | X | X | X | X | |
| BLACWPSUS12(1.0) | 1.00 | 1645 | | | | X | X | | | X | | | | | | | | X | | X | X | X | X | |
| CLEABGSSS25(0.5) | 1.00 | 1650 | | | | X | X | | | | | | | | | | | | X | X | X | | | |
| CLEABGSSS25(0.5)L | 5.00 | 1654 | | | | X | X | | | | | | | | | | | | X | X | X | | | |
| CLEABGSSS25(0.5)A | 1.00 | 1658 | | | | X | X | | | | | | | | | | | | X | X | X | | | |
| CLEABGSSS25(0.5)D | 1.00 | 1702 | | | | X | X | | | | | | | | | | | | X | X | X | | | |
| CLEABGSSS25(0.5)S | 1.00 | 1706 | | | | X | X | | | | | | | | | | | | X | X | X | | | |
| BLUETASUS32(1.5) | 1.00 | 1710 | | | | X | X | | | X | | | | | | | | X | | X | X | X | X | |
| BLUETASUS33(2.0) | 1.00 | 1714 | | | | X | X | | | X | | | | | | | | X | | X | X | X | X | |
| CCV | 1.00 | 1718 | | | | X | X | | | X | | | | | | | | X | | X | X | X | X | |
| CCB | 1.00 | 1722 | | | | X | X | | | X | | | | | | | | X | | X | X | X | X | |
| ICSA | 1.00 | 1726 | | | | X | X | | | X | | | | | | | | X | | X | X | X | X | |
| ICSAB | 1.00 | 1730 | | | | X | X | | | X | | | | | | | | X | | X | X | X | X | |
| CRI | 1.00 | 1734 | | | | X | X | | | X | | | | | | | | X | | X | X | X | X | |
| CCV | 1.00 | 1739 | | | | X | X | | | X | | | | | | | | X | | X | X | X | X | |
| CCB | 1.00 | 1743 | | | | X | X | | | X | | | | | | | | X | | X | X | X | X | |

USEPA-CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004
 Instrument ID Number: TJA ICAP 5 Method: P
 Start Date: 09/11/03 End Date: 09/12/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|---|--|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V | Z N | C N | | | | |
| S0 | 1.00 | 2108 | | X | X | | | | X | X | | X | | X | | X | X | X | X | | | X | | | | | X | | | | |
| S | 1.00 | 2114 | | X | | | | | X | | | X | | X | | | | | X | | | X | | | | | | | | | |
| S | 1.00 | 2119 | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S | 1.00 | 2123 | | | | | | | X | | | X | | | | X | X | | | | | | | | | | | X | | | |
| LRS | 1.00 | 2129 | | X | X | | | | X | X | | X | | X | X | X | X | X | X | | | X | | | | | X | | | | |
| LRS | 1.00 | 2135 | | X | X | | | | X | X | | X | | X | X | X | X | X | X | | | X | | | | | X | | | | |
| LRS | 1.00 | 2140 | | X | X | | | | X | X | | X | | X | X | X | X | X | X | | | X | | | | | X | | | | |
| ICV | 1.00 | 2146 | | X | X | | | | X | X | | X | | X | X | X | X | X | X | | | X | | | | | X | | | | |
| ICB | 1.00 | 2152 | | X | X | | | | X | X | | X | | X | X | X | X | X | X | | | X | | | | | X | | | | |
| ICSA | 1.00 | 2158 | | X | X | | | | X | X | | X | | X | X | X | X | X | X | | | X | | | | | X | | | | |
| ICSAB | 1.00 | 2204 | | X | X | | | | X | X | | X | | X | X | X | X | X | X | | | X | | | | | X | | | | |
| CRI | 1.00 | 2209 | | X | X | | | | X | X | | X | | X | X | X | X | X | X | | | X | | | | | X | | | | |
| CCV | 1.00 | 2215 | | X | X | | | | X | X | | X | | X | X | X | X | X | X | | | X | | | | | X | | | | |
| CCB | 1.00 | 2221 | | X | X | | | | X | X | | X | | X | X | X | X | X | X | | | X | | | | | X | | | | |
| ZZZZZZ | 1.00 | 2227 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 5.00 | 2233 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 2238 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 2244 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 2250 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 2255 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 2301 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 2307 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PBS0822C | 1.00 | 2313 | | X | X | | | | X | X | | | X | | X | X | | | X | | | X | | | | | | | | | |
| LCSS0822C | 1.00 | 2318 | | X | X | | | | X | X | | | X | | X | X | | | X | | | X | | | | | | | | | |
| CCV | 1.00 | 2324 | | X | X | | | | X | X | | X | | X | X | X | X | X | X | | | X | | | | | X | | | | |
| CCB | 1.00 | 2330 | | X | X | | | | X | X | | X | | X | X | X | X | X | X | | | X | | | | | X | | | | |
| BLACTASUS30 (0.75) | 1.00 | 2336 | | X | X | | | | X | X | | | X | | X | X | | | X | | | X | | | | | | | | | |
| BLACPDSS10 (0.4) | 1.00 | 2341 | | X | X | | | | X | X | | | | X | X | | | X | | | X | | | | | | | | | | |
| BLACTASUS31 (0.9) | 1.00 | 2347 | | X | X | | | | X | X | | | X | | X | X | | | X | | | X | | | | | | | | | |
| BLACTASUS14 (1.5) | 1.00 | 2353 | | X | X | | | | X | X | | | | X | X | | | X | | | X | | | | | | | | | | |
| CLEABGSS26 (0.5) | 1.00 | 2359 | | X | X | | | | X | X | | | X | | X | X | | | X | | | X | | | | | | | | | |
| BLACWPSUS13 (1.5) | 1.00 | 0004 | | X | X | | | | X | X | | | X | | X | X | | | X | | | X | | | | | | | | | |
| BLACWPSUS12 (1.0) | 1.00 | 0010 | | X | X | | | | X | X | | | X | | X | X | | | X | | | X | | | | | | | | | |
| CLEABGSS25 (0.5) | 1.00 | 0016 | | X | X | | | | X | X | | X | | X | X | X | X | X | X | | | X | | | | | X | | | | |
| CLEABGSS25 (0.5) L | 5.00 | 0021 | | X | X | | | | X | X | | X | | X | X | X | X | X | X | | | X | | | | | X | | | | |
| CLEABGSS25 (0.5) A | 1.00 | 0027 | | X | X | | | | X | | | X | | X | | X | X | | | | | | | | | | | X | | | |
| CCV | 1.00 | 0033 | | X | X | | | | X | X | | X | | X | X | X | X | X | X | | | X | | | | | X | | | | |
| CCB | 1.00 | 0039 | | X | X | | | | X | X | | X | | X | X | X | X | X | X | | | X | | | | | X | | | | |

USEPA-CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004
 Instrument ID Number: TJA ICAP 5 Method: P
 Start Date: 09/11/03 End Date: 09/12/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S G | A A | N L | T L | V L | Z N |
| CLEABGSSS25(0.5)D | 1.00 | 0044 | | X | X | | | | X | X | | X | | X | | X | X | | X | X | | | X | | | X |
| CLEABGSSS25(0.5)S | 1.00 | 0050 | | X | X | | | | X | | | X | | X | | | X | | | | | | | | | X |
| BLUETASUS32(1.5) | 1.00 | 0056 | | X | X | | | | X | X | | | | X | | X | X | | X | | | X | | | | |
| BLUETASUS33(2.0) | 1.00 | 0102 | | X | X | | | | X | X | | | | X | | X | X | | X | | | X | | | | |
| ICSA | 1.00 | 0107 | | X | X | | | | X | X | | X | | X | | X | X | | X | X | | | X | | | X |
| ICSAB | 1.00 | 0113 | | X | X | | | | X | X | | X | | X | | X | X | | X | X | | | X | | | X |
| CRI | 1.00 | 0119 | | X | X | | | | X | X | | X | | X | | X | X | | X | X | | | X | | | X |
| CCV | 1.00 | 0125 | | X | X | | | | X | X | | X | | X | | X | X | | X | X | | | X | | | X |
| CCB | 1.00 | 0131 | | X | X | | | | X | X | | X | | X | | X | X | | X | X | | | X | | | X |

USEPA-CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON

Contract: 23046

Lab Code: STLVT

Case No.: 23046

SAS No.: _____

SDG No.: GCS004

Instrument ID Number: TJA ICAP 6

Method: P

Start Date: 09/17/03

End Date: 09/18/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|-------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|--------|--------|--------|--------|--------|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K | S E | A G | N A | T L | V N | Z N | C N | | |
| S0 | 1.00 | 2208 | | | | X | | | | X | X | X | | | | | | | | X | | | | | | | | | |
| S | 1.00 | 2212 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S | 1.00 | 2216 | | | X | | | | | | | X | | | | | | | | X | | | | | | | | | |
| S | 1.00 | 2220 | | | | | | | | X | X | | | | | | | | | | | | | | | | | | |
| LRS | 1.00 | 2224 | | | X | | | | | X | X | X | | | | | | | | X | | | | | | | | | |
| LRS | 1.00 | 2228 | | | X | | | | | X | X | X | | | | | | | | X | | | | | | | | | |
| LRS | 1.00 | 2233 | | | X | | | | | X | X | X | | | | | | | | X | | | | | | | | | |
| ICV | 1.00 | 2237 | | | X | | | | | X | X | X | | | | | | | | X | | | | | | | | | |
| ICB | 1.00 | 2241 | | | X | | | | | X | X | X | | | | | | | | X | | | | | | | | | |
| ICSA | 1.00 | 2245 | | | X | | | | | X | X | X | | | | | | | | X | | | | | | | | | |
| ICSAB | 1.00 | 2249 | | | X | | | | | X | X | X | | | | | | | | X | | | | | | | | | |
| CRI | 1.00 | 2253 | | | X | | | | | X | X | X | | | | | | | | X | | | | | | | | | |
| CCV | 1.00 | 2257 | | | X | | | | | X | X | X | | | | | | | | X | | | | | | | | | |
| CCB | 1.00 | 2302 | | | X | | | | | X | X | X | | | | | | | | X | | | | | | | | | |
| ZZZZZ | 10.00 | 2306 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 50.00 | 2310 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 10.00 | 2314 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 10.00 | 2318 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PBS0916E | 1.00 | 2322 | | | X | | | | | X | X | X | | | | | | | | X | | | | | | | | | |
| LCSS0916E | 1.00 | 2326 | | | X | | | | | X | X | X | | | | | | | | X | | | | | | | | | |
| BLACTASUS30 (0.75) | 1.00 | 2330 | | | X | | | | | X | X | X | | | | | | | | X | | | | | | | | | |
| BLACPDSS10 (0.4) | 1.00 | 2334 | | | X | | | | | X | X | X | | | | | | | | X | | | | | | | | | |
| ZZZZZ | 10.00 | 2338 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLACTASUS31 (0.9) | 1.00 | 2342 | | | X | | | | | X | X | X | | | | | | | | X | | | | | | | | | |
| CCV | 1.00 | 2346 | | | X | | | | | X | X | X | | | | | | | | X | | | | | | | | | |
| CCB | 1.00 | 2350 | | | X | | | | | X | X | X | | | | | | | | X | | | | | | | | | |
| BLACTASUS14 (1.5) | 1.00 | 2355 | | | X | | | | | X | X | X | | | | | | | | X | | | | | | | | | |
| ZZZZZ | 10.00 | 2359 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLEABGSS26 (0.5) | 1.00 | 0003 | | | X | | | | | X | X | X | | | | | | | | X | | | | | | | | | |
| ZZZZZ | 10.00 | 0007 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLACWPSUS13 (1.5) | 1.00 | 0011 | | | X | | | | | X | X | X | | | | | | | | X | | | | | | | | | |
| BLACWPSUS12 (1.0) | 1.00 | 0015 | | | X | | | | | X | X | X | | | | | | | | X | | | | | | | | | |
| ZZZZZ | 10.00 | 0019 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLEABGSS25 (0.5) | 1.00 | 0023 | | | X | | | | | X | X | X | | | | | | | | X | | | | | | | | | |
| CLEABGSS25 (0.5) L | 5.00 | 0027 | | | X | | | | | X | X | X | | | | | | | | X | | | | | | | | | |
| CLEABGSS25 (0.5) A | 1.00 | 0031 | | | X | | | | | X | X | X | | | | | | | | X | | | | | | | | | |
| CCV | 1.00 | 0035 | | | X | | | | | X | X | X | | | | | | | | X | | | | | | | | | |
| CCB | 1.00 | 0039 | | | X | | | | | X | X | X | | | | | | | | X | | | | | | | | | |

USEPA-CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004
 Instrument ID Number: TJA ICAP 6 Method: P
 Start Date: 09/17/03 End Date: 09/18/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|-------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|--------|--------|---|--------|--------|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K | S E | A G | N A | T L | V | Z N | C N | | |
| CLEABGSSS25 (0.5) D | 1.00 | 0043 | | | | X | | | | | X | X | X | | | | | | | X | | | | | | | | | |
| CLEABGSSS25 (0.5) S | 1.00 | 0047 | | | | X | | | | | X | X | X | | | | | | | X | | | | | | | | | |
| BLUETASUS32 (1.5) | 1.00 | 0051 | | | | X | | | | | X | X | X | | | | | | | X | | | | | | | | | |
| ZZZZZZ | 10.00 | 0056 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLUETASUS33 (2.0) | 1.00 | 0100 | | | | X | | | | | X | X | X | | | | | | | X | | | | | | | | | |
| ZZZZZZ | 1.00 | 0104 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0108 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0112 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0116 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0120 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 0124 | | | | X | | | | | X | X | X | | | | | | | X | | | | | | | | | |
| CCB | 1.00 | 0128 | | | | X | | | | | X | X | X | | | | | | | X | | | | | | | | | |
| ZZZZZZ | 1.00 | 0132 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0136 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0140 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0144 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ICSA | 1.00 | 0148 | | | | X | | | | | X | X | X | | | | | | | X | | | | | | | | | |
| ICSAB | 1.00 | 0153 | | | | X | | | | | X | X | X | | | | | | | X | | | | | | | | | |
| CRI | 1.00 | 0157 | | | | X | | | | | X | X | X | | | | | | | X | | | | | | | | | |
| CCV | 1.00 | 0201 | | | | X | | | | | X | X | X | | | | | | | X | | | | | | | | | |
| CCB | 1.00 | 0205 | | | | X | | | | | X | X | X | | | | | | | X | | | | | | | | | |

USEPA-CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004
 Instrument ID Number: Leeman Hydra AA Method: CV
 Start Date: 08/19/03 End Date: 08/19/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|--------|--------|---|--------|--------|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K | S E | A G | N A | T L | V | Z N | C N |
| ZZZZZZ | 1.00 | 1606 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1608 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1609 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1611 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1613 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCB | 1.00 | 1614 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1616 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1618 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1619 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1621 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1623 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1625 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1626 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1628 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1630 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1632 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCB | 1.00 | 1633 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1635 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1637 | | | | | | | | | | | | | | | | | | | | | | | | | |
| PBS0815G | 1.00 | 1639 | | | | | | | | | | | | | | | | | | | | | | | | | |
| LCSS0815G | 1.00 | 1641 | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLACTASUS30 (0.75) | 1.00 | 1643 | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLACPDSS10 (0.4) | 1.00 | 1645 | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLACTASUS31 (0.9) | 1.00 | 1647 | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLACTASUS14 (1.5) | 1.00 | 1649 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLEABGSS26 (0.5) | 1.00 | 1650 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1652 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCB | 1.00 | 1654 | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLACWPSUS13 (1.5) | 1.00 | 1656 | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLACWPSUS12 (1.0) | 1.00 | 1657 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLEABGSS25 (0.5) | 1.00 | 1659 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLEABGSS25 (0.5) S | 1.00 | 1701 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLEABGSS25 (0.5) D | 1.00 | 1703 | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLUETASUS32 (1.5) | 1.00 | 1705 | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLUETASUS33 (2.0) | 1.00 | 1707 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1709 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1711 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1713 | | | | | | | | | | | | | | | | | | | | | | | | | |

USEPA-CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004
 Instrument ID Number: Leeman Hydra AA Method: CV
 Start Date: 08/19/03 End Date: 08/19/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | F U | P E | M B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V A | Z L | C N |
| S0 | 1.00 | 1919 | | | | | | | | | | | | | | | X | | | | | | | | | | |
| S0.2 | 1.00 | 1920 | | | | | | | | | | | | | | | X | | | | | | | | | | |
| S0.5 | 1.00 | 1922 | | | | | | | | | | | | | | | X | | | | | | | | | | |
| S1 | 1.00 | 1924 | | | | | | | | | | | | | | | X | | | | | | | | | | |
| S5 | 1.00 | 1926 | | | | | | | | | | | | | | | X | | | | | | | | | | |
| S10 | 1.00 | 1927 | | | | | | | | | | | | | | | X | | | | | | | | | | |
| ICV | 1.00 | 1929 | | | | | | | | | | | | | | | X | | | | | | | | | | |
| ICB | 1.00 | 1931 | | | | | | | | | | | | | | | X | | | | | | | | | | |
| CRA | 1.00 | 1934 | | | | | | | | | | | | | | | X | | | | | | | | | | |
| CCV | 1.00 | 1935 | | | | | | | | | | | | | | | X | | | | | | | | | | |
| CCB | 1.00 | 1937 | | | | | | | | | | | | | | | X | | | | | | | | | | |
| ZZZZZZ | 2.00 | 1939 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 2.00 | 1941 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 2.00 | 1943 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 2.00 | 1945 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 2.00 | 1947 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 2.00 | 1948 | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLACWPSUS13 (1.5) | 2.00 | 1950 | | | | | | | | | | | | | | | X | | | | | | | | | | |
| CCV | 1.00 | 1952 | | | | | | | | | | | | | | | X | | | | | | | | | | |
| CCB | 1.00 | 1955 | | | | | | | | | | | | | | | X | | | | | | | | | | |

**SEVERN
TRENT**

STL

**Sample Data Summary Package
For Metals**

USEPA-CLP FORMS

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLP

SOW No.: ILM04.1

| EPA Sample No. | Lab Sample ID. |
|------------------------------|-----------------|
| <u>BLACPDSSS10(0.4) SPLP</u> | <u>536026</u> |
| <u>BLACWPSUS12(1.0) SPLP</u> | <u>536034</u> |
| <u>BLACWPSUS13(1.5) SPLP</u> | <u>536032</u> |
| <u>BLUETASUS32(1.5) SPLP</u> | <u>536038</u> |
| <u>BLUETASUS33(2.0) SPLP</u> | <u>536040</u> |
| <u>CLEABGSSS25(0.5) SPLP</u> | <u>536036</u> |
| <u>CLEABGSSS250.5SPLPD</u> | <u>536036DP</u> |
| <u>CLEABGSSS250.5SPLPS</u> | <u>536036MS</u> |
| <u>CLEABGSSS26(0.5) SPLP</u> | <u>536030</u> |

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: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACPDSSS10 (0.4) SPLP

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLP
 Matrix (soil/water): WATER Lab Sample ID: 536026
 Level (low/med): LOW Date Received: 07/26/03
 % 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 | 58.2 | B | | P |
| 7440-36-0 | Antimony | 3.8 | U | | P |
| 7440-38-2 | Arsenic | 2.4 | U | | P |
| 7440-39-3 | Barium | 7.3 | U | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.30 | U | | P |
| 7440-70-2 | Calcium | 801 | B | | P |
| 7440-47-3 | Chromium | 0.60 | U | | P |
| 7440-48-4 | Cobalt | 1.8 | U | | P |
| 7440-50-8 | Copper | 2.2 | B | | P |
| 7439-89-6 | Iron | 114 | | | P |
| 7439-92-1 | Lead | 2.1 | B | | P |
| 7439-95-4 | Magnesium | 342 | B | | P |
| 7439-96-5 | Manganese | 0.96 | B | | P |
| 7439-97-6 | Mercury | 10.0 | U | | CV |
| 7440-02-0 | Nickel | 2.0 | U | | P |
| 7440-09-7 | Potassium | 250 | U | | P |
| 7782-49-2 | Selenium | 1.7 | U | | P |
| 7440-22-4 | Silver | 0.90 | U | | P |
| 7440-23-5 | Sodium | 1410 | B | | P |
| 7440-28-0 | Thallium | 2.8 | U | | P |
| 7440-62-2 | Vanadium | 2.2 | U | | P |
| 7440-66-6 | Zinc | 5.7 | U | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACWPSUS12(1.0) SPLP

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCS004-SPLPMatrix (soil/water): WATERLab Sample ID: 536034Level (low/med): LOWDate Received: 07/26/03% Solids: 0.0Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 52.4 | B | | P |
| 7440-36-0 | Antimony | 3.8 | U | | P |
| 7440-38-2 | Arsenic | 2.4 | U | | P |
| 7440-39-3 | Barium | 43.5 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.30 | U | | P |
| 7440-70-2 | Calcium | 1060 | B | | P |
| 7440-47-3 | Chromium | 0.70 | B | | P |
| 7440-48-4 | Cobalt | 1.8 | U | | P |
| 7440-50-8 | Copper | 3.3 | B | | P |
| 7439-89-6 | Iron | 51.2 | B | | P |
| 7439-92-1 | Lead | 1.5 | U | | P |
| 7439-95-4 | Magnesium | 612 | B | | P |
| 7439-96-5 | Manganese | 88.8 | | | P |
| 7439-97-6 | Mercury | 10.0 | U | | CV |
| 7440-02-0 | Nickel | 10.0 | B | | P |
| 7440-09-7 | Potassium | 732 | B | | P |
| 7782-49-2 | Selenium | 2.1 | B | | P |
| 7440-22-4 | Silver | 0.90 | U | | P |
| 7440-23-5 | Sodium | 6690 | | | P |
| 7440-28-0 | Thallium | 2.8 | U | | P |
| 7440-62-2 | Vanadium | 2.2 | U | | P |
| 7440-66-6 | Zinc | 5.7 | U | | P |

Color Before: colorlessClarity Before: clear

Texture: _____

Color After: colorlessClarity After: clear

Artifacts: _____

Comments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACWPSUS13 (1.5) SPLP

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLP
 Matrix (soil/water): WATER Lab Sample ID: 536032
 Level (low/med): LOW Date Received: 07/26/03
 % 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 | 84.8 | B | | P |
| 7440-36-0 | Antimony | 3.8 | U | | P |
| 7440-38-2 | Arsenic | 2.4 | U | | P |
| 7440-39-3 | Barium | 7.3 | U | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.30 | U | | P |
| 7440-70-2 | Calcium | 624 | B | | P |
| 7440-47-3 | Chromium | 0.63 | B | | P |
| 7440-48-4 | Cobalt | 1.8 | U | | P |
| 7440-50-8 | Copper | 3.3 | B | | P |
| 7439-89-6 | Iron | 66.7 | B | | P |
| 7439-92-1 | Lead | 1.8 | B | | P |
| 7439-95-4 | Magnesium | 182 | U | | P |
| 7439-96-5 | Manganese | 0.70 | U | | P |
| 7439-97-6 | Mercury | 10.0 | U | | CV |
| 7440-02-0 | Nickel | 2.0 | U | | P |
| 7440-09-7 | Potassium | 890 | B | | P |
| 7782-49-2 | Selenium | 1.9 | B | | P |
| 7440-22-4 | Silver | 0.90 | U | | P |
| 7440-23-5 | Sodium | 5810 | | | P |
| 7440-28-0 | Thallium | 2.8 | U | | P |
| 7440-62-2 | Vanadium | 2.2 | U | | P |
| 7440-66-6 | Zinc | 5.7 | U | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUETASUS32 (1.5) SPLP

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLP
 Matrix (soil/water): WATER Lab Sample ID: 536038
 Level (low/med): LOW Date Received: 07/26/03
 % 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 | 1610 | | | P |
| 7440-36-0 | Antimony | 4.1 | B | | P |
| 7440-38-2 | Arsenic | 8.1 | B | | P |
| 7440-39-3 | Barium | 42.5 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.62 | B | | P |
| 7440-70-2 | Calcium | 722 | B | | P |
| 7440-47-3 | Chromium | 14.0 | | | P |
| 7440-48-4 | Cobalt | 1.8 | U | | P |
| 7440-50-8 | Copper | 4.9 | B | | P |
| 7439-89-6 | Iron | 2430 | | | P |
| 7439-92-1 | Lead | 1.5 | B | | P |
| 7439-95-4 | Magnesium | 901 | B | | P |
| 7439-96-5 | Manganese | 1690 | | | P |
| 7439-97-6 | Mercury | 10.0 | U | | CV |
| 7440-02-0 | Nickel | 25.0 | B | | P |
| 7440-09-7 | Potassium | 600 | B | | P |
| 7782-49-2 | Selenium | 4.5 | B | | P |
| 7440-22-4 | Silver | 0.90 | U | | P |
| 7440-23-5 | Sodium | 7020 | | | P |
| 7440-28-0 | Thallium | 2.8 | U | | P |
| 7440-62-2 | Vanadium | 7.0 | B | | P |
| 7440-66-6 | Zinc | 27.2 | | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUETASUS33 (2.0) SPLP

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCS004-SPLPMatrix (soil/water): WATERLab Sample ID: 536040Level (low/med): LOWDate Received: 07/26/03% Solids: 0.0Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 1080 | | | P |
| 7440-36-0 | Antimony | 3.8 | U | | P |
| 7440-38-2 | Arsenic | 2.4 | U | | P |
| 7440-39-3 | Barium | 14.2 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.30 | U | | P |
| 7440-70-2 | Calcium | 672 | B | | P |
| 7440-47-3 | Chromium | 11.8 | | | P |
| 7440-48-4 | Cobalt | 1.8 | B | | P |
| 7440-50-8 | Copper | 4.7 | B | | P |
| 7439-89-6 | Iron | 5310 | | | P |
| 7439-92-1 | Lead | 2.3 | B | | P |
| 7439-95-4 | Magnesium | 824 | B | | P |
| 7439-96-5 | Manganese | 132 | | | P |
| 7439-97-6 | Mercury | 10.0 | U | | CV |
| 7440-02-0 | Nickel | 9.0 | B | | P |
| 7440-09-7 | Potassium | 250 | U | | P |
| 7782-49-2 | Selenium | 2.3 | B | | P |
| 7440-22-4 | Silver | 0.90 | U | | P |
| 7440-23-5 | Sodium | 6670 | | | P |
| 7440-28-0 | Thallium | 2.8 | U | | P |
| 7440-62-2 | Vanadium | 5.8 | B | | P |
| 7440-66-6 | Zinc | 7.0 | B | | P |

Color Before: colorlessClarity Before: clear

Texture: _____

Color After: colorlessClarity After: clear

Artifacts: _____

Comments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

CLEABGSSS25 (0.5) SPLP

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLP

Matrix (soil/water): WATER Lab Sample ID: 536036

Level (low/med): LOW Date Received: 07/26/03

% 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 | 1210 | | | P |
| 7440-36-0 | Antimony | 3.8 | U | | P |
| 7440-38-2 | Arsenic | 2.4 | U | | P |
| 7440-39-3 | Barium | 18.8 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.30 | U | | P |
| 7440-70-2 | Calcium | 1170 | B | | P |
| 7440-47-3 | Chromium | 1.2 | B | | P |
| 7440-48-4 | Cobalt | 1.8 | U | | P |
| 7440-50-8 | Copper | 4.5 | B | | P |
| 7439-89-6 | Iron | 654 | | | P |
| 7439-92-1 | Lead | 1.5 | U | | P |
| 7439-95-4 | Magnesium | 271 | B | | P |
| 7439-96-5 | Manganese | 48.9 | | | P |
| 7439-97-6 | Mercury | 10.0 | U | | CV |
| 7440-02-0 | Nickel | 2.0 | U | | P |
| 7440-09-7 | Potassium | 1160 | B | | P |
| 7782-49-2 | Selenium | 3.5 | B | | P |
| 7440-22-4 | Silver | 0.90 | U | | P |
| 7440-23-5 | Sodium | 7130 | | | P |
| 7440-28-0 | Thallium | 2.8 | U | | P |
| 7440-62-2 | Vanadium | 2.3 | B | | P |
| 7440-66-6 | Zinc | 5.7 | U | | P |

Color Before: colorless Clarity Before: clear Texture: _____

Color After: colorless Clarity After: clear Artifacts: _____

Comments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

CLEABGSSS26 (0.5) SPLP

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLP
 Matrix (soil/water): WATER Lab Sample ID: 536030
 Level (low/med): LOW Date Received: 07/26/03
 % 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 | 1980 | | | P |
| 7440-36-0 | Antimony | 3.8 | U | | P |
| 7440-38-2 | Arsenic | 2.4 | U | | P |
| 7440-39-3 | Barium | 49.2 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.30 | U | | P |
| 7440-70-2 | Calcium | 1070 | B | | P |
| 7440-47-3 | Chromium | 1.5 | B | | P |
| 7440-48-4 | Cobalt | 1.8 | U | | P |
| 7440-50-8 | Copper | 4.8 | B | | P |
| 7439-89-6 | Iron | 854 | | | P |
| 7439-92-1 | Lead | 1.5 | U | | P |
| 7439-95-4 | Magnesium | 287 | B | | P |
| 7439-96-5 | Manganese | 31.4 | | | P |
| 7439-97-6 | Mercury | 10.0 | U | | CV |
| 7440-02-0 | Nickel | 2.0 | U | | P |
| 7440-09-7 | Potassium | 1120 | B | | P |
| 7782-49-2 | Selenium | 2.1 | B | | P |
| 7440-22-4 | Silver | 0.90 | U | | P |
| 7440-23-5 | Sodium | 6460 | | | P |
| 7440-28-0 | Thallium | 2.8 | U | | P |
| 7440-62-2 | Vanadium | 2.6 | B | | P |
| 7440-66-6 | Zinc | 5.7 | U | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA-CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLP

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 | 26430.00 | 101.7 | 30200.0 | 30160.00 | 99.9 | 29260.00 | 96.9 | P |
| Antimony | 250.0 | 238.30 | 95.3 | 300.0 | 283.20 | 94.4 | 281.40 | 93.8 | P |
| Arsenic | 250.0 | 236.50 | 94.6 | 100.0 | 93.32 | 93.3 | 92.89 | 92.9 | P |
| Barium | 500.0 | 487.60 | 97.5 | 200.0 | 196.00 | 98.0 | 195.10 | 97.6 | P |
| Beryllium | 500.0 | 485.00 | 97.0 | 100.0 | 94.97 | 95.0 | 95.43 | 95.4 | P |
| Cadmium | 500.0 | 477.70 | 95.5 | 100.0 | 94.68 | 94.7 | 95.20 | 95.2 | P |
| Calcium | 25000.0 | 25240.00 | 101.0 | 30200.0 | 29300.00 | 97.0 | 29290.00 | 97.0 | P |
| Chromium | 500.0 | 485.70 | 97.1 | 200.0 | 189.00 | 94.5 | 190.60 | 95.3 | P |
| Cobalt | 500.0 | 480.40 | 96.1 | 200.0 | 191.80 | 95.9 | 192.70 | 96.4 | P |
| Copper | 500.0 | 493.30 | 98.7 | 200.0 | 198.20 | 99.1 | 195.60 | 97.8 | P |
| Iron | 25500.0 | 26190.00 | 102.7 | 30200.0 | 29340.00 | 97.2 | 29080.00 | 96.3 | P |
| Lead | 1000.0 | 941.20 | 94.1 | 400.0 | 370.50 | 92.6 | 375.70 | 93.9 | P |
| Magnesium | 25000.0 | 25190.00 | 100.8 | 30200.0 | 29330.00 | 97.1 | 29260.00 | 96.9 | P |
| Manganese | 500.0 | 480.20 | 96.0 | 200.0 | 190.20 | 95.1 | 190.50 | 95.2 | P |
| Mercury | 3.0 | 2.90 | 96.7 | 5.0 | 4.86 | 97.2 | 4.67 | 93.4 | CV |
| Nickel | 500.0 | 484.20 | 96.8 | 200.0 | 189.60 | 94.8 | 190.40 | 95.2 | P |
| Potassium | 25000.0 | 27220.00 | 108.9 | 30200.0 | 31740.00 | 105.1 | 31650.00 | 104.8 | P |
| Selenium | 250.0 | 233.40 | 93.4 | 100.0 | 98.48 | 98.5 | 97.32 | 97.3 | P |
| Silver | 500.0 | 491.30 | 98.3 | 100.0 | 98.27 | 98.3 | 98.95 | 99.0 | P |
| Sodium | 25000.0 | 25200.00 | 100.8 | 30200.0 | 29990.00 | 99.3 | 28620.00 | 94.8 | P |
| Thallium | 250.0 | 231.00 | 92.4 | 100.0 | 96.27 | 96.3 | 93.80 | 93.8 | P |
| Vanadium | 500.0 | 483.00 | 96.6 | 200.0 | 189.80 | 94.9 | 190.80 | 95.4 | P |
| Zinc | 500.0 | 475.90 | 95.2 | 200.0 | 186.50 | 93.2 | 185.90 | 93.0 | P |

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

USEPA-CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLPInitial Calibration Source: Inorganic Ventures/FisherContinuing 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 | 29810.00 | 98.7 | 28630.00 | 94.8 | P |
| Antimony | | | | 300.0 | 291.50 | 97.2 | 288.40 | 96.1 | P |
| Arsenic | | | | 100.0 | 97.65 | 97.6 | 97.55 | 97.6 | P |
| Barium | | | | 200.0 | 203.70 | 101.8 | 201.10 | 100.6 | P |
| Beryllium | | | | 100.0 | 101.10 | 101.1 | 103.00 | 103.0 | P |
| Cadmium | | | | 100.0 | 100.70 | 100.7 | 102.60 | 102.6 | P |
| Calcium | | | | 30200.0 | 30740.00 | 101.8 | 31090.00 | 102.9 | P |
| Chromium | | | | 200.0 | 201.00 | 100.5 | 204.50 | 102.2 | P |
| Cobalt | | | | 200.0 | 202.80 | 101.4 | 205.10 | 102.6 | P |
| Copper | | | | 200.0 | 203.40 | 101.7 | 196.40 | 98.2 | P |
| Iron | | | | 30200.0 | 30670.00 | 101.6 | 30720.00 | 101.7 | P |
| Lead | | | | 400.0 | 391.80 | 98.0 | 392.90 | 98.2 | P |
| Magnesium | | | | 30200.0 | 30490.00 | 101.0 | 30470.00 | 100.9 | P |
| Manganese | | | | 200.0 | 201.70 | 100.8 | 209.30 | 104.6 | P |
| Mercury | | | | 5.0 | 4.40 | 88.0 | 4.74 | 94.8 | CV |
| Nickel | | | | 200.0 | 200.60 | 100.3 | 203.30 | 101.6 | P |
| Potassium | | | | 30200.0 | 31860.00 | 105.5 | 30250.00 | 100.2 | P |
| Selenium | | | | 100.0 | 99.98 | 100.0 | 98.70 | 98.7 | P |
| Silver | | | | 100.0 | 102.50 | 102.5 | 101.60 | 101.6 | P |
| Sodium | | | | 30200.0 | 28700.00 | 95.0 | 26810.00 | 88.8 | P |
| Thallium | | | | 100.0 | 97.95 | 98.0 | 96.59 | 96.6 | P |
| Vanadium | | | | 200.0 | 201.20 | 100.6 | 202.00 | 101.0 | P |
| Zinc | | | | 200.0 | 198.00 | 99.0 | 203.60 | 101.8 | P |

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

USEPA-CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLP

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 | 27390.00 | 90.7 | | | P |
| Antimony | | | | 300.0 | 287.00 | 95.7 | | | P |
| Arsenic | | | | 100.0 | 101.20 | 101.2 | | | P |
| Barium | | | | 200.0 | 195.70 | 97.8 | | | P |
| Beryllium | | | | 100.0 | 106.40 | 106.4 | | | P |
| Cadmium | | | | 100.0 | 106.70 | 106.7 | | | P |
| Calcium | | | | 30200.0 | 32030.00 | 106.1 | | | P |
| Chromium | | | | 200.0 | 208.70 | 104.4 | | | P |
| Cobalt | | | | 200.0 | 210.10 | 105.0 | | | P |
| Copper | | | | 200.0 | 190.70 | 95.4 | | | P |
| Iron | | | | 30200.0 | 31330.00 | 103.7 | | | P |
| Lead | | | | 400.0 | 399.50 | 99.9 | | | P |
| Magnesium | | | | 30200.0 | 30890.00 | 102.3 | | | P |
| Manganese | | | | 200.0 | 208.30 | 104.2 | | | P |
| Mercury | | | | 5.0 | 4.69 | 93.8 | | | CV |
| Nickel | | | | 200.0 | 209.60 | 104.8 | | | P |
| Potassium | | | | 30200.0 | 28740.00 | 95.2 | | | P |
| Selenium | | | | 100.0 | 102.00 | 102.0 | | | P |
| Silver | | | | 100.0 | 99.97 | 100.0 | | | P |
| Sodium | | | | 30200.0 | 24960.00 | 82.6 | | | P |
| Thallium | | | | 100.0 | 99.88 | 99.9 | | | P |
| Vanadium | | | | 200.0 | 205.10 | 102.6 | | | P |
| Zinc | | | | 200.0 | 215.40 | 107.7 | | | P |

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

USEPA-CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLP

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) | |
| Iron | 25500.0 | 25240.00 | 99.0 | 30200.0 | 30040.00 | 99.5 | 29950.00 | 99.2 | P |
| Sodium | 25000.0 | 23970.00 | 95.9 | 30200.0 | 29080.00 | 96.3 | 29000.00 | 96.0 | P |

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

USEPA-CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLP

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) |
| Iron | | | | 30200.0 | 28340.00 | 93.8 | 29170.00 | 96.6 | P |
| Sodium | | | | 30200.0 | 28040.00 | 92.8 | 28670.00 | 94.9 | P |

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

USEPA-CLP FORMS

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCS004-SPLPAA CRDL Standard Source: Inorganic VenturesICP CRDL Standard Source: Inorganic Ventures

Concentration Units: ug/L

| Analyte | True | Found | %R | CRDL Standard for ICP | | | | |
|-----------|------|-------|------|-----------------------|----------|-------|----------|-------|
| | | | | Initial | | | Final | |
| | | | | True | Found | %R | Found | %R |
| Aluminum | | | | 400.0 | 649.80 | 162.4 | 593.60 | 148.4 |
| Antimony | | | | 120.0 | 121.00 | 100.8 | 113.70 | 94.8 |
| Arsenic | | | | 20.0 | 18.84 | 94.2 | 18.65 | 93.2 |
| Barium | | | | 400.0 | 403.60 | 100.9 | 381.10 | 95.3 |
| Beryllium | | | | 10.0 | 9.67 | 96.7 | 11.41 | 114.1 |
| Cadmium | | | | 10.0 | 10.11 | 101.1 | 10.79 | 107.9 |
| Calcium | | | | 10000.0 | 10590.00 | 105.9 | 10930.00 | 109.3 |
| Chromium | | | | 20.0 | 19.98 | 99.9 | 21.33 | 106.6 |
| Cobalt | | | | 100.0 | 97.07 | 97.1 | 100.90 | 100.9 |
| Copper | | | | 50.0 | 51.74 | 103.5 | 46.32 | 92.6 |
| Iron | | | | 200.0 | 323.20 | 161.6 | 341.70 | 170.8 |
| Lead | | | | 6.0 | 6.02 | 100.3 | 5.17 | 86.2 |
| Magnesium | | | | 10000.0 | 10440.00 | 104.4 | 10420.00 | 104.2 |
| Manganese | | | | 30.0 | 30.05 | 100.2 | 31.70 | 105.7 |
| Mercury | 0.2 | 0.17 | 85.0 | | | | | |
| Nickel | | | | 80.0 | 79.04 | 98.8 | 82.97 | 103.7 |
| Potassium | | | | 10000.0 | 11750.00 | 117.5 | 10140.00 | 101.4 |
| Selenium | | | | 10.0 | 11.12 | 111.2 | 12.56 | 125.6 |
| Silver | | | | 20.0 | 20.36 | 101.8 | 19.58 | 97.9 |
| Sodium | | | | 10000.0 | 10340.00 | 103.4 | 8331.00 | 83.3 |
| Thallium | | | | 20.0 | 19.21 | 96.0 | 19.16 | 95.8 |
| Vanadium | | | | 100.0 | 99.91 | 99.9 | 102.20 | 102.2 |
| Zinc | | | | 40.0 | 38.36 | 95.9 | 42.40 | 106.0 |

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

USEPA-CLP FORMS

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLP

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 | | Final | | |
| | | | | True | Found | %R | Found | %R |
| Iron | | | | 200.0 | 230.10 | 115.0 | 257.10 | 128.6 |
| Sodium | | | | 10000.0 | 10070.00 | 100.7 | 10160.00 | 101.6 |

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

USEPA-CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVT Case No.: 23046

SAS No.: _____

SDG No.: GCS004-SPLPPreparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|-----------|-----------------------------|---|-------------------------------------|---|-------|---|-------|---|-------------------|---|----|
| | | C | 1 | C | 2 | C | 3 | C | Method Blank | C | |
| Aluminum | 47.2 | B | 34.5 | B | 44.7 | B | 26.0 | B | 39.570 | B | P |
| Antimony | 3.8 | U | 3.8 | U | 3.8 | U | 3.8 | U | 3.800 | U | P |
| Arsenic | 2.4 | U | 2.4 | U | 2.4 | U | 2.4 | U | -3.685 | B | P |
| Barium | 7.3 | U | 7.3 | U | 7.3 | U | 7.3 | U | 7.300 | U | P |
| Beryllium | 0.2 | U | -0.5 | B | -0.4 | B | 0.6 | B | -0.858 | B | P |
| Cadmium | 0.3 | U | 0.3 | U | 0.3 | U | 0.3 | U | 0.300 | U | P |
| Calcium | 223.2 | U | 223.2 | U | 223.2 | U | 223.2 | U | 223.200 | U | P |
| Chromium | 0.8 | B | 0.6 | U | 0.7 | B | 0.6 | U | 0.600 | U | P |
| Cobalt | 1.8 | U | 1.8 | U | 1.8 | U | 1.8 | U | 1.800 | U | P |
| Copper | 1.4 | U | 1.4 | U | 1.4 | U | 1.4 | U | 1.400 | U | P |
| Iron | 53.3 | B | 16.8 | U | 16.8 | U | 221.2 | | 22.780 | B | P |
| Lead | 1.5 | U | 1.5 | U | 1.5 | U | 1.5 | U | 2.211 | B | P |
| Magnesium | 181.7 | U | 181.7 | U | 181.7 | U | 181.7 | U | 181.700 | U | P |
| Manganese | 0.7 | U | 0.7 | U | 0.7 | U | 0.7 | U | 0.700 | U | P |
| Mercury | 0.1 | U | 0.1 | U | 0.1 | U | 0.1 | U | 0.100 | U | CV |
| Nickel | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.000 | U | P |
| Potassium | 250.0 | U | 250.0 | U | 250.0 | U | 250.0 | U | 250.000 | U | P |
| Selenium | 1.7 | U | 1.7 | U | 1.7 | U | 2.4 | B | 1.700 | U | P |
| Silver | 0.9 | U | 0.9 | U | 0.9 | U | 0.9 | U | 0.900 | U | P |
| Sodium | 218.8 | U | 218.8 | U | 218.8 | U | 218.8 | U | 218.800 | U | P |
| Thallium | 2.8 | U | 2.8 | U | 2.8 | U | 3.3 | B | -4.045 | B | P |
| Vanadium | 2.2 | U | 2.2 | U | 2.2 | U | 2.2 | U | 2.200 | U | P |
| Zinc | 5.7 | U | 5.7 | U | 5.7 | U | 5.7 | U | 5.700 | U | P |

USEPA-CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLP

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) | | | | | | Preparation Blank | | M |
|-----------|-----------------------------|---|-------------------------------------|---|-------|---|---|---|-------------------|---|----|
| | | | 1 | C | 2 | C | 3 | C | SPLP Blank | C | |
| Aluminum | | | 33.3 | B | 34.2 | B | | | 87.610 | B | P |
| Antimony | | | 3.8 | U | 3.8 | U | | | 3.800 | U | P |
| Arsenic | | | 2.4 | U | 2.4 | U | | | 2.400 | U | P |
| Barium | | | 7.3 | U | 7.3 | U | | | 7.300 | U | P |
| Beryllium | | | 1.1 | B | 0.9 | B | | | -0.568 | B | P |
| Cadmium | | | 0.3 | U | 0.3 | U | | | 0.300 | U | P |
| Calcium | | | 223.2 | U | 223.2 | U | | | 346.000 | B | P |
| Chromium | | | 0.6 | B | 0.6 | U | | | 0.883 | B | P |
| Cobalt | | | 1.8 | U | 1.8 | U | | | 1.800 | U | P |
| Copper | | | -1.5 | B | 1.4 | U | | | 1.400 | U | P |
| Iron | | | 75.0 | B | 54.5 | B | | | 66.700 | U | P |
| Lead | | | 1.5 | U | 1.5 | U | | | 1.500 | U | P |
| Magnesium | | | 181.7 | U | 181.7 | U | | | 181.700 | U | P |
| Manganese | | | 2.3 | B | 0.7 | U | | | 2.919 | B | P |
| Mercury | | | 0.1 | U | 0.1 | U | | | 10.000 | U | CV |
| Nickel | | | 2.0 | U | 2.0 | U | | | 2.000 | U | P |
| Potassium | | | 250.0 | U | 250.0 | U | | | 250.000 | U | P |
| Selenium | | | 1.7 | U | 1.8 | B | | | 2.635 | B | P |
| Silver | | | 0.9 | U | 0.9 | U | | | 0.900 | U | P |
| Sodium | | | 218.8 | U | 218.8 | U | | | 4298.000 | B | P |
| Thallium | | | 2.8 | U | 2.8 | U | | | -4.383 | B | P |
| Vanadium | | | 2.2 | U | 2.2 | U | | | 2.200 | U | P |
| Zinc | | | 5.7 | U | 5.7 | U | | | 5.700 | U | P |

USEPA-CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLP

Preparation Blank Matrix (soil/water): WATER

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

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|---------|-----------------------------|---|-------------------------------------|---|-------|---|-------|---|-------------------|---|----|
| | C | | 1 | C | 2 | C | 3 | C | Method Blank | C | |
| Iron | 66.7 | U | 66.7 | U | 66.7 | U | 66.7 | U | | | P |
| Mercury | | | | | | | | | 0.100 | U | CV |
| Sodium | 532.3 | U | 532.3 | U | 532.3 | U | 532.3 | U | | | P |

USEPA-CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLP

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) | | | | | | Preparation Blank | C | M |
|---------|--------------------------------------|---|--|---|---|---|---|---|----------------------|---|---|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Iron | | | 66.7 | U | | | | | | | P |
| Sodium | | | 532.3 | U | | | | | | | P |

USEPA-CLP FORMS

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLPICP ID Number: TJA ICAP 6 ICS Source: Inorganic VenturesConcentration 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 | 452460 | 479700 | 489100.0 | 108.1 | 452600 | 453600.0 | 100.3 |
| Antimony | 0 | 572 | 3 | 609.4 | 106.5 | 5 | 595.1 | 104.0 |
| Arsenic | 0 | 94 | -1 | 100.8 | 107.2 | 2 | 102.7 | 109.3 |
| Barium | 0 | 466 | 1 | 510.2 | 109.5 | 2 | 494.5 | 106.1 |
| Beryllium | 0 | 446 | -1 | 479.6 | 107.5 | 0 | 503.2 | 112.8 |
| Cadmium | 0 | 874 | 13 | 948.0 | 108.5 | 12 | 1000.0 | 114.4 |
| Calcium | 500000 | 421280 | 462000 | 465400.0 | 110.5 | 479100 | 484800.0 | 115.1 |
| Chromium | 0 | 436 | 5 | 473.6 | 108.6 | 5 | 495.1 | 113.6 |
| Cobalt | 0 | 435 | 8 | 470.0 | 108.0 | 8 | 489.7 | 112.6 |
| Copper | 0 | 473 | 3 | 537.3 | 113.6 | 2 | 509.7 | 107.8 |
| Iron | 200000 | 172540 | 200500 | 200600.0 | 116.3 | 202800 | 203000.0 | 117.7 |
| Lead | 0 | 44 | 7 | 50.9 | 115.7 | 0 | 49.8 | 113.2 |
| Magnesium | 500000 | 498160 | 539700 | 547900.0 | 110.0 | 552000 | 560100.0 | 112.4 |
| Manganese | 0 | 428 | 0 | 468.3 | 109.4 | 0 | 485.2 | 113.4 |
| Nickel | 0 | 877 | 11 | 954.1 | 108.8 | 11 | 994.8 | 113.4 |
| Potassium | 0 | 0 | 65 | 109.8 | | 160 | 166.7 | |
| Selenium | 0 | 48 | 4 | 50.6 | 105.4 | 5 | 51.3 | 106.9 |
| Silver | 0 | 196 | 1 | 218.9 | 111.7 | 0 | 216.1 | 110.3 |
| Sodium | 0 | 0 | -163 | -136.7 | | -172 | -371.9 | |
| Thallium | 0 | 95 | 5 | 97.1 | 102.2 | 4 | 95.1 | 100.1 |
| Vanadium | 0 | 417 | -2 | 457.2 | 109.6 | -2 | 470.8 | 112.9 |
| Zinc | 0 | 841 | 9 | 934.8 | 111.2 | 10 | 992.6 | 118.0 |

USEPA-CLP FORMS

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLP

ICP ID Number: TJA ICAP 5 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 |
| Iron | 200000 | 179960 | 199000 | 193800.0 | 107.7 | 189300 | 186800.0 | 103.8 |
| Sodium | 0 | 0 | 60 | -196.6 | | -643 | -648.4 | |

USEPA-CLP FORMS

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

CLEABGSSS250.5SPLPS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLP

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

% Solids for Sample: 0.0

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

| Analyte | Control Limit %R | Spiked Sample Result (SSR) C | Sample Result (SR) C | Spike Added (SA) | %R | Q | M |
|----------|------------------|------------------------------|----------------------|------------------|-------|---|----|
| Arsenic | 75 - 125 | 1001.0000 | 2.4000 U | 1000.00 | 100.1 | | P |
| Barium | 75 - 125 | 2122.0000 | 18.7500 B | 2000.00 | 105.2 | | P |
| Cadmium | 75 - 125 | 51.8000 | 0.3000 U | 50.00 | 103.6 | | P |
| Chromium | 75 - 125 | 211.1000 | 1.2470 B | 200.00 | 104.9 | | P |
| Copper | 75 - 125 | 274.2000 | 4.4720 B | 250.00 | 107.9 | | P |
| Lead | 75 - 125 | 506.0000 | 1.5000 U | 500.00 | 101.2 | | P |
| Mercury | 75 - 125 | 96.0000 | 10.0000 U | 100.00 | 96.0 | | CV |
| Nickel | 75 - 125 | 519.7000 | 2.0000 U | 500.00 | 103.9 | | P |
| Selenium | 75 - 125 | 1938.0000 | 3.5260 B | 2000.00 | 96.7 | | P |
| Silver | 75 - 125 | 537.2000 | 0.9000 U | 500.00 | 107.4 | | P |
| Zinc | 75 - 125 | 515.8000 | 5.7000 U | 500.00 | 103.2 | | P |

Comments:

USEPA-CLP FORMS

5B

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

CLEABGSSS25 (0.5) SPLPA

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS _____ SDG No.: GCS004-SPLP

Matrix (soil/water): WATER 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 | | 3540.00 | | 1213.00 | | 2000.0 | 116.4 | | P |
| Antimony | | 525.40 | | 3.80 | U | 500.0 | 105.1 | | P |
| Arsenic | | 37.32 | | 2.40 | U | 40.0 | 93.3 | | P |
| Barium | | 2117.00 | | 18.75 | B | 2000.0 | 104.9 | | P |
| Beryllium | | 51.53 | | 0.20 | U | 50.0 | 103.1 | | P |
| Cadmium | | 53.49 | | 0.30 | U | 50.0 | 107.0 | | P |
| Chromium | | 218.20 | | 1.25 | B | 200.0 | 108.5 | | P |
| Cobalt | | 531.30 | | 1.80 | U | 500.0 | 106.3 | | P |
| Copper | | 282.10 | | 4.47 | B | 250.0 | 111.1 | | P |
| Iron | | 1672.00 | | 654.10 | | 1000.0 | 101.8 | | P |
| Lead | | 21.64 | | 1.50 | U | 20.0 | 108.2 | | P |
| Manganese | | 583.30 | | 48.88 | | 500.0 | 106.9 | | P |
| Nickel | | 530.80 | | 2.00 | U | 500.0 | 106.2 | | P |
| Selenium | | 11.31 | | 3.53 | B | 10.0 | 77.8 | | P |
| Silver | | 44.68 | | 0.90 | U | 50.0 | 89.4 | | P |
| Thallium | | 50.65 | | 2.80 | U | 50.0 | 101.3 | | P |
| Vanadium | | 541.90 | | 2.30 | B | 500.0 | 107.9 | | P |
| Zinc | | 530.00 | | 5.70 | U | 500.0 | 106.0 | | P |

Comments: _____

USEPA-CLP FORMS

6

DUPLICATES

SAMPLE NO.

CLEABGSSS250.5SPLPD

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLPMatrix (soil/water): WATER Level (low/med): LOW% Solids for Sample: 0.0 % Solids for Duplicate: 0.0Concentration Units (ug/L or mg/kg dry weight): UG/L

| Analyte | Control Limit | Sample (S) | C | Duplicate (D) | C | RPD | Q | M |
|-----------|---------------|------------|---|---------------|---|-------|---|----|
| Aluminum | | 1213.0000 | | 1290.0000 | | 6.2 | | P |
| Antimony | | 3.8000 | U | 3.8000 | U | | | P |
| Arsenic | | 2.4000 | U | 2.4000 | U | | | P |
| Barium | | 18.7500 | B | 20.3700 | B | 8.3 | | P |
| Beryllium | | 0.2000 | U | 0.2000 | U | | | P |
| Cadmium | | 0.3000 | U | 0.3000 | U | | | P |
| Calcium | | 1173.0000 | B | 1212.0000 | B | 3.3 | | P |
| Chromium | | 1.2470 | B | 0.6000 | U | 200.0 | | P |
| Cobalt | | 1.8000 | U | 1.8000 | U | | | P |
| Copper | | 4.4720 | B | 3.6980 | B | 18.9 | | P |
| Iron | | 654.1000 | | 678.3000 | | 3.6 | | P |
| Lead | | 1.5000 | U | 1.5000 | U | | | P |
| Magnesium | | 270.6000 | B | 278.4000 | B | 2.8 | | P |
| Manganese | 15.0 | 48.8800 | | 50.5500 | | 3.4 | | P |
| Mercury | | 10.0000 | U | 10.0000 | U | | | CV |
| Nickel | | 2.0000 | U | 2.0000 | U | | | P |
| Potassium | | 1161.0000 | B | 1154.0000 | B | 0.6 | | P |
| Selenium | | 3.5260 | B | 2.5800 | B | 31.0 | | P |
| Silver | | 0.9000 | U | 0.9000 | U | | | P |
| Sodium | 5000.0 | 7130.0000 | | 7358.0000 | | 3.1 | | P |
| Thallium | | 2.8000 | U | 2.8000 | U | | | P |
| Vanadium | | 2.3020 | B | 2.2000 | U | 200.0 | | P |
| Zinc | | 5.7000 | U | 5.7000 | U | | | P |

USEPA-CLP FORMS

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLP

Solid LCS Source: _____

Aqueous LCS Source: Inorganic Ventures

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|-----------|----------------|----------|-------|---------------|-------|---|--------|----|
| | True | Found | %R | True | Found | C | Limits | %R |
| Aluminum | 51000.0 | 53390.00 | 104.7 | | | | | |
| Antimony | 2000.0 | 1986.00 | 99.3 | | | | | |
| Arsenic | 1050.0 | 1027.00 | 97.8 | | | | | |
| Barium | 500.0 | 511.60 | 102.3 | | | | | |
| Beryllium | 500.0 | 492.80 | 98.6 | | | | | |
| Cadmium | 525.0 | 508.30 | 96.8 | | | | | |
| Calcium | 50000.0 | 50540.00 | 101.1 | | | | | |
| Chromium | 500.0 | 498.00 | 99.6 | | | | | |
| Cobalt | 500.0 | 492.40 | 98.5 | | | | | |
| Copper | 500.0 | 526.80 | 105.4 | | | | | |
| Iron | 50500.0 | 51790.00 | 102.6 | | | | | |
| Lead | 1015.0 | 964.90 | 95.1 | | | | | |
| Magnesium | 50000.0 | 50930.00 | 101.9 | | | | | |
| Manganese | 500.0 | 491.80 | 98.4 | | | | | |
| Mercury | 1.0 | 0.94 | 94.0 | | | | | |
| Nickel | 500.0 | 489.50 | 97.9 | | | | | |
| Potassium | 50000.0 | 51670.00 | 103.3 | | | | | |
| Selenium | 525.0 | 496.40 | 94.6 | | | | | |
| Silver | 500.0 | 435.70 | 87.1 | | | | | |
| Sodium | 50000.0 | 53990.00 | 108.0 | | | | | |
| Thallium | 550.0 | 522.80 | 95.1 | | | | | |
| Vanadium | 500.0 | 498.20 | 99.6 | | | | | |
| Zinc | 500.0 | 518.90 | 103.8 | | | | | |

USEPA-CLP FORMS

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLP

Solid LCS Source: _____

Aqueous LCS Source: Inorganic Ventures

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | |
|---------|----------------|-------|------|---------------|---------|--------|----|
| | True | Found | %R | True | Found C | Limits | %R |
| Mercury | 1.0 | 0.91 | 91.0 | | | | |

USEPA-CLP FORMS

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLP

Solid LCS Source: _____

Aqueous LCS Source: Inorganic Ventures

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|---------|----------------|-------|------|---------------|-------|---|--------|----|
| | True | Found | %R | True | Found | C | Limits | %R |
| Mercury | 1.0 | 0.99 | 99.0 | | | | | |

USEPA-CLP FORMS

9
ICP SERIAL DILUTIONS

SAMPLE NO.

CLEABGSSS25 (0.5) SPLPL

Lab Name: STL BURLINGTON

Contract: 23046

Lab Code: STLVT Case No.: 23046

SAS No.: _____ SDG No.: GCS004-SPLP

Matrix (soil/water): WATER

Level (low/med): LOW

Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | | Serial Dilution Result (S) | | % Difference | Q | M |
|-----------|---------------------------|---|----------------------------|---|--------------|---|---|
| | | C | | C | | | |
| Aluminum | 1213.00 | | 1295.00 | | 6.8 | | P |
| Antimony | 3.80 | U | 19.00 | U | | | P |
| Arsenic | 2.40 | U | 12.00 | U | | | P |
| Barium | 18.75 | B | 36.50 | U | 100.0 | | P |
| Beryllium | 0.20 | U | 1.00 | U | | | P |
| Cadmium | 0.30 | U | 1.50 | U | | | P |
| Calcium | 1173.00 | B | 1203.00 | B | 2.6 | | P |
| Chromium | 1.25 | B | 3.00 | U | 100.0 | | P |
| Cobalt | 1.80 | U | 9.00 | U | | | P |
| Copper | 4.47 | B | 7.00 | U | 100.0 | | P |
| Iron | 654.10 | | 481.60 | B | 26.4 | | P |
| Lead | 1.50 | U | 7.50 | U | | | P |
| Magnesium | 270.60 | B | 908.50 | U | 100.0 | | P |
| Manganese | 48.88 | | 50.74 | B | 3.8 | | P |
| Nickel | 2.00 | U | 10.00 | U | | | P |
| Potassium | 1161.00 | B | 1314.00 | B | 13.2 | | P |
| Selenium | 3.53 | B | 8.50 | U | 100.0 | | P |
| Silver | 0.90 | U | 4.50 | U | | | P |
| Sodium | 7130.00 | | 2661.50 | U | 100.0 | | P |
| Thallium | 2.80 | U | 14.00 | U | | | P |
| Vanadium | 2.30 | B | 11.00 | U | 100.0 | | P |
| Zinc | 5.70 | U | 28.50 | U | | | P |

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVT Case No.: 23046

SAS No.: _____

SDG No.: GCS004-SPLP

ICP ID Number: _____

Date: 07/01/03Flame 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:

USEPA-CLP FORMS

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLP

ICP ID Number: TJA ICAP 5 Date: 07/01/03

Flame AA ID Number: _____

Furnace AA ID Number: _____

| Analyte | Wave-length (nm) | Back-ground | CRDL (ug/L) | IDL (ug/L) | M |
|---------|------------------|-------------|-------------|------------|---|
| Iron | 271.441 | | 100 | 66.7 | P |
| Sodium | 330.232 | | 5000 | 532.3 | P |

Comments:

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVT Case No.: 23046

SAS No.: _____

SDG No.: GCS004-SPLPICP ID Number: TJA ICAP 6Date: 07/01/03

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 | 18.3 | P |
| Antimony | 206.838 | | 60 | 3.8 | P |
| Arsenic | 189.042 | | 10 | 2.4 | P |
| Barium | 493.409 | | 200 | 7.3 | P |
| Beryllium | 313.042 | | 5 | 0.2 | P |
| Cadmium | 226.502 | | 5 | 0.3 | P |
| Calcium | 317.933 | | 5000 | 223.2 | P |
| Chromium | 267.716 | | 10 | 0.6 | P |
| Cobalt | 228.616 | | 50 | 1.8 | P |
| Copper | 324.754 | | 25 | 1.4 | P |
| Iron | 271.441 | | 100 | 16.8 | P |
| Lead | 220.353 | | 3 | 1.5 | P |
| Magnesium | 279.079 | | 5000 | 181.7 | P |
| Manganese | 257.610 | | 15 | 0.7 | P |
| Nickel | 231.604 | | 40 | 2.0 | P |
| Potassium | 766.491 | | 5000 | 250.0 | P |
| Selenium | 196.026 | | 5 | 1.7 | P |
| Silver | 328.068 | | 10 | 0.9 | P |
| Sodium | 330.232 | | 5000 | 218.8 | P |
| Thallium | 190.864 | | 10 | 2.8 | P |
| Vanadium | 292.402 | | 50 | 2.2 | P |
| Zinc | 206.200 | | 20 | 5.7 | P |

Comments: _____

USEPA-CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLP
 ICP ID Number: TJA ICAP 5 Date: 10/02/02

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | | |
|------------|------------------|--------------------------------------|-----------|------------|-----------|-----------|
| | | Al | Ca | Fe | Mg | Ag |
| 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 | 0.0000050 | 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 |
| Cadmium | 226.50 | 0.0000070 | 0.0000000 | 0.0000830 | 0.0000000 | 0.0000000 |
| Calcium | 317.93 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.72 | 0.0000290 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cobalt | 228.61 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper | 324.75 | 0.0000000 | 0.0000000 | 0.0000060 | 0.0000000 | 0.0000000 |
| Iron | 271.44 | 0.0001300 | 0.0000000 | 0.0000000 | -0.000400 | 0.0000000 |
| Lead | 220.35 | 0.0008600 | 0.0000000 | 0.0000920 | -0.000008 | 0.0000000 |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 294.92 | 0.0000000 | 0.0000000 | 0.0006580 | 0.0000180 | 0.0000000 |
| Molybdenum | 202.03 | 0.0000000 | 0.0000000 | 0.0000260 | 0.0000000 | 0.0000000 |
| Nickel | 231.60 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Phosphorus | 178.29 | 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 | 0.0000100 | 0.0000000 | -0.0001300 | -0.000010 | 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 |
| Strontium | 421.55 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.86 | -0.0000090 | 0.0000000 | -0.0004350 | 0.0000000 | 0.0000000 |
| Titanium | 334.94 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Vanadium | 292.40 | 0.0000000 | 0.0000000 | -0.0003250 | 0.0000000 | 0.0000000 |
| Zinc | 213.85 | 0.0000000 | 0.0000000 | 0.0000800 | 0.0000390 | 0.0000000 |

Comments: _____

USEPA-CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLP
 ICP ID Number: TJA ICAP 5 Date: 10/02/02

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | | |
|------------|------------------|--------------------------------------|-----------|-----------|-----------|------------|
| | | As | B | Be | Cd | Co |
| Aluminum | 308.22 | 0.0026340 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Antimony | 206.84 | 0.0002400 | 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 | 0.0000000 | 0.0000000 |
| Cadmium | 226.50 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000840 |
| 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 | 228.61 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper | 324.75 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000610 |
| Iron | 271.44 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0840960 |
| Lead | 220.35 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0026440 |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 294.92 | 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 | 0.0022990 |
| Phosphorus | 178.29 | 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 | 0.0000000 | 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 |
| Strontium | 421.55 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.86 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0018110 |
| Titanium | 334.94 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0002200 |
| Vanadium | 292.40 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc | 213.85 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

Comments: _____

USEPA-CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLP
 ICP ID Number: TJA ICAP 5 Date: 10/02/02

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | | |
|------------|------------------|--------------------------------------|------------|-----------|-----------|-----------|
| | | Cr | Cu | Mn | Na | Ni |
| Aluminum | 308.22 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Antimony | 206.84 | 0.0087280 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Arsenic | 189.04 | -0.0088830 | 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 | 0.0000000 | 0.0000000 |
| Cadmium | 226.50 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0001070 |
| 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 | 228.61 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| 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 | -0.0000530 | -0.0000340 | 0.0000000 | 0.0000000 | 0.0000000 |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 294.92 | -0.0015990 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Molybdenum | 202.03 | 0.0004700 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Nickel | 231.60 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Phosphorus | 178.29 | 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 | 0.0000000 | 0.0000000 | 0.0000000 |
| Silver | 328.07 | -0.0000990 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Sodium | 330.23 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Strontium | 421.55 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.86 | 0.0002810 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Titanium | 334.94 | 0.0002200 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Vanadium | 292.40 | -0.0020840 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc | 213.85 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

Comments: _____

USEPA-CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLP
 ICP ID Number: TJA ICAP 5 Date: 10/02/02

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | | |
|------------|------------------|--------------------------------------|------------|-----------|-----------|-----------|
| | | Pb | Sb | Se | Si | Tl |
| 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 | 0.0000000 | 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 | 0.0000000 | 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 | 228.61 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| 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 | 0.0000000 | -0.0001650 | 0.0000000 | 0.0000000 | 0.0000000 |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 294.92 | 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 | 0.0005120 |
| Phosphorus | 178.29 | 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 | 0.0000000 | 0.0000000 | 0.0000650 |
| 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 |
| Strontium | 421.55 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.86 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Titanium | 334.94 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Vanadium | 292.40 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc | 213.85 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

Comments: _____

USEPA-CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLP
 ICP ID Number: TJA ICAP 5 Date: 10/02/02

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | |
|------------|------------------|--------------------------------------|-----------|--|--|
| | | V | Zn | | |
| Aluminum | 308.22 | -0.0084630 | 0.0000000 | | |
| Antimony | 206.84 | -0.0060220 | 0.0000000 | | |
| Arsenic | 189.04 | 0.0000000 | 0.0000000 | | |
| Barium | 493.41 | 0.0000000 | 0.0000000 | | |
| Beryllium | 313.04 | 0.0009440 | 0.0000000 | | |
| Cadmium | 226.50 | 0.0000000 | 0.0000000 | | |
| Calcium | 317.93 | 0.0000000 | 0.0000000 | | |
| Chromium | 267.72 | -0.0001950 | 0.0000000 | | |
| Cobalt | 228.61 | 0.0000000 | 0.0000000 | | |
| Copper | 324.75 | 0.0000000 | 0.0000000 | | |
| Iron | 271.44 | 0.0124990 | 0.0000000 | | |
| Lead | 220.35 | 0.0000000 | 0.0000000 | | |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | | |
| Manganese | 294.92 | 0.0078880 | 0.0000000 | | |
| Molybdenum | 202.03 | -0.0000010 | 0.0000000 | | |
| Nickel | 231.60 | 0.0000000 | 0.0000000 | | |
| Phosphorus | 178.29 | 0.0000000 | 0.0000000 | | |
| Potassium | 766.49 | 0.0000000 | 0.0000000 | | |
| Selenium | 196.03 | 0.0000920 | 0.0000000 | | |
| Silver | 328.07 | 0.0000910 | 0.0000000 | | |
| Sodium | 330.23 | 0.0000000 | 0.0593250 | | |
| Strontium | 421.55 | 0.0000000 | 0.0000000 | | |
| Thallium | 190.86 | -0.0011100 | 0.0000000 | | |
| Titanium | 334.94 | 0.0000000 | 0.0000000 | | |
| Vanadium | 292.40 | 0.0000000 | 0.0000000 | | |
| Zinc | 213.85 | -0.0000350 | 0.0000000 | | |

Comments: _____

USEPA-CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLP
 ICP ID Number: TJA ICAP 6 Date: 10/01/02

| 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: _____

USEPA-CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLP

ICP ID Number: TJA ICAP 6 Date: 10/01/02

| 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: _____

USEPA-CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLPICP ID Number: TJA ICAP 6 Date: 10/01/02

| 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: _____

USEPA-CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLP
 ICP ID Number: TJA ICAP 6 Date: 10/01/02

| 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: _____

USEPA-CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLP

ICP ID Number: TJA ICAP 6 Date: 10/01/02

| 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 FORMS

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCS004-SPLPICP ID Number: TJA ICAP 5Date: 07/01/03

| Analyte | Integ. Time (Sec.) | Concentration (ug/L) | M |
|---------|--------------------------|-------------------------|---|
| Iron | 10.00 | 1000000.0 | P |
| Sodium | 10.00 | 100000.0 | P |

Comments: _____

USEPA-CLP FORMS

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCS004-SPLPICP ID Number: TJA ICAP 6Date: 07/01/03

| 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 | 100000.0 | P |
| Iron | 10.00 | 1000000.0 | P |
| Lead | 10.00 | 50000.0 | P |
| Magnesium | 10.00 | 600000.0 | P |
| Manganese | 10.00 | 10000.0 | P |
| Nickel | 10.00 | 50000.0 | P |
| Potassium | 10.00 | 100000.0 | P |
| Selenium | 10.00 | 5000.0 | 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 | 10000.0 | P |

Comments: _____

USEPA-CLP FORMS

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLPMethod: CV

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|------------------------|---------------------|----------------------|----------------|
| BLACPDSSS10 (0.4) SPLP | 08/14/03 | 1.0 | 100.0 |
| BLACWPSUS13 (1.5) SPLP | 08/14/03 | 1.0 | 100.0 |
| CLEABGSSS26 (0.5) SPLP | 08/14/03 | 1.0 | 100.0 |
| LCSDW0814F | 08/14/03 | 100.0 | 100.0 |
| LCSW0814F | 08/14/03 | 100.0 | 100.0 |
| PBW0814F | 08/14/03 | 100.0 | 100.0 |

USEPA-CLP FORMS

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLPMethod: CV

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|-------------------------|---------------------|----------------------|----------------|
| BLACWPSUS12 (1.0) SPLP | 08/14/03 | 1.0 | 100.0 |
| BLUETASUS32 (1.5) SPLP | 08/14/03 | 1.0 | 100.0 |
| BLUETASUS33 (2.0) SPLP | 08/14/03 | 1.0 | 100.0 |
| CLEABGSSSS25 (0.5) SPLP | 08/14/03 | 1.0 | 100.0 |
| CLEABGSSSS250.5SPLPD | 08/14/03 | 1.0 | 100.0 |
| CLEABGSSSS250.5SPLPS | 08/14/03 | 1.0 | 100.0 |
| EBLKQ2 | 08/14/03 | 1.0 | 100.0 |
| LCSW0814G | 08/14/03 | 100.0 | 100.0 |
| PBW0814G | 08/14/03 | 100.0 | 100.0 |

USEPA-CLP FORMS

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLPMethod: P

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|----------------------|---------------------|----------------------|----------------|
| BLACPDSS10(0.4)SPLP | 08/11/03 | 100.0 | 100.0 |
| BLACWPSUS12(1.0)SPLP | 08/11/03 | 100.0 | 100.0 |
| BLACWPSUS13(1.5)SPLP | 08/11/03 | 100.0 | 100.0 |
| BLUETASUS32(1.5)SPLP | 08/11/03 | 100.0 | 100.0 |
| BLUETASUS33(2.0)SPLP | 08/11/03 | 100.0 | 100.0 |
| CLEABGSS25(0.5)SPLP | 08/11/03 | 100.0 | 100.0 |
| CLEABGSS250.5SPLPD | 08/11/03 | 100.0 | 100.0 |
| CLEABGSS250.5SPLPS | 08/11/03 | 100.0 | 100.0 |
| CLEABGSS26(0.5)SPLP | 08/11/03 | 100.0 | 100.0 |
| EBLKQ2 | 08/11/03 | 100.0 | 100.0 |
| LCSW0811A | 08/11/03 | 100.0 | 100.0 |
| PBW0811A | 08/11/03 | 100.0 | 100.0 |

USEPA-CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLP
 Instrument ID Number: TJA ICAP 6 Method: P
 Start Date: 09/08/03 End Date: 09/08/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|------|------|-----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V N | Z N | C N |
| S0 | 1.00 | 1402 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| S | 1.00 | 1406 | | X | | | | | X | | | | | X | | | | | X | | X | | | | | | |
| S | 1.00 | 1410 | | | X | X | | | | | | | | X | | | | | X | | X | | | | | | |
| S | 1.00 | 1414 | | | | | X | X | X | | X | X | X | | | X | X | | X | | X | | | X | X | | |
| LRS | 1.00 | 1418 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| LRS | 1.00 | 1422 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| LRS | 1.00 | 1427 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| ICV | 1.00 | 1431 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| ICB | 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 | X | |
| ICSA | 1.00 | 1439 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| ICSAB | 1.00 | 1443 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CRI | 1.00 | 1447 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CCV | 1.00 | 1451 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CCB | 1.00 | 1456 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| PBW0811A | 1.00 | 1500 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| LCSW0811A | 1.00 | 1504 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| BLACPDSS10(0.4) SPLP | 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 | X | |
| CLEABGSS126(0.5) SPLP | 1.00 | 1512 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| BLACWPSUS13(1.5) SPLP | 1.00 | 1516 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| BLACWPSUS12(1.0) SPLP | 1.00 | 1520 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CLEABGSS125(0.5) SPLP | 1.00 | 1524 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CLEABGSS125(0.5) SPLP | 5.00 | 1528 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CLEABGSS125(0.5) SPLP | 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 | X | |
| CLEABGSS1250.5SPLPD | 1.00 | 1536 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CCV | 1.00 | 1540 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CCB | 1.00 | 1544 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CLEABGSS1250.5SPLPS | 1.00 | 1549 | | | | X | X | | X | X | X | X | | | | | X | X | X | | | | | | X | | |
| BLUETASUS32(1.5) SPLP | 1.00 | 1553 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| BLUETASUS33(2.0) SPLP | 1.00 | 1557 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| EBLKQ2 | 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 | X | |
| ZZZZZZ | 1.00 | 1605 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1609 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1613 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1617 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1621 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1625 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1629 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CCB | 1.00 | 1633 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |

USEPA-CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCS004-SPLP
 Instrument ID Number: TJA ICAP 6 Method: P
 Start Date: 09/08/03 End Date: 09/08/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V L | Z N | C N | | | | |
| ZZZZZZ | 1.00 | 1637 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1641 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1645 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1650 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 5.00 | 1654 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1658 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1702 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1706 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1710 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1714 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 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 | X | X | X | | | |
| CCB | 1.00 | 1722 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICSA | 1.00 | 1726 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICSAB | 1.00 | 1730 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CRI | 1.00 | 1734 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCV | 1.00 | 1739 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCB | 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 | X | X | X | | | |

STL Burlington
Colchester, Vermont

Sample Data Summary
Package

SDG: GCV001

September 17, 2003

Ms. Jennifer Kindred
EA Engineering
12011 Bellevue-Redmond Rd.
Suite 200
Bellevue, WA 98005

Re: Laboratory Project No. 23046
Case No. 23046; SDG: GCV001

Dear Ms. Kindred:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on July 12, 15, 18, 22 and 24, 2003. Laboratory numbers have been assigned and designated as follows:

| <u>Lab ID</u> | <u>Client Sample ID</u> | <u>Sample Date</u> | <u>Sample Matrix</u> |
|----------------------------------|-----------------------------|------------------------|--------------------------|
| Received: 07/12/03 ETR No: 94699 | | | |
| 533808 | MONU-WP-PLT-15 | 07/09/03 | Solid |
| 533809 | MONU-WP-PLT-14 | 07/10/03 | Solid |
| 533810 | EBLK | | Water |
| Received: 07/15/03 ETR No: 94720 | | | |
| 533933 | CENT-WP-PLT-31 | 07/11/03 | Solid |
| 533934 | TILL-WP-PLT-27 | 07/12/03 | Solid |
| Received: 07/18/03 ETR No: 94839 | | | |
| 534697 | SHERWPPLT23 | 07/14/03 | Solid |
| 534698 | SHERWPPLT23(100) | 07/14/03 | Solid |
| 534699 | CAPMWPPLT20 | 07/15/03 | Solid |
| 534700 | GRANBGPLT35 | 07/15/03 | Solid |
| 534701 | GRANBGPLT34 | 07/15/03 | Solid |
| 534702 | GRANBGPLT36 | 07/15/03 | Solid |
| 534702MS | GRANBGPLT36MS | 07/15/03 | Solid |
| 534702DP | GRANBGPLT36REP | 07/15/03 | Solid |

0001-A

Severn Trent Laboratories, Inc.
STL Burlington • 208 South Park Drive, Suite 1, Colchester, VT 05446
Tel 802 655 1203 Fax 802 655 1248 • www.stl-inc.com

| <u>Lab ID</u> | <u>Client Sample ID</u> | <u>Sample Date</u> | <u>Sample Matrix</u> |
|----------------------------------|-----------------------------|------------------------|--------------------------|
| Received: 07/22/03 ETR No: 94942 | | | |
| 535357 | AJAXWPPLT08 | 07/17/03 | Solid |
| 535358 | AJAXPDPLT06 | 07/17/03 | Solid |
| 535359 | MAGNWPPLT14 | 07/18/03 | Solid |
| 535360 | MAGNPDPLT11 | 07/18/03 | Solid |
| 535361 | LUCABGPLT19 | 07/19/03 | Solid |
| 535362 | MAGNWPPLT17 | 07/19/03 | Solid |

Received: 07/24/03 ETR No: 94998

| | | | |
|--------|-------------|----------|-------|
| 535819 | BLUEWPPLT20 | 07/21/03 | Solid |
| 535820 | BLUEWPPLT24 | 07/21/03 | Solid |
| 535859 | EBLK | | Water |

Due to reporting software limitations, sample identifications may have been truncated. In most instances only punctuation was removed.

This narrative identifies anomalies that occurred during the analyses of samples in this delivery group. If there is no description following regarding a certain methodology requested on the chain-of-custody record, then there were no exceptions to the laboratory quality control criteria noted during that analysis.

Documentation that identifies the condition of the samples at the time of sample receipt and the issues arising at the time of sample log-in is included in the Sample Handling section of this submittal.

The plant samples were homogenized for analysis by the lab and after homogenization the tissue was maintained in frozen storage at -20 °C.

The results for the tissue samples are reported on a dry weight basis. In preparing the tissues, an equipment bank was generated in order to characterize the homogenization process. This blank, identified as "EBLK", was carried through each of the analytical processes, using weighed amounts similar to the tissue amounts that were analyzed. The results have been reported on the same weight/weight basis as the tissue samples.

Metals by ICP / CVAA

The percent differences between the original determination and the serial dilution determination for potassium and zinc in sample GRANBGPLT36 were 24.0 and 19.8 percent, respectively. These recoveries are above the control criteria of ±10 percent. Matrix interference is suspected and results have been flagged with an "E" accordingly.

The recovery of cyanide from the laboratory fortified aliquot of sample GRANBGPLT36 was 47.5 percent which is below the control limit of 75-100 percent. Corresponding sample results

have been qualified with an "N" to denote this anomaly. Recovery from the post digestate spike proved acceptable as did recovery from the laboratory control sample.

If there are any questions regarding this submittal, please contact Jeannine McCrumb at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 0001 and ending with page 0532.

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. The release of the data contained in this hardcopy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,



Michael F. Wheeler, Ph.D.
Laboratory Director

Enclosure
MFW/jtw/jmm

0001-C Last Alpha

10F1

Report to: _____
 Invoice to: _____

Company: EAT Engineering
 Address: 12011 Bel-Red Rd Suite 200
Bellevue, WA 98005

Contact: Sen Kindred
 Phone: 425-451-7460
 Fax: 425-451-7800

Contract/Quote: _____

Company: Same
 Address: _____
 Contact: _____
 Phone: _____
 Fax: _____

Sampler's Name: Don Norman
 Sampler's Signature: Don Norman

Project Name: Granite Creek Watershed

| Matrix | Date | Time | C o m p o s i t e | Identifying Marks of Samples | VOA | A/G 1 Lt | 250 ml | P/O |
|--------|---------|------|-------------------|------------------------------|-----|----------|--------|-----|
| V | 7/19/03 | 1100 | X | MONU-WP-PLT-15 | | | | 1 |
| V | 7/10/03 | 1100 | X | MONU-WP-PLT-14 | | | | 1 |

ANALYSIS REQUESTED
TAL metals
Cyanide

Lab Use Only

Due Date: _____

Temp. of coolers when received (C°):
 1 _____ 2 _____ 3 _____ 4 _____ 5 _____

Custody Seal Intact: N / Y

Screened For Radioactivity:

| Matrix | Date | Time | C o m p o s i t e | Identifying Marks of Samples | VOA | A/G 1 Lt | 250 ml | P/O | Remarks |
|-----------------------|------|------|-------------------|------------------------------|-----|----------|--------|-----|---------|
| [Crossed out section] | | | | | | | | | |

Received by: (Signature) [Signature] Date: 7-11-03 Time: 0800

Received by: (Signature) [Signature] Date: 6/12/03 Time: 1100

Matrix: WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
 Container: VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other ziplock bag

1 Veg V = Vegetation Tissue

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

Report to: _____ Invoice to: _____
 Company: EA Engage Ring Company: Se vna
 Address: 12011 Bel-Red Rd Suite 200 Address: _____
 Bellevue, WA 98005
 Contact: Sen Kindred Contact: _____
 Phone: 425-451-7400 Phone: _____
 Fax: 425-451-7800 Fax: _____
 Contract/Quote: _____

Sampler's Name: Don Norman Sampler's Signature: *Don Norman*

Project Name: Granite Creek Watershed
 No/Type of Containers: _____

AnalYSIS REQUESTED: TAL metals, Cyanide

Lab Use Only
 Due Date: _____
 Temp. of coolers when received (C°):
 1 2 3 4 5
 Custody Seal N / Y
 Intact N / Y
 Screened For Radioactivity

| Matrix | Date | Time | Identifying Marks of Sample(s) | VOA | A/G 1 Lt. | 250 ml | P/O | ANALYSIS REQUESTED | Remarks |
|--------|---------|------|--------------------------------|-----|-----------|--------|-----|--------------------|---------|
| V | 7/14/05 | 1340 | SHER-WP-PLT-23 | | | | 1 | X | |
| V | 7/14/05 | 1346 | SHER-WP-PLT-23 (10b) | | | | 1 | X | |
| V | 7/15/05 | 1130 | CAPM-WP-PLT-20 | | | | 1 | X | |
| V | 7/15/05 | 1625 | GRAN-BG-PLT-35 | | | | 1 | X | |
| V | 7/15/05 | 1600 | GRAN-BG-PLT-34 | | | | 1 | X | |
| V | 7/15/05 | 1800 | GRAN-BG-PLT-36 MS | | | | 2 | X | MS |

Retrieved by: (Signature) *[Signature]* Date: 7/14/05 Time: 1500 Received by: (Signature) *[Signature]* Date: 7/14/05 Time: 1000

Retrieved by: (Signature) _____ Date: _____ Time: _____ Received by: (Signature) _____ Date: _____ Time: _____

Relinquished by: (Signature) _____ Date: _____ Time: _____ Received by: (Signature) _____ Date: _____ Time: _____

Matrix: WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
 Container: VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Ziplock bag

V = vegetation tissue

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

P 1 of 1

Report to:
Company: EA Engineering
Address: 12011 Bel Red Rd Suite 200
Belleve, WA 98005
Contact: Sen Kindred
Phone: 425-451-7400
Fax: 425-451-7800
Contract/Quote:

Invoice to:
Company: same
Address: _____
Contact: _____
Phone: _____
Fax: _____

Sampler's Name: Don Norman
Sampler's Signature: Don Norman

Proj. No. 13890.B Project Name Granite Creek Watershed No./Type of Containers: _____

| Matrix | Date | Time | Identifying Marks of Sample(s) | No./Type of Containers | | | ANALYSIS REQUESTED | Remarks |
|--------|---------|------|--------------------------------|------------------------|-----------|------------|--------------------|------------------|
| | | | | VOA | A/G 1 Lt. | 250 ml P/O | | |
| V | 7/13/03 | 1300 | ASAX-WP-PLT-08 | | | 1 | X | TAL Metals CN |
| V | 7/14/03 | 1300 | ASAX-PD-PLT-06 | | | 1 | X | |
| V | 7/14/03 | 1700 | MAGN-WP-PLT-14 | | | 1 | X | |
| V | 7/14/03 | 1430 | MAGN-PD-PLT-11 | | | 1 | X | |
| V | 7/14/03 | 1400 | LUCA-86-PLT-19 | | | 1 | X | |
| V | 7/14/03 | 1245 | MAGN-WP-PLT-17 | | | 1 | X | |

Lab Use Only
Due Date: _____
Temp. of coolers when received (C°):
1 _____ 2 _____ 3 _____ 4 _____ 5 _____
Custody Seal Intact: N / Y
Screened For Radioactivity:

Requisitioned by: (Signature) [Signature] Date 7-21-03 Time 0100 Received by: (Signature) [Signature] Date 7/22/03 Time 1030
Requisitioned by: (Signature) _____ Date _____ Time _____ Received by: (Signature) _____ Date _____ Time _____
Requisitioned by: (Signature) _____ Date _____ Time _____ Received by: (Signature) _____ Date _____ Time _____

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

**SEVERN
TRENT**

STL

**Sample Data Summary Package
For Wet Chemistry**

WET CHEMISTRY

Sample Report Summary

Client Sample No.

MONU-WP-PLT-15

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCV001

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 533808

Matrix: SOLID

Client: EASEAT

Date Received: 07/12/03

% Solids: 35.2

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------|---------------------|------------------|-------|-----|----|-------|-------|
| IN623 | Solids, Percent | 07/15/03 | N/A | % | 1.0 | | 35.2 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

MONU-WP-PLT-14

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCV001

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 533809

Matrix: SOLID

Client: EASEAT

Date Received: 07/12/03

% Solids: 31.5

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------|---------------------|------------------|-------|-----|----|-------|-------|
| IN623 | Solids, Percent | 07/15/03 | N/A | % | 1.0 | | 31.5 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

EBLK

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCV001

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 533810

Matrix: WATER

Client: EASEAT

Date Received: 07/12/03

% Solids: 0.0

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------|---------------------|------------------|-------|-----|----|-------|-------|
| IN623 | Solids, Percent | 07/15/03 | N/A | % | 1.0 | | 0.0 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

CENT-WP-PLT-31

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCV001

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 533933

Matrix: SOLID

Client: EASEAT

Date Received: 07/15/03

% Solids: 33.1

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------|---------------------|------------------|-------|-----|----|-------|-------|
| IN623 | Solids, Percent | 08/05/03 | N/A | % | 1.0 | | 33.1 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

TILL-WP-PLT-27

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCV001

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 533934

Matrix: SOLID

Client: EASEAT

Date Received: 07/15/03

% Solids: 36.1

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------|---------------------|------------------|-------|-----|----|-------|-------|
| IN623 | Solids, Percent | 08/05/03 | N/A | % | 1.0 | | 36.1 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

SHERWPPLT23

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCV001

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 534697

Matrix: SOLID

Client: EASEAT

Date Received: 07/18/03

% Solids: 31.0

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------|---------------------|------------------|-------|-----|----|-------|-------|
| IN623 | Solids, Percent | 07/31/03 | N/A | % | 1.0 | | 31.0 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

SHERWPPLT23(100)

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCV001

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 534698

Matrix: SOLID

Client: EASEAT

Date Received: 07/18/03

% Solids: 30.5

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------|---------------------|------------------|-------|-----|----|-------|-------|
| IN623 | Solids, Percent | 07/31/03 | N/A | % | 1.0 | | 30.5 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

CAPMWPPLT20

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCV001

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 534699

Matrix: SOLID

Client: EASEAT

Date Received: 07/18/03

% Solids: 31.9

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------|---------------------|------------------|-------|-----|----|-------|-------|
| IN623 | Solids, Percent | 07/31/03 | N/A | % | 1.0 | | 31.9 | |

WET CHEMISTRY
Sample Report Summary

Client Sample No.

GRANBGPLT35

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCV001

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 534700

Matrix: SOLID

Client: EASEAT

Date Received: 07/18/03

% Solids: 29.5

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|---------------|------------------|----------------------------|-------------------------|--------------|-----------|-----------|--------------|--------------|
| IN623 | Solids, Percent | 07/31/03 | N/A | % | 1.0 | | 29.5 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

GRANBGPLT34

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCV001

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 534701

Matrix: SOLID

Client: EASEAT

Date Received: 07/18/03

% Solids: 32.5

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------|---------------------|------------------|-------|-----|----|-------|-------|
| IN623 | Solids, Percent | 07/31/03 | N/A | % | 1.0 | | 32.5 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

GRANBGPLT36

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCV001

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 534702

Matrix: SOLID

Client: EASEAT

Date Received: 07/18/03

% Solids: 35.6

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------|---------------------|------------------|-------|-----|----|-------|-------|
| IN623 | Solids, Percent | 07/31/03 | N/A | % | 1.0 | | 35.6 | |

WET CHEMISTRY

Duplicate Sample Report Summary

Client Sample No.

GRANBGPLT36REP

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCV001

Lab Code: STLVY

Case No.: 23046

Lab Sample ID: 534702DP

Matrix: SOLID

Client: EASEAT

Date Received: 07/18/03

% Solids: 36.3

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | Sample Result Conc. | Qual. | Duplicate Sample Result Conc. | Qual. | RPD* |
|--------|-----------------|---------------------|------------------|-------|---------------------|-------|-------------------------------|-------|------|
| IN623 | Solids, Percent | 07/31/03 | N/A | % | 35.6 | | 36.3 | | 2 |

* Control Limit for RPD is +/- 20%, unless otherwise specified.

WET CHEMISTRY

Sample Report Summary

Client Sample No.

AJAXWPPLT08

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCV001

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535357

Matrix: SOLID

Client: EASEAT

Date Received: 07/22/03

% Solids: 34.2

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------|---------------------|------------------|-------|-----|----|-------|-------|
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 34.2 | |

WET CHEMISTRY
Sample Report Summary

Client Sample No.

AJAXPDPLT06

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCV001

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535358

Matrix: SOLID

Client: EASEAT

Date Received: 07/22/03

% Solids: 31.1

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------|---------------------|------------------|-------|-----|----|-------|-------|
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 31.1 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

MAGNWPPLT14

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCV001

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535359

Matrix: SOLID

Client: EASEAT

Date Received: 07/22/03

% Solids: 34.9

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------|---------------------|------------------|-------|-----|----|-------|-------|
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 34.9 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

MAGNPDPLT11

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCV001

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535360

Matrix: SOLID

Client: EASEAT

Date Received: 07/22/03

% Solids: 32.5

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------|---------------------|------------------|-------|-----|----|-------|-------|
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 32.5 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

LUCABGPLT19

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCV001

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535361

Matrix: SOLID

Client: EASEAT

Date Received: 07/22/03

% Solids: 32.5

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------|---------------------|------------------|-------|-----|----|-------|-------|
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 32.5 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

MAGNWPPLT17

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCV001

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535362

Matrix: SOLID

Client: EASEAT

Date Received: 07/22/03

% Solids: 34.2

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------|---------------------|------------------|-------|-----|----|-------|-------|
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 34.2 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUEWPPLT20

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCV001

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535819

Matrix: SOLID

Client: EASEAT

Date Received: 07/24/03

% Solids: 39.9

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------|---------------------|------------------|-------|-----|----|-------|-------|
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 39.9 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUEWPPLT24

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCV001

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535820

Matrix: SOLID

Client: EASEAT

Date Received: 07/24/03

% Solids: 29.8

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------|---------------------|------------------|-------|-----|----|-------|-------|
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 29.8 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

EBLK

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCV001

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535859

Matrix: WATER

Client: EASEAT

Date Received: 07/24/03

% Solids: 0.0

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------|---------------------|------------------|-------|-----|----|-------|-------|
| IN623 | Solids, Percent | 07/29/03 | N/A | % | 1.0 | | 0.0 | |

**SEVERN
TRENT**

STL

**Sample Data Summary Package
For Metals**

USEPA-CLP FORMS

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

SOW No.: ILM04.1

| EPA Sample No. | Lab Sample ID. |
|-------------------|----------------|
| AJAXPDPLT06 | 535358 |
| AJAXWPPLT08 | 535357 |
| BLUEWPPLT20 | 535819 |
| BLUEWPPLT24 | 535820 |
| CAPMWPPLT20 | 534699 |
| CENT-WP-PLT-31 | 533933 |
| EBLK1 | 533810 |
| EBLK2 | 535859 |
| GRANBGPLT34 | 534701 |
| GRANBGPLT35 | 534700 |
| GRANBGPLT36 | 534702 |
| GRANBGPLT36D | 534702DP |
| GRANBGPLT36S | 534702MS |
| LUCABGPLT19 | 535361 |
| MAGNPDPLT11 | 535360 |
| MAGNWPPLT14 | 535359 |
| MAGNWPPLT17 | 535362 |
| MONU-WP-PLT-14 | 533809 |
| MONU-WP-PLT-15 | 533808 |
| SHERWPPLT23 | 534697 |
| SHERWPPLT23 (100) | 534698 |
| TILL-WP-PLT-27 | 533934 |

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: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AJAXPDPLT06

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Matrix (soil/water): SOLID Lab Sample ID: 535358
 Level (low/med): LOW Date Received: 07/22/03
 % Solids: 31.1

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 161 | | | P |
| 7440-36-0 | Antimony | 1.4 | U | | P |
| 7440-38-2 | Arsenic | 4.1 | | | P |
| 7440-39-3 | Barium | 34.2 | B | | P |
| 7440-41-7 | Beryllium | 0.088 | B | | P |
| 7440-43-9 | Cadmium | 0.18 | U | | P |
| 7440-70-2 | Calcium | 14800 | | | P |
| 7440-47-3 | Chromium | 0.41 | U | | P |
| 7440-48-4 | Cobalt | 0.61 | B | | P |
| 7440-50-8 | Copper | 5.6 | B | | P |
| 7439-89-6 | Iron | 718 | | | P |
| 7439-92-1 | Lead | 1.7 | | | P |
| 7439-95-4 | Magnesium | 6560 | | | P |
| 7439-96-5 | Manganese | 208 | | | P |
| 7439-97-6 | Mercury | 0.058 | B | | CV |
| 7440-02-0 | Nickel | 0.62 | U | | P |
| 7440-09-7 | Potassium | 16200 | | E | P |
| 7782-49-2 | Selenium | 1.0 | U | | P |
| 7440-22-4 | Silver | 0.65 | U | | P |
| 7440-23-5 | Sodium | 595 | B | | P |
| 7440-28-0 | Thallium | 1.7 | U | | P |
| 7440-62-2 | Vanadium | 1.1 | B | | P |
| 7440-66-6 | Zinc | 20.6 | | E | P |
| 57-12-5 | Cyanide | 1.6 | U | N | AS |

Color Before: green Clarity Before: _____ Texture: mediumColor After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AJAXWPPLT08

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Matrix (soil/water): SOLID Lab Sample ID: 535357
 Level (low/med): LOW Date Received: 07/22/03
 % Solids: 34.2

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 218 | | | P |
| 7440-36-0 | Antimony | 1.4 | U | | P |
| 7440-38-2 | Arsenic | 20.4 | | | P |
| 7440-39-3 | Barium | 37.5 | B | | P |
| 7440-41-7 | Beryllium | 0.098 | B | | P |
| 7440-43-9 | Cadmium | 0.17 | U | | P |
| 7440-70-2 | Calcium | 16000 | | | P |
| 7440-47-3 | Chromium | 0.41 | U | | P |
| 7440-48-4 | Cobalt | 0.58 | U | | P |
| 7440-50-8 | Copper | 6.5 | B | | P |
| 7439-89-6 | Iron | 1080 | | | P |
| 7439-92-1 | Lead | 1.2 | | | P |
| 7439-95-4 | Magnesium | 7170 | | | P |
| 7439-96-5 | Manganese | 154 | | | P |
| 7439-97-6 | Mercury | 0.048 | U | | CV |
| 7440-02-0 | Nickel | 0.61 | U | | P |
| 7440-09-7 | Potassium | 17300 | | E | P |
| 7782-49-2 | Selenium | 1.6 | | | P |
| 7440-22-4 | Silver | 0.64 | U | | P |
| 7440-23-5 | Sodium | 422 | B | | P |
| 7440-28-0 | Thallium | 1.7 | U | | P |
| 7440-62-2 | Vanadium | 1.2 | B | | P |
| 7440-66-6 | Zinc | 19.5 | | E | P |
| 57-12-5 | Cyanide | 1.3 | U | N | AS |

Color Before: green Clarity Before: _____ Texture: mediumColor After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUEWPPLT20

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Matrix (soil/water): SOLID Lab Sample ID: 535819
 Level (low/med): LOW Date Received: 07/24/03
 % Solids: 39.9

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 256 | | | P |
| 7440-36-0 | Antimony | 0.98 | U | | P |
| 7440-38-2 | Arsenic | 1.0 | U | | P |
| 7440-39-3 | Barium | 308 | | | P |
| 7440-41-7 | Beryllium | 0.080 | B | | P |
| 7440-43-9 | Cadmium | 0.14 | B | | P |
| 7440-70-2 | Calcium | 14300 | | | P |
| 7440-47-3 | Chromium | 0.29 | U | | P |
| 7440-48-4 | Cobalt | 0.42 | U | | P |
| 7440-50-8 | Copper | 4.5 | B | | P |
| 7439-89-6 | Iron | 325 | | | P |
| 7439-92-1 | Lead | 0.31 | U | | P |
| 7439-95-4 | Magnesium | 4320 | | | P |
| 7439-96-5 | Manganese | 195 | | | P |
| 7439-97-6 | Mercury | 0.083 | | | CV |
| 7440-02-0 | Nickel | 0.44 | U | | P |
| 7440-09-7 | Potassium | 14000 | | E | P |
| 7782-49-2 | Selenium | 0.99 | B | | P |
| 7440-22-4 | Silver | 0.46 | U | | P |
| 7440-23-5 | Sodium | 235 | B | | P |
| 7440-28-0 | Thallium | 1.2 | U | | P |
| 7440-62-2 | Vanadium | 0.81 | B | | P |
| 7440-66-6 | Zinc | 17.3 | | E | P |
| 57-12-5 | Cyanide | 1.2 | U | N | AS |

Color Before: green Clarity Before: _____ Texture: _____

Color After: colorless Clarity After: clear Artifacts: _____

Comments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUEWPPLT24

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Matrix (soil/water): SOLID Lab Sample ID: 535820
 Level (low/med): LOW Date Received: 07/24/03
 % Solids: 29.8

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 273 | | | P |
| 7440-36-0 | Antimony | 1.4 | U | | P |
| 7440-38-2 | Arsenic | 1.5 | U | | P |
| 7440-39-3 | Barium | 72.3 | | | P |
| 7440-41-7 | Beryllium | 0.13 | B | | P |
| 7440-43-9 | Cadmium | 0.18 | U | | P |
| 7440-70-2 | Calcium | 13000 | | | P |
| 7440-47-3 | Chromium | 1.8 | B | | P |
| 7440-48-4 | Cobalt | 0.62 | U | | P |
| 7440-50-8 | Copper | 5.3 | B | | P |
| 7439-89-6 | Iron | 431 | | | P |
| 7439-92-1 | Lead | 0.99 | | | P |
| 7439-95-4 | Magnesium | 5180 | | | P |
| 7439-96-5 | Manganese | 75.9 | | | P |
| 7439-97-6 | Mercury | 0.056 | U | | CV |
| 7440-02-0 | Nickel | 4.4 | B | | P |
| 7440-09-7 | Potassium | 15000 | | E | P |
| 7782-49-2 | Selenium | 1.0 | U | | P |
| 7440-22-4 | Silver | 0.68 | U | | P |
| 7440-23-5 | Sodium | 321 | B | | P |
| 7440-28-0 | Thallium | 1.8 | U | | P |
| 7440-62-2 | Vanadium | 1.2 | B | | P |
| 7440-66-6 | Zinc | 39.1 | | E | P |
| 57-12-5 | Cyanide | 1.7 | U | N | AS |

Color Before: green Clarity Before: _____ Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

CAPMWPPLT20

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Matrix (soil/water): SOLID Lab Sample ID: 534699
 Level (low/med): LOW Date Received: 07/18/03
 % Solids: 31.9

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 257 | | | P |
| 7440-36-0 | Antimony | 1.2 | U | | P |
| 7440-38-2 | Arsenic | 1.2 | U | | P |
| 7440-39-3 | Barium | 231 | | | P |
| 7440-41-7 | Beryllium | 0.096 | B | | P |
| 7440-43-9 | Cadmium | 0.15 | U | | P |
| 7440-70-2 | Calcium | 12700 | | | P |
| 7440-47-3 | Chromium | 0.36 | U | | P |
| 7440-48-4 | Cobalt | 0.51 | U | | P |
| 7440-50-8 | Copper | 4.6 | B | | P |
| 7439-89-6 | Iron | 262 | | | P |
| 7439-92-1 | Lead | 0.50 | B | | P |
| 7439-95-4 | Magnesium | 4030 | | | P |
| 7439-96-5 | Manganese | 162 | | | P |
| 7439-97-6 | Mercury | 0.063 | B | | CV |
| 7440-02-0 | Nickel | 0.54 | U | | P |
| 7440-09-7 | Potassium | 15900 | | E | P |
| 7782-49-2 | Selenium | 0.87 | U | | P |
| 7440-22-4 | Silver | 0.56 | U | | P |
| 7440-23-5 | Sodium | 289 | B | | P |
| 7440-28-0 | Thallium | 1.5 | U | | P |
| 7440-62-2 | Vanadium | 0.76 | B | | P |
| 7440-66-6 | Zinc | 16.7 | | E | P |
| 57-12-5 | Cyanide | 1.6 | U | N | AS |

Color Before: green Clarity Before: _____ Texture: _____

Color After: colorless Clarity After: clear Artifacts: _____

Comments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

CENT-WP-PLT-31

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Matrix (soil/water): SOLID Lab Sample ID: 533933
 Level (low/med): LOW Date Received: 07/15/03
 % Solids: 33.1

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 251 | | | P |
| 7440-36-0 | Antimony | 1.3 | U | | P |
| 7440-38-2 | Arsenic | 1.4 | U | | P |
| 7440-39-3 | Barium | 290 | | | P |
| 7440-41-7 | Beryllium | 0.13 | B | | P |
| 7440-43-9 | Cadmium | 0.85 | B | | P |
| 7440-70-2 | Calcium | 17800 | | | P |
| 7440-47-3 | Chromium | 1.7 | B | | P |
| 7440-48-4 | Cobalt | 0.57 | U | | P |
| 7440-50-8 | Copper | 6.1 | B | | P |
| 7439-89-6 | Iron | 409 | | | P |
| 7439-92-1 | Lead | 2.1 | | | P |
| 7439-95-4 | Magnesium | 5310 | | | P |
| 7439-96-5 | Manganese | 191 | | | P |
| 7439-97-6 | Mercury | 0.092 | B | | CV |
| 7440-02-0 | Nickel | 0.60 | U | | P |
| 7440-09-7 | Potassium | 15100 | | E | P |
| 7782-49-2 | Selenium | 0.97 | U | | P |
| 7440-22-4 | Silver | 0.63 | U | | P |
| 7440-23-5 | Sodium | 338 | B | | P |
| 7440-28-0 | Thallium | 1.6 | U | | P |
| 7440-62-2 | Vanadium | 0.97 | B | | P |
| 7440-66-6 | Zinc | 43.7 | | E | P |
| 57-12-5 | Cyanide | 1.6 | U | N | AS |

Color Before: green Clarity Before: _____ Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

EBLK1

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Matrix (soil/water): SOLID Lab Sample ID: 533810
 Level (low/med): LOW Date Received: 07/12/03
 % Solids: 100.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 2.4 | U | | P |
| 7440-36-0 | Antimony | 0.47 | U | | P |
| 7440-38-2 | Arsenic | 0.48 | U | | P |
| 7440-39-3 | Barium | 0.59 | U | | P |
| 7440-41-7 | Beryllium | 0.044 | B | | P |
| 7440-43-9 | Cadmium | 0.060 | U | | P |
| 7440-70-2 | Calcium | 18.2 | U | | P |
| 7440-47-3 | Chromium | 0.14 | U | | P |
| 7440-48-4 | Cobalt | 0.20 | U | | P |
| 7440-50-8 | Copper | 0.24 | U | | P |
| 7439-89-6 | Iron | 3.3 | U | | P |
| 7439-92-1 | Lead | 0.19 | B | | P |
| 7439-95-4 | Magnesium | 17.8 | U | | P |
| 7439-96-5 | Manganese | 0.070 | U | | P |
| 7439-97-6 | Mercury | 0.017 | U | | CV |
| 7440-02-0 | Nickel | 0.21 | U | | P |
| 7440-09-7 | Potassium | 39.3 | U | E | P |
| 7782-49-2 | Selenium | 0.34 | U | | P |
| 7440-22-4 | Silver | 0.22 | U | | P |
| 7440-23-5 | Sodium | 124 | B | | P |
| 7440-28-0 | Thallium | 0.57 | U | | P |
| 7440-62-2 | Vanadium | 0.20 | U | | P |
| 7440-66-6 | Zinc | 0.21 | B | E | P |

Color Before: green Clarity Before: _____ Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

EBLK2

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Matrix (soil/water): SOLID Lab Sample ID: 535859
 Level (low/med): LOW Date Received: 07/24/03
 % Solids: 100.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 2.4 | U | | P |
| 7440-36-0 | Antimony | 0.47 | U | | P |
| 7440-38-2 | Arsenic | 0.48 | U | | P |
| 7440-39-3 | Barium | 0.59 | U | | P |
| 7440-41-7 | Beryllium | 0.045 | B | | P |
| 7440-43-9 | Cadmium | 0.060 | U | | P |
| 7440-70-2 | Calcium | 18.2 | U | | P |
| 7440-47-3 | Chromium | 0.14 | U | | P |
| 7440-48-4 | Cobalt | 0.20 | U | | P |
| 7440-50-8 | Copper | 0.24 | U | | P |
| 7439-89-6 | Iron | 3.3 | U | | P |
| 7439-92-1 | Lead | 0.38 | | | P |
| 7439-95-4 | Magnesium | 17.8 | U | | P |
| 7439-96-5 | Manganese | 0.070 | U | | P |
| 7439-97-6 | Mercury | 0.016 | U | | CV |
| 7440-02-0 | Nickel | 0.21 | U | | P |
| 7440-09-7 | Potassium | 39.3 | U | E | P |
| 7782-49-2 | Selenium | 0.34 | U | | P |
| 7440-22-4 | Silver | 0.22 | U | | P |
| 7440-23-5 | Sodium | 115 | B | | P |
| 7440-28-0 | Thallium | 0.57 | U | | P |
| 7440-62-2 | Vanadium | 0.20 | U | | P |
| 7440-66-6 | Zinc | 0.12 | B | E | P |
| 57-12-5 | Cyanide | 0.49 | U | N | AS |

Color Before: green Clarity Before: _____ Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

GRANBGPLT34

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Matrix (soil/water): SOLID Lab Sample ID: 534701
 Level (low/med): LOW Date Received: 07/18/03
 % Solids: 32.5

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 143 | | | P |
| 7440-36-0 | Antimony | 1.2 | U | | P |
| 7440-38-2 | Arsenic | 1.2 | U | | P |
| 7440-39-3 | Barium | 341 | | | P |
| 7440-41-7 | Beryllium | 0.071 | B | | P |
| 7440-43-9 | Cadmium | 0.37 | B | | P |
| 7440-70-2 | Calcium | 13300 | | | P |
| 7440-47-3 | Chromium | 0.36 | U | | P |
| 7440-48-4 | Cobalt | 0.51 | U | | P |
| 7440-50-8 | Copper | 4.3 | B | | P |
| 7439-89-6 | Iron | 181 | | | P |
| 7439-92-1 | Lead | 1.1 | | | P |
| 7439-95-4 | Magnesium | 4280 | | | P |
| 7439-96-5 | Manganese | 262 | | | P |
| 7439-97-6 | Mercury | 0.045 | U | | CV |
| 7440-02-0 | Nickel | 0.53 | U | | P |
| 7440-09-7 | Potassium | 16800 | | E | P |
| 7782-49-2 | Selenium | 0.86 | U | | P |
| 7440-22-4 | Silver | 0.56 | U | | P |
| 7440-23-5 | Sodium | 311 | B | | P |
| 7440-28-0 | Thallium | 1.4 | U | | P |
| 7440-62-2 | Vanadium | 0.51 | U | | P |
| 7440-66-6 | Zinc | 18.1 | | E | P |
| 57-12-5 | Cyanide | 1.4 | U | N | AS |

Color Before: green Clarity Before: _____ Texture: _____

Color After: colorless Clarity After: clear Artifacts: _____

Comments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

GRANBGPLT35

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Matrix (soil/water): SOLID Lab Sample ID: 534700
 Level (low/med): LOW Date Received: 07/18/03
 % Solids: 29.5

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 312 | | | P |
| 7440-36-0 | Antimony | 1.3 | U | | P |
| 7440-38-2 | Arsenic | 1.3 | U | | P |
| 7440-39-3 | Barium | 368 | | | P |
| 7440-41-7 | Beryllium | 0.12 | B | | P |
| 7440-43-9 | Cadmium | 0.16 | U | | P |
| 7440-70-2 | Calcium | 10400 | | | P |
| 7440-47-3 | Chromium | 0.37 | U | | P |
| 7440-48-4 | Cobalt | 0.53 | U | | P |
| 7440-50-8 | Copper | 4.6 | B | | P |
| 7439-89-6 | Iron | 315 | | | P |
| 7439-92-1 | Lead | 0.91 | | | P |
| 7439-95-4 | Magnesium | 4290 | | | P |
| 7439-96-5 | Manganese | 202 | | | P |
| 7439-97-6 | Mercury | 0.052 | U | | CV |
| 7440-02-0 | Nickel | 0.56 | U | | P |
| 7440-09-7 | Potassium | 19600 | | E | P |
| 7782-49-2 | Selenium | 1.2 | B | | P |
| 7440-22-4 | Silver | 0.59 | U | | P |
| 7440-23-5 | Sodium | 340 | B | | P |
| 7440-28-0 | Thallium | 1.5 | U | | P |
| 7440-62-2 | Vanadium | 0.94 | B | | P |
| 7440-66-6 | Zinc | 14.2 | | E | P |
| 57-12-5 | Cyanide | 1.6 | U | N | AS |

Color Before: green Clarity Before: _____ Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

GRANBGPLT36

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Matrix (soil/water): SOLID Lab Sample ID: 534702
 Level (low/med): LOW Date Received: 07/18/03
 % Solids: 35.6

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 213 | | | P |
| 7440-36-0 | Antimony | 1.0 | U | | P |
| 7440-38-2 | Arsenic | 1.1 | U | | P |
| 7440-39-3 | Barium | 505 | | | P |
| 7440-41-7 | Beryllium | 0.054 | B | | P |
| 7440-43-9 | Cadmium | 0.13 | U | | P |
| 7440-70-2 | Calcium | 17300 | | | P |
| 7440-47-3 | Chromium | 0.31 | U | | P |
| 7440-48-4 | Cobalt | 0.44 | U | | P |
| 7440-50-8 | Copper | 4.8 | B | | P |
| 7439-89-6 | Iron | 247 | | | P |
| 7439-92-1 | Lead | 0.38 | B | | P |
| 7439-95-4 | Magnesium | 4570 | | | P |
| 7439-96-5 | Manganese | 324 | | | P |
| 7439-97-6 | Mercury | 0.045 | U | | CV |
| 7440-02-0 | Nickel | 0.46 | U | | P |
| 7440-09-7 | Potassium | 16200 | | E | P |
| 7782-49-2 | Selenium | 0.95 | B | | P |
| 7440-22-4 | Silver | 0.49 | U | | P |
| 7440-23-5 | Sodium | 285 | B | | P |
| 7440-28-0 | Thallium | 1.3 | U | | P |
| 7440-62-2 | Vanadium | 0.60 | B | | P |
| 7440-66-6 | Zinc | 13.4 | | E | P |
| 57-12-5 | Cyanide | 1.4 | U | N | AS |

Color Before: green Clarity Before: _____ Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

LUCABGPLT19

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Matrix (soil/water): SOLID Lab Sample ID: 535361
 Level (low/med): LOW Date Received: 07/22/03
 % Solids: 32.5

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 72.7 | | | P |
| 7440-36-0 | Antimony | 1.2 | U | | P |
| 7440-38-2 | Arsenic | 1.3 | U | | P |
| 7440-39-3 | Barium | 252 | | | P |
| 7440-41-7 | Beryllium | 0.12 | B | | P |
| 7440-43-9 | Cadmium | 0.16 | U | | P |
| 7440-70-2 | Calcium | 12400 | | | P |
| 7440-47-3 | Chromium | 0.37 | U | | P |
| 7440-48-4 | Cobalt | 0.52 | U | | P |
| 7440-50-8 | Copper | 5.7 | B | | P |
| 7439-89-6 | Iron | 132 | | | P |
| 7439-92-1 | Lead | 1.1 | | | P |
| 7439-95-4 | Magnesium | 4330 | | | P |
| 7439-96-5 | Manganese | 238 | | | P |
| 7439-97-6 | Mercury | 0.051 | U | | CV |
| 7440-02-0 | Nickel | 0.55 | U | | P |
| 7440-09-7 | Potassium | 16500 | | E | P |
| 7782-49-2 | Selenium | 1.4 | | | P |
| 7440-22-4 | Silver | 0.57 | U | | P |
| 7440-23-5 | Sodium | 330 | B | | P |
| 7440-28-0 | Thallium | 1.5 | U | | P |
| 7440-62-2 | Vanadium | 0.52 | U | | P |
| 7440-66-6 | Zinc | 21.4 | | E | P |
| 57-12-5 | Cyanide | 1.5 | U | N | AS |

Color Before: green Clarity Before: _____ Texture: mediumColor After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MAGNPDPLT11

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Matrix (soil/water): SOLID Lab Sample ID: 535360
 Level (low/med): LOW Date Received: 07/22/03
 % Solids: 32.5

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 290 | | | P |
| 7440-36-0 | Antimony | 1.4 | U | | P |
| 7440-38-2 | Arsenic | 8.1 | | | P |
| 7440-39-3 | Barium | 86.7 | | | P |
| 7440-41-7 | Beryllium | 0.12 | B | | P |
| 7440-43-9 | Cadmium | 0.18 | U | | P |
| 7440-70-2 | Calcium | 14000 | | | P |
| 7440-47-3 | Chromium | 0.43 | U | | P |
| 7440-48-4 | Cobalt | 0.62 | U | | P |
| 7440-50-8 | Copper | 5.8 | B | | P |
| 7439-89-6 | Iron | 679 | | | P |
| 7439-92-1 | Lead | 1.7 | | | P |
| 7439-95-4 | Magnesium | 5200 | | | P |
| 7439-96-5 | Manganese | 95.3 | | | P |
| 7439-97-6 | Mercury | 0.064 | B | | CV |
| 7440-02-0 | Nickel | 0.65 | U | | P |
| 7440-09-7 | Potassium | 16200 | | E | P |
| 7782-49-2 | Selenium | 1.0 | U | | P |
| 7440-22-4 | Silver | 0.68 | U | | P |
| 7440-23-5 | Sodium | 342 | B | | P |
| 7440-28-0 | Thallium | 1.8 | U | | P |
| 7440-62-2 | Vanadium | 1.3 | B | | P |
| 7440-66-6 | Zinc | 27.0 | | E | P |
| 57-12-5 | Cyanide | 1.5 | U | N | AS |

Color Before: green Clarity Before: _____ Texture: mediumColor After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MAGNWPPLT14

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Matrix (soil/water): SOLID Lab Sample ID: 535359
 Level (low/med): LOW Date Received: 07/22/03
 % Solids: 34.9

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 157 | | | P |
| 7440-36-0 | Antimony | 1.3 | U | | P |
| 7440-38-2 | Arsenic | 3.0 | | | P |
| 7440-39-3 | Barium | 123 | | | P |
| 7440-41-7 | Beryllium | 0.12 | B | | P |
| 7440-43-9 | Cadmium | 0.17 | U | | P |
| 7440-70-2 | Calcium | 15200 | | | P |
| 7440-47-3 | Chromium | 0.39 | U | | P |
| 7440-48-4 | Cobalt | 0.55 | U | | P |
| 7440-50-8 | Copper | 6.8 | B | | P |
| 7439-89-6 | Iron | 338 | | | P |
| 7439-92-1 | Lead | 0.91 | | | P |
| 7439-95-4 | Magnesium | 6130 | | | P |
| 7439-96-5 | Manganese | 113 | | | P |
| 7439-97-6 | Mercury | 0.047 | U | | CV |
| 7440-02-0 | Nickel | 0.58 | U | | P |
| 7440-09-7 | Potassium | 14600 | | E | P |
| 7782-49-2 | Selenium | 1.6 | | | P |
| 7440-22-4 | Silver | 0.61 | U | | P |
| 7440-23-5 | Sodium | 292 | B | | P |
| 7440-28-0 | Thallium | 1.6 | U | | P |
| 7440-62-2 | Vanadium | 0.65 | B | | P |
| 7440-66-6 | Zinc | 22.3 | | E | P |
| 57-12-5 | Cyanide | 1.4 | U | N | AS |

Color Before: green Clarity Before: _____ Texture: medium
 Color After: colorless Clarity After: clear Artifacts: _____

Comments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MAGNWPPLT17

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Matrix (soil/water): SOLID Lab Sample ID: 535362
 Level (low/med): LOW Date Received: 07/22/03
 % Solids: 34.2

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 409 | | | P |
| 7440-36-0 | Antimony | 1.3 | B | | P |
| 7440-38-2 | Arsenic | 2.9 | | | P |
| 7440-39-3 | Barium | 277 | | | P |
| 7440-41-7 | Beryllium | 0.13 | B | | P |
| 7440-43-9 | Cadmium | 0.30 | B | | P |
| 7440-70-2 | Calcium | 15000 | | | P |
| 7440-47-3 | Chromium | 0.39 | U | | P |
| 7440-48-4 | Cobalt | 0.56 | U | | P |
| 7440-50-8 | Copper | 6.1 | B | | P |
| 7439-89-6 | Iron | 692 | | | P |
| 7439-92-1 | Lead | 1.1 | | | P |
| 7439-95-4 | Magnesium | 6250 | | | P |
| 7439-96-5 | Manganese | 212 | | | P |
| 7439-97-6 | Mercury | 0.047 | U | | CV |
| 7440-02-0 | Nickel | 0.59 | U | | P |
| 7440-09-7 | Potassium | 14000 | | E | P |
| 7782-49-2 | Selenium | 1.4 | | | P |
| 7440-22-4 | Silver | 0.62 | U | | P |
| 7440-23-5 | Sodium | 317 | B | | P |
| 7440-28-0 | Thallium | 1.6 | U | | P |
| 7440-62-2 | Vanadium | 1.6 | B | | P |
| 7440-66-6 | Zinc | 20.9 | | E | P |
| 57-12-5 | Cyanide | 1.4 | U | N | AS |

Color Before: green Clarity Before: _____ Texture: mediumColor After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MONU-WP-PLT-14

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Matrix (soil/water): SOLID Lab Sample ID: 533809
 Level (low/med): LOW Date Received: 07/12/03
 % Solids: 31.5

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 220 | | | P |
| 7440-36-0 | Antimony | 1.3 | U | | P |
| 7440-38-2 | Arsenic | 10.6 | | | P |
| 7440-39-3 | Barium | 86.3 | | | P |
| 7440-41-7 | Beryllium | 0.16 | B | | P |
| 7440-43-9 | Cadmium | 1.0 | B | | P |
| 7440-70-2 | Calcium | 12000 | | | P |
| 7440-47-3 | Chromium | 0.38 | U | | P |
| 7440-48-4 | Cobalt | 0.54 | U | | P |
| 7440-50-8 | Copper | 5.0 | B | | P |
| 7439-89-6 | Iron | 642 | | | P |
| 7439-92-1 | Lead | 2.7 | | | P |
| 7439-95-4 | Magnesium | 4640 | | | P |
| 7439-96-5 | Manganese | 118 | | | P |
| 7439-97-6 | Mercury | 0.052 | U | | CV |
| 7440-02-0 | Nickel | 0.57 | U | | P |
| 7440-09-7 | Potassium | 15900 | | E | P |
| 7782-49-2 | Selenium | 0.92 | U | | P |
| 7440-22-4 | Silver | 0.60 | U | | P |
| 7440-23-5 | Sodium | 381 | B | | P |
| 7440-28-0 | Thallium | 1.5 | U | | P |
| 7440-62-2 | Vanadium | 1.2 | B | | P |
| 7440-66-6 | Zinc | 53.6 | | E | P |
| 57-12-5 | Cyanide | 1.5 | U | N | AS |

Color Before: green Clarity Before: _____ Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MONU-WP-PLT-15

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Matrix (soil/water): SOLID Lab Sample ID: 533808
 Level (low/med): LOW Date Received: 07/12/03
 % Solids: 35.2

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 206 | | | P |
| 7440-36-0 | Antimony | 1.3 | U | | P |
| 7440-38-2 | Arsenic | 6.1 | | | P |
| 7440-39-3 | Barium | 51.9 | B | | P |
| 7440-41-7 | Beryllium | 0.13 | B | | P |
| 7440-43-9 | Cadmium | 0.78 | B | | P |
| 7440-70-2 | Calcium | 9750 | | | P |
| 7440-47-3 | Chromium | 0.38 | U | | P |
| 7440-48-4 | Cobalt | 0.55 | U | | P |
| 7440-50-8 | Copper | 5.1 | B | | P |
| 7439-89-6 | Iron | 535 | | | P |
| 7439-92-1 | Lead | 1.2 | | | P |
| 7439-95-4 | Magnesium | 4500 | | | P |
| 7439-96-5 | Manganese | 169 | | | P |
| 7439-97-6 | Mercury | 0.046 | U | | CV |
| 7440-02-0 | Nickel | 0.57 | U | | P |
| 7440-09-7 | Potassium | 14900 | | E | P |
| 7782-49-2 | Selenium | 0.93 | U | | P |
| 7440-22-4 | Silver | 0.60 | U | | P |
| 7440-23-5 | Sodium | 428 | B | | P |
| 7440-28-0 | Thallium | 1.6 | U | | P |
| 7440-62-2 | Vanadium | 0.95 | B | | P |
| 7440-66-6 | Zinc | 35.9 | | E | P |
| 57-12-5 | Cyanide | 1.3 | U | N | AS |

Color Before: green Clarity Before: _____ Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SHERWPPLT23

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Matrix (soil/water): SOLID Lab Sample ID: 534697
 Level (low/med): LOW Date Received: 07/18/03
 % Solids: 31.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 153 | | | P |
| 7440-36-0 | Antimony | 1.2 | U | | P |
| 7440-38-2 | Arsenic | 1.3 | U | | P |
| 7440-39-3 | Barium | 247 | | | P |
| 7440-41-7 | Beryllium | 0.11 | B | | P |
| 7440-43-9 | Cadmium | 0.50 | B | | P |
| 7440-70-2 | Calcium | 12200 | | | P |
| 7440-47-3 | Chromium | 0.37 | U | | P |
| 7440-48-4 | Cobalt | 0.53 | U | | P |
| 7440-50-8 | Copper | 4.6 | B | | P |
| 7439-89-6 | Iron | 197 | | | P |
| 7439-92-1 | Lead | 1.3 | | | P |
| 7439-95-4 | Magnesium | 4690 | | | P |
| 7439-96-5 | Manganese | 291 | | | P |
| 7439-97-6 | Mercury | 0.050 | B | | CV |
| 7440-02-0 | Nickel | 0.56 | U | | P |
| 7440-09-7 | Potassium | 16700 | | E | P |
| 7782-49-2 | Selenium | 0.91 | B | | P |
| 7440-22-4 | Silver | 0.58 | U | | P |
| 7440-23-5 | Sodium | 370 | B | | P |
| 7440-28-0 | Thallium | 1.5 | U | | P |
| 7440-62-2 | Vanadium | 0.81 | B | | P |
| 7440-66-6 | Zinc | 27.2 | | E | P |
| 57-12-5 | Cyanide | 1.6 | U | N | AS |

Color Before: green Clarity Before: _____ Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SHERWPPLT23 (100)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Matrix (soil/water): SOLID Lab Sample ID: 534698
 Level (low/med): LOW Date Received: 07/18/03
 % Solids: 30.5

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 206 | | | P |
| 7440-36-0 | Antimony | 1.3 | U | | P |
| 7440-38-2 | Arsenic | 1.3 | U | | P |
| 7440-39-3 | Barium | 253 | | | P |
| 7440-41-7 | Beryllium | 0.10 | B | | P |
| 7440-43-9 | Cadmium | 0.58 | B | | P |
| 7440-70-2 | Calcium | 12600 | | | P |
| 7440-47-3 | Chromium | 0.39 | U | | P |
| 7440-48-4 | Cobalt | 0.55 | U | | P |
| 7440-50-8 | Copper | 5.0 | B | | P |
| 7439-89-6 | Iron | 260 | | | P |
| 7439-92-1 | Lead | 1.3 | | | P |
| 7439-95-4 | Magnesium | 5060 | | | P |
| 7439-96-5 | Manganese | 283 | | | P |
| 7439-97-6 | Mercury | 0.049 | B | | CV |
| 7440-02-0 | Nickel | 0.58 | U | | P |
| 7440-09-7 | Potassium | 17300 | | E | P |
| 7782-49-2 | Selenium | 1.0 | B | | P |
| 7440-22-4 | Silver | 0.67 | B | | P |
| 7440-23-5 | Sodium | 374 | B | | P |
| 7440-28-0 | Thallium | 1.6 | U | | P |
| 7440-62-2 | Vanadium | 0.71 | B | | P |
| 7440-66-6 | Zinc | 28.4 | | E | P |
| 57-12-5 | Cyanide | 1.7 | U | N | AS |

Color Before: green Clarity Before: _____ Texture: _____

Color After: colorless Clarity After: clear Artifacts: _____

Comments: _____

USEPA-CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

TILL-WP-PLT-27

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Matrix (soil/water): SOLID Lab Sample ID: 533934
 Level (low/med): LOW Date Received: 07/15/03
 % Solids: 36.1

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 284 | | | P |
| 7440-36-0 | Antimony | 0.94 | U | | P |
| 7440-38-2 | Arsenic | 1.0 | B | | P |
| 7440-39-3 | Barium | 272 | | | P |
| 7440-41-7 | Beryllium | 0.087 | B | | P |
| 7440-43-9 | Cadmium | 2.6 | | | P |
| 7440-70-2 | Calcium | 20000 | | | P |
| 7440-47-3 | Chromium | 0.48 | B | | P |
| 7440-48-4 | Cobalt | 0.40 | U | | P |
| 7440-50-8 | Copper | 5.0 | | | P |
| 7439-89-6 | Iron | 427 | | | P |
| 7439-92-1 | Lead | 2.7 | | | P |
| 7439-95-4 | Magnesium | 4120 | | | P |
| 7439-96-5 | Manganese | 158 | | | P |
| 7439-97-6 | Mercury | 0.070 | B | | CV |
| 7440-02-0 | Nickel | 0.42 | U | | P |
| 7440-09-7 | Potassium | 13700 | | E | P |
| 7782-49-2 | Selenium | 0.70 | B | | P |
| 7440-22-4 | Silver | 0.44 | U | | P |
| 7440-23-5 | Sodium | 262 | B | | P |
| 7440-28-0 | Thallium | 1.1 | U | | P |
| 7440-62-2 | Vanadium | 0.90 | B | | P |
| 7440-66-6 | Zinc | 70.2 | | E | P |
| 57-12-5 | Cyanide | 1.1 | U | N | AS |

Color Before: green Clarity Before: _____ Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA-CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

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 | 25370.00 | 97.6 | 30200.0 | 29720.00 | 98.4 | 29580.00 | 97.9 | P |
| Antimony | 250.0 | 256.50 | 102.6 | 300.0 | 314.20 | 104.7 | 311.80 | 103.9 | P |
| Arsenic | 250.0 | 255.50 | 102.2 | 100.0 | 104.80 | 104.8 | 103.50 | 103.5 | P |
| Barium | 500.0 | 501.80 | 100.4 | 200.0 | 201.40 | 100.7 | 200.90 | 100.4 | P |
| Beryllium | 500.0 | 509.20 | 101.8 | 100.0 | 99.83 | 99.8 | 99.87 | 99.9 | P |
| Cadmium | 500.0 | 497.10 | 99.4 | 100.0 | 100.10 | 100.1 | 99.63 | 99.6 | P |
| Calcium | 25000.0 | 24860.00 | 99.4 | 30200.0 | 29850.00 | 98.8 | 29650.00 | 98.2 | P |
| Chromium | 500.0 | 500.60 | 100.1 | 200.0 | 195.30 | 97.6 | 194.20 | 97.1 | P |
| Cobalt | 500.0 | 495.90 | 99.2 | 200.0 | 200.80 | 100.4 | 200.40 | 100.2 | P |
| Copper | 500.0 | 509.90 | 102.0 | 200.0 | 204.10 | 102.0 | 204.60 | 102.3 | P |
| Iron | 25500.0 | 25380.00 | 99.5 | 30200.0 | 29790.00 | 98.6 | 29670.00 | 98.2 | P |
| Lead | 1000.0 | 1008.00 | 100.8 | 400.0 | 401.60 | 100.4 | 398.60 | 99.6 | P |
| Magnesium | 25000.0 | 24570.00 | 98.3 | 30200.0 | 29670.00 | 98.2 | 29560.00 | 97.9 | P |
| Manganese | 500.0 | 498.10 | 99.6 | 200.0 | 199.40 | 99.7 | 198.60 | 99.3 | P |
| Mercury | 3.0 | 3.00 | 100.0 | 5.0 | 5.49 | 109.8 | 5.43 | 108.6 | CV |
| Nickel | 500.0 | 497.70 | 99.5 | 200.0 | 194.60 | 97.3 | 193.70 | 96.8 | P |
| Potassium | 25000.0 | 25180.00 | 100.7 | 30200.0 | 31200.00 | 103.3 | 31120.00 | 103.0 | P |
| Selenium | 250.0 | 247.60 | 99.0 | 100.0 | 99.67 | 99.7 | 100.80 | 100.8 | P |
| Silver | 500.0 | 498.80 | 99.8 | 100.0 | 104.00 | 104.0 | 104.10 | 104.1 | P |
| Sodium | 25000.0 | 23780.00 | 95.1 | 30200.0 | 28960.00 | 95.9 | 28980.00 | 96.0 | P |
| Thallium | 250.0 | 244.30 | 97.7 | 100.0 | 107.10 | 107.1 | 103.60 | 103.6 | P |
| Vanadium | 500.0 | 498.60 | 99.7 | 200.0 | 201.00 | 100.5 | 201.10 | 100.6 | P |
| Zinc | 500.0 | 505.70 | 101.1 | 200.0 | 202.30 | 101.2 | 202.30 | 101.2 | P |
| Cyanide | 120.0 | 109.26 | 91.0 | 150.0 | 152.87 | 101.9 | 154.97 | 103.3 | AS |

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

USEPA-CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001Initial Calibration Source: Inorganic Ventures/FisherContinuing 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 | 29140.00 | 96.5 | 29670.00 | 98.2 | P |
| Antimony | | | | 300.0 | 305.40 | 101.8 | 314.30 | 104.8 | P |
| Arsenic | | | | 100.0 | 100.30 | 100.3 | 102.50 | 102.5 | P |
| Barium | | | | 200.0 | 198.30 | 99.2 | 201.50 | 100.8 | P |
| Beryllium | | | | 100.0 | 98.84 | 98.8 | 100.50 | 100.5 | P |
| Cadmium | | | | 100.0 | 98.51 | 98.5 | 100.60 | 100.6 | P |
| Calcium | | | | 30200.0 | 29220.00 | 96.8 | 29860.00 | 98.9 | P |
| Chromium | | | | 200.0 | 191.10 | 95.6 | 195.10 | 97.6 | P |
| Cobalt | | | | 200.0 | 197.20 | 98.6 | 201.00 | 100.5 | P |
| Copper | | | | 200.0 | 201.50 | 100.8 | 205.10 | 102.6 | P |
| Iron | | | | 30200.0 | 29240.00 | 96.8 | 29810.00 | 98.7 | P |
| Lead | | | | 400.0 | 393.00 | 98.2 | 399.90 | 100.0 | P |
| Magnesium | | | | 30200.0 | 29150.00 | 96.5 | 29730.00 | 98.4 | P |
| Manganese | | | | 200.0 | 195.80 | 97.9 | 199.50 | 99.8 | P |
| Nickel | | | | 200.0 | 191.70 | 95.8 | 194.00 | 97.0 | P |
| Potassium | | | | 30200.0 | 30700.00 | 101.7 | 31210.00 | 103.3 | P |
| Selenium | | | | 100.0 | 98.70 | 98.7 | 98.43 | 98.4 | P |
| Silver | | | | 100.0 | 102.80 | 102.8 | 104.20 | 104.2 | P |
| Sodium | | | | 30200.0 | 28930.00 | 95.8 | 28860.00 | 95.6 | P |
| Thallium | | | | 100.0 | 97.33 | 97.3 | 101.70 | 101.7 | P |
| Vanadium | | | | 200.0 | 197.40 | 98.7 | 200.80 | 100.4 | P |
| Zinc | | | | 200.0 | 199.70 | 99.8 | 203.60 | 101.8 | P |

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

USEPA-CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

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 | 29210.00 | 96.7 | | | P |
| Antimony | | | | 300.0 | 305.60 | 101.9 | | | P |
| Arsenic | | | | 100.0 | 99.66 | 99.7 | | | P |
| Barium | | | | 200.0 | 198.40 | 99.2 | | | P |
| Beryllium | | | | 100.0 | 98.54 | 98.5 | | | P |
| Cadmium | | | | 100.0 | 98.29 | 98.3 | | | P |
| Calcium | | | | 30200.0 | 29370.00 | 97.3 | | | P |
| Chromium | | | | 200.0 | 194.10 | 97.0 | | | P |
| Cobalt | | | | 200.0 | 197.70 | 98.8 | | | P |
| Copper | | | | 200.0 | 201.70 | 100.8 | | | P |
| Iron | | | | 30200.0 | 29280.00 | 97.0 | | | P |
| Lead | | | | 400.0 | 392.50 | 98.1 | | | P |
| Magnesium | | | | 30200.0 | 29170.00 | 96.6 | | | P |
| Manganese | | | | 200.0 | 196.80 | 98.4 | | | P |
| Nickel | | | | 200.0 | 197.60 | 98.8 | | | P |
| Potassium | | | | 30200.0 | 30650.00 | 101.5 | | | P |
| Selenium | | | | 100.0 | 99.94 | 99.9 | | | P |
| Silver | | | | 100.0 | 102.80 | 102.8 | | | P |
| Sodium | | | | 30200.0 | 28500.00 | 94.4 | | | P |
| Thallium | | | | 100.0 | 100.20 | 100.2 | | | P |
| Vanadium | | | | 200.0 | 197.60 | 98.8 | | | P |
| Zinc | | | | 200.0 | 199.70 | 99.8 | | | P |

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

USEPA-CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

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) |
| Lead | 1000.0 | 987.40 | 98.7 | 400.0 | 393.20 | 98.3 | 387.40 | 96.8 | P |
| Mercury | 3.0 | 2.96 | 98.7 | 5.0 | 5.43 | 108.6 | 5.33 | 106.6 | CV |
| Cyanide | 120.0 | 129.19 | 107.7 | 150.0 | 147.38 | 98.3 | 148.86 | 99.2 | AS |

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

USEPA-CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

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) | |
| Lead | | | | 400.0 | 384.80 | 96.2 | 390.30 | 97.6 | P |
| Cyanide | | | | 150.0 | 146.51 | 97.7 | | | AS |

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

USEPA-CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

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) | |
| Lead | | | 400.0 | 391.00 | 97.8 | | P |

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

USEPA-CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

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) |
| Lead | 1000.0 | 956.30 | 95.6 | 400.0 | 378.50 | 94.6 | 388.70 | 97.2 | P |
| Mercury | 3.0 | 3.06 | 102.0 | 5.0 | 5.05 | 101.0 | 4.68 | 93.6 | CV |
| Cyanide | 120.0 | 119.46 | 99.6 | 150.0 | 141.85 | 94.6 | 140.20 | 93.5 | AS |

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

USEPA-CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

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) |
| Lead | | | | 400.0 | 385.00 | 96.2 | | | P |
| Mercury | | | | 5.0 | 4.92 | 98.4 | 4.82 | 96.4 | CV |
| Cyanide | | | | 150.0 | 143.25 | 95.5 | | | AS |

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

USEPA-CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

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 | 26350.00 | 101.3 | 30200.0 | 30440.00 | 100.8 | 30260.00 | 100.2 | P |
| Antimony | 250.0 | 250.60 | 100.2 | 300.0 | 303.90 | 101.3 | 303.20 | 101.1 | P |
| Arsenic | 250.0 | 245.90 | 98.4 | 100.0 | 98.91 | 98.9 | 101.20 | 101.2 | P |
| Barium | 500.0 | 493.60 | 98.7 | 200.0 | 201.70 | 100.8 | 201.00 | 100.5 | P |
| Beryllium | 500.0 | 501.00 | 100.2 | 100.0 | 99.94 | 99.9 | 100.70 | 100.7 | P |
| Cadmium | 500.0 | 490.30 | 98.1 | 100.0 | 98.85 | 98.8 | 99.80 | 99.8 | P |
| Calcium | 25000.0 | 25630.00 | 102.5 | 30200.0 | 30640.00 | 101.5 | 30850.00 | 102.2 | P |
| Chromium | 500.0 | 498.00 | 99.6 | 200.0 | 199.20 | 99.6 | 200.20 | 100.1 | P |
| Cobalt | 500.0 | 489.90 | 98.0 | 200.0 | 199.30 | 99.6 | 200.00 | 100.0 | P |
| Copper | 500.0 | 502.50 | 100.5 | 200.0 | 204.60 | 102.3 | 204.20 | 102.1 | P |
| Iron | 25500.0 | 26480.00 | 103.8 | 30200.0 | 30510.00 | 101.0 | 30670.00 | 101.6 | P |
| Lead | 1000.0 | 987.60 | 98.8 | 400.0 | 392.70 | 98.2 | 397.60 | 99.4 | P |
| Magnesium | 25000.0 | 25590.00 | 102.4 | 30200.0 | 30310.00 | 100.4 | 30550.00 | 101.2 | P |
| Manganese | 500.0 | 491.60 | 98.3 | 200.0 | 199.80 | 99.9 | 200.00 | 100.0 | P |
| Mercury | 3.0 | 2.97 | 99.0 | 5.0 | 4.83 | 96.6 | 4.63 | 92.6 | CV |
| Nickel | 500.0 | 495.00 | 99.0 | 200.0 | 198.00 | 99.0 | 198.20 | 99.1 | P |
| Potassium | 25000.0 | 26340.00 | 105.4 | 30200.0 | 31580.00 | 104.6 | 31430.00 | 104.1 | P |
| Selenium | 250.0 | 242.10 | 96.8 | 100.0 | 100.10 | 100.1 | 99.95 | 100.0 | P |
| Silver | 500.0 | 497.80 | 99.6 | 100.0 | 100.90 | 100.9 | 101.70 | 101.7 | P |
| Sodium | 25000.0 | 25240.00 | 101.0 | 30200.0 | 29430.00 | 97.5 | 29560.00 | 97.9 | P |
| Thallium | 250.0 | 236.00 | 94.4 | 100.0 | 97.47 | 97.5 | 96.25 | 96.2 | P |
| Vanadium | 500.0 | 495.50 | 99.1 | 200.0 | 201.10 | 100.6 | 201.70 | 100.8 | P |
| Zinc | 500.0 | 500.90 | 100.2 | 200.0 | 202.70 | 101.4 | 204.00 | 102.0 | P |
| Cyanide | 120.0 | 122.17 | 101.8 | 150.0 | 148.25 | 98.8 | 153.71 | 102.5 | AS |

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

USEPA-CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001Initial Calibration Source: Inorganic Ventures/FisherContinuing 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 | 30560.00 | 101.2 | | | P |
| Antimony | | | | 300.0 | 305.30 | 101.8 | | | P |
| Arsenic | | | | 100.0 | 102.20 | 102.2 | | | P |
| Barium | | | | 200.0 | 201.80 | 100.9 | | | P |
| Beryllium | | | | 100.0 | 100.30 | 100.3 | | | P |
| Cadmium | | | | 100.0 | 99.55 | 99.6 | | | P |
| Calcium | | | | 30200.0 | 30970.00 | 102.5 | | | P |
| Chromium | | | | 200.0 | 200.20 | 100.1 | | | P |
| Cobalt | | | | 200.0 | 199.50 | 99.8 | | | P |
| Copper | | | | 200.0 | 206.20 | 103.1 | | | P |
| Iron | | | | 30200.0 | 30690.00 | 101.6 | | | P |
| Lead | | | | 400.0 | 396.50 | 99.1 | | | P |
| Magnesium | | | | 30200.0 | 30610.00 | 101.4 | | | P |
| Manganese | | | | 200.0 | 199.80 | 99.9 | | | P |
| Mercury | | | | 5.0 | 4.67 | 93.4 | | | CV |
| Nickel | | | | 200.0 | 199.10 | 99.6 | | | P |
| Potassium | | | | 30200.0 | 32060.00 | 106.2 | | | P |
| Selenium | | | | 100.0 | 101.80 | 101.8 | | | P |
| Silver | | | | 100.0 | 101.30 | 101.3 | | | P |
| Sodium | | | | 30200.0 | 29660.00 | 98.2 | | | P |
| Thallium | | | | 100.0 | 98.77 | 98.8 | | | P |
| Vanadium | | | | 200.0 | 201.20 | 100.6 | | | P |
| Zinc | | | | 200.0 | 204.50 | 102.2 | | | P |

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

USEPA-CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

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) |
| Mercury | 3.0 | 2.82 | 94.0 | 5.0 | 4.90 | 98.0 | 4.71 | 94.2 | CV |
| Cyanide | 120.0 | 117.46 | 97.9 | 150.0 | 140.94 | 94.0 | 143.67 | 95.8 | AS |

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

USEPA-CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

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) |
| Mercury | | | | 5.0 | 4.61 | 92.2 | | | CV |
| Cyanide | | | | 150.0 | 142.40 | 94.9 | 142.75 | 95.2 | AS |

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

USEPA-CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

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) |
| Mercury | 3.0 | 2.73 | 91.0 | 5.0 | 4.93 | 98.6 | 4.77 | 95.4 | CV |

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

USEPA-CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

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) |
| Mercury | | | | 5.0 | 4.87 | 97.4 | 4.85 | 97.0 | CV |

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

USEPA-CLP FORMS

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

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 | | Final | | |
| | | | | True | Found | %R | Found | %R |
| Aluminum | | | | 400.0 | 473.80 | 118.4 | 471.00 | 117.8 |
| Antimony | | | | 120.0 | 127.10 | 105.9 | 125.50 | 104.6 |
| Arsenic | | | | 20.0 | 20.93 | 104.6 | 19.80 | 99.0 |
| Barium | | | | 400.0 | 398.90 | 99.7 | 391.40 | 97.8 |
| Beryllium | | | | 10.0 | 10.20 | 102.0 | 10.03 | 100.3 |
| Cadmium | | | | 10.0 | 10.03 | 100.3 | 9.99 | 99.9 |
| Calcium | | | | 10000.0 | 10280.00 | 102.8 | 10200.00 | 102.0 |
| Chromium | | | | 20.0 | 25.59 | 128.0 | 22.24 | 111.2 |
| Cobalt | | | | 100.0 | 98.65 | 98.6 | 97.06 | 97.1 |
| Copper | | | | 50.0 | 50.95 | 101.9 | 49.92 | 99.8 |
| Iron | | | | 200.0 | 294.40 | 147.2 | 268.30 | 134.2 |
| Lead | | | | 6.0 | 6.45 | 107.5 | 6.35 | 105.8 |
| Magnesium | | | | 10000.0 | 9944.00 | 99.4 | 9851.00 | 98.5 |
| Manganese | | | | 30.0 | 29.81 | 99.4 | 29.29 | 97.6 |
| Mercury | 0.2 | 0.20 | 100.0 | | | | | |
| Nickel | | | | 80.0 | 83.02 | 103.8 | 85.52 | 106.9 |
| Potassium | | | | 10000.0 | 11570.00 | 115.7 | 11350.00 | 113.5 |
| Selenium | | | | 10.0 | 10.05 | 100.5 | 9.37 | 93.7 |
| Silver | | | | 20.0 | 21.92 | 109.6 | 21.31 | 106.6 |
| Sodium | | | | 10000.0 | 9592.00 | 95.9 | 9503.00 | 95.0 |
| Thallium | | | | 20.0 | 23.41 | 117.0 | 23.17 | 115.8 |
| Vanadium | | | | 100.0 | 100.30 | 100.3 | 97.90 | 97.9 |
| Zinc | | | | 40.0 | 40.84 | 102.1 | 40.73 | 101.8 |

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

USEPA-CLP FORMS

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

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 | | Final | | |
| | | | | True | Found | %R | Found | %R |
| Lead | | | | 6.0 | 4.64 | 77.3 | 4.06 | 67.7 |
| Mercury | 0.2 | 0.16 | 80.0 | | | | | |

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

USEPA-CLP FORMS

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

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 | | Final | | |
| | | | | True | Found | %R | Found | %R |
| Lead | | | | 6.0 | 6.23 | 103.8 | 4.79 | 79.8 |
| Mercury | 0.2 | 0.17 | 85.0 | | | | | |

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

USEPA-CLP FORMS

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

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 | | Final | | |
| | | | | True | Found | %R | Found | %R |
| Aluminum | | | | 400.0 | 510.40 | 127.6 | 534.70 | 133.7 |
| Antimony | | | | 120.0 | 120.60 | 100.5 | 120.90 | 100.8 |
| Arsenic | | | | 20.0 | 20.87 | 104.4 | 20.53 | 102.6 |
| Barium | | | | 400.0 | 397.70 | 99.4 | 398.00 | 99.5 |
| Beryllium | | | | 10.0 | 10.23 | 102.3 | 10.28 | 102.8 |
| Cadmium | | | | 10.0 | 10.46 | 104.6 | 10.42 | 104.2 |
| Calcium | | | | 10000.0 | 10560.00 | 105.6 | 10680.00 | 106.8 |
| Chromium | | | | 20.0 | 21.52 | 107.6 | 22.67 | 113.4 |
| Cobalt | | | | 100.0 | 97.89 | 97.9 | 98.69 | 98.7 |
| Copper | | | | 50.0 | 51.86 | 103.7 | 51.86 | 103.7 |
| Iron | | | | 200.0 | 285.30 | 142.6 | 295.10 | 147.6 |
| Lead | | | | 6.0 | 5.99 | 99.8 | 6.77 | 112.8 |
| Magnesium | | | | 10000.0 | 10310.00 | 103.1 | 10420.00 | 104.2 |
| Manganese | | | | 30.0 | 30.60 | 102.0 | 30.96 | 103.2 |
| Mercury | 0.2 | 0.21 | 105.0 | | | | | |
| Nickel | | | | 80.0 | 79.56 | 99.4 | 83.25 | 104.1 |
| Potassium | | | | 10000.0 | 11030.00 | 110.3 | 11230.00 | 112.3 |
| Selenium | | | | 10.0 | 11.70 | 117.0 | 9.12 | 91.2 |
| Silver | | | | 20.0 | 20.25 | 101.2 | 20.45 | 102.2 |
| Sodium | | | | 10000.0 | 10160.00 | 101.6 | 10090.00 | 100.9 |
| Thallium | | | | 20.0 | 23.50 | 117.5 | 19.01 | 95.0 |
| Vanadium | | | | 100.0 | 99.96 | 100.0 | 100.40 | 100.4 |
| Zinc | | | | 40.0 | 42.10 | 105.2 | 42.47 | 106.2 |

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

USEPA-CLP FORMS

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

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 | | | Final | |
| | | | | True | Found | %R | Found | %R |
| Mercury | 0.2 | 0.22 | 110.0 | | | | | |

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

USEPA-CLP FORMS

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

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 | | Final | | |
| | | | | True | Found | %R | Found | %R |
| Mercury | 0.2 | 0.17 | 85.0 | | | | | |

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

USEPA-CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001Preparation Blank Matrix (soil/water): SOLIDPreparation Blank Concentration Units (ug/L or mg/kg): MG/KG

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|-----------|-----------------------------|---|-------------------------------------|---|-------|---|-------|---|-------------------|---|----|
| | | C | 1 | C | 2 | C | 3 | C | | C | |
| Aluminum | 23.6 | U | 23.6 | U | 23.6 | U | -27.3 | B | -2.952 | B | P |
| Antimony | 4.7 | U | 4.7 | U | 4.7 | U | 4.7 | U | 0.470 | U | 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 | 0.035 | 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 | -5.7 | B | -6.8 | B | -7.2 | B | -6.6 | B | -0.520 | B | 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 | 33.3 | U | 3.413 | B | P |
| Lead | 1.3 | U | 1.3 | U | 1.3 | U | 1.3 | U | 0.257 | B | P |
| Magnesium | 178.3 | U | 178.3 | U | 178.3 | U | 178.3 | U | 17.830 | U | P |
| Manganese | -1.7 | B | -1.8 | B | -1.9 | B | -1.7 | B | -0.168 | B | P |
| Mercury | 0.1 | U | 0.1 | U | 0.1 | U | | | 0.017 | U | CV |
| Nickel | -6.9 | B | -7.4 | B | -7.9 | B | -7.2 | B | -1.036 | B | P |
| Potassium | 393.0 | U | 393.0 | U | 393.0 | U | 393.0 | U | 39.300 | U | P |
| Selenium | 3.4 | U | 3.4 | U | 3.4 | U | 3.4 | U | 0.340 | U | 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 | 541.8 | B | 124.300 | B | P |
| Thallium | 5.7 | U | 5.7 | U | 5.7 | U | 5.7 | U | 0.570 | U | 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 | 0.100 | U | P |
| Cyanide | 10.0 | U | 10.0 | U | 10.0 | U | | | 0.467 | U | AS |

USEPA-CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

Preparation Blank Matrix (soil/water): SOLID

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

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M | |
|-----------|-----------------------------|--|-------------------------------------|---|-------|---|---|---|-------------------|---------|---|---|
| | C | | 1 | C | 2 | C | 3 | C | C | | | |
| Aluminum | | | 23.6 | U | -28.5 | B | | | | -4.752 | B | P |
| Antimony | | | 4.7 | U | 4.7 | U | | | | 0.470 | U | P |
| Arsenic | | | 4.8 | U | 4.8 | U | | | | 0.480 | U | P |
| Barium | | | 5.9 | U | 5.9 | U | | | | 0.590 | U | P |
| Beryllium | | | 0.2 | U | 0.2 | B | | | | 0.025 | B | P |
| Cadmium | | | 0.6 | U | 0.6 | U | | | | 0.060 | U | P |
| Calcium | | | 182.1 | U | 182.1 | U | | | | 18.210 | U | P |
| Chromium | | | -6.7 | B | -6.5 | B | | | | -0.400 | B | P |
| Cobalt | | | 2.0 | U | 2.0 | U | | | | 0.200 | U | P |
| Copper | | | 2.4 | U | 2.4 | U | | | | 0.240 | U | P |
| Iron | | | 33.3 | U | 33.3 | U | | | | 3.330 | U | P |
| Lead | | | 2.6 | B | 1.3 | U | | | | 0.150 | U | P |
| Magnesium | | | 178.3 | U | 178.3 | U | | | | 17.830 | U | P |
| Manganese | | | -1.8 | B | -1.7 | B | | | | -0.145 | B | P |
| Nickel | | | -9.0 | B | -8.7 | B | | | | -0.681 | B | P |
| Potassium | | | 393.0 | U | 393.0 | U | | | | 39.300 | U | P |
| Selenium | | | 3.4 | U | 3.4 | U | | | | 0.340 | U | P |
| Silver | | | 2.2 | U | 2.2 | U | | | | 0.220 | U | P |
| Sodium | | | 472.7 | U | 472.7 | U | | | | 129.500 | B | P |
| Thallium | | | 5.7 | U | 5.7 | U | | | | 0.570 | U | P |
| Vanadium | | | 2.0 | U | 2.0 | U | | | | 0.200 | U | P |
| Zinc | | | 1.0 | U | 1.0 | U | | | | 0.100 | U | P |

USEPA-CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

Preparation Blank Matrix (soil/water): SOIL

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

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|---------|-----------------------------|---|-------------------------------------|---|------|---|------|---|-------------------|---|----|
| | C | | 1 | C | 2 | C | 3 | C | C | | |
| Cyanide | 10.0 | U | 10.0 | U | 10.0 | U | 10.0 | U | 0.495 | U | AS |

USEPA-CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

Preparation Blank Matrix (soil/water): WATER

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

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|---------|-----------------------------|---|-------------------------------------|---|-----|---|------|---|-------------------|--|----|
| | C | | 1 | C | 2 | C | 3 | C | C | | |
| Lead | 1.3 | U | -2.0 | B | 1.3 | U | -1.9 | B | | | P |
| Mercury | 0.1 | U | 0.1 | U | 0.1 | U | | | | | CV |

USEPA-CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

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) | | | | | | Preparation Blank | C | M |
|---------|--------------------------------------|---|--|---|------|---|---|---|----------------------|---|---|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Lead | | | -1.9 | B | -1.6 | B | | | | P | |

USEPA-CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

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) | | | | | | Preparation Blank | C | M |
|---------|--------------------------------------|---|--|---|------|---|------|---|----------------------|---|----|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Cyanide | 10.0 | U | 10.0 | U | 10.0 | U | 10.0 | U | 0.500 | U | AS |

USEPA-CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

Preparation Blank Matrix (soil/water): SOIL

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

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|---------|-----------------------------|---|-------------------------------------|---|-----|---|-----|---|-------------------|---|----|
| | C | | 1 | C | 2 | C | 3 | C | C | | |
| Lead | 1.5 | U | 1.5 | U | 1.5 | U | 1.5 | U | | | P |
| Mercury | 0.1 | U | 0.1 | U | 0.1 | U | 0.1 | U | 0.017 | U | CV |

USEPA-CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

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) | | | | | | Preparation Blank | C | M |
|---------|--------------------------------------|---|--|---|---|---|---|---|----------------------|---|----|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Mercury | | | 0.1 | U | | | | | 0.017 | U | CV |

USEPA-CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

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) | | | | | | Preparation Blank | C | M |
|---------|--------------------------------------|---|--|---|------|---|---|---|----------------------|---|----|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Cyanide | 10.0 | U | 10.0 | U | 10.0 | U | | | 0.463 | U | AS |

USEPA-CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|-----------|-----------------------------|---|-------------------------------------|---|-------|---|-------|---|-------------------|--|----|
| | C | | 1 | C | 2 | C | 3 | C | C | | |
| Aluminum | 23.6 | U | 23.6 | U | 23.6 | U | 37.3 | B | | | 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 | U | 0.2 | U | 0.2 | U | 0.2 | U | | | P |
| Cadmium | 0.6 | U | 0.6 | U | 0.6 | U | 0.6 | U | | | P |
| Calcium | 182.1 | U | 182.1 | U | 182.1 | U | 182.1 | 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 | 1.5 | B | 1.3 | U | 1.3 | U | 1.3 | U | | | P |
| Magnesium | 178.3 | U | 178.3 | U | 178.3 | U | 178.3 | U | | | P |
| Manganese | 0.7 | U | 0.7 | U | 0.7 | U | 0.7 | U | | | P |
| Mercury | 0.1 | U | 0.1 | U | 0.1 | U | -0.1 | B | | | CV |
| Nickel | 2.1 | U | 2.1 | U | 2.1 | U | 2.1 | U | | | P |
| Potassium | 393.0 | U | 393.0 | U | 393.0 | U | 393.0 | U | | | P |
| Selenium | 3.4 | U | 3.4 | U | 3.4 | U | 3.4 | U | | | P |
| Silver | 2.2 | U | 2.2 | U | 2.2 | U | 2.2 | U | | | P |
| Sodium | 472.7 | U | 472.7 | U | 472.7 | U | 472.7 | 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 |
| Zinc | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | | | P |

USEPA-CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

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) | | | | | | Preparation Blank | C | M |
|---------|--------------------------------------|---|--|---|------|---|------|---|----------------------|---|----|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Cyanide | 10.0 | U | 10.0 | U | 10.0 | U | 10.0 | U | 0.495 | U | AS |

USEPA-CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

Preparation Blank Matrix (soil/water): SOIL

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

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|---------|-----------------------------|---|-------------------------------------|---|-----|---|-----|---|-------------------|---|----|
| | C | | 1 | C | 2 | C | 3 | C | C | | |
| Mercury | 0.1 | U | 0.1 | U | 0.1 | U | 0.1 | U | 0.017 | U | CV |
| Cyanide | | | 10.0 | U | | | | | | | AS |

USEPA-CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

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) | | | | | | Preparation Blank | | M |
|---------|--------------------------------------|---|--|---|-----|---|-----|---|----------------------|---|----|
| | | | 1 | C | 2 | C | 3 | C | C | C | |
| Mercury | 0.1 | U | 0.1 | U | 0.1 | U | 0.1 | U | 0.017 | U | CV |

USEPA-CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

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) | | | | | | Preparation Blank | C | M |
|---------|--------------------------------------|---|--|---|---|---|---|---|----------------------|----|---|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Mercury | | | 0.1 | B | | | | | | CV | |

USEPA-CLP FORMS

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

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 | 486000 | 486900.0 | 100.9 | 477500 | 480100.0 | 99.5 |
| Antimony | 0 | 596 | -2 | 639.4 | 107.3 | 1 | 633.7 | 106.3 |
| Arsenic | 0 | 102 | 10 | 108.1 | 106.0 | 5 | 109.2 | 107.1 |
| Barium | 0 | 503 | 2 | 509.7 | 101.3 | 2 | 505.3 | 100.5 |
| Beryllium | 0 | 482 | 0 | 490.2 | 101.7 | 0 | 489.3 | 101.5 |
| Cadmium | 0 | 938 | 3 | 955.9 | 101.9 | 3 | 953.6 | 101.7 |
| Calcium | 500000 | 477840 | 486400 | 489800.0 | 102.5 | 482900 | 485800.0 | 101.7 |
| Chromium | 0 | 483 | -3 | 486.9 | 100.8 | -3 | 482.2 | 99.8 |
| Cobalt | 0 | 457 | -1 | 469.4 | 102.7 | -1 | 465.2 | 101.8 |
| Copper | 0 | 526 | 3 | 525.9 | 100.0 | 3 | 523.0 | 99.4 |
| Iron | 200000 | 191980 | 198200 | 197400.0 | 102.8 | 196100 | 195500.0 | 101.8 |
| Lead | 0 | 49 | -4 | 40.4 | 82.4 | -6 | 40.4 | 82.4 |
| Magnesium | 500000 | 521880 | 528200 | 532300.0 | 102.0 | 522600 | 528000.0 | 101.2 |
| Manganese | 0 | 474 | 0 | 482.0 | 101.7 | 0 | 478.0 | 100.8 |
| Nickel | 0 | 952 | -6 | 979.9 | 102.9 | -6 | 971.8 | 102.1 |
| Potassium | 0 | 0 | 191 | 173.1 | | 278 | 241.1 | |
| Selenium | 0 | 47 | 5 | 56.4 | 120.0 | 7 | 53.9 | 114.7 |
| Silver | 0 | 213 | 1 | 214.6 | 100.8 | 1 | 213.6 | 100.3 |
| Sodium | 0 | 0 | 110 | -24.5 | | 7 | -32.8 | |
| Thallium | 0 | 89 | -4 | 85.9 | 96.5 | -5 | 91.8 | 103.1 |
| Vanadium | 0 | 478 | 1 | 476.0 | 99.6 | 1 | 472.3 | 98.8 |
| Zinc | 0 | 998 | 5 | 1017.0 | 101.9 | 6 | 1013.0 | 101.5 |

USEPA-CLP FORMS

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

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 |
| Lead | 0 | 49 | -5 | 41.8 | 85.3 | -3 | 40.6 | 82.9 |

USEPA-CLP FORMS

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

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 |
| Lead | 0 | 44 | 2 | 47.1 | 107.0 | 2 | 46.5 | 105.7 |

USEPA-CLP FORMS

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001ICP ID Number: TJA ICAP 4 ICS Source: Inorganic VenturesConcentration 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 | 507400 | 502200.0 | 104.0 | 508100 | 503700.0 | 104.3 |
| Antimony | 0 | 596 | -5 | 613.0 | 102.9 | 0 | 610.9 | 102.5 |
| Arsenic | 0 | 102 | 8 | 107.1 | 105.0 | 6 | 106.1 | 104.0 |
| Barium | 0 | 503 | 2 | 498.3 | 99.1 | 2 | 499.2 | 99.2 |
| Beryllium | 0 | 482 | 0 | 486.2 | 100.9 | 0 | 487.2 | 101.1 |
| Cadmium | 0 | 938 | 0 | 936.2 | 99.8 | 0 | 936.4 | 99.8 |
| Calcium | 500000 | 477840 | 498400 | 498800.0 | 104.4 | 504600 | 501600.0 | 105.0 |
| Chromium | 0 | 483 | 4 | 477.1 | 98.8 | 4 | 477.9 | 98.9 |
| Cobalt | 0 | 457 | -1 | 454.5 | 99.5 | -1 | 454.0 | 99.3 |
| Copper | 0 | 526 | 4 | 511.7 | 97.3 | 4 | 513.1 | 97.5 |
| Iron | 200000 | 191980 | 201700 | 199100.0 | 103.7 | 203000 | 199300.0 | 103.8 |
| Lead | 0 | 49 | -2 | 44.8 | 91.4 | 0 | 44.2 | 90.2 |
| Magnesium | 500000 | 521880 | 540400 | 541400.0 | 103.7 | 545300 | 542800.0 | 104.0 |
| Manganese | 0 | 474 | 1 | 471.9 | 99.6 | 1 | 471.1 | 99.4 |
| Nickel | 0 | 952 | 0 | 938.8 | 98.6 | 1 | 940.5 | 98.8 |
| Potassium | 0 | 0 | -82 | -76.1 | | -20 | -19.3 | |
| Selenium | 0 | 47 | 0 | 41.8 | 88.9 | -1 | 46.5 | 98.9 |
| Silver | 0 | 213 | 0 | 213.8 | 100.4 | 0 | 213.8 | 100.4 |
| Sodium | 0 | 0 | 87 | -50.0 | | -79 | -133.8 | |
| Thallium | 0 | 89 | -8 | 86.2 | 96.9 | -5 | 92.2 | 103.6 |
| Vanadium | 0 | 478 | 2 | 469.2 | 98.2 | 2 | 469.3 | 98.2 |
| Zinc | 0 | 998 | 3 | 1013.0 | 101.5 | 3 | 1016.0 | 101.8 |

USEPA-CLP FORMS

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

GRANBGPLT36S

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

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

% Solids for Sample: 35.6

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 | 75 - 125 | 750.8095 | 213.0187 | 476.10 | 113.0 | | P |
| Antimony | 75 - 125 | 121.8102 | 1.0395 | 119.02 | 102.3 | | P |
| Arsenic | 75 - 125 | 8.5103 | 1.0617 | 9.52 | 89.4 | | P |
| Barium | 75 - 125 | 977.9091 | 505.1757 | 476.10 | 99.3 | | P |
| Beryllium | 75 - 125 | 11.9287 | 0.0539 | 11.90 | 99.8 | | P |
| Cadmium | 75 - 125 | 11.9144 | 0.1327 | 11.90 | 100.1 | | P |
| Chromium | 75 - 125 | 47.6100 | 0.3097 | 47.61 | 100.0 | | P |
| Cobalt | 75 - 125 | 116.5492 | 0.4424 | 119.02 | 97.9 | | P |
| Copper | 75 - 125 | 66.8444 | 4.8018 | 59.51 | 104.3 | | P |
| Iron | 75 - 125 | 502.0473 | 246.8371 | 238.05 | 107.2 | | P |
| Lead | 75 - 125 | 4.9990 | 0.3837 | 4.76 | 97.0 | | P |
| Manganese | 75 - 125 | 449.4382 | 324.4714 | 119.02 | 105.0 | | P |
| Mercury | 75 - 125 | 0.4392 | 0.0446 | 0.45 | 97.6 | | CV |
| Nickel | 75 - 125 | 114.6686 | 0.4645 | 119.02 | 96.3 | | P |
| Selenium | 75 - 125 | 3.1423 | 0.9491 | 2.38 | 92.2 | | P |
| Silver | 75 - 125 | 11.7620 | 0.4866 | 11.90 | 98.8 | | P |
| Thallium | 75 - 125 | 10.3599 | 1.2607 | 11.90 | 87.1 | | P |
| Vanadium | 75 - 125 | 119.6201 | 0.5992 | 119.02 | 100.0 | | P |
| Zinc | 75 - 125 | 137.1882 | 13.4345 | 119.02 | 104.0 | | P |
| Cyanide | 75 - 125 | 6.6028 | 1.4045 | 13.91 | 47.5 | N | AS |

Comments:

USEPA-CLP FORMS

5B

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

GRANBGPLT36A

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS _____ SDG No.: GCV001Matrix (soil/water): SOLID 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 | | 3114.00 | | 963.10 | | 2000.0 | 107.5 | | P |
| Antimony | | 537.20 | | 4.70 | U | 500.0 | 107.4 | | P |
| Arsenic | | 35.79 | | 4.80 | U | 40.0 | 89.5 | | P |
| Barium | | 4297.00 | | 2284.00 | | 2000.0 | 100.6 | | P |
| Beryllium | | 52.18 | | 0.24 | B | 50.0 | 103.9 | | P |
| Cadmium | | 52.43 | | 0.60 | U | 50.0 | 104.9 | | P |
| Chromium | | 209.80 | | 1.40 | U | 200.0 | 104.9 | | P |
| Cobalt | | 513.30 | | 2.00 | U | 500.0 | 102.7 | | P |
| Copper | | 294.90 | | 21.71 | B | 250.0 | 109.3 | | P |
| Iron | | 2133.00 | | 1116.00 | | 1000.0 | 101.7 | | P |
| Lead | | 24.12 | | 1.74 | B | 20.0 | 111.9 | | P |
| Manganese | | 1983.00 | | 1467.00 | | 500.0 | 103.2 | | P |
| Nickel | | 506.30 | | 2.10 | U | 500.0 | 101.3 | | P |
| Selenium | | 11.53 | | 4.29 | B | 10.0 | 72.4 | | P |
| Silver | | 52.72 | | 2.20 | U | 50.0 | 105.4 | | P |
| Thallium | | 41.72 | | 5.70 | U | 50.0 | 83.4 | | P |
| Vanadium | | 525.80 | | 2.71 | B | 500.0 | 104.6 | | P |
| Zinc | | 583.80 | | 60.74 | | 500.0 | 104.6 | | P |
| Cyanide | | 20.14 | | 10.00 | U | 20.0 | 100.7 | | AS |

Comments: _____

USEPA-CLP FORMS

6

DUPLICATES

SAMPLE NO.

GRANBGPLT36D

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

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

% Solids for Sample: 35.6 % Solids for Duplicate: 36.3

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

| Analyte | Control Limit | Sample (S) | C | Duplicate (D) | C | RPD | Q | M |
|-----------|---------------|------------|---|---------------|---|-------|---|----|
| Aluminum | 44.2 | 213.0187 | | 211.6685 | | 0.6 | | P |
| Antimony | | 1.0395 | U | 1.1683 | U | | | P |
| Arsenic | | 1.0617 | U | 1.1932 | U | | | P |
| Barium | | 505.1757 | | 512.5784 | | 1.5 | | P |
| Beryllium | | 0.0539 | B | 0.1035 | B | 63.0 | | P |
| Cadmium | | 0.1327 | U | 0.1768 | B | 200.0 | | P |
| Calcium | | 17329.4707 | | 17763.7500 | | 2.5 | | P |
| Chromium | | 0.3097 | U | 0.3480 | U | | | P |
| Cobalt | | 0.4424 | U | 0.4972 | U | | | P |
| Copper | | 4.8018 | B | 4.4720 | B | 7.1 | | P |
| Iron | | 246.8371 | | 256.2892 | | 3.8 | | P |
| Lead | | 0.3837 | B | 0.3910 | B | 1.9 | | P |
| Magnesium | 1105.9 | 4567.3721 | | 4618.6738 | | 1.1 | | P |
| Manganese | | 324.4714 | | 329.1240 | | 1.4 | | P |
| Mercury | | 0.0446 | U | 0.0571 | B | 200.0 | | CV |
| Nickel | | 0.4645 | U | 0.5220 | U | | | P |
| Potassium | | 16227.9902 | | 16545.6895 | | 1.9 | | P |
| Selenium | | 0.9491 | B | 1.1062 | B | 15.3 | | P |
| Silver | | 0.4866 | U | 0.5469 | U | | | P |
| Sodium | | 284.6590 | B | 300.0398 | B | 5.3 | | P |
| Thallium | | 1.2607 | U | 1.4169 | U | | | P |
| Vanadium | | 0.5992 | B | 0.7087 | B | 16.7 | | P |
| Zinc | 4.4 | 13.4345 | | 13.5055 | | 0.5 | | P |
| Cyanide | | 1.4045 | U | 1.2213 | U | | | AS |

USEPA-CLP FORMS

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Solid LCS Source: IV, ENVEXP, LOT0899
 Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|-----------|----------------|-------|----|---------------|--------|---|-----------------|-------|
| | True | Found | %R | True | Found | C | Limits | %R |
| Aluminum | | | | 200.0 | 187.7 | | 160.0 240.0 | 93.8 |
| Antimony | | | | 50.0 | 49.6 | | 40.0 60.0 | 99.2 |
| Arsenic | | | | 24.0 | 22.5 | | 19.2 28.8 | 93.8 |
| Barium | | | | 200.0 | 190.0 | | 160.0 240.0 | 95.0 |
| Beryllium | | | | 5.0 | 4.9 | | 4.0 6.0 | 98.0 |
| Cadmium | | | | 25.0 | 24.1 | | 20.0 30.0 | 96.4 |
| Calcium | | | | 2000.0 | 1932.0 | | 1600.0 2400.0 | 96.6 |
| Chromium | | | | 20.0 | 19.2 | | 16.0 24.0 | 96.0 |
| Cobalt | | | | 50.0 | 47.6 | | 40.0 60.0 | 95.2 |
| Copper | | | | 25.0 | 25.0 | | 20.0 30.0 | 100.0 |
| Iron | | | | 100.0 | 95.5 | | 80.0 120.0 | 95.5 |
| Lead | | | | 22.0 | 21.2 | | 17.6 26.4 | 96.4 |
| Magnesium | | | | 2000.0 | 1872.0 | | 1600.0 2400.0 | 93.6 |
| Manganese | | | | 50.0 | 48.4 | | 40.0 60.0 | 96.8 |
| Mercury | | | | 0.1 | 0.1 | | 0.1 0.1 | 100.0 |
| Nickel | | | | 50.0 | 47.1 | | 40.0 60.0 | 94.2 |
| Potassium | | | | 2000.0 | 1895.0 | | 1600.0 2400.0 | 94.8 |
| Selenium | | | | 21.0 | 18.8 | | 16.8 25.2 | 89.5 |
| Silver | | | | 25.0 | 24.0 | | 20.0 30.0 | 96.0 |
| Sodium | | | | 2000.0 | 1925.0 | | 1600.0 2400.0 | 96.2 |
| Thallium | | | | 25.0 | 23.2 | | 20.0 30.0 | 92.8 |
| Vanadium | | | | 50.0 | 48.5 | | 40.0 60.0 | 97.0 |
| Zinc | | | | 50.0 | 48.5 | | 40.0 60.0 | 97.0 |
| Cyanide | | | | 9.6 | 8.5 | | 7.4 11.8 | 88.5 |

USEPA-CLP FORMS

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____, SDG No.: GCV001

Solid LCS Source: IV, ENVEXP, LOT0899

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|-----------|----------------|-------|----|---------------|--------|---|-----------------|-------|
| | True | Found | %R | True | Found | C | Limits | %R |
| Aluminum | | | | 200.0 | 203.6 | | 160.0 240.0 | 101.8 |
| Antimony | | | | 50.0 | 52.5 | | 40.0 60.0 | 105.0 |
| Arsenic | | | | 24.0 | 23.6 | | 19.2 28.8 | 98.3 |
| Barium | | | | 200.0 | 202.7 | | 160.0 240.0 | 101.4 |
| Beryllium | | | | 5.0 | 5.2 | | 4.0 6.0 | 104.0 |
| Cadmium | | | | 25.0 | 25.7 | | 20.0 30.0 | 102.8 |
| Calcium | | | | 2000.0 | 2052.0 | | 1600.0 2400.0 | 102.6 |
| Chromium | | | | 20.0 | 20.5 | | 16.0 24.0 | 102.5 |
| Cobalt | | | | 50.0 | 50.7 | | 40.0 60.0 | 101.4 |
| Copper | | | | 25.0 | 27.0 | | 20.0 30.0 | 108.0 |
| Iron | | | | 100.0 | 100.2 | | 80.0 120.0 | 100.2 |
| Lead | | | | 22.0 | 22.6 | | 17.6 26.4 | 102.7 |
| Magnesium | | | | 2000.0 | 1994.0 | | 1600.0 2400.0 | 99.7 |
| Manganese | | | | 50.0 | 51.6 | | 40.0 60.0 | 103.2 |
| Nickel | | | | 50.0 | 50.4 | | 40.0 60.0 | 100.8 |
| Potassium | | | | 2000.0 | 1978.0 | | 1600.0 2400.0 | 98.9 |
| Selenium | | | | 21.0 | 19.8 | | 16.8 25.2 | 94.3 |
| Silver | | | | 25.0 | 25.5 | | 20.0 30.0 | 102.0 |
| Sodium | | | | 2000.0 | 2046.0 | | 1600.0 2400.0 | 102.3 |
| Thallium | | | | 25.0 | 24.4 | | 20.0 30.0 | 97.6 |
| Vanadium | | | | 50.0 | 51.9 | | 40.0 60.0 | 103.8 |
| Zinc | | | | 50.0 | 51.7 | | 40.0 60.0 | 103.4 |

USEPA-CLP FORMS

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

Solid LCS Source: IV, ENVEXP, LOT0899

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|---------|----------------|-------|----|---------------|-------|---|------------|------|
| | True | Found | %R | True | Found | C | Limits | %R |
| Cyanide | | | | 9.6 | 8.6 | | 7.4 11.8 | 89.6 |

USEPA-CLP FORMS

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

Solid LCS Source: IV, ENVEXP, LOT0899

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | | |
|---------|----------------|-------|----|---------------|-------|---|--------|------|-------|
| | True | Found | %R | True | Found | C | Limits | %R | |
| Mercury | | | | 0.1 | 0.1 | | 0.1 | 0.1 | 100.0 |
| Cyanide | | | | 9.6 | 8.9 | | 7.4 | 11.8 | 92.7 |

USEPA-CLP FORMS

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

Solid LCS Source: IV, ENVEXP, LOT0899

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|---------|----------------|-------|----|---------------|-------|---|--------|-------------|
| | True | Found | %R | True | Found | C | Limits | %R |
| Mercury | | | | 0.1 | 0.1 | | 0.1 | 0.1 100.0 |

USEPA-CLP FORMS

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

Solid LCS Source: IV, ENVEXP, LOT0899

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | |
|---------|----------------|-------|----|---------------|---------|-----------|-------|
| | True | Found | %R | True | Found C | Limits | %R |
| Cyanide | | | | 6.0 | 6.1 | 5.4 6.6 | 101.7 |

USEPA-CLP FORMS

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

Solid LCS Source: IV, ENVEXP, LOT0899

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | | |
|---------|----------------|-------|----|---------------|-------|---|--------|-----|-------|
| | True | Found | %R | True | Found | C | Limits | %R | |
| Mercury | | | | 0.1 | 0.1 | | 0.1 | 0.1 | 100.0 |
| Cyanide | | | | 6.0 | 5.9 | | 5.4 | 6.6 | 98.3 |

USEPA-CLP FORMS

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

Solid LCS Source: IV, ENVEXP, LOT0899

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|---------|----------------|-------|----|---------------|-------|---|--------|-------------|
| | True | Found | %R | True | Found | C | Limits | %R |
| Mercury | | | | 0.1 | 0.1 | | 0.1 | 0.1 100.0 |

USEPA-CLP FORMS

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001Solid LCS Source: IV, ENVEXP, LOT0899

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|-----------|----------------|-------|----|---------------|--------|---|-----------------|-------|
| | True | Found | %R | True | Found | C | Limits | %R |
| Aluminum | | | | 200.0 | 196.7 | | 160.0 240.0 | 98.4 |
| Antimony | | | | 50.0 | 51.7 | | 40.0 60.0 | 103.4 |
| Arsenic | | | | 24.0 | 23.4 | | 19.2 28.8 | 97.5 |
| Barium | | | | 200.0 | 198.6 | | 160.0 240.0 | 99.3 |
| Beryllium | | | | 5.0 | 5.1 | | 4.0 6.0 | 102.0 |
| Cadmium | | | | 25.0 | 25.2 | | 20.0 30.0 | 100.8 |
| Calcium | | | | 2000.0 | 2008.0 | | 1600.0 2400.0 | 100.4 |
| Chromium | | | | 20.0 | 20.1 | | 16.0 24.0 | 100.5 |
| Cobalt | | | | 50.0 | 49.7 | | 40.0 60.0 | 99.4 |
| Copper | | | | 25.0 | 26.4 | | 20.0 30.0 | 105.6 |
| Iron | | | | 100.0 | 96.9 | | 80.0 120.0 | 96.9 |
| Lead | | | | 22.0 | 22.2 | | 17.6 26.4 | 100.9 |
| Magnesium | | | | 2000.0 | 1950.0 | | 1600.0 2400.0 | 97.5 |
| Manganese | | | | 50.0 | 50.6 | | 40.0 60.0 | 101.2 |
| Nickel | | | | 50.0 | 49.2 | | 40.0 60.0 | 98.4 |
| Potassium | | | | 2000.0 | 1944.0 | | 1600.0 2400.0 | 97.2 |
| Selenium | | | | 21.0 | 19.5 | | 16.8 25.2 | 92.9 |
| Silver | | | | 25.0 | 25.1 | | 20.0 30.0 | 100.4 |
| Sodium | | | | 2000.0 | 2000.0 | | 1600.0 2400.0 | 100.0 |
| Thallium | | | | 25.0 | 24.3 | | 20.0 30.0 | 97.2 |
| Vanadium | | | | 50.0 | 50.8 | | 40.0 60.0 | 101.6 |
| Zinc | | | | 50.0 | 50.3 | | 40.0 60.0 | 100.6 |
| Cyanide | | | | 9.6 | 8.7 | | 7.4 11.8 | 90.6 |

USEPA-CLP FORMS

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

Solid LCS Source: IV, ENVEXP, LOT0899

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | | |
|---------|----------------|-------|----|---------------|-------|---|--------|-----|------|
| | True | Found | %R | True | Found | C | Limits | %R | |
| Cyanide | | | | 6.0 | 5.9 | | 5.4 | 6.6 | 98.3 |

USEPA-CLP FORMS

9
ICP SERIAL DILUTIONS

SAMPLE NO.

GRANBGPLT36L

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVT Case No.: 23046SAS No.: _____ SDG No.: GCV001Matrix (soil/water): SOLIDLevel (low/med): LOW

Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Differ- ence | Q | M |
|-----------|------------------------------|---|-------------------------------|---|----------------------|---|---|
| Aluminum | 963.10 | | 1362.00 | | 41.4 | | P |
| Antimony | 4.70 | U | 23.50 | U | | | P |
| Arsenic | 4.80 | U | 24.00 | U | | | P |
| Barium | 2284.00 | | 2291.00 | | 0.3 | | P |
| Beryllium | 0.24 | B | 1.00 | U | 100.0 | | P |
| Cadmium | 0.60 | U | 3.00 | U | | | P |
| Calcium | 78350.00 | | 82480.00 | | 5.3 | | P |
| Chromium | 1.40 | U | 7.00 | U | | | P |
| Cobalt | 2.00 | U | 10.00 | U | | | P |
| Copper | 21.71 | B | 14.03 | B | 35.4 | | P |
| Iron | 1116.00 | | 1304.00 | | 16.8 | | P |
| Lead | 1.74 | B | 6.50 | U | 100.0 | | P |
| Magnesium | 20650.00 | | 21850.00 | B | 5.8 | | P |
| Manganese | 1467.00 | | 1490.00 | | 1.6 | | P |
| Nickel | 2.10 | U | 10.50 | U | | | P |
| Potassium | 73370.00 | | 90980.00 | | 24.0 | E | P |
| Selenium | 4.29 | B | 17.00 | U | 100.0 | | P |
| Silver | 2.20 | U | 11.00 | U | | | P |
| Sodium | 1287.00 | B | 2363.50 | U | 100.0 | | P |
| Thallium | 5.70 | U | 54.43 | | 100.0 | | P |
| Vanadium | 2.71 | B | 10.00 | U | 100.0 | | P |
| Zinc | 60.74 | | 72.79 | B | 19.8 | E | P |

USEPA-CLP FORMS

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

ICP ID Number: _____ Date: 07/01/03

Flame AA ID Number: Lachat Cyanide

Furnace AA ID Number: _____

| Analyte | Wave-length (nm) | Back-ground | CRDL (ug/L) | IDL (ug/L) | M |
|---------|------------------|-------------|-------------|------------|----|
| Cyanide | | | 10 | 10.0 | AS |

Comments:

USEPA-CLP FORMS

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

ICP ID Number: _____ Date: 07/01/03

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:

USEPA-CLP FORMS

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

ICP ID Number: TJA ICAP 4 Date: 07/01/03

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 |
| Selenium | 196.026 | | 5 | 3.4 | 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:

USEPA-CLP FORMS

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

ICP ID Number: TJA ICAP 6 Date: 07/01/03

Flame AA ID Number: _____

Furnace AA ID Number: _____

| Analyte | Wave-length (nm) | Back-ground | CRDL (ug/L) | IDL (ug/L) | M |
|---------|------------------|-------------|-------------|------------|---|
| Lead | 220.353 | | 3 | 1.5 | P |

Comments: _____

USEPA-CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 ICP ID Number: TJA ICAP 4 Date: 06/30/03

| 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: _____

USEPA-CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

ICP ID Number: TJA ICAP 4 Date: 06/30/03

| 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: _____

USEPA-CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 ICP ID Number: TJA ICAP 4 Date: 06/30/03

| 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: _____

USEPA-CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

ICP ID Number: TJA ICAP 6 Date: 10/01/02

| 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: _____

USEPA-CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCY001
 ICP ID Number: TJA ICAP 6 Date: 10/01/02

| 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: _____

USEPA-CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 ICP ID Number: TJA ICAP 6 Date: 10/01/02

| 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: _____

USEPA-CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001ICP ID Number: TJA ICAP 6 Date: 10/01/02

| 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: _____

USEPA-CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

ICP ID Number: TJA ICAP 6 Date: 10/01/02

| 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 FORMS

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCV001ICP ID Number: TJA ICAP 4Date: 07/01/03

| 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 |
| Selenium | 10.00 | 5000.0 | 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 FORMS

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001

ICP ID Number: TJA ICAP 6 Date: 07/01/03

| Analyte | Integ. Time (Sec.) | Concentration (ug/L) | M |
|---------|--------------------------|-------------------------|---|
| Lead | 10.00 | 50000.0 | P |

Comments:

USEPA-CLP FORMS

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001Method: AS

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|-------------------|---------------------|----------------------|----------------|
| ICV | 07/21/03 | 50.0 | 50.0 |
| LCSDS0721A | 07/21/03 | 1.04 | 50.0 |
| LCSS0721A | 07/21/03 | 1.06 | 50.0 |
| MONU-WP-PLT-14 | 07/21/03 | 1.05 | 50.0 |
| MONU-WP-PLT-15 | 07/21/03 | 1.10 | 50.0 |
| PBS0721A | 07/21/03 | 1.07 | 50.0 |

USEPA-CLP FORMS

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001Method: AS

| EPA Sample No. | Preparation Date | Initial Weight (α) | Volume (mL) |
|-------------------|---------------------|--------------------------------|----------------|
| CENT-WP-PLT-31 | 07/22/03 | 0.96 | 50.0 |
| ICV | 07/22/03 | 50.0 | 50.0 |
| LCSS0722A | 07/22/03 | 1.06 | 50.0 |
| PBS0722A | 07/22/03 | 1.01 | 50.0 |
| TILL-WP-PLT-27 | 07/22/03 | 1.23 | 50.0 |

USEPA-CLP FORMS

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001Method: AS

| EPA Sample No. | Preparation Date | Initial Weight (α) | Volume (mL) |
|-------------------|---------------------|--------------------------------|----------------|
| CAPMWPPLT20 | 07/27/03 | 0.98 | 50.0 |
| GRANBGPLT34 | 07/27/03 | 1.10 | 50.0 |
| GRANBGPLT35 | 07/27/03 | 1.05 | 50.0 |
| GRANBGPLT36 | 07/27/03 | 1.00 | 50.0 |
| GRANBGPLT36D | 07/27/03 | 1.15 | 50.0 |
| GRANBGPLT36S | 07/27/03 | 1.01 | 50.0 |
| ICV | 07/27/03 | 50.0 | 50.0 |
| LCSS0727A | 07/27/03 | 1.02 | 50.0 |
| PBS0727A | 07/27/03 | 1.00 | 50.0 |
| SHERWPPLT23 | 07/27/03 | 1.04 | 50.0 |
| SHERWPPLT23 (100) | 07/27/03 | 0.99 | 50.0 |

USEPA-CLP FORMS

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001Method: AS

| EPA Sample No. | Preparation Date | Initial Weight (g) | Volume (mL) |
|-------------------|---------------------|-----------------------|----------------|
| AJAXPDPLT06 | 07/29/03 | 1.01 | 50.0 |
| AJAXWPPLT08 | 07/29/03 | 1.09 | 50.0 |
| ICV | 07/29/03 | 50.0 | 50.0 |
| LCSS0729C | 07/29/03 | 1.00 | 50.0 |
| LUCABGPLT19 | 07/29/03 | 1.00 | 50.0 |
| MAGNPDPLT11 | 07/29/03 | 1.02 | 50.0 |
| MAGNWPPLT14 | 07/29/03 | 1.02 | 50.0 |
| MAGNWPPLT17 | 07/29/03 | 1.05 | 50.0 |
| PBS0729C | 07/29/03 | 1.08 | 50.0 |

USEPA-CLP FORMS

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001Method: AS

| EPA Sample No. | Preparation Date | Initial Weight (g) | Volume (mL) |
|-------------------|---------------------|-----------------------|----------------|
| BLUEWPPLT20 | 08/01/03 | 1.02 | 50.0 |
| BLUEWPPLT24 | 08/01/03 | 1.00 | 50.0 |
| EBLK2 | 08/01/03 | 1.02 | 50.0 |
| ICV | 08/01/03 | 50.0 | 50.0 |
| LCS0801B | 08/01/03 | 1.00 | 50.0 |
| LCSD0801B | 08/01/03 | 1.00 | 50.0 |
| PBS0801B | 08/01/03 | 1.01 | 50.0 |

USEPA-CLP FORMS

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001Method: CV

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|-------------------|---------------------|----------------------|----------------|
| EBLK1 | 07/21/03 | 0.60 | 100.0 |
| LCSS0721G | 07/21/03 | 1.00 | 100.0 |
| MONU-WP-PLT-14 | 07/21/03 | 0.61 | 100.0 |
| MONU-WP-PLT-15 | 07/21/03 | 0.62 | 100.0 |
| PBS0721G | 07/21/03 | 0.60 | 100.0 |

USEPA-CLP FORMS

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001Method: CV

| EPA Sample No. | Preparation Date | Initial Weight (g) | Volume (mL) |
|-------------------|---------------------|-----------------------|----------------|
| CAPMWPPLT20 | 07/31/03 | 0.60 | 100.0 |
| GRANBGPLT34 | 07/31/03 | 0.68 | 100.0 |
| GRANBGPLT35 | 07/31/03 | 0.65 | 100.0 |
| GRANBGPLT36 | 07/31/03 | 0.63 | 100.0 |
| GRANBGPLT36D | 07/31/03 | 0.63 | 100.0 |
| GRANBGPLT36S | 07/31/03 | 0.63 | 100.0 |
| LCSS0731A | 07/31/03 | 1.00 | 100.0 |
| PBS0731A | 07/31/03 | 0.60 | 100.0 |
| SHERWPPLT23 | 07/31/03 | 0.64 | 100.0 |
| SHERWPPLT23(100) | 07/31/03 | 0.68 | 100.0 |

USEPA-CLP FORMS

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001Method: CV

| EPA Sample No. | Preparation Date | Initial Weight (α) | Volume (mL) |
|-------------------|---------------------|--------------------------------|----------------|
| CENT-WP-PLT-31 | 07/31/03 | 0.63 | 100.0 |
| LCSS0731B | 07/31/03 | 1.00 | 100.0 |
| PBS0731B | 07/31/03 | 0.60 | 100.0 |
| TILL-WP-PLT-27 | 07/31/03 | 0.67 | 100.0 |

USEPA-CLP FORMS

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001Method: CV

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|-------------------|---------------------|----------------------|----------------|
| AJAXPDPLT06 | 08/08/03 | 0.61 | 100.0 |
| AJAXWPPLT08 | 08/08/03 | 0.61 | 100.0 |
| LCSS0808B | 08/08/03 | 1.00 | 100.0 |
| LUCABGPLT19 | 08/08/03 | 0.60 | 100.0 |
| MAGNPDPLT11 | 08/08/03 | 0.69 | 100.0 |
| MAGNWPPLT14 | 08/08/03 | 0.61 | 100.0 |
| MAGNWPPLT17 | 08/08/03 | 0.62 | 100.0 |
| PBS0808B | 08/08/03 | 0.60 | 100.0 |

USEPA-CLP FORMS

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001Method: CV

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|-------------------|---------------------|----------------------|----------------|
| BLUEWPPLT20 | 08/13/03 | 0.65 | 100.0 |
| BLUEWPPLT24 | 08/13/03 | 0.60 | 100.0 |
| EBLK2 | 08/13/03 | 0.61 | 100.0 |
| LCSS0813B | 08/13/03 | 1.00 | 100.0 |
| PBS0813B | 08/13/03 | 0.60 | 100.0 |

USEPA-CLP FORMS

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001Method: P

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|-------------------|---------------------|----------------------|----------------|
| BLUEWPPLT20 | 08/07/03 | 1.20 | 100.0 |
| BLUEWPPLT24 | 08/07/03 | 1.09 | 100.0 |
| CAPMWPPLT20 | 08/07/03 | 1.23 | 100.0 |
| CENT-WP-PLT-31 | 08/07/03 | 1.06 | 100.0 |
| EBLK1 | 08/07/03 | 1.00 | 100.0 |
| EBLK2 | 08/07/03 | 1.00 | 100.0 |
| GRANBGPLT34 | 08/07/03 | 1.21 | 100.0 |
| GRANBGPLT35 | 08/07/03 | 1.27 | 100.0 |
| GRANBGPLT36 | 08/07/03 | 1.27 | 100.0 |
| GRANBGPLT36D | 08/07/03 | 1.13 | 100.0 |
| GRANBGPLT36S | 08/07/03 | 1.18 | 100.0 |
| LCSS0807J | 08/07/03 | 1.00 | 100.0 |
| MONU-WP-PLT-14 | 08/07/03 | 1.17 | 100.0 |
| MONU-WP-PLT-15 | 08/07/03 | 1.04 | 100.0 |
| PBS0807J | 08/07/03 | 1.00 | 100.0 |
| SHERWPPLT23 | 08/07/03 | 1.22 | 100.0 |
| SHERWPPLT23 (100) | 08/07/03 | 1.19 | 100.0 |
| TILL-WP-PLT-27 | 08/07/03 | 1.39 | 100.0 |

USEPA-CLP FORMS

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001Method: P

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|-------------------|---------------------|----------------------|----------------|
| AJAXPDPLT06 | 08/15/03 | 1.09 | 100.0 |
| AJAXWPPLT08 | 08/15/03 | 1.01 | 100.0 |
| LCSDS0815C | 08/15/03 | 1.00 | 100.0 |
| LCSS0815C | 08/15/03 | 1.00 | 100.0 |
| LUCABGPLT19 | 08/15/03 | 1.18 | 100.0 |
| MAGNPDPLT11 | 08/15/03 | 1.00 | 100.0 |
| MAGNWPPLT14 | 08/15/03 | 1.04 | 100.0 |
| MAGNWPPLT17 | 08/15/03 | 1.04 | 100.0 |
| PBS0815C | 08/15/03 | 1.00 | 100.0 |

USEPA-CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Instrument ID Number: Lachat Cyanide QC8000 Method: AS
 Start Date: 07/21/03 End Date: 07/21/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K I | S E | A G | N A | T L | V L | Z N | C N | | |
| S0 | 1.00 | 1618 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S10 | 1.00 | 1619 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S30 | 1.00 | 1620 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S50 | 1.00 | 1621 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S100 | 1.00 | 1622 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S200 | 1.00 | 1623 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S300 | 1.00 | 1624 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ICV | 1.00 | 1626 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ICB | 1.00 | 1627 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LRS | 1.00 | 1628 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LRS | 1.00 | 1629 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCV | 1.00 | 1630 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1631 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZZ | 1.00 | 1632 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PBS0721A | 1.00 | 1633 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZZ | 1.00 | 1634 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LCSS0721A | 1.00 | 1635 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LCSDS0721A | 1.00 | 1636 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZZ | 1.00 | 1637 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1638 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1638 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MONU-WP-PLT-15 | 1.00 | 1639 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| MONU-WP-PLT-14 | 1.00 | 1640 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCV | 1.00 | 1641 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1642 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |

USEPA-CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Instrument ID Number: Lachat Cyanide QC8000 Method: AS
 Start Date: 07/22/03 End Date: 07/22/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|---|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | F U | P B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V | Z N | C N | | | |
| S0 | 1.00 | 1539 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S10 | 1.00 | 1540 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S30 | 1.00 | 1541 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S50 | 1.00 | 1542 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S100 | 1.00 | 1543 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S200 | 1.00 | 1544 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S300 | 1.00 | 1545 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ICV | 1.00 | 1547 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ICB | 1.00 | 1548 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LRS | 1.00 | 1549 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LRS | 1.00 | 1550 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCV | 1.00 | 1551 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1552 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZZ | 1.00 | 1553 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PBS0722A | 1.00 | 1553 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LCSS0722A | 1.00 | 1554 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZZ | 1.00 | 1555 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1556 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1557 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1558 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1559 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CENT-WP-PLT-31 | 1.00 | 1601 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCV | 1.00 | 1602 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1603 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| TILL-WP-PLT-27 | 1.00 | 1604 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZZ | 1.00 | 1605 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1606 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1607 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1608 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1609 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1610 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1611 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1612 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1613 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1614 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1615 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |

USEPA-CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Instrument ID Number: Lachat Cyanide QC8000 Method: AS
 Start Date: 07/27/03 End Date: 07/27/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|---|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C F | F U | P E | M B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V | Z N | C N | | | |
| S0 | 1.00 | 1809 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S10 | 1.00 | 1810 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S30 | 1.00 | 1811 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S50 | 1.00 | 1812 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S100 | 1.00 | 1813 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S200 | 1.00 | 1814 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S300 | 1.00 | 1815 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ICV | 1.00 | 1816 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ICB | 1.00 | 1817 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LRS | 1.00 | 1818 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LRS | 1.00 | 1819 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCV | 1.00 | 1820 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1821 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| PBS0727A | 1.00 | 1822 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LCSS0727A | 1.00 | 1823 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| SHERWPPLT23 | 1.00 | 1824 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| SHERWPPLT23(100) | 1.00 | 1825 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CAPMWPPLT20 | 1.00 | 1826 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| GRANBGPLT35 | 1.00 | 1827 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| GRANBGPLT34 | 1.00 | 1828 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| GRANBGPLT36 | 1.00 | 1829 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| GRANBGPLT36D | 1.00 | 1830 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| GRANBGPLT36S | 1.00 | 1831 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCV | 1.00 | 1832 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1833 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZZ | 1.00 | 1834 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1835 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1836 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1837 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1838 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1839 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1840 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1841 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1842 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1843 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1843 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1844 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZZ | 1.00 | 1845 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

USEPA-CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Instrument ID Number: Lachat Cyanide QC8000 Method: AS
 Start Date: 07/27/03 End Date: 07/27/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V L | Z N | C N | | |
| ZZZZZ | 1.00 | 1846 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1847 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GRANBGPLT36A | 1.00 | 1848 | | | | | | | | | | | | | | | | | | | | | | | | | | X | |

USEPA-CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Instrument ID Number: Lachat Cyanide QC8000 Method: AS
 Start Date: 07/29/03 End Date: 07/29/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|---|--|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V | Z N | C N | | | | |
| S0 | 1.00 | 2152 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| S10 | 1.00 | 2153 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| S30 | 1.00 | 2154 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| S50 | 1.00 | 2155 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| S100 | 1.00 | 2156 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| S200 | 1.00 | 2157 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| S300 | 1.00 | 2157 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| ICV | 1.00 | 2159 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| ICB | 1.00 | 2200 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| LRS | 1.00 | 2201 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| LRS | 1.00 | 2202 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| CCV | 1.00 | 2203 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| CCB | 1.00 | 2204 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| PBS0729C | 1.00 | 2205 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| LCSS0729C | 1.00 | 2206 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| ZZZZZ | 1.00 | 2207 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 2208 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AJAXWPPLT08 | 1.00 | 2209 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| AJAXPDPLT06 | 1.00 | 2210 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| MAGNWPPLT14 | 1.00 | 2211 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| MAGNPDPLT11 | 1.00 | 2212 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| LUCABGPLT19 | 1.00 | 2213 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| MAGNWPPLT17 | 1.00 | 2214 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| CCV | 1.00 | 2215 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| CCB | 1.00 | 2216 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |

USEPA-CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Instrument ID Number: Lachat Cyanide QC8000 Method: AS
 Start Date: 08/01/03 End Date: 08/01/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|---|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S G | A A | N L | T L | V L | Z N | C N | | | | |
| S0 | 1.00 | 1707 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S10 | 1.00 | 1708 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S30 | 1.00 | 1709 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S50 | 1.00 | 1710 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S100 | 1.00 | 1711 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S200 | 1.00 | 1712 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S300 | 1.00 | 1713 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ICV | 1.00 | 1715 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ICB | 1.00 | 1716 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LRS | 1.00 | 1717 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LRS | 1.00 | 1718 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCV | 1.00 | 1719 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1720 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZZ | 1.00 | 1721 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PBS0801B | 1.00 | 1722 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LCS0801B | 1.00 | 1723 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LCSD0801B | 1.00 | 1724 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZZ | 1.00 | 1724 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1725 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1726 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1727 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1728 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1729 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1730 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1731 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZZ | 1.00 | 1732 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1733 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1734 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1735 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1736 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1737 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1738 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1739 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLUEWPPLT20 | 1.00 | 1740 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLUEWPPLT24 | 1.00 | 1741 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCV | 1.00 | 1742 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1743 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| EBLK2 | 1.00 | 1744 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |

USEPA-CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Instrument ID Number: Lachat Cyanide QC8000 Method: AS
 Start Date: 08/01/03 End Date: 08/01/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S G | A A | N L | T L | V L | Z N | C N |
| ZZZZZZ | 1.00 | 1745 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1746 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1747 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1748 | | | | | | | | | | | | | | | | | | | | | | | | | X |
| CCB | 1.00 | 1749 | | | | | | | | | | | | | | | | | | | | | | | | | X |

USEPA-CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Instrument ID Number: TJA ICAP 4 Method: P
 Start Date: 08/21/03 End Date: 08/21/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S G | A A | N L | T V | Z N | C N | | | |
| S0.. | 1.00 | 1510 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| S | 1.00 | 1515 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S | 1.00 | 1520 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| S | 1.00 | 1524 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LRS | 1.00 | 1529 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| LRS | 1.00 | 1534 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| LRS | 1.00 | 1539 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| ICV | 1.00 | 1545 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| ICB | 1.00 | 1550 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| ICSA | 1.00 | 1555 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| ICSAB | 1.00 | 1600 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| CRI | 1.00 | 1605 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1610 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| CCB | 1.00 | 1616 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1621 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1626 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1631 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1636 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1641 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1646 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1651 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1656 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1701 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1706 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1711 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| CCB | 1.00 | 1716 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1722 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1727 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1732 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1737 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 5.00 | 1742 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1747 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1752 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1757 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1802 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 5.00 | 1807 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1812 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| CCB | 1.00 | 1817 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |

USEPA-CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Instrument ID Number: TJA ICAP 4 Method: P
 Start Date: 08/21/03 End Date: 08/21/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C F | F U | P E | M B | M G | H N | N G | K I | S E | A G | A L | N T | T V | Z N | C N | | |
| ZZZZZZ | 1.00 | 1823 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1828 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1833 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1838 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1843 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1848 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1853 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1858 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1903 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1908 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1913 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| CCB | 1.00 | 1918 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1923 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1929 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EBLK1 | 1.00 | 1934 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| CAPMWPPLT20 | 1.00 | 1939 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| GRANBGPLT34 | 1.00 | 1944 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| GRANBGPLT36 | 1.00 | 1949 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| GRANBGPLT36L | 5.00 | 1954 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| GRANBGPLT36A | 1.00 | 1959 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| GRANBGPLT36D | 1.00 | 2004 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| GRANBGPLT36S | 1.00 | 2009 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| CCV | 1.00 | 2014 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| CCB | 1.00 | 2019 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 2024 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 2029 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ICSA | 1.00 | 2035 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| ICSAB | 1.00 | 2040 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| CRI | 1.00 | 2045 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| CCV | 1.00 | 2050 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCB | 1.00 | 2055 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

USEPA-CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Instrument ID Number: TJA ICAP 6 Method: P
 Start Date: 08/25/03 End Date: 08/25/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C F | F U | P E | M B | M G | H N | H G | N I | K E | S E | A G | A L | N T | T V | Z N | C N | | | |
| S0 | 1.00 | 0700 | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| S | 1.00 | 0704 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S | 1.00 | 0707 | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| S | 1.00 | 0711 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LRS | 1.00 | 0716 | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| LRS | 1.00 | 0720 | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| LRS | 1.00 | 0724 | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| ICV | 1.00 | 0728 | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| ICB | 1.00 | 0732 | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| ICSA | 1.00 | 0737 | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| ICSAB | 1.00 | 0741 | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| CRI | 1.00 | 0745 | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 0749 | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| CCB | 1.00 | 0753 | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| BLUEWPLT20 | 1.00 | 0757 | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| PBS0815C | 1.00 | 0801 | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0806 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0810 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0814 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 20.00 | 0818 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 100.00 | 0822 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 20.00 | 0826 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 20.00 | 0830 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 0834 | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| CCB | 1.00 | 0838 | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| ICSA | 1.00 | 0842 | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| ICSAB | 1.00 | 0846 | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| CRI | 1.00 | 0850 | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 0855 | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| CCB | 1.00 | 0859 | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |

USEPA-CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Instrument ID Number: TJA ICAP 4 Method: P
 Start Date: 09/12/03 End Date: 09/12/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | A L | T L | V L | Z N | C N | | |
| S0 | 1.00 | 0917 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| S | 1.00 | 0922 | | X | | | | | X | | | | X | X | | | | | X | | X | | | | | | | | |
| S | 1.00 | 0925 | | | X | X | | | | | | | X | | | | | | X | | | X | | | | | | | |
| S | 1.00 | 0929 | | | | | X | X | X | | X | X | X | | X | X | | X | | X | | | | X | X | | | | |
| LRS | 1.00 | 0934 | | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | X | X | | |
| LRS | 1.00 | 0939 | | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | X | X | | |
| LRS | 1.00 | 0944 | | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | X | X | | |
| ICV | 1.00 | 0949 | | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | X | X | | |
| ICB | 1.00 | 0953 | | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | X | X | | |
| ICSA | 1.00 | 0958 | | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | X | X | | |
| ICSAB | 1.00 | 1003 | | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | X | X | | |
| CRI | 1.00 | 1008 | | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | X | X | | |
| CCV | 1.00 | 1012 | | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | X | X | | |
| CCB | 1.00 | 1017 | | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | X | X | | |
| PBS0807J | 1.00 | 1022 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| GRANBGPLT36L | 5.00 | 1027 | | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | X | X | | |
| ZZZZZ | 1.00 | 1031 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1036 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1041 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MONU-WP-PLT-15 | 1.00 | 1045 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| GRANBGPLT35 | 1.00 | 1050 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| BLUEWPPLT24 | 1.00 | 1054 | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| CENT-WP-PLT-31 | 1.00 | 1059 | | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| CCV | 1.00 | 1104 | | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | X | X | | |
| CCB | 1.00 | 1109 | | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | X | X | | |
| LUCABGPLT19 | 1.00 | 1113 | | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| ZZZZZ | 1.00 | 1118 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ICSA | 1.00 | 1123 | | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | X | X | | |
| ICSAB | 1.00 | 1127 | | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | X | X | | |
| CRI | 1.00 | 1132 | | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | X | X | | |
| CCV | 1.00 | 1137 | | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | X | X | | |
| CCB | 1.00 | 1142 | | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | X | X | | |

USEPA-CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Instrument ID Number: Leeman Hydra AA Method: CV
 Start Date: 07/23/03 End Date: 07/23/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S G | A A | N L | T L | V L | Z N | C N | | | | |
| S0 | 1.00 | 1428 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| S0.2 | 1.00 | 1430 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| S0.5 | 1.00 | 1432 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| S1 | 1.00 | 1433 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| S5 | 1.00 | 1435 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| S10 | 1.00 | 1437 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| ICV | 1.00 | 1439 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| ICB | 1.00 | 1441 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| CRA | 1.00 | 1443 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| CCV | 1.00 | 1444 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| CCB | 1.00 | 1447 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| PBS0721G | 1.00 | 1448 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| LCSS0721G | 1.00 | 1450 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| ZZZZZ | 100.00 | 1452 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 100.00 | 1453 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 100.00 | 1455 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 100.00 | 1457 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 100.00 | 1459 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 100.00 | 1501 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 100.00 | 1502 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1504 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| CCB | 1.00 | 1506 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |

USEPA-CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Instrument ID Number: Leeman Hydra AA Method: CV
 Start Date: 07/23/03 End Date: 07/23/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V | Z N | C N | | |
| S0 | 1.00 | 1803 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S0.2 | 1.00 | 1805 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S0.5 | 1.00 | 1807 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S1 | 1.00 | 1809 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S5 | 1.00 | 1811 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S10 | 1.00 | 1813 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ICV | 1.00 | 1815 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ICB | 1.00 | 1817 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CRA | 1.00 | 1819 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCV | 1.00 | 1820 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1822 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| MONU-WP-PLT-15 | 1.00 | 1824 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| MONU-WP-PLT-14 | 1.00 | 1826 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| EBLK1 | 1.00 | 1828 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZZ | 1000.00 | 1829 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1831 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1833 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1835 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1837 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1838 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1840 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1842 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |

USEPA-CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Instrument ID Number: Leeman Hydra AA Method: CV
 Start Date: 08/04/03 End Date: 08/04/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C F | F E | P B | M G | M N | H G | N I | K E | S G | A A | N L | T L | V L | Z N |
| S0 | 1.00 | 1112 | | | | | | | | | | | | | | | X | | | | | | | | | |
| S0.2 | 1.00 | 1114 | | | | | | | | | | | | | | | X | | | | | | | | | |
| S0.5 | 1.00 | 1116 | | | | | | | | | | | | | | | X | | | | | | | | | |
| S1 | 1.00 | 1117 | | | | | | | | | | | | | | | X | | | | | | | | | |
| S5 | 1.00 | 1119 | | | | | | | | | | | | | | | X | | | | | | | | | |
| S10 | 1.00 | 1121 | | | | | | | | | | | | | | | X | | | | | | | | | |
| ICV | 1.00 | 1123 | | | | | | | | | | | | | | | X | | | | | | | | | |
| ICB | 1.00 | 1125 | | | | | | | | | | | | | | | X | | | | | | | | | |
| CRA | 1.00 | 1126 | | | | | | | | | | | | | | | X | | | | | | | | | |
| CCV | 1.00 | 1128 | | | | | | | | | | | | | | | X | | | | | | | | | |
| CCB | 1.00 | 1130 | | | | | | | | | | | | | | | X | | | | | | | | | |
| PBS0731A | 1.00 | 1133 | | | | | | | | | | | | | | | X | | | | | | | | | |
| LCSS0731A | 1.00 | 1134 | | | | | | | | | | | | | | | X | | | | | | | | | |
| ZZZZZZ | 1.00 | 1136 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1138 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1140 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1142 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1144 | | | | | | | | | | | | | | | | | | | | | | | | |
| SHERWPPLT23 | 1.00 | 1146 | | | | | | | | | | | | | | | X | | | | | | | | | |
| SHERWPPLT23 (100) | 1.00 | 1148 | | | | | | | | | | | | | | | X | | | | | | | | | |
| CCV | 1.00 | 1150 | | | | | | | | | | | | | | | X | | | | | | | | | |
| CCB | 1.00 | 1152 | | | | | | | | | | | | | | | X | | | | | | | | | |
| CAPMWPPLT20 | 1.00 | 1153 | | | | | | | | | | | | | | | X | | | | | | | | | |
| GRANBGPLT35 | 1.00 | 1155 | | | | | | | | | | | | | | | X | | | | | | | | | |
| GRANBGPLT34 | 1.00 | 1157 | | | | | | | | | | | | | | | X | | | | | | | | | |
| GRANBGPLT36 | 1.00 | 1159 | | | | | | | | | | | | | | | X | | | | | | | | | |
| GRANBGPLT36D | 1.00 | 1201 | | | | | | | | | | | | | | | X | | | | | | | | | |
| GRANBGPLT36S | 1.00 | 1203 | | | | | | | | | | | | | | | X | | | | | | | | | |
| ZZZZZZ | 1.00 | 1205 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1207 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1208 | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1210 | | | | | | | | | | | | | | | X | | | | | | | | | |
| CCB | 1.00 | 1212 | | | | | | | | | | | | | | | X | | | | | | | | | |
| ZZZZZZ | 1.00 | 1214 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1216 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1218 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1220 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1222 | | | | | | | | | | | | | | | | | | | | | | | | |

USEPA-CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Instrument ID Number: Leeman Hydra AA Method: CV
 Start Date: 08/04/03 End Date: 08/04/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | A A | N L | T A | V L | Z N | C N | |
| ZZZZZZ | 1.00 | 1224 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PBS0731B | 1.00 | 1226 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LCSS0731B | 1.00 | 1228 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1230 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1232 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCB | 1.00 | 1234 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

USEPA-CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Instrument ID Number: Leeman Hydra AA Method: CV
 Start Date: 08/14/03 End Date: 08/14/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C F | F U | P E | M B | M G | M N | H G | N I | K E | S E | A G | A L | N A | T L | V L | Z N | C N | | |
| S0 | 1.00 | 1016 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| S0.2 | 1.00 | 1018 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| S0.5 | 1.00 | 1019 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| S1 | 1.00 | 1021 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| S5 | 1.00 | 1023 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| S10 | 1.00 | 1025 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| ICV | 1.00 | 1027 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| ICB | 1.00 | 1029 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| CRA | 1.00 | 1031 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| CCV | 1.00 | 1033 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| CCB | 1.00 | 1035 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| PBS0808B | 1.00 | 1036 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| LCSS0808B | 1.00 | 1038 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1040 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1042 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1044 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1046 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AJAXWPPLT08 | 1.00 | 1048 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| AJAXPDPLT06 | 1.00 | 1049 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| MAGNWPPLT14 | 1.00 | 1051 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| CCV | 1.00 | 1053 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| CCB | 1.00 | 1055 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| MAGNPDPLT11 | 1.00 | 1057 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| LUCABGPLT19 | 1.00 | 1058 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| MAGNWPPLT17 | 1.00 | 1100 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1102 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1104 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1105 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1109 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1111 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1113 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| CCB | 1.00 | 1115 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |

USEPA-CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Instrument ID Number: Leeman Hydra AA Method: CV
 Start Date: 08/14/03 End Date: 08/14/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V L | Z N | C N | | |
| BLUEWPPLT20 | 1.00 | 1804 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLUEWPPLT24 | 1.00 | 1806 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| EBLK2 | 1.00 | 1808 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZZ | 1.00 | 1810 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1811 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1813 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |

USEPA-CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Instrument ID Number: TJA ICAP 4 Method: P
 Start Date: 08/21/03 End Date: 08/21/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V L | Z N | C N | | | | |
| S0 | 1.00 | 0313 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| S | 1.00 | 0318 | | X | | | | | X | | | | X | X | | | | | X | | X | | | | | | | | | | |
| S | 1.00 | 0322 | | | X | X | | | | | | | X | | | | | | X | | | X | | | | | | | | | |
| S | 1.00 | 0326 | | | | | X | X | X | | X | X | X | | | X | X | X | | X | | X | | | X | X | | | | | |
| LRS | 1.00 | 0332 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| LRS | 1.00 | 0337 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| LRS | 1.00 | 0342 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICV | 1.00 | 0347 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICB | 1.00 | 0352 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICSA | 1.00 | 0357 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICSAB | 1.00 | 0403 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CRI | 1.00 | 0408 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCV | 1.00 | 0413 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCB | 1.00 | 0418 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| PBS0807J | 1.00 | 0423 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| LCSS0807J | 1.00 | 0428 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| MONU-WP-PLT-15 | 1.00 | 0433 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| MONU-WP-PLT-14 | 1.00 | 0438 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| EBLK1 | 1.00 | 0444 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CENT-WP-PLT-31 | 1.00 | 0449 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| TILL-WP-PLT-27 | 1.00 | 0454 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| SHERWPPLT23 | 1.00 | 0459 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| SHERWPPLT23 (100) | 1.00 | 0504 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CAPMWPPLT20 | 1.00 | 0509 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCV | 1.00 | 0514 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCB | 1.00 | 0519 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| GRANBGPLT35 | 1.00 | 0524 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| GRANBGPLT34 | 1.00 | 0529 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| GRANBGPLT36 | 1.00 | 0534 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| GRANBGPLT36L | 5.00 | 0540 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GRANBGPLT36A | 1.00 | 0545 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| GRANBGPLT36D | 1.00 | 0550 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| GRANBGPLT36S | 1.00 | 0555 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLUEWPPLT20 | 1.00 | 0600 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLUEWPPLT24 | 1.00 | 0605 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| EBLK2 | 1.00 | 0610 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCV | 1.00 | 0615 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCB | 1.00 | 0620 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |

USEPA-CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV001
 Instrument ID Number: TJA ICAP 4 Method: P
 Start Date: 08/21/03 End Date: 08/21/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S G | A A | N A | T L | V L | Z N | C N |
| PBS0815C | 1.00 | 0625 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| LCSS0815C | 1.00 | 0630 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| LCSDS0815C | 1.00 | 0636 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| AJAXWPPLT08 | 1.00 | 0641 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| AJAXPDPLT06 | 1.00 | 0646 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| MAGNWPPLT14 | 1.00 | 0651 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| MAGNPDPLT11 | 1.00 | 0656 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| LUCABGPLT19 | 1.00 | 0701 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| MAGNWPPLT17 | 1.00 | 0706 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CCV | 1.00 | 0711 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CCB | 1.00 | 0716 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| ICSA | 1.00 | 0721 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| ICSAB | 1.00 | 0727 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CRI | 1.00 | 0732 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CCV | 1.00 | 0737 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CCB | 1.00 | 0742 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |

**STL Burlington
Colchester, Vermont**

**Sample Data Summary
Package**

SDG: GCV002

September 10, 2003

Ms. Jennifer Kindred
EA Engineering
12011 Bellevue-Redmond Rd.
Suite 200
Bellevue, WA 98005

Re: Laboratory Project No. 23046
Case No. 23046; SDG: GCV002

Dear Ms. Kindred:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on July 26, 2003. Laboratory numbers have been assigned and designated as follows:

| <u>Lab ID</u> | <u>Client Sample ID</u> | <u>Sample Date</u> | <u>Sample Matrix</u> |
|----------------------------------|-----------------------------|------------------------|--------------------------|
| Received: 07/26/03 ETR No: 95063 | | | |
| 536264 | CLEABGPLT26 | 07/24/03 | Solid |
| 536265 | CLEABGPLT25 | 07/24/03 | Solid |
| 536266 | BLACADPLT11 | 07/24/03 | Solid |
| 536267 | BLACWPPLT12 | 07/24/03 | Solid |
| 536268 | EBLK | | Water |

Due to reporting software limitations, sample identifications may have been truncated. In most instances only punctuation was removed.

This narrative identifies anomalies that occurred during the analyses of samples in this delivery group. If there is no description following regarding a certain methodology requested on the chain-of-custody record, then there were no exceptions to the laboratory quality control criteria noted during that analysis.

Documentation that identifies the condition of the samples at the time of sample receipt and the issues arising at the time of sample log-in is included in the Sample Handling section of this submittal.

The plant samples were homogenized for analysis by the lab and after homogenization the tissue was maintained in frozen storage at -20 °C.

The results for the tissue samples are reported on a dry weight basis. In preparing the tissues, an equipment bank was generated in order to characterize the homogenization process. This blank, identified as "EBLK", was carried through each of the analytical processes, using weighed amounts similar to the tissue amounts that were analyzed. The results have been reported on the same weight/weight basis as the tissue samples.

Metals by ICP / CVAA

The percent differences between the original determination and the serial dilution determination for potassium and zinc in sample CLEABGPLT26 were 28.8 and 14.6 percent, respectively. Each of these values is above the control criteria of ± 10 percent. Matrix interference is suspected and results have been flagged with an "E" accordingly.

The laboratory noted poor reproducibility between iterations on the trace ICP for selenium in all samples. Samples were analyzed more than once and similar results were obtained.

If there are any questions regarding this submittal, please contact Jeannine McCrumb at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 0001 and ending with page 0170.

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. The release of the data contained in this hardcopy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,



Michael F. Wheeler, Ph.D.
Laboratory Director

Enclosure
MFW/jtw/jmm

0001-B Last Alpha

**SEVERN
TRENT**

STL

**Sample Data Summary Package
For Wet Chemistry**

WET CHEMISTRY

Sample Report Summary

Client Sample No.

CLEABGPLT26

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCV002

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 536264

Matrix: SOLID

Client: EASEAT

Date Received: 07/26/03

% Solids: 41.1

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------|---------------------|------------------|-------|-----|----|-------|-------|
| IN623 | Solids, Percent | 08/05/03 | N/A | % | 1.0 | | 41.1 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

CLEABGPLT25

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCV002

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 536265

Matrix: SOLID

Client: EASEAT

Date Received: 07/26/03

% Solids: 39.9

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------|---------------------|------------------|-------|-----|----|-------|-------|
| IN623 | Solids, Percent | 08/05/03 | N/A | % | 1.0 | | 39.9 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACADPLT11

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCV002

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 536266

Matrix: SOLID

Client: EASEAT

Date Received: 07/26/03

% Solids: 25.5

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------|---------------------|------------------|-------|-----|----|-------|-------|
| IN623 | Solids, Percent | 08/05/03 | N/A | % | 1.0 | | 25.5 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACWPPLT12

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCV002

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 536267

Matrix: SOLID

Client: EASEAT

Date Received: 07/26/03

% Solids: 33.0

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------|---------------------|------------------|-------|-----|----|-------|-------|
| IN623 | Solids, Percent | 08/05/03 | N/A | % | 1.0 | | 33.0 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

EBLK

Lab Name: STL BURLINGTON

Contract:

SDG No.: GCV002

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 536268

Matrix: WATER

Client: EASEAT

Date Received: 07/26/03

% Solids: 0.0

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------|---------------------|------------------|-------|-----|----|-------|-------|
| IN623 | Solids, Percent | 08/05/03 | N/A | % | 1.0 | | 0.0 | |



**Sample Data Summary Package
For Metals**

USEPA - CLP FORMS

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002

SOW No.: ILM04.1

| EPA Sample No. | Lab Sample ID. |
|--------------------|----------------|
| <u>BLACADPLT11</u> | <u>536266</u> |
| <u>BLACWPPLT12</u> | <u>536267</u> |
| <u>CLEABGPLT25</u> | <u>536265</u> |
| <u>CLEABGPLT26</u> | <u>536264</u> |
| <u>EBLK</u> | <u>536268</u> |

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: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACADPLT11

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002
 Matrix (soil/water): TISSUE Lab Sample ID: 536266
 Level (low/med): LOW Date Received: 07/26/03
 % Solids: 25.5

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 74.4 | B | | P |
| 7440-36-0 | Antimony | 1.8 | U | | P |
| 7440-38-2 | Arsenic | 1.9 | U | | P |
| 7440-39-3 | Barium | 12.7 | B | | P |
| 7440-41-7 | Beryllium | 0.12 | B | | P |
| 7440-43-9 | Cadmium | 0.23 | U | | P |
| 7440-70-2 | Calcium | 9080 | | | P |
| 7440-47-3 | Chromium | 0.76 | B | | P |
| 7440-48-4 | Cobalt | 0.78 | U | | P |
| 7440-50-8 | Copper | 5.6 | B | | P |
| 7439-89-6 | Iron | 521 | | | P |
| 7439-92-1 | Lead | 1.4 | | | P |
| 7439-95-4 | Magnesium | 8860 | | | P |
| 7439-96-5 | Manganese | 179 | | | P |
| 7439-97-6 | Mercury | 0.058 | U | | CV |
| 7440-02-0 | Nickel | 4.3 | B | | P |
| 7440-09-7 | Potassium | 20200 | | E | P |
| 7782-49-2 | Selenium | 2.3 | | | P |
| 7440-22-4 | Silver | 0.85 | U | | P |
| 7440-23-5 | Sodium | 507 | B | | P |
| 7440-28-0 | Thallium | 2.2 | U | | P |
| 7440-62-2 | Vanadium | 0.78 | U | | P |
| 7440-66-6 | Zinc | 38.8 | | E | P |
| 57-12-5 | Cyanide | 2.9 | | | AS |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACWPPLT12

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002
 Matrix (soil/water): TISSUE Lab Sample ID: 536267
 Level (low/med): LOW Date Received: 07/26/03
 % Solids: 33.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 139 | | | P |
| 7440-36-0 | Antimony | 1.3 | U | | P |
| 7440-38-2 | Arsenic | 1.3 | U | | P |
| 7440-39-3 | Barium | 129 | | | P |
| 7440-41-7 | Beryllium | 0.099 | B | | P |
| 7440-43-9 | Cadmium | 0.16 | U | | P |
| 7440-70-2 | Calcium | 11300 | | | P |
| 7440-47-3 | Chromium | 0.69 | B | | P |
| 7440-48-4 | Cobalt | 0.54 | U | | P |
| 7440-50-8 | Copper | 4.6 | B | | P |
| 7439-89-6 | Iron | 266 | | | P |
| 7439-92-1 | Lead | 0.68 | B | | P |
| 7439-95-4 | Magnesium | 3350 | | | P |
| 7439-96-5 | Manganese | 248 | | | P |
| 7439-97-6 | Mercury | 0.047 | U | | CV |
| 7440-02-0 | Nickel | 4.3 | B | | P |
| 7440-09-7 | Potassium | 18100 | | E | P |
| 7782-49-2 | Selenium | 1.9 | | | P |
| 7440-22-4 | Silver | 0.60 | U | | P |
| 7440-23-5 | Sodium | 373 | B | | P |
| 7440-28-0 | Thallium | 1.5 | U | | P |
| 7440-62-2 | Vanadium | 0.54 | U | | P |
| 7440-66-6 | Zinc | 16.8 | | E | P |
| 57-12-5 | Cyanide | 1.4 | U | | AS |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

CLEABGPLT25

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002
 Matrix (soil/water): TISSUE Lab Sample ID: 536265
 Level (low/med): LOW Date Received: 07/26/03
 % Solids: 39.9

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 189 | | | P |
| 7440-36-0 | Antimony | 1.1 | U | | P |
| 7440-38-2 | Arsenic | 1.2 | U | | P |
| 7440-39-3 | Barium | 406 | | | P |
| 7440-41-7 | Beryllium | 0.10 | B | | P |
| 7440-43-9 | Cadmium | 0.15 | U | | P |
| 7440-70-2 | Calcium | 18200 | | | P |
| 7440-47-3 | Chromium | 0.79 | B | | P |
| 7440-48-4 | Cobalt | 0.49 | U | | P |
| 7440-50-8 | Copper | 5.2 | B | | P |
| 7439-89-6 | Iron | 241 | | | P |
| 7439-92-1 | Lead | 0.82 | | | P |
| 7439-95-4 | Magnesium | 4850 | | | P |
| 7439-96-5 | Manganese | 243 | | | P |
| 7439-97-6 | Mercury | 0.040 | U | | CV |
| 7440-02-0 | Nickel | 0.51 | U | | P |
| 7440-09-7 | Potassium | 15600 | | E | P |
| 7782-49-2 | Selenium | 1.7 | | | P |
| 7440-22-4 | Silver | 0.54 | U | | P |
| 7440-23-5 | Sodium | 364 | B | | P |
| 7440-28-0 | Thallium | 1.4 | U | | P |
| 7440-62-2 | Vanadium | 0.49 | U | | P |
| 7440-66-6 | Zinc | 17.6 | | E | P |
| 57-12-5 | Cyanide | 1.2 | U | | AS |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

CLEABGPLT26

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002
 Matrix (soil/water): TISSUE Lab Sample ID: 536264
 Level (low/med): LOW Date Received: 07/26/03
 % Solids: 41.1

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 150 | | | P |
| 7440-36-0 | Antimony | 1.1 | U | | P |
| 7440-38-2 | Arsenic | 1.1 | U | | P |
| 7440-39-3 | Barium | 305 | | | P |
| 7440-41-7 | Beryllium | 0.092 | B | | P |
| 7440-43-9 | Cadmium | 0.14 | U | | P |
| 7440-70-2 | Calcium | 15800 | | | P |
| 7440-47-3 | Chromium | 0.81 | B | | P |
| 7440-48-4 | Cobalt | 0.47 | U | | P |
| 7440-50-8 | Copper | 5.2 | B | | P |
| 7439-89-6 | Iron | 253 | | | P |
| 7439-92-1 | Lead | 1.2 | | | P |
| 7439-95-4 | Magnesium | 4390 | | | P |
| 7439-96-5 | Manganese | 200 | | | P |
| 7439-97-6 | Mercury | 0.037 | U | | CV |
| 7440-02-0 | Nickel | 0.49 | U | | P |
| 7440-09-7 | Potassium | 17500 | | E | P |
| 7782-49-2 | Selenium | 1.4 | | | P |
| 7440-22-4 | Silver | 0.51 | U | | P |
| 7440-23-5 | Sodium | 341 | B | | P |
| 7440-28-0 | Thallium | 1.3 | U | | P |
| 7440-62-2 | Vanadium | 0.51 | B | | P |
| 7440-66-6 | Zinc | 13.4 | | E | P |
| 57-12-5 | Cyanide | 1.2 | U | | AS |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

EBLK

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002
 Matrix (soil/water): TISSUE Lab Sample ID: 536268
 Level (low/med): LOW Date Received: 07/26/03
 % Solids: 100.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 2.4 | U | | P |
| 7440-36-0 | Antimony | 0.47 | U | | P |
| 7440-38-2 | Arsenic | 0.48 | U | | P |
| 7440-39-3 | Barium | 0.59 | U | | P |
| 7440-41-7 | Beryllium | 0.030 | B | | P |
| 7440-43-9 | Cadmium | 0.060 | U | | P |
| 7440-70-2 | Calcium | 18.2 | U | | P |
| 7440-47-3 | Chromium | 0.14 | U | | P |
| 7440-48-4 | Cobalt | 0.20 | U | | P |
| 7440-50-8 | Copper | 0.24 | U | | P |
| 7439-89-6 | Iron | 3.3 | U | | P |
| 7439-92-1 | Lead | 0.21 | B | | P |
| 7439-95-4 | Magnesium | 17.8 | U | | P |
| 7439-96-5 | Manganese | 0.091 | B | | P |
| 7439-97-6 | Mercury | 0.016 | U | | CV |
| 7440-02-0 | Nickel | 0.21 | U | | P |
| 7440-09-7 | Potassium | 39.3 | U | E | P |
| 7782-49-2 | Selenium | 0.34 | U | | P |
| 7440-22-4 | Silver | 0.22 | U | | P |
| 7440-23-5 | Sodium | 127 | B | | P |
| 7440-28-0 | Thallium | 0.57 | U | | P |
| 7440-62-2 | Vanadium | 0.20 | U | | P |
| 7440-66-6 | Zinc | 0.35 | B | E | P |
| 57-12-5 | Cyanide | 0.50 | U | | AS |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002

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) |
| Cyanide | 120.0 | 131.84 | 109.9 | 150.0 | 152.81 | 101.9 | 151.70 | 101.1 | AS |

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

USEPA - CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002

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) |
| Cyanide | | | | 150.0 | 152.22 | 101.5 | 153.20 | 102.1 | AS |

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

USEPA - CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002

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 | 26190.00 | 100.7 | 30200.0 | 30270.00 | 100.2 | 30180.00 | 99.9 | P |
| Antimony | 250.0 | 248.40 | 99.4 | 300.0 | 303.90 | 101.3 | 303.50 | 101.2 | P |
| Arsenic | 250.0 | 242.90 | 97.2 | 100.0 | 98.73 | 98.7 | 97.12 | 97.1 | P |
| Barium | 500.0 | 485.50 | 97.1 | 200.0 | 197.20 | 98.6 | 197.70 | 98.8 | P |
| Beryllium | 500.0 | 494.80 | 99.0 | 100.0 | 98.82 | 98.8 | 98.02 | 98.0 | P |
| Cadmium | 500.0 | 485.20 | 97.0 | 100.0 | 97.88 | 97.9 | 96.99 | 97.0 | P |
| Calcium | 25000.0 | 25490.00 | 102.0 | 30200.0 | 30420.00 | 100.7 | 29850.00 | 98.8 | P |
| Chromium | 500.0 | 491.20 | 98.2 | 200.0 | 196.10 | 98.0 | 194.10 | 97.0 | P |
| Cobalt | 500.0 | 484.40 | 96.9 | 200.0 | 197.00 | 98.5 | 193.70 | 96.8 | P |
| Copper | 500.0 | 493.10 | 98.6 | 200.0 | 200.00 | 100.0 | 200.90 | 100.4 | P |
| Iron | 25500.0 | 26220.00 | 102.8 | 30200.0 | 30210.00 | 100.0 | 29900.00 | 99.0 | P |
| Lead | 1000.0 | 977.70 | 97.8 | 400.0 | 390.90 | 97.7 | 387.10 | 96.8 | P |
| Magnesium | 25000.0 | 25350.00 | 101.4 | 30200.0 | 30070.00 | 99.6 | 29620.00 | 98.1 | P |
| Manganese | 500.0 | 485.20 | 97.0 | 200.0 | 195.60 | 97.8 | 194.10 | 97.0 | P |
| Nickel | 500.0 | 488.80 | 97.8 | 200.0 | 196.70 | 98.4 | 193.50 | 96.8 | P |
| Potassium | 25000.0 | 26680.00 | 106.7 | 30200.0 | 31340.00 | 103.8 | 31420.00 | 104.0 | P |
| Selenium | 250.0 | 237.40 | 95.0 | 100.0 | 97.72 | 97.7 | 98.67 | 98.7 | P |
| Silver | 500.0 | 490.60 | 98.1 | 100.0 | 100.10 | 100.1 | 100.50 | 100.5 | P |
| Sodium | 25000.0 | 25160.00 | 100.6 | 30200.0 | 29570.00 | 97.9 | 29600.00 | 98.0 | P |
| Thallium | 250.0 | 237.10 | 94.8 | 100.0 | 102.20 | 102.2 | 97.43 | 97.4 | P |
| Vanadium | 500.0 | 487.00 | 97.4 | 200.0 | 196.90 | 98.4 | 196.20 | 98.1 | P |
| Zinc | 500.0 | 495.20 | 99.0 | 200.0 | 203.20 | 101.6 | 200.70 | 100.4 | P |

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

USEPA - CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002

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 | 30420.00 | 100.7 | 30290.00 | 100.3 | P |
| Antimony | | | | 300.0 | 302.50 | 100.8 | 299.60 | 99.9 | P |
| Arsenic | | | | 100.0 | 97.34 | 97.3 | 97.49 | 97.5 | P |
| Barium | | | | 200.0 | 199.00 | 99.5 | 197.30 | 98.6 | P |
| Beryllium | | | | 100.0 | 98.54 | 98.5 | 97.91 | 97.9 | P |
| Cadmium | | | | 100.0 | 97.85 | 97.8 | 97.50 | 97.5 | P |
| Calcium | | | | 30200.0 | 30150.00 | 99.8 | 30050.00 | 99.5 | P |
| Chromium | | | | 200.0 | 195.00 | 97.5 | 193.60 | 96.8 | P |
| Cobalt | | | | 200.0 | 194.20 | 97.1 | 192.50 | 96.2 | P |
| Copper | | | | 200.0 | 202.20 | 101.1 | 201.20 | 100.6 | P |
| Iron | | | | 30200.0 | 29990.00 | 99.3 | 29770.00 | 98.6 | P |
| Lead | | | | 400.0 | 385.80 | 96.4 | 382.00 | 95.5 | P |
| Magnesium | | | | 30200.0 | 29780.00 | 98.6 | 29590.00 | 98.0 | P |
| Manganese | | | | 200.0 | 195.20 | 97.6 | 194.10 | 97.0 | P |
| Nickel | | | | 200.0 | 195.10 | 97.6 | 192.60 | 96.3 | P |
| Potassium | | | | 30200.0 | 31660.00 | 104.8 | 31230.00 | 103.4 | P |
| Selenium | | | | 100.0 | 99.34 | 99.3 | 93.83 | 93.8 | P |
| Silver | | | | 100.0 | 101.20 | 101.2 | 100.40 | 100.4 | P |
| Sodium | | | | 30200.0 | 29820.00 | 98.7 | 29540.00 | 97.8 | P |
| Thallium | | | | 100.0 | 100.00 | 100.0 | 96.63 | 96.6 | P |
| Vanadium | | | | 200.0 | 197.20 | 98.6 | 195.90 | 98.0 | P |
| Zinc | | | | 200.0 | 202.10 | 101.0 | 200.20 | 100.1 | P |

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

USEPA - CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002

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) |
| Mercury | 3.0 | 2.92 | 97.3 | 5.0 | 4.87 | 97.4 | 4.44 | 88.8 | CV |

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

USEPA - CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002

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) |
| Mercury | | | | 5.0 | 4.76 | 95.2 | 4.66 | 93.2 | CV |

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

USEPA - CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002

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) |
| Mercury | | | | 5.0 | 4.67 | 93.4 | 4.46 | 89.2 | CV |

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

USEPA - CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002

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) |
| Mercury | | | | 5.0 | 4.62 | 92.4 | 4.77 | 95.4 | CV |

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

USEPA - CLP FORMS

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002

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 | | | Final | |
| | | | | True | Found | %R | Found | %R |
| Aluminum | | | | 400.0 | 508.20 | 127.0 | 553.00 | 138.2 |
| Antimony | | | | 120.0 | 122.40 | 102.0 | 122.00 | 101.7 |
| Arsenic | | | | 20.0 | 18.61 | 93.0 | 19.99 | 100.0 |
| Barium | | | | 400.0 | 393.00 | 98.2 | 397.90 | 99.5 |
| Beryllium | | | | 10.0 | 10.11 | 101.1 | 10.16 | 101.6 |
| Cadmium | | | | 10.0 | 10.22 | 102.2 | 10.36 | 103.6 |
| Calcium | | | | 10000.0 | 10600.00 | 106.0 | 10660.00 | 106.6 |
| Chromium | | | | 20.0 | 21.24 | 106.2 | 21.99 | 110.0 |
| Cobalt | | | | 100.0 | 96.99 | 97.0 | 96.06 | 96.1 |
| Copper | | | | 50.0 | 50.95 | 101.9 | 52.68 | 105.4 |
| Iron | | | | 200.0 | 269.70 | 134.8 | 301.90 | 151.0 |
| Lead | | | | 6.0 | 5.94 | 99.0 | 6.61 | 110.2 |
| Magnesium | | | | 10000.0 | 10330.00 | 103.3 | 10340.00 | 103.4 |
| Manganese | | | | 30.0 | 27.76 | 92.5 | 28.16 | 93.9 |
| Nickel | | | | 80.0 | 82.53 | 103.2 | 81.12 | 101.4 |
| Potassium | | | | 10000.0 | 11890.00 | 118.9 | 11870.00 | 118.7 |
| Selenium | | | | 10.0 | 11.81 | 118.1 | 11.49 | 114.9 |
| Silver | | | | 20.0 | 21.55 | 107.8 | 21.33 | 106.6 |
| Sodium | | | | 10000.0 | 10200.00 | 102.0 | 10400.00 | 104.0 |
| Thallium | | | | 20.0 | 21.96 | 109.8 | 20.33 | 101.6 |
| Vanadium | | | | 100.0 | 99.00 | 99.0 | 99.35 | 99.4 |
| Zinc | | | | 40.0 | 40.40 | 101.0 | 40.93 | 102.3 |

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

USEPA - CLP FORMS

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002

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 | | Final | | |
| | | | | True | Found | %R | Found | %R |
| Mercury | 0.2 | 0.25 | 125.0 | | | | | |

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

USEPA - CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002

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) | | | | | | Preparation Blank | C | M |
|---------|--------------------------------------|---|--|---|------|---|------|---|----------------------|---|----|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Cyanide | 10.0 | U | 10.0 | U | 10.0 | U | 10.0 | U | 0.500 | U | AS |

USEPA - CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002

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) | | | | | | Preparation Blank | C | M |
|---------|--------------------------------------|---|--|---|---|---|---|---|----------------------|----|---|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Cyanide | | | 10.0 | U | | | | | | AS | |

USEPA - CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002Preparation Blank Matrix (soil/water): SOILPreparation Blank Concentration Units (ug/L or mg/kg): MG/KG

| Analyte | Initial Calib. Blank (ug/L) | C | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|-----------|--------------------------------------|---|--|---|-------|---|-------|---|----------------------|---|---|
| | | | 1 | C | 2 | C | 3 | C | C | | |
| Aluminum | 23.6 | U | 23.6 | U | 23.6 | U | 23.6 | U | 2.360 | U | P |
| Antimony | 4.7 | U | 4.7 | U | 4.7 | U | 4.7 | U | 0.470 | U | 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 | 0.020 | U | 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 | 1.4 | U | 1.4 | U | 1.4 | U | 1.4 | U | 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 | 33.3 | U | 4.560 | B | P |
| Lead | 1.3 | U | 1.3 | U | 1.3 | U | 1.3 | U | 0.252 | B | P |
| Magnesium | 178.3 | U | 178.3 | U | 178.3 | U | 178.3 | U | 17.830 | U | P |
| Manganese | -2.1 | B | -2.2 | B | -2.1 | B | -2.2 | B | -0.161 | B | P |
| Nickel | 2.1 | U | 2.1 | U | 2.1 | U | 2.1 | U | -0.296 | B | P |
| Potassium | 393.0 | U | 393.0 | U | 393.0 | U | 393.0 | U | 39.300 | U | P |
| Selenium | 3.4 | U | 3.4 | U | 3.4 | U | 3.4 | U | 0.340 | U | 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 | 113.000 | B | P |
| Thallium | 5.7 | U | 5.7 | U | 5.7 | U | 5.7 | U | 0.570 | U | 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 | 0.664 | B | P |

USEPA - CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | C | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|-----------|--------------------------------------|---|--|---|---|---|---|---|----------------------|--|---|
| | | | 1 | C | 2 | C | 3 | C | C | | |
| 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 | | | 1.4 | U | | | | | | | P |
| Cobalt | | | 2.0 | U | | | | | | | P |
| Copper | | | 2.4 | U | | | | | | | P |
| Iron | | | 33.3 | U | | | | | | | P |
| Lead | | | 1.3 | U | | | | | | | P |
| Magnesium | | | 178.3 | U | | | | | | | P |
| Manganese | | | -2.1 | B | | | | | | | P |
| Nickel | | | 2.1 | U | | | | | | | P |
| Potassium | | | 393.0 | U | | | | | | | P |
| Selenium | | | 3.4 | 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 FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002

Preparation Blank Matrix (soil/water): SOIL

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

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|---------|-----------------------------|---|-------------------------------------|---|-----|---|-----|---|-------------------|---|----|
| | 1 | C | 1 | C | 2 | C | 3 | C | C | C | |
| Mercury | 0.1 | B | 0.1 | U | 0.1 | U | 0.1 | U | 0.017 | U | CV |

USEPA - CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002

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) | | | | | | Preparation Blank | C | M |
|---------|--------------------------------------|---|--|---|-----|---|-----|---|----------------------|---|----|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Mercury | | | 0.1 | U | 0.1 | U | 0.1 | U | | | CV |

USEPA - CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002

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) | | | | | | Preparation Blank | C | M |
|---------|--------------------------------------|---|--|---|-----|---|---|---|----------------------|----|---|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Mercury | | | 0.1 | U | 0.1 | U | | | | CV | |

USEPA - CLP FORMS

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002ICP ID Number: TJA ICAP 4 ICS Source: Inorganic VenturesConcentration 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 | 491100 | 488300.0 | 101.2 | 490700 | 488200.0 | 101.1 |
| Antimony | 0 | 596 | -2 | 605.1 | 101.5 | -3 | 604.5 | 101.4 |
| Arsenic | 0 | 102 | 6 | 99.5 | 97.5 | 3 | 97.9 | 96.0 |
| Barium | 0 | 503 | 2 | 484.2 | 96.3 | 2 | 484.3 | 96.3 |
| Beryllium | 0 | 482 | 0 | 472.4 | 98.0 | 0 | 471.8 | 97.9 |
| Cadmium | 0 | 938 | -1 | 912.8 | 97.3 | -1 | 912.8 | 97.3 |
| Calcium | 500000 | 477840 | 486900 | 486300.0 | 101.8 | 486100 | 482800.0 | 101.0 |
| Chromium | 0 | 483 | 4 | 466.6 | 96.6 | 3 | 463.0 | 95.9 |
| Cobalt | 0 | 457 | 0 | 447.1 | 97.8 | 0 | 440.4 | 96.4 |
| Copper | 0 | 526 | 4 | 504.3 | 95.9 | 4 | 507.2 | 96.4 |
| Iron | 200000 | 191980 | 198300 | 195200.0 | 101.7 | 195900 | 193000.0 | 100.5 |
| Lead | 0 | 49 | 0 | 44.5 | 90.8 | 0 | 42.1 | 85.9 |
| Magnesium | 500000 | 521880 | 537500 | 537200.0 | 102.9 | 533600 | 532400.0 | 102.0 |
| Manganese | 0 | 474 | -2 | 457.9 | 96.6 | -1 | 456.4 | 96.3 |
| Nickel | 0 | 952 | 1 | 927.5 | 97.4 | 0 | 913.3 | 95.9 |
| Potassium | 0 | 0 | -45 | -42.6 | | -103 | -135.0 | |
| Selenium | 0 | 47 | -4 | 45.7 | 97.2 | -7 | 44.5 | 94.7 |
| Silver | 0 | 213 | 2 | 208.3 | 97.8 | 2 | 209.5 | 98.4 |
| Sodium | 0 | 0 | 128 | -49.6 | | -176 | 194.0 | |
| Thallium | 0 | 89 | 0 | 92.5 | 103.9 | -2 | 88.5 | 99.4 |
| Vanadium | 0 | 478 | 3 | 457.8 | 95.8 | 3 | 455.5 | 95.3 |
| Zinc | 0 | 998 | 3 | 988.0 | 99.0 | 5 | 983.7 | 98.6 |

USEPA - CLP FORMS

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002

Solid LCS Source: Environmental Express

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | |
|---------|----------------|-------|----|---------------|---------|--------|-------------|
| | True | Found | %R | True | Found C | Limits | %R |
| Cyanide | | | | 6.0 | 6.6 | 5.4 | 6.6 110.0 |

USEPA - CLP FORMS

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002

Solid LCS Source: Environmental Express

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | |
|---------|----------------|-------|----|---------------|---------|--------|-------------|
| | True | Found | %R | True | Found C | Limits | %R |
| Cyanide | | | | 6.0 | 6.6 | 5.4 | 6.6 110.0 |

USEPA - CLP FORMS

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002Solid LCS Source: Environmental Express

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | |
|-----------|----------------|-------|----|---------------|--------|-----------------|-------|
| | True | Found | %R | True | Found | Limits | %R |
| Aluminum | | | | 200.0 | 207.7 | 160.0 240.0 | 103.8 |
| Antimony | | | | 50.0 | 51.6 | 40.0 60.0 | 103.2 |
| Arsenic | | | | 24.0 | 23.0 | 19.2 28.8 | 95.8 |
| Barium | | | | 200.0 | 200.1 | 160.0 240.0 | 100.0 |
| Beryllium | | | | 5.0 | 5.1 | 4.0 6.0 | 102.0 |
| Cadmium | | | | 25.0 | 25.2 | 20.0 30.0 | 100.8 |
| Calcium | | | | 2000.0 | 2093.0 | 1600.0 2400.0 | 104.6 |
| Chromium | | | | 20.0 | 20.7 | 16.0 24.0 | 103.5 |
| Cobalt | | | | 50.0 | 49.8 | 40.0 60.0 | 99.6 |
| Copper | | | | 25.0 | 26.4 | 20.0 30.0 | 105.6 |
| Iron | | | | 100.0 | 108.8 | 80.0 120.0 | 108.8 |
| Lead | | | | 22.0 | 22.1 | 17.6 26.4 | 100.5 |
| Magnesium | | | | 2000.0 | 2018.0 | 1600.0 2400.0 | 100.9 |
| Manganese | | | | 50.0 | 51.0 | 40.0 60.0 | 102.0 |
| Nickel | | | | 50.0 | 49.7 | 40.0 60.0 | 99.4 |
| Potassium | | | | 2000.0 | 2023.0 | 1600.0 2400.0 | 101.2 |
| Selenium | | | | 21.0 | 19.2 | 16.8 25.2 | 91.4 |
| Silver | | | | 25.0 | 25.4 | 20.0 30.0 | 101.6 |
| Sodium | | | | 2000.0 | 2105.0 | 1600.0 2400.0 | 105.2 |
| Thallium | | | | 25.0 | 24.4 | 20.0 30.0 | 97.6 |
| Vanadium | | | | 50.0 | 51.4 | 40.0 60.0 | 102.8 |
| Zinc | | | | 50.0 | 50.4 | 40.0 60.0 | 100.8 |

USEPA - CLP FORMS

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002

Solid LCS Source: Environmental Express

Aqueous LCS Source: _____

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | |
|---------|----------------|-------|----|---------------|---------|--------|-------------|
| | True | Found | %R | True | Found C | Limits | %R |
| Mercury | | | | 0.1 | 0.1 | 0.1 | 0.1 100.0 |

USEPA - CLP FORMS

9
ICP SERIAL DILUTIONS

SAMPLE NO.

CLEABGPLT26L

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVT Case No.: 23046SAS No.: _____ SDG No.: GCV002Matrix (soil/water): TISSUELevel (low/med): LOW

Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | | Serial Dilution Result (S) | | % Difference | Q | M |
|-----------|---------------------------|---|----------------------------|---|--------------|---|---|
| | | C | | C | | | |
| Aluminum | 639.40 | | 668.30 | B | 4.5 | | P |
| Antimony | 4.70 | U | 23.50 | U | | | P |
| Arsenic | 4.80 | U | 24.00 | U | | | P |
| Barium | 1302.00 | | 1347.00 | | 3.5 | | P |
| Beryllium | 0.40 | B | 1.00 | U | 100.0 | | P |
| Cadmium | 0.60 | U | 3.00 | U | | | P |
| Calcium | 67400.00 | | 70870.00 | | 5.1 | | P |
| Chromium | 3.46 | B | 7.00 | U | 100.0 | | P |
| Cobalt | 2.00 | U | 10.00 | U | | | P |
| Copper | 22.31 | B | 25.82 | B | 15.7 | | P |
| Iron | 1082.00 | | 1148.00 | | 6.1 | | P |
| Lead | 5.04 | | 6.50 | U | 100.0 | | P |
| Magnesium | 18750.00 | | 20030.00 | B | 6.8 | | P |
| Manganese | 855.80 | | 885.70 | | 3.5 | | P |
| Nickel | 2.10 | U | 10.50 | U | | | P |
| Potassium | 74730.00 | | 96270.00 | | 28.8 | E | P |
| Selenium | 5.97 | | 17.00 | U | 100.0 | | P |
| Silver | 2.20 | U | 11.00 | U | | | P |
| Sodium | 1456.00 | B | 2363.50 | U | 100.0 | | P |
| Thallium | 5.70 | U | 28.50 | U | | | P |
| Vanadium | 2.18 | B | 10.00 | U | 100.0 | | P |
| Zinc | 57.23 | | 65.61 | B | 14.6 | E | P |

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002ICP ID Number: _____ Date: 07/01/03Flame AA ID Number: Lachat Cyanide

Furnace AA ID Number: _____

| Analyte | Wave-length (nm) | Back-ground | CRDL (ug/L) | IDL (ug/L) | M |
|---------|------------------|-------------|-------------|------------|----|
| Cyanide | | | 10 | 10.0 | AS |

Comments: _____

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002ICP ID Number: _____ Date: 07/01/03Flame 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: _____

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002ICP ID Number: TJA ICAP 4 Date: 07/01/03

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 |
| Selenium | 196.026 | | 5 | 3.4 | 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: _____

USEPA - CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002
 ICP ID Number: TJA ICAP 4 Date: 06/30/03

| 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: _____

USEPA - CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002
 ICP ID Number: TJA ICAP 4 Date: 06/30/03

| 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: _____

USEPA - CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002
 ICP ID Number: TJA ICAP 4 Date: 06/30/03

| 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: _____

ICP LINEAR RANGES (QUARTERLY)

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCV002ICP ID Number: TJA ICAP 4Date: 07/01/03

| 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 |
| Selenium | 10.00 | 5000.0 | 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 FORMS

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002Method: AS

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|-------------------|---------------------|----------------------|----------------|
| BLACADPLT11 | 08/05/03 | 1.14 | 50.0 |
| BLACWPPLT12 | 08/05/03 | 1.08 | 50.0 |
| CLEABGPLT25 | 08/05/03 | 1.01 | 50.0 |
| CLEABGPLT26 | 08/05/03 | 1.01 | 50.0 |
| EBLK | 08/05/03 | 1.01 | 50.0 |
| ICV | 08/05/03 | 50.0 | 50.0 |
| LCS0805A | 08/05/03 | 1.00 | 50.0 |
| LCSD0805A | 08/05/03 | 1.00 | 50.0 |
| PBS0805A | 08/05/03 | 1.00 | 50.0 |

USEPA - CLP FORMS

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002Method: CV

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|-------------------|---------------------|----------------------|----------------|
| BLACADPLT11 | 08/15/03 | 0.68 | 100.0 |
| BLACWPPLT12 | 08/15/03 | 0.65 | 100.0 |
| CLEABGPLT25 | 08/15/03 | 0.63 | 100.0 |
| CLEABGPLT26 | 08/15/03 | 0.65 | 100.0 |
| EBLK | 08/15/03 | 0.64 | 100.0 |
| LCSS0815G | 08/15/03 | 1.00 | 100.0 |
| PBS0815G | 08/15/03 | 0.60 | 100.0 |

USEPA - CLP FORMS

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002Method: P

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|-------------------|---------------------|----------------------|----------------|
| BLACADPLT11 | 08/14/03 | 1.01 | 100.0 |
| BLACWPPLT12 | 08/14/03 | 1.12 | 100.0 |
| CLEABGPLT25 | 08/14/03 | 1.03 | 100.0 |
| CLEABGPLT26 | 08/14/03 | 1.04 | 100.0 |
| EBLK | 08/14/03 | 1.00 | 100.0 |
| LCSS0814B | 08/14/03 | 1.00 | 100.0 |
| PBS0814B | 08/14/03 | 1.00 | 100.0 |

USEPA - CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002
 Instrument ID Number: Lachat Cyanide QC8000 Method: AS
 Start Date: 08/05/03 End Date: 08/05/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C F | F U | P E | M B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V L | Z N | C N | | | |
| S0 | 1.00 | 1404 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S10 | 1.00 | 1405 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S30 | 1.00 | 1406 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S50 | 1.00 | 1407 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S100 | 1.00 | 1408 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S200 | 1.00 | 1409 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S300 | 1.00 | 1410 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ICV | 1.00 | 1412 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ICB | 1.00 | 1413 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LRS | 1.00 | 1414 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LRS | 1.00 | 1415 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCV | 1.00 | 1416 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1417 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZ | 1.00 | 1418 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PBS0805A | 1.00 | 1419 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LCS0805A | 1.00 | 1420 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LCSD0805A | 1.00 | 1420 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZ | 1.00 | 1421 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1422 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1423 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1424 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1425 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1426 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1427 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1428 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZ | 1.00 | 1429 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1430 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1431 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1432 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1433 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1434 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1435 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 1436 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLEABGPLT26 | 1.00 | 1437 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CLEABGPLT25 | 1.00 | 1438 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCV | 1.00 | 1439 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1440 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLACADPLT11 | 1.00 | 1441 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |

USEPA - CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002
 Instrument ID Number: Lachat Cyanide QC8000 Method: AS
 Start Date: 08/05/03 End Date: 08/05/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|---|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V L | Z N | C N | | | | |
| BLACWPPLT12 | 1.00 | 1442 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| EBLK | 1.00 | 1443 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCV | 1.00 | 1444 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1445 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |

USEPA - CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002
 Instrument ID Number: TJA ICAP 4 Method: P
 Start Date: 09/04/03 End Date: 09/04/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|-------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S G | A A | N L | T L | V N | Z N | C N |
| S0 | 1.00 | 1210 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| S | 1.00 | 1215 | | X | | | | | X | | | | X | X | | | | X | | | X | | | | | | |
| S | 1.00 | 1219 | | | X | X | | | | | | | X | | | | | | X | | | X | | | | | |
| S | 1.00 | 1223 | | | | X | X | X | | X | X | X | | | X | X | X | | X | | X | | | X | X | | |
| LRS | 1.00 | 1228 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| LRS | 1.00 | 1233 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| LRS | 1.00 | 1238 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| ICV | 1.00 | 1244 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| ICB | 1.00 | 1249 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| ICSA | 1.00 | 1254 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| ICSAB | 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 | X | X |
| CRI | 1.00 | 1304 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCV | 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 | X | X |
| CCB | 1.00 | 1314 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| PBS0814B | 1.00 | 1319 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| LCSS0814B | 1.00 | 1325 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CLEABGPLT26 | 1.00 | 1330 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CLEABGPLT26L | 5.00 | 1335 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CLEABGPLT25 | 1.00 | 1340 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| BLACADPLT11 | 1.00 | 1345 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| BLACWPPLT12 | 1.00 | 1350 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| EBLK | 1.00 | 1355 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| ZZZZZZ | 10.00 | 1400 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 50.00 | 1405 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 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 | X | X |
| CCB | 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 | X | X |
| ZZZZZZ | 10.00 | 1420 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1425 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1430 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1435 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 5.00 | 1440 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 10.00 | 1445 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 50.00 | 1450 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1455 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1500 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1505 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1510 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCB | 1.00 | 1516 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |

USEPA - CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002
 Instrument ID Number: TJA ICAP 4 Method: P
 Start Date: 09/04/03 End Date: 09/04/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S G | A A | N L | T L | V N | Z N | C N |
| ZZZZZZ | 1.00 | 1521 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1526 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1531 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ICSA | 1.00 | 1536 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| ICSAB | 1.00 | 1541 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CRI | 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 | X | X |
| CCV | 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 | X | X |
| CCB | 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 | X | X |

USEPA - CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCV002
 Instrument ID Number: Leeman Hydra AA Method: CV
 Start Date: 08/19/03 End Date: 08/19/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V L | Z N | C N | | | | |
| ZZZZZZ | 1.00 | 1606 | .. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1608 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1609 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1611 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1613 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| CCB | 1.00 | 1614 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1616 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1618 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1619 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1621 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1623 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1625 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1626 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1628 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1630 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1632 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| CCB | 1.00 | 1633 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1635 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1637 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PBS0815G | 1.00 | 1639 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| LCSS0815G | 1.00 | 1641 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1643 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1645 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1647 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1649 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1650 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1652 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| CCB | 1.00 | 1654 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1656 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1657 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1659 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1701 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1703 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1705 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1707 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLEABGPLT26 | 1.00 | 1709 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| CLEABGPLT25 | 1.00 | 1711 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| CCV | 1.00 | 1713 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |

**STL Burlington
Colchester, Vermont**

**Sample Data Summary
Package**

SDG: GCW005

September 11, 2003

Ms. Jennifer Kindred
EA Engineering
12011 Bellevue-Redmond Rd.
Suite 200
Bellevue, WA 98005

Re: Laboratory Project No. 23046
Case No. 23046; SDG: GCW005

Dear Ms. Kindred:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on July 24, 2003. Laboratory numbers have been assigned and designated as follows:

| <u>Lab ID</u> | <u>Client Sample ID</u> | <u>Sample Date</u> | <u>Sample Matrix</u> |
|----------------------------------|-----------------------------|------------------------|--------------------------|
| Received: 07/24/03 ETR No: 94983 | | | |
| 535725 | BLUEPDSFW16 | 07/22/03 | Water |
| 535726 | BLACPDSFW41 | 07/22/03 | Water |
| 535727 | BLUEPDSFW18 | 07/22/03 | Water |
| 535728 | BLACSTSF04 | 07/22/03 | Water |
| 535729 | BLUEPOSFW17 | 07/22/03 | Water |
| 535730 | BLACSTSF02 | 07/22/03 | Water |
| 535731 | BLACSTSF02 | 07/22/03 | Water |
| 535732 | BLACSTSF03 | 07/22/03 | Water |
| 535733 | BLACPDSFW10 | 07/22/03 | Water |
| 535734 | BLUEADSF04 | 07/20/03 | Water |
| 535735 | BLACPDSFW15 | 07/22/03 | Water |
| 535736 | BLACSTPWR02 | 07/22/03 | Water |
| 535737 | BLACSTPWR03 | 07/22/03 | Water |
| 535738 | BLACSTSF03 | 07/22/03 | Water |
| 535739 | BLACSTSF02 | 07/22/03 | Water |
| 535740 | BLACSTPWP03 | 07/22/03 | Water |

Due to reporting software limitations, sample identifications may have been truncated. In most instances only punctuation was removed.

Documentation that identifies the condition of the samples at the time of sample receipt and the issues arising at the time of sample log-in is included in the Sample Handling section of this submittal.

This narrative identifies anomalies that occurred during the analyses of samples in this delivery group. If there is no description following regarding a certain methodology requested on the

chain-of-custody record, then there were no exceptions to the laboratory quality control criteria noted during that analysis.

Solids by 160.xx

During the analysis for total suspended solids and total volatile solids, the entire sample aliquot was exhausted for the following samples: BLUEPDSFW16, BLACPDSFW41, BLUEPDSFW18, BLACSTSF04, BLACSTSF02, BLACSTSF03, and BLUEADSF04. The filtrate from this analysis was inadvertently discarded prior to dissolved solids determinations and no additional aliquot remained for a second filtration.

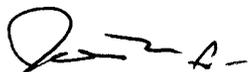
The analysis for arsenic speciation was performed by STL's North Canton facility, as approved by EA Engineering. STL North Canton assigned "Lot" numbers as samples were received. Though laboratory numbers may differ, the client's sample identifications were maintained. The results for this delivery group including a case narrative prepared by the North Canton laboratory are attached to the extended data package.

If there are any questions regarding this submittal, please contact Jeannine McCrumb at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 0001 and ending with page 2038.

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. The release of the data contained in this hardcopy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,



Michael F. Wheeler, Ph.D.
Laboratory Director

Enclosure
MFW/jtd/jmm

0001 B last alpha

Water

~~10/29~~

CHAIN OF CUSTODY RECORD

Report to: _____
 Company: EA Engineering
 Address: 12011 Bell-Red Rd Suite 210
Bellewa WA 98005
 Contact: Jen Kindred
 Phone: 425-451-7400
 Fax: 425-451-7800
 Contract/Quote: _____

Invoice to: _____
 Company: Same
 Address: _____
 Contact: _____
 Phone: _____
 Fax: _____

Sampler's Name: Don Norman
 Sampler's Signature: [Signature]

| Matrix | Date | Time | Identifying Marks of Samples | | | No./Type of Containers | | | ANALYSIS REQUESTED | Lab/Use Only Due Date: |
|--------|------|------|------------------------------|-------|------|------------------------|-----------|--------|--------------------|------------------------|
| | | | C o m p | G i d | Time | VOA | A/G 1 Lt. | 250 ml | | |
| W | 7-22 | 1615 | X | | | | | | | |
| W | 7-22 | 1635 | X | | | | | | | |
| W | " | 1630 | X | | | | | | | |
| W | " | 1635 | X | | | | | | | |
| W | " | 1645 | X | | | | | | | |
| W | " | 1700 | X | | | | | | | |
| W | " | 1706 | X | | | | | | | |
| W | " | 1700 | X | | | | | | | |
| W | " | 1720 | X | | | | | | | |
| W | 7/20 | 1600 | X | | | | | | | |

Relinquished by: (Signature) [Signature] Date 7/23/03 Time 0900
 Received by: (Signature) _____ Date _____ Time _____

Relinquished by: (Signature) _____ Date _____ Time _____
 Received by: (Signature) _____ Date _____ Time _____

Relinquished by: (Signature) _____ Date _____ Time _____
 Received by: (Signature) _____ Date _____ Time _____

Remarks: * Should be done first - oldest sample - to be done by Friday!

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

Matrix: WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge
 Container: VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other

STL cannot accept verbal changes to (802) 655-1248



**Sample Data Summary Package
For Wet Chemistry**

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUEPDSFW16

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW005

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535725

Matrix: WATER

Client: EASEAT

Date Received: 07/24/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|---------------------------|---------------------|------------------|-------|----|------|-------|-------|
| 160.2 | Total Suspended Solids | 07/26/03 | BLKSS0726A | mg/L | 1 | 0.50 | 2.1 | |
| 160.4 | Volatile Suspended Solids | 07/26/03 | | mg/L | 1 | 5.0 | 5.0 | U |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACPDSFW41

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW005

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535726

Matrix: WATER

Client: EASEAT

Date Received: 07/24/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|---------------------------|---------------------|------------------|-------|----|------|-------|-------|
| 160.2 | Total Suspended Solids | 07/26/03 | BLKSS0726A | mg/L | 1 | 0.50 | 8.3 | |
| 160.4 | Volatile Suspended Solids | 07/26/03 | | mg/L | 1 | 5.0 | 5.0 | U |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUEPDSFW18

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW005

Lab Code: STLV

Case No.: 23046

Lab Sample ID: 535727

Matrix: WATER

Client: EASEAT

Date Received: 07/24/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|---------------------------|---------------------|------------------|-------|----|------|-------|-------|
| 160.2 | Total Suspended Solids | 07/26/03 | BLKSS0726A | mg/L | 1 | 0.50 | 20.3 | |
| 160.4 | Volatile Suspended Solids | 07/26/03 | | mg/L | 1 | 5.0 | 5.0 | U |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTSFW04

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW005

Lab Code: STLV

Case No.: 23046

Lab Sample ID: 535728

Matrix: WATER

Client: EASEAT

Date Received: 07/24/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|---------------------------|---------------------|------------------|-------|----|------|-------|-------|
| 160.2 | Total Suspended Solids | 07/26/03 | BLKSS0726A | mg/L | 1 | 0.50 | 1.7 | |
| 160.4 | Volatile Suspended Solids | 07/26/03 | | mg/L | 1 | 5.0 | 5.0 | U |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUEPOSFW17

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW005

Lab Code: STLV

Case No.: 23046

Lab Sample ID: 535729

Matrix: WATER

Client: EASEAT

Date Received: 07/24/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|---------------------------|---------------------|------------------|-------|----|-----|-------|-------|
| 160.1 | Total Dissolved Solids | 07/28/03 | BLKDS0728B | mg/L | 1 | 5.0 | 98.0 | |
| 160.2 | Total Suspended Solids | 07/26/03 | BLKSS0726A | mg/L | 5 | 2.5 | 59.0 | |
| 160.4 | Volatile Suspended Solids | 07/26/03 | | mg/L | 1 | 5.0 | 7.5 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTSF42

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW005

Lab Code: STLV

Case No.: 23046

Lab Sample ID: 535730

Matrix: WATER

Client: EASEAT

Date Received: 07/24/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|---------------------------|---------------------|------------------|-------|----|------|-------|-------|
| 160.2 | Total Suspended Solids | 07/26/03 | BLKSS0726A | mg/L | 1 | 0.50 | 1.7 | |
| 160.4 | Volatile Suspended Solids | 07/26/03 | | mg/L | 1 | 5.0 | 5.0 | U |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTSF02

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW005

Lab Code: STLV

Case No.: 23046

Lab Sample ID: 535731

Matrix: WATER

Client: EASEAT

Date Received: 07/24/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|---------------------------|---------------------|------------------|-------|----|------|-------|-------|
| 160.2 | Total Suspended Solids | 07/26/03 | BLKSS0726A | mg/L | 1 | 0.50 | 1.3 | |
| 160.4 | Volatile Suspended Solids | 07/26/03 | | mg/L | 1 | 5.0 | 5.0 | U |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTSFW03

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW005

Lab Code: STLV

Case No.: 23046

Lab Sample ID: 535732

Matrix: WATER

Client: EASEAT

Date Received: 07/24/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|---------------------------|---------------------|------------------|-------|----|------|-------|-------|
| 160.2 | Total Suspended Solids | 07/26/03 | BLKSS0726A | mg/L | 1 | 0.50 | 1.2 | |
| 160.4 | Volatile Suspended Solids | 07/26/03 | | mg/L | 1 | 5.0 | 5.0 | U |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACPDSFW10

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW005

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535733

Matrix: WATER

Client: EASEAT

Date Received: 07/24/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|---------------------------|---------------------|------------------|-------|----|-----|-------|-------|
| 160.1 | Total Dissolved Solids | 07/28/03 | BLKDS0728B | mg/L | 1 | 5.0 | 146 | |
| 160.2 | Total Suspended Solids | 07/26/03 | BLKSS0726A | mg/L | 2 | 1.0 | 26.2 | |
| 160.4 | Volatile Suspended Solids | 07/26/03 | | mg/L | 1 | 5.0 | 5.0 | U |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUEADSF40

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW005

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535734

Matrix: WATER

Client: EASEAT

Date Received: 07/24/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|---------------------------|---------------------|------------------|-------|----|------|-------|-------|
| 160.2 | Total Suspended Solids | 07/26/03 | BLKSS0726A | mg/L | 1 | 0.50 | 16.3 | |
| 160.4 | Volatile Suspended Solids | 07/26/03 | | mg/L | 1 | 5.0 | 5.0 | U |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACPDSFW15

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW005

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535735

Matrix: WATER

Client: EASEAT

Date Received: 07/24/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|---------------------------|---------------------|------------------|-------|----|-----|-------|-------|
| 160.1 | Total Dissolved Solids | 07/28/03 | BLKDS0728B | mg/L | 1 | 5.0 | 147 | |
| 160.2 | Total Suspended Solids | 07/26/03 | BLKSS0726A | mg/L | 2 | 1.0 | 19.0 | |
| 160.4 | Volatile Suspended Solids | 07/26/03 | | mg/L | 1 | 5.0 | 5.0 | U |

WET CHEMISTRY

Method Blank Report Summary

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW005

Lab Code: STLVT

Case No.: 23046

Matrix: WATER

Client: EASEAT

% Solids:

| Lab Sample ID | Method | Parameter | Conc. | Units | Qual. | DF | RL | Analytical Run Date | Analytical Batch |
|---------------|--------|------------------------|-------|-------|-------|----|------|---------------------|------------------|
| BLKDS0728B | 160.1 | Total Dissolved Solids | 5.0 | mg/L | U | 1 | 5.0 | 07/28/03 | BLKDS0728B |
| BLKSS0726A | 160.2 | Total Suspended Solids | 0.50 | mg/L | U | 1 | 0.50 | 07/26/03 | BLKSS0726A |

WET CHEMISTRY

Laboratory Control Sample Report Summary

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW005

Lab Code: STLV

Case No.: 23046

Matrix: WATER

Client: EASEAT

% Solids:

| Lab Sample ID | Method | Parameter | Analytical Run Date | Analytical Batch | Units | LCS Conc. | True Value | % Recovery* |
|---------------|--------|------------------------|---------------------|------------------|-------|-----------|------------|-------------|
| LCS DS0728B | 160.1 | Total Dissolved Solids | 07/28/03 | BLKDS0728B | mg/L | 51.0 | 50.0 | 102.0 |
| LCSS0726A | 160.2 | Total Suspended Solids | 07/26/03 | BLKSS0726A | mg/L | 504 | 500 | 100.8 |

* Control Limit for Percent Recovery is 80-120%, unless otherwise specified.

**STL Burlington
Colchester, Vermont**

**Sample Data Summary
Package**

SDG: GCW006

September 11, 2003

Ms. Jennifer Kindred
EA Engineering
12011 Bellevue-Redmond Rd.
Suite 200
Bellevue, WA 98005

Re: Laboratory Project No. 23046
Case No. 23046; SDG: GCW006

Dear Ms. Kindred:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on July 24, 2003. Laboratory numbers have been assigned and designated as follows:

| <u>Lab ID</u> | <u>Client Sample ID</u> | <u>Sample Date</u> | <u>Sample Matrix</u> |
|----------------------------------|-----------------------------|------------------------|--------------------------|
| Received: 07/24/03 ETR No: 94996 | | | |
| 535754 | BLUESTSFW05 | 07/21/03 | Water |
| 535755 | BLUESTSFW05F | 07/21/03 | Water |
| 535756 | BLUESTSFW05100 | 07/21/03 | Water |
| 535757 | BLUESTSFW05100F | 07/21/03 | Water |
| 535758 | BLUESTPWR05 | 07/21/03 | Water |
| 535759 | BLUESTPWR05F | 07/21/03 | Water |
| 535760 | BLUESTPWP05 | 07/21/03 | Water |
| 535761 | BLUESTPWP05F | 07/21/03 | Water |
| 535762 | BLUESTSFW06 | 07/21/03 | Water |
| 535763 | BLUESTSFW06F | 07/21/03 | Water |
| 535764 | BLUESTPWP06 | 07/21/03 | Water |
| 535765 | BLUESTPWP06F | 07/21/03 | Water |
| 535766 | BLUESTPWR06 | 07/21/03 | Water |
| 535767 | BLUESTPWR06F | 07/21/03 | Water |
| 535768 | BLUESTSFW07 | 07/20/03 | Water |
| 535769 | BLUESTSFW07F | 07/20/03 | Water |
| 535770 | BLUESTSFW08 | 07/20/03 | Water |
| 535771 | BLUESTSFW08F | 07/20/03 | Water |
| 535772 | BLUESTPWP07 | 07/20/03 | Water |
| 535773 | BLUESTPWP07F | 07/20/03 | Water |

Due to reporting software limitations, sample identifications may have been truncated. In most instances only punctuation was removed.

Severn Trent Laboratories, Inc.

STL Burlington • 208 South Park Drive, Suite 1, Colchester, VT 05446
Tel 802 655 1203 Fax 802 655 1248 • www.stl-inc.com

0001-A

Documentation that identifies the condition of the samples at the time of sample receipt and the issues arising at the time of sample log-in is included in the Sample Handling section of this submittal.

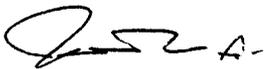
The analysis for arsenic speciation was performed by STL's North Canton facility, as approved by EA Engineering. STL North Canton assigned "Lot" numbers as samples were received. Though laboratory numbers may differ, the client's sample identifications were maintained. The results for this delivery group including a case narrative prepared by the North Canton laboratory are attached to the extended data package.

There were no exceptions to quality control criteria noted during the analysis of samples in this delivery group. If there are any questions regarding this submittal, please contact Jeannine McCrumb at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 0001 and ending with page 0421.

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. The release of the data contained in this hardcopy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,



Michael F. Wheeler, Ph.D.
Laboratory Director

Enclosure
MFW/jtw/jmm

0001-B Last Alpha

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Water

20 of 4

| | | | |
|---|--|-----------------|--|
| Report to: | | Invoice to: | |
| Company: EA Engineering | | Company: SUMER | |
| Address: 12011 Bel-Red Rd Suite Bellevue, WA 98005 200 | | Address: | |
| Contact: Jon Kindred | | Contact: | |
| Phone: 425-451-7400 | | Phone: | |
| Fax: 425-451-7800 | | Fax: | |
| Contract/Quote: | | Contract/Quote: | |

Sampler's Name: Marty Sreen
Sampler's Signature: M Sreen

| Matrix | Date | Time | Project Name | Identifying Marks of Sample(s) | No./Type of Containers | | | ANALYSIS REQUESTED |
|-----------|---------|-------|-------------------------|--------------------------------|------------------------|----------|------------|--|
| | | | | | VOA | A/G 1Lt. | 250 ml P/O | |
| 13890, 16 | | | Gravite Creek watershed | | | | | |
| W | 7/26/03 | 11:20 | | BLUE-ST-SFW-05 (100) | 3 | 1 | 2 | X Cyanide TAL Metals - dissolved TAL Metals - Total pH, redox, SO ₄ , Spec Cond., TSS/TDS Ar Speciation |
| W | 7/26/03 | 13:26 | | BLUE-ST-PWR-05 | | 1 | 2 | X |
| W | 7/26/03 | 11:15 | | BLUE-ST-SFW-05 | 3 | 1 | 2 | X |
| W | 7/26/03 | 13:03 | | BLUE-ST-PWR-05 | | 1 | 2 | X |
| W | 7/26/03 | 11:45 | | BLUE-ST-SFW-06 | 3 | 1 | 2 | X |
| W | 7/26/03 | 11:30 | | BLUE-ST-PWR-06 | | 1 | 2 | X |
| W | 7/26/03 | 11:00 | | BLUE-ST-PWR-06 | | 1 | 2 | X |
| W | 7/26/03 | 18:5 | | BLUE-ST-SFW-07 | 3 | 1 | 2 | X |
| W | 7/26/03 | 16:00 | | BLUE-ST-SFW-08 | 3 | 1 | 2 | X |
| W | 7/29/03 | 14:19 | | BLUE-ST-PWR-01 | | 1 | 2 | X |

| | | | | | |
|--|------------------------|---------------------|--|------------------------|---------------------|
| Relinquished by: (Signature) <u>Marty Sreen</u> | Date <u>7/23/03</u> | Time <u>0900</u> | Received by: (Signature) <u>[Signature]</u> | Date <u>7/27/03</u> | Time <u>0930</u> |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |

Matrix: WW - Wastewater
VOA - 40 ml vial
W - Water
A/G - Amber / Or Glass 1 Liter
S - Soil
L - Liquid
A - Air bag
C - Charcoal Tube
SL - Sludge
O - Oil
250 ml - Glass wide mouth
P/O - Plastic or other
500 mL
0 - Oil

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

STL cannot accept verbal changes.
Please Fax written changes to
(802) 655-1248



**Sample Data Summary Package
For Wet Chemistry**

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUESTSFW05

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW006

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535754

Matrix: WATER

Client: EASEAT

Date Received: 07/24/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|---------------------------|---------------------|------------------|----------|----|-------|-------|-------|
| 120.1 | Conductivity (umhos/cm) | 08/12/03 | | umhos/cm | 1 | 0.000 | 112 | |
| 130.2 | Total Hardness as CaCO3 | 08/11/03 | BLKHA0811A | mg/L | 1 | 2.0 | 96.0 | |
| 160.1 | Total Dissolved Solids | 07/27/03 | BLKDS0727A | mg/L | 1 | 5.0 | 442 | |
| 160.2 | Total Suspended Solids | 07/26/03 | BLKSS0726A | mg/L | 1 | 0.50 | 1.0 | |
| 160.4 | Volatile Suspended Solids | 07/26/03 | | mg/L | 1 | 5.0 | 5.0 | U |
| 310.1 | Hydroxide Alkalinity | 07/29/03 | BLKAL0729A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Carbonate Alkalinity | 07/29/03 | BLKAL0729A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Bicarbonate Alkalinity | 07/29/03 | BLKAL0729A | mg/L | 1 | 1.0 | 59.2 | |
| 310.1 | Total Alkalinity | 07/29/03 | BLKAL0729A | mg/L | 1 | 1.0 | 59.2 | |
| 375.4 | Sulfate | 08/12/03 | BLKSU0812A | mg/L | 1 | 5.0 | 7.8 | |
| 9040B | Corrosivity by pH | 07/26/03 | | pH Units | 1 | 0.000 | 7.7 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUESTSFW05100

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW006

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535756

Matrix: WATER

Client: EASEAT

Date Received: 07/24/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|---------------------------|---------------------|------------------|----------|----|-------|-------|-------|
| 120.1 | Conductivity (umhos/cm) | 08/12/03 | | umhos/cm | 1 | 0.000 | 113 | |
| 130.2 | Total Hardness as CaCO3 | 08/11/03 | BLKHA0811A | mg/L | 1 | 2.0 | 108 | |
| 160.1 | Total Dissolved Solids | 07/27/03 | BLKDS0727B | mg/L | 1 | 5.0 | 80.0 | |
| 160.2 | Total Suspended Solids | 07/26/03 | BLKSS0726A | mg/L | 1 | 0.50 | 1.7 | |
| 160.4 | Volatile Suspended Solids | 07/26/03 | | mg/L | 1 | 5.0 | 5.0 | U |
| 310.1 | Hydroxide Alkalinity | 07/29/03 | BLKAL0729A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Carbonate Alkalinity | 07/29/03 | BLKAL0729A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Bicarbonate Alkalinity | 07/29/03 | BLKAL0729A | mg/L | 1 | 1.0 | 59.7 | |
| 310.1 | Total Alkalinity | 07/29/03 | BLKAL0729A | mg/L | 1 | 1.0 | 59.7 | |
| 375.4 | Sulfate | 08/12/03 | BLKSU0812A | mg/L | 1 | 5.0 | 7.7 | |
| 9040B | Corrosivity by pH | 07/26/03 | | pH Units | 1 | 0.000 | 7.9 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUESTSFW06

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW006

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535762

Matrix: WATER

Client: EASEAT

Date Received: 07/24/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|---------------------------|---------------------|------------------|----------|----|-------|-------|-------|
| 120.1 | Conductivity (umhos/cm) | 08/12/03 | | umhos/cm | 1 | 0.000 | 115 | |
| 130.2 | Total Hardness as CaCO3 | 08/11/03 | BLKHA0811A | mg/L | 1 | 2.0 | 96.0 | |
| 160.1 | Total Dissolved Solids | 07/27/03 | BLKDS0727B | mg/L | 1 | 5.0 | 77.0 | |
| 160.2 | Total Suspended Solids | 07/26/03 | BLKSS0726A | mg/L | 1 | 0.50 | 2.4 | |
| 160.4 | Volatile Suspended Solids | 07/26/03 | | mg/L | 1 | 5.0 | 5.0 | U |
| 310.1 | Hydroxide Alkalinity | 07/29/03 | BLKAL0729A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Carbonate Alkalinity | 07/29/03 | BLKAL0729A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Bicarbonate Alkalinity | 07/29/03 | BLKAL0729A | mg/L | 1 | 1.0 | 59.5 | |
| 310.1 | Total Alkalinity | 07/29/03 | BLKAL0729A | mg/L | 1 | 1.0 | 59.5 | |
| 375.4 | Sulfate | 08/12/03 | BLKSU0812A | mg/L | 1 | 5.0 | 5.0 | U |
| 9040B | Corrosivity by pH | 07/26/03 | | pH Units | 1 | 0.000 | 8.0 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUESTSFW07

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW006

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535768

Matrix: WATER

Client: EASEAT

Date Received: 07/24/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|---------------------------|---------------------|------------------|----------|----|-------|-------|-------|
| 120.1 | Conductivity (umhos/cm) | 08/12/03 | | umhos/cm | 1 | 0.000 | 116 | |
| 130.2 | Total Hardness as CaCO3 | 08/11/03 | BLKHA0811A | mg/L | 1 | 2.0 | 144 | |
| 160.1 | Total Dissolved Solids | 07/27/03 | BLKDS0727B | mg/L | 1 | 5.0 | 74.0 | |
| 160.2 | Total Suspended Solids | 07/26/03 | BLKSS0726A | mg/L | 1 | 0.50 | 1.0 | |
| 160.4 | Volatile Suspended Solids | 07/26/03 | | mg/L | 1 | 5.0 | 5.0 | U |
| 310.1 | Hydroxide Alkalinity | 07/29/03 | BLKAL0729A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Carbonate Alkalinity | 07/29/03 | BLKAL0729A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Bicarbonate Alkalinity | 07/29/03 | BLKAL0729A | mg/L | 1 | 1.0 | 59.9 | |
| 310.1 | Total Alkalinity | 07/29/03 | BLKAL0729A | mg/L | 1 | 1.0 | 59.9 | |
| 375.4 | Sulfate | 08/12/03 | BLKSU0812A | mg/L | 1 | 5.0 | 8.3 | |
| 9040B | Corrosivity by pH | 07/26/03 | | pH Units | 1 | 0.000 | 8.0 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUESTSFW08

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW006

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535770

Matrix: WATER

Client: EASEAT

Date Received: 07/24/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|---------------------------|---------------------|------------------|----------|----|-------|-------|-------|
| 120.1 | Conductivity (umhos/cm) | 08/12/03 | | umhos/cm | 1 | 0.000 | 116 | |
| 130.2 | Total Hardness as CaCO3 | 08/11/03 | BLKHA0811A | mg/L | 1 | 2.0 | 100 | |
| 160.1 | Total Dissolved Solids | 07/27/03 | BLKDS0727B | mg/L | 1 | 5.0 | 90.0 | |
| 160.2 | Total Suspended Solids | 07/26/03 | BLKSS0726A | mg/L | 1 | 0.50 | 1.6 | |
| 160.4 | Volatile Suspended Solids | 07/26/03 | | mg/L | 1 | 5.0 | 5.0 | U |
| 310.1 | Hydroxide Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Carbonate Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Bicarbonate Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 1 | 1.0 | 58.7 | |
| 310.1 | Total Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 1 | 1.0 | 58.7 | |
| 375.4 | Sulfate | 08/12/03 | BLKSU0812A | mg/L | 1 | 5.0 | 8.2 | |
| 9040B | Corrosivity by pH | 07/26/03 | | pH Units | 1 | 0.000 | 8.2 | |

WET CHEMISTRY

Method Blank Report Summary

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW006

Lab Code: STLVT

Case No.: 23046

Matrix: WATER

Client: EASEAT

% Solids:

| Lab Sample ID | Method | Parameter | Conc. | Units | Qual. | DF | RL | Analytical Run Date | Analytical Batch |
|---------------|--------|-------------------------------------|-------|-------|-------|----|------|---------------------|------------------|
| BLKAL0729A | 310.1 | Hydroxide Alkalinity | 1.0 | mg/L | U | 1 | 1.0 | 07/29/03 | BLKAL0729A |
| BLKAL0729A | 310.1 | Carbonate Alkalinity | 1.0 | mg/L | U | 1 | 1.0 | 07/29/03 | BLKAL0729A |
| BLKAL0729A | 310.1 | Bicarbonate Alkalinity | 1.0 | mg/L | U | 1 | 1.0 | 07/29/03 | BLKAL0729A |
| BLKAL0729A | 310.1 | Total Alkalinity | 1.0 | mg/L | U | 1 | 1.0 | 07/29/03 | BLKAL0729A |
| BLKAL0730A | 310.1 | Hydroxide Alkalinity | 1.0 | mg/L | U | 1 | 1.0 | 07/30/03 | BLKAL0730A |
| BLKAL0730A | 310.1 | Carbonate Alkalinity | 1.0 | mg/L | U | 1 | 1.0 | 07/30/03 | BLKAL0730A |
| BLKAL0730A | 310.1 | Bicarbonate Alkalinity | 1.0 | mg/L | U | 1 | 1.0 | 07/30/03 | BLKAL0730A |
| BLKAL0730A | 310.1 | Total Alkalinity | 1.0 | mg/L | U | 1 | 1.0 | 07/30/03 | BLKAL0730A |
| BLKDS0727A | 160.1 | Total Dissolved Solids | 5.0 | mg/L | U | 1 | 5.0 | 07/27/03 | BLKDS0727A |
| BLKDS0727B | 160.1 | Total Dissolved Solids | 5.0 | mg/L | U | 1 | 5.0 | 07/27/03 | BLKDS0727B |
| BLKHA0811A | 130.2 | Total Hardness as CaCO ₃ | 2.0 | mg/L | U | 1 | 2.0 | 08/11/03 | BLKHA0811A |
| BLKSS0726A | 160.2 | Total Suspended Solids | 0.50 | mg/L | U | 1 | 0.50 | 07/26/03 | BLKSS0726A |
| BLKSU0812A | 375.4 | Sulfate | 5.0 | mg/L | U | 1 | 5.0 | 08/12/03 | BLKSU0812A |

WET CHEMISTRY

Laboratory Control Sample Report Summary

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW006

Lab Code: STLVT

Case No.: 23046

Matrix: WATER

Client: EASEAT

% Solids:

| Lab Sample ID | Method | Parameter | Analytical Run Date | Analytical Batch | Units | LCS Conc. | True Value | % Recovery* |
|---------------|--------|-------------------------|---------------------|------------------|----------|-----------|------------|-------------|
| LCS DS0727A | 160.1 | Total Dissolved Solids | 07/27/03 | BLKDS0727A | mg/L | 50.0 | 50.0 | 100.0 |
| LCS DS0727B | 160.1 | Total Dissolved Solids | 07/27/03 | BLKDS0727B | mg/L | 49.0 | 50.0 | 98.0 |
| LCSAL0729A | 310.1 | Hydroxide Alkalinity | 07/29/03 | BLKAL0729A | mg/L | 57.2 | 54.7000 | 104.5 |
| LCSAL0729A | 310.1 | Carbonate Alkalinity | 07/29/03 | BLKAL0729A | mg/L | 57.2 | 54.7000 | 104.5 |
| LCSAL0729A | 310.1 | Bicarbonate Alkalinity | 07/29/03 | BLKAL0729A | mg/L | 57.2 | 54.7000 | 104.5 |
| LCSAL0729A | 310.1 | Total Alkalinity | 07/29/03 | BLKAL0729A | mg/L | 57.2 | 54.7000 | 104.5 |
| LCSAL0730A | 310.1 | Hydroxide Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 59.0 | 54.7000 | 107.8 |
| LCSAL0730A | 310.1 | Carbonate Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 59.0 | 54.7000 | 107.8 |
| LCSAL0730A | 310.1 | Bicarbonate Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 59.0 | 54.7000 | 107.8 |
| LCSAL0730A | 310.1 | Total Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 59.0 | 54.7000 | 107.8 |
| LCSCD0812A | 120.1 | Conductivity (umhos/cm) | 08/12/03 | | umhos/c | 1000 | 997.0000 | 100.3 |
| LCSHA0811A | 130.2 | Total Hardness as CaCO3 | 08/11/03 | BLKHA0811A | mg/L | 124 | 121.0000 | 102.5 |
| LCSPH0726A | 9040B | Corrosivity by pH | 07/26/03 | | pH Units | 6.0 | 6.0000 | 100.5 |
| LCSSS0726A | 160.2 | Total Suspended Solids | 07/26/03 | BLKSS0726A | mg/L | 504 | 500 | 100.8 |
| LCSSU0812A | 375.4 | Sulfate | 08/12/03 | BLKSU0812A | mg/L | 9.5 | 10.0 | 95.0 |

* Control Limit for Percent Recovery is 80-120%, unless otherwise specified.

WET CHEMISTRY

Laboratory Control Sample Duplicate Report Summary

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW006

Lab Code: STLVT

Case No.: 23046

Matrix: WATER

Client: EASEAT

% Solids:

| Lab Sample ID | Method | Parameter | Analytical Run Date | Analytical Batch | Units | LCSD Conc. | True Value | % Recovery* | RPD** |
|---------------|--------|-------------------------|---------------------|------------------|----------|------------|------------|-------------|-------|
| LCSDHA0811A | 130.2 | Total Hardness as CaCO3 | 08/11/03 | BLKHA0811A | mg/L | 124 | 121.0000 | 102.5 | 0 |
| LCSDPH0726A | 9040B | Corrosivity by pH | 07/26/03 | | pH Units | 6.0 | 6.0000 | 100.3 | 0 |
| LCSDSU0812A | 375.4 | Sulfate | 08/12/03 | BLKSU0812A | mg/L | 9.8 | 10.0 | 98.0 | 3 |

* Control Limit for Percent Recovery is 80-120%, unless otherwise specified.

** Control Limit for RPD is +/- 20%, unless otherwise specified.



**Sample Data Summary Package
For Metals**

USEPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006

SOW No.: ILM04.1

| EPA Sample No. | Lab Sample ID. |
|-----------------|----------------|
| BLUESTPWP05 | 535760 |
| BLUESTPWP05F | 535761 |
| BLUESTPWP06 | 535764 |
| BLUESTPWP06F | 535765 |
| BLUESTPWP07 | 535772 |
| BLUESTPWP07F | 535773 |
| BLUESTPWR05 | 535758 |
| BLUESTPWR05F | 535759 |
| BLUESTPWR06 | 535766 |
| BLUESTPWR06F | 535767 |
| BLUESTSEW05 | 535754 |
| BLUESTSEW05100 | 535756 |
| BLUESTSEW05100F | 535757 |
| BLUESTSEW05F | 535755 |
| BLUESTSEW06 | 535762 |
| BLUESTSEW06F | 535763 |
| BLUESTSEW07 | 535768 |
| BLUESTSEW07F | 535769 |
| BLUESTSEW08 | 535770 |
| BLUESTSEW08F | 535771 |

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: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTFWP05

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006

Matrix (soil/water): WATER Lab Sample ID: 535760

Level (low/med): LOW Date Received: 7/24/2003

% Solids: 0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---------|---------|---------------|---|---|----|
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTPWP05F

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006
 Matrix (soil/water): WATER Lab Sample ID: 535761
 Level (low/med): LOW Date Received: 7/24/2003
 % 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 | 58.9 | B | | P |
| 7440-36-0 | Antimony | 6.4 | B | | P |
| 7440-38-2 | Arsenic | 2.4 | U | | P |
| 7440-39-3 | Barium | 18.8 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.30 | U | | P |
| 7440-70-2 | Calcium | 13000 | | | P |
| 7440-47-3 | Chromium | 0.60 | U | | P |
| 7440-48-4 | Cobalt | 1.8 | U | | P |
| 7440-50-8 | Copper | 1.4 | U | | P |
| 7439-89-6 | Iron | 37.3 | B | | P |
| 7439-92-1 | Lead | 1.5 | U | | P |
| 7439-95-4 | Magnesium | 7350 | | | P |
| 7439-96-5 | Manganese | 7.7 | B | | P |
| 7439-97-6 | Mercury | 0.17 | B | | CV |
| 7440-02-0 | Nickel | 2.0 | U | | P |
| 7440-09-7 | Potassium | 1450 | B | | P |
| 7782-49-2 | Selenium | 1.7 | U | | P |
| 7440-22-4 | Silver | 0.90 | U | | P |
| 7440-23-5 | Sodium | 2990 | B | | P |
| 7440-28-0 | Thallium | 2.8 | U | | P |
| 7440-62-2 | Vanadium | 2.2 | U | | P |
| 7440-66-6 | Zinc | 5.7 | U | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTPWP06

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006
 Matrix (soil/water): WATER Lab Sample ID: 535764
 Level (low/med): LOW Date Received: 7/24/2003
 % Solids: 0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---------|---------|---------------|---|---|----|
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTPWP06F

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006
 Matrix (soil/water): WATER Lab Sample ID: 535765
 Level (low/med): LOW Date Received: 7/24/2003
 % 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 | 41.9 | B | | P |
| 7440-36-0 | Antimony | 4.7 | B | | P |
| 7440-38-2 | Arsenic | 2.4 | U | | P |
| 7440-39-3 | Barium | 15.4 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.30 | U | | P |
| 7440-70-2 | Calcium | 12200 | | | P |
| 7440-47-3 | Chromium | 0.60 | U | | P |
| 7440-48-4 | Cobalt | 1.8 | U | | P |
| 7440-50-8 | Copper | 1.4 | U | | P |
| 7439-89-6 | Iron | 16.8 | U | | P |
| 7439-92-1 | Lead | 1.5 | U | | P |
| 7439-95-4 | Magnesium | 6920 | | | P |
| 7439-96-5 | Manganese | 12.4 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.0 | U | | P |
| 7440-09-7 | Potassium | 1320 | B | | P |
| 7782-49-2 | Selenium | 1.7 | U | | P |
| 7440-22-4 | Silver | 0.90 | U | | P |
| 7440-23-5 | Sodium | 2720 | B | | P |
| 7440-28-0 | Thallium | 2.8 | U | | P |
| 7440-62-2 | Vanadium | 3.1 | B | | P |
| 7440-66-6 | Zinc | 5.7 | U | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTPWF07

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006
 Matrix (soil/water): WATER Lab Sample ID: 535772
 Level (low/med): LOW Date Received: 7/24/2003
 % Solids: 0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---------|---------|---------------|---|---|----|
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTPWP07F

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006
 Matrix (soil/water): WATER Lab Sample ID: 535773
 Level (low/med): LOW Date Received: 7/24/2003
 % 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 | 55.1 | B | | P |
| 7440-36-0 | Antimony | 3.8 | U | | P |
| 7440-38-2 | Arsenic | 2.4 | U | | P |
| 7440-39-3 | Barium | 14.0 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.30 | U | | P |
| 7440-70-2 | Calcium | 11800 | | | P |
| 7440-47-3 | Chromium | 0.60 | U | | P |
| 7440-48-4 | Cobalt | 1.8 | U | | P |
| 7440-50-8 | Copper | 1.4 | U | | P |
| 7439-89-6 | Iron | 16.8 | U | | P |
| 7439-92-1 | Lead | 1.5 | U | | P |
| 7439-95-4 | Magnesium | 6740 | | | P |
| 7439-96-5 | Manganese | 6.0 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.0 | U | | P |
| 7440-09-7 | Potassium | 1160 | B | | P |
| 7782-49-2 | Selenium | 1.7 | U | | P |
| 7440-22-4 | Silver | 0.90 | U | | P |
| 7440-23-5 | Sodium | 2700 | B | | P |
| 7440-28-0 | Thallium | 2.8 | U | | P |
| 7440-62-2 | Vanadium | 2.2 | B | | P |
| 7440-66-6 | Zinc | 5.7 | U | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTPWR05

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006
 Matrix (soil/water): WATER Lab Sample ID: 535758
 Level (low/med): LOW Date Received: 7/24/2003
 % Solids: 0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---------|---------|---------------|---|---|----|
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTPWR05F

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006

Matrix (soil/water): WATER Lab Sample ID: 535759

Level (low/med): LOW Date Received: 7/24/2003

% 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 | 32.6 | B | | P |
| 7440-36-0 | Antimony | 4.5 | B | | P |
| 7440-38-2 | Arsenic | 2.4 | U | | P |
| 7440-39-3 | Barium | 14.6 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.30 | U | | P |
| 7440-70-2 | Calcium | 12100 | | | P |
| 7440-47-3 | Chromium | 0.60 | U | | P |
| 7440-48-4 | Cobalt | 1.8 | U | | P |
| 7440-50-8 | Copper | 1.4 | U | | P |
| 7439-89-6 | Iron | 16.8 | U | | P |
| 7439-92-1 | Lead | 1.5 | U | | P |
| 7439-95-4 | Magnesium | 6830 | | | P |
| 7439-96-5 | Manganese | 8.9 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.0 | U | | P |
| 7440-09-7 | Potassium | 1120 | B | | P |
| 7782-49-2 | Selenium | 1.7 | U | | P |
| 7440-22-4 | Silver | 0.90 | U | | P |
| 7440-23-5 | Sodium | 2730 | B | | P |
| 7440-28-0 | Thallium | 2.8 | U | | P |
| 7440-62-2 | Vanadium | 2.2 | U | | P |
| 7440-66-6 | Zinc | 5.7 | U | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTPWR06

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006
 Matrix (soil/water): WATER Lab Sample ID: 535766
 Level (low/med): LOW Date Received: 7/24/2003
 % Solids: 0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---------|---------|---------------|---|---|----|
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

 Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTPWR06F

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006
 Matrix (soil/water): WATER Lab Sample ID: 535767
 Level (low/med): LOW Date Received: 7/24/2003
 % 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 | 52.5 | B | | P |
| 7440-36-0 | Antimony | 5.6 | B | | P |
| 7440-38-2 | Arsenic | 2.4 | U | | P |
| 7440-39-3 | Barium | 14.7 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.30 | U | | P |
| 7440-70-2 | Calcium | 11800 | | | P |
| 7440-47-3 | Chromium | 0.60 | U | | P |
| 7440-48-4 | Cobalt | 1.8 | U | | P |
| 7440-50-8 | Copper | 1.4 | U | | P |
| 7439-89-6 | Iron | 16.8 | U | | P |
| 7439-92-1 | Lead | 1.5 | U | | P |
| 7439-95-4 | Magnesium | 6740 | | | P |
| 7439-96-5 | Manganese | 11.9 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.0 | U | | P |
| 7440-09-7 | Potassium | 1130 | B | | P |
| 7782-49-2 | Selenium | 1.7 | U | | P |
| 7440-22-4 | Silver | 0.90 | U | | P |
| 7440-23-5 | Sodium | 2710 | B | | P |
| 7440-28-0 | Thallium | 2.8 | U | | P |
| 7440-62-2 | Vanadium | 2.2 | U | | P |
| 7440-66-6 | Zinc | 5.7 | U | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTSEFW05

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006
 Matrix (soil/water): WATER Lab Sample ID: 535754
 Level (low/med): LOW Date Received: 7/24/2003
 % 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 | 49.6 | B | | P |
| 7440-36-0 | Antimony | 6.1 | B | | P |
| 7440-38-2 | Arsenic | 2.4 | U | | P |
| 7440-39-3 | Barium | 15.3 | B | | P |
| 7440-41-7 | Beryllium | 0.28 | B | | P |
| 7440-43-9 | Cadmium | 0.30 | U | | P |
| 7440-70-2 | Calcium | 11900 | | | P |
| 7440-47-3 | Chromium | 0.60 | U | | P |
| 7440-48-4 | Cobalt | 1.8 | U | | P |
| 7440-50-8 | Copper | 1.4 | U | | P |
| 7439-89-6 | Iron | 53.2 | B | | P |
| 7439-92-1 | Lead | 1.5 | U | | P |
| 7439-95-4 | Magnesium | 6740 | | | P |
| 7439-96-5 | Manganese | 15.3 | | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.0 | U | | P |
| 7440-09-7 | Potassium | 1150 | B | | P |
| 7782-49-2 | Selenium | 1.7 | U | | P |
| 7440-22-4 | Silver | 0.90 | U | | P |
| 7440-23-5 | Sodium | 2820 | B | | P |
| 7440-28-0 | Thallium | 2.8 | U | | P |
| 7440-62-2 | Vanadium | 2.2 | U | | P |
| 7440-66-6 | Zinc | 5.7 | U | | P |
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTSFW05100

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006
 Matrix (soil/water): WATER Lab Sample ID: 535756
 Level (low/med): LOW Date Received: 7/24/2003
 % 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 | 51.6 | B | | P |
| 7440-36-0 | Antimony | 4.3 | B | | P |
| 7440-38-2 | Arsenic | 2.5 | B | | P |
| 7440-39-3 | Barium | 15.5 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.30 | U | | P |
| 7440-70-2 | Calcium | 12200 | | | P |
| 7440-47-3 | Chromium | 0.60 | U | | P |
| 7440-48-4 | Cobalt | 1.8 | U | | P |
| 7440-50-8 | Copper | 1.4 | U | | P |
| 7439-89-6 | Iron | 43.3 | B | | P |
| 7439-92-1 | Lead | 1.5 | U | | P |
| 7439-95-4 | Magnesium | 6910 | | | P |
| 7439-96-5 | Manganese | 15.8 | | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.0 | U | | P |
| 7440-09-7 | Potassium | 1150 | B | | P |
| 7782-49-2 | Selenium | 1.7 | U | | P |
| 7440-22-4 | Silver | 0.90 | U | | P |
| 7440-23-5 | Sodium | 2640 | B | | P |
| 7440-28-0 | Thallium | 2.8 | U | | P |
| 7440-62-2 | Vanadium | 2.2 | U | | P |
| 7440-66-6 | Zinc | 5.7 | U | | P |
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTSEFW05100F

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006
 Matrix (soil/water): WATER Lab Sample ID: 535757
 Level (low/med): LOW Date Received: 7/24/2003
 % 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 | 64.9 | B | | P |
| 7440-36-0 | Antimony | 3.8 | U | | P |
| 7440-38-2 | Arsenic | 2.4 | U | | P |
| 7440-39-3 | Barium | 14.9 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.30 | U | | P |
| 7440-70-2 | Calcium | 11900 | | | P |
| 7440-47-3 | Chromium | 0.60 | U | | P |
| 7440-48-4 | Cobalt | 1.8 | U | | P |
| 7440-50-8 | Copper | 1.4 | U | | P |
| 7439-89-6 | Iron | 16.8 | U | | P |
| 7439-92-1 | Lead | 1.5 | U | | P |
| 7439-95-4 | Magnesium | 6760 | | | P |
| 7439-96-5 | Manganese | 11.8 | B | | P |
| 7439-97-6 | Mercury | 0.11 | B | | CV |
| 7440-02-0 | Nickel | 2.0 | U | | P |
| 7440-09-7 | Potassium | 1040 | B | | P |
| 7782-49-2 | Selenium | 1.7 | U | | P |
| 7440-22-4 | Silver | 0.90 | U | | P |
| 7440-23-5 | Sodium | 2650 | B | | P |
| 7440-28-0 | Thallium | 2.8 | U | | P |
| 7440-62-2 | Vanadium | 2.6 | B | | P |
| 7440-66-6 | Zinc | 5.7 | U | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTSEW05F

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006
 Matrix (soil/water): WATER Lab Sample ID: 535755
 Level (low/med): LOW Date Received: 7/24/2003
 % 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 | 4.7 | B | | P |
| 7440-38-2 | Arsenic | 2.4 | U | | P |
| 7440-39-3 | Barium | 14.6 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.30 | U | | P |
| 7440-70-2 | Calcium | 11500 | | | P |
| 7440-47-3 | Chromium | 0.60 | U | | P |
| 7440-48-4 | Cobalt | 1.8 | U | | P |
| 7440-50-8 | Copper | 1.4 | U | | P |
| 7439-89-6 | Iron | 16.8 | U | | P |
| 7439-92-1 | Lead | 1.5 | U | | P |
| 7439-95-4 | Magnesium | 6520 | | | P |
| 7439-96-5 | Manganese | 11.8 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.0 | U | | P |
| 7440-09-7 | Potassium | 1170 | B | | P |
| 7782-49-2 | Selenium | 1.7 | U | | P |
| 7440-22-4 | Silver | 0.90 | U | | P |
| 7440-23-5 | Sodium | 2660 | B | | P |
| 7440-28-0 | Thallium | 2.8 | U | | P |
| 7440-62-2 | Vanadium | 2.2 | U | | P |
| 7440-66-6 | Zinc | 5.7 | U | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTSF06

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006
 Matrix (soil/water): WATER Lab Sample ID: 535762
 Level (low/med): LOW Date Received: 7/24/2003
 % 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 | 65.3 | B | | P |
| 7440-36-0 | Antimony | 5.4 | B | | P |
| 7440-38-2 | Arsenic | 2.4 | U | | P |
| 7440-39-3 | Barium | 15.4 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.30 | U | | P |
| 7440-70-2 | Calcium | 12000 | | | P |
| 7440-47-3 | Chromium | 0.60 | U | | P |
| 7440-48-4 | Cobalt | 1.8 | U | | P |
| 7440-50-8 | Copper | 1.4 | U | | P |
| 7439-89-6 | Iron | 53.5 | B | | P |
| 7439-92-1 | Lead | 1.5 | U | | P |
| 7439-95-4 | Magnesium | 6850 | | | P |
| 7439-96-5 | Manganese | 13.8 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.0 | U | | P |
| 7440-09-7 | Potassium | 1300 | B | | P |
| 7782-49-2 | Selenium | 1.7 | U | | P |
| 7440-22-4 | Silver | 0.90 | U | | P |
| 7440-23-5 | Sodium | 2740 | B | | P |
| 7440-28-0 | Thallium | 2.8 | U | | P |
| 7440-62-2 | Vanadium | 2.3 | B | | P |
| 7440-66-6 | Zinc | 5.7 | U | | P |
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTSF06F

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006
 Matrix (soil/water): WATER Lab Sample ID: 535763
 Level (low/med): LOW Date Received: 7/24/2003
 % 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 | 40.3 | B | | P |
| 7440-36-0 | Antimony | 4.0 | B | | P |
| 7440-38-2 | Arsenic | 2.4 | U | | P |
| 7440-39-3 | Barium | 15.0 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.30 | U | | P |
| 7440-70-2 | Calcium | 12000 | | | P |
| 7440-47-3 | Chromium | 0.60 | U | | P |
| 7440-48-4 | Cobalt | 1.8 | U | | P |
| 7440-50-8 | Copper | 1.4 | U | | P |
| 7439-89-6 | Iron | 17.0 | B | | P |
| 7439-92-1 | Lead | 1.5 | U | | P |
| 7439-95-4 | Magnesium | 6840 | | | P |
| 7439-96-5 | Manganese | 9.7 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.0 | U | | P |
| 7440-09-7 | Potassium | 1290 | B | | P |
| 7782-49-2 | Selenium | 1.7 | U | | P |
| 7440-22-4 | Silver | 0.90 | U | | P |
| 7440-23-5 | Sodium | 2740 | B | | P |
| 7440-28-0 | Thallium | 2.8 | U | | P |
| 7440-62-2 | Vanadium | 2.5 | B | | P |
| 7440-66-6 | Zinc | 5.7 | U | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTSF07

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006
 Matrix (soil/water): WATER Lab Sample ID: 535768
 Level (low/med): LOW Date Received: 7/24/2003
 % 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 | 68.3 | B | | P |
| 7440-36-0 | Antimony | 5.9 | B | | P |
| 7440-38-2 | Arsenic | 2.4 | U | | P |
| 7440-39-3 | Barium | 15.7 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.30 | U | | P |
| 7440-70-2 | Calcium | 12100 | | | P |
| 7440-47-3 | Chromium | 0.60 | U | | P |
| 7440-48-4 | Cobalt | 1.8 | U | | P |
| 7440-50-8 | Copper | 1.4 | U | | P |
| 7439-89-6 | Iron | 35.7 | B | | P |
| 7439-92-1 | Lead | 1.5 | U | | P |
| 7439-95-4 | Magnesium | 6870 | | | P |
| 7439-96-5 | Manganese | 12.3 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.0 | U | | P |
| 7440-09-7 | Potassium | 1250 | B | | P |
| 7782-49-2 | Selenium | 1.7 | U | | P |
| 7440-22-4 | Silver | 0.90 | U | | P |
| 7440-23-5 | Sodium | 2690 | B | | P |
| 7440-28-0 | Thallium | 2.8 | U | | P |
| 7440-62-2 | Vanadium | 2.2 | B | | P |
| 7440-66-6 | Zinc | 5.7 | U | | P |
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTSFW07F

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006
 Matrix (soil/water): WATER Lab Sample ID: 535769
 Level (low/med): LOW Date Received: 7/24/2003
 % 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 | 47.7 | B | | P |
| 7440-36-0 | Antimony | 4.0 | B | | P |
| 7440-38-2 | Arsenic | 2.4 | U | | P |
| 7440-39-3 | Barium | 14.2 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.30 | U | | P |
| 7440-70-2 | Calcium | 11700 | | | P |
| 7440-47-3 | Chromium | 0.60 | U | | P |
| 7440-48-4 | Cobalt | 1.8 | U | | P |
| 7440-50-8 | Copper | 1.4 | U | | P |
| 7439-89-6 | Iron | 16.8 | U | | P |
| 7439-92-1 | Lead | 1.5 | U | | P |
| 7439-95-4 | Magnesium | 6670 | | | P |
| 7439-96-5 | Manganese | 8.2 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.0 | U | | P |
| 7440-09-7 | Potassium | 1320 | B | | P |
| 7782-49-2 | Selenium | 1.7 | U | | P |
| 7440-22-4 | Silver | 0.90 | U | | P |
| 7440-23-5 | Sodium | 2730 | B | | P |
| 7440-28-0 | Thallium | 2.8 | U | | P |
| 7440-62-2 | Vanadium | 2.2 | U | | P |
| 7440-66-6 | Zinc | 5.7 | U | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTSEW08

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006
 Matrix (soil/water): WATER Lab Sample ID: 535770
 Level (low/med): LOW Date Received: 7/24/2003
 % 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 | 58.4 | B | | P |
| 7440-36-0 | Antimony | 5.2 | B | | P |
| 7440-38-2 | Arsenic | 2.8 | B | | P |
| 7440-39-3 | Barium | 14.0 | B | | P |
| 7440-41-7 | Beryllium | 0.32 | B | | P |
| 7440-43-9 | Cadmium | 0.30 | U | | P |
| 7440-70-2 | Calcium | 11400 | | | P |
| 7440-47-3 | Chromium | 0.60 | U | | P |
| 7440-48-4 | Cobalt | 1.8 | U | | P |
| 7440-50-8 | Copper | 1.4 | U | | P |
| 7439-89-6 | Iron | 40.2 | B | | P |
| 7439-92-1 | Lead | 1.5 | U | | P |
| 7439-95-4 | Magnesium | 6500 | | | P |
| 7439-96-5 | Manganese | 11.4 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.0 | U | | P |
| 7440-09-7 | Potassium | 1100 | B | | P |
| 7782-49-2 | Selenium | 1.7 | U | | P |
| 7440-22-4 | Silver | 0.90 | U | | P |
| 7440-23-5 | Sodium | 2490 | B | | P |
| 7440-28-0 | Thallium | 2.8 | U | | P |
| 7440-62-2 | Vanadium | 2.5 | B | | P |
| 7440-66-6 | Zinc | 5.7 | U | | P |
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTSFW08F

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006

Matrix (soil/water): WATER Lab Sample ID: 535771

Level (low/med): LOW Date Received: 7/24/2003

% 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 | 56.9 | B | | P |
| 7440-36-0 | Antimony | 4.2 | B | | P |
| 7440-38-2 | Arsenic | 2.4 | U | | P |
| 7440-39-3 | Barium | 14.1 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.30 | U | | P |
| 7440-70-2 | Calcium | 11800 | | | P |
| 7440-47-3 | Chromium | 0.60 | U | | P |
| 7440-48-4 | Cobalt | 1.8 | U | | P |
| 7440-50-8 | Copper | 1.4 | U | | P |
| 7439-89-6 | Iron | 16.8 | U | | P |
| 7439-92-1 | Lead | 1.5 | U | | P |
| 7439-95-4 | Magnesium | 6680 | | | P |
| 7439-96-5 | Manganese | 7.3 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.0 | U | | P |
| 7440-09-7 | Potassium | 1240 | B | | P |
| 7782-49-2 | Selenium | 1.7 | U | | P |
| 7440-22-4 | Silver | 0.90 | U | | P |
| 7440-23-5 | Sodium | 2730 | B | | P |
| 7440-28-0 | Thallium | 2.8 | U | | P |
| 7440-62-2 | Vanadium | 2.4 | B | | P |
| 7440-66-6 | Zinc | 5.7 | U | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless 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.: GCW006

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 | 26980.00 | 103.8 | 30200.0 | 30930.00 | 102.4 | 30230.00 | 100.1 | P |
| Antimony | 250.0 | 250.20 | 100.1 | 300.0 | 302.60 | 100.9 | 298.50 | 99.5 | P |
| Arsenic | 250.0 | 246.30 | 98.5 | 100.0 | 99.88 | 99.9 | 94.82 | 94.8 | P |
| Barium | 500.0 | 506.60 | 101.3 | 200.0 | 201.40 | 100.7 | 196.90 | 98.4 | P |
| Beryllium | 500.0 | 508.40 | 101.7 | 100.0 | 99.55 | 99.6 | 97.19 | 97.2 | P |
| Cadmium | 500.0 | 500.10 | 100.0 | 100.0 | 99.32 | 99.3 | 96.97 | 97.0 | P |
| Calcium | 25000.0 | 25770.00 | 103.1 | 30200.0 | 30490.00 | 101.0 | 29650.00 | 98.2 | P |
| Chromium | 500.0 | 506.70 | 101.3 | 200.0 | 198.80 | 99.4 | 194.20 | 97.1 | P |
| Cobalt | 500.0 | 501.60 | 100.3 | 200.0 | 201.50 | 100.8 | 197.90 | 99.0 | P |
| Copper | 500.0 | 515.90 | 103.2 | 200.0 | 204.40 | 102.2 | 198.60 | 99.3 | P |
| Iron | 25500.0 | 26370.00 | 103.4 | 30200.0 | 30460.00 | 100.9 | 29220.00 | 96.8 | P |
| Lead | 1000.0 | 992.80 | 99.3 | 400.0 | 391.10 | 97.8 | 387.20 | 96.8 | P |
| Magnesium | 25000.0 | 25520.00 | 102.1 | 30200.0 | 30520.00 | 101.1 | 29740.00 | 98.5 | P |
| Manganese | 500.0 | 502.40 | 100.5 | 200.0 | 199.70 | 99.8 | 195.00 | 97.5 | P |
| Mercury | 3.0 | 2.88 | 96.0 | 5.0 | 4.74 | 94.8 | 4.41 | 88.2 | CV |
| Nickel | 500.0 | 505.50 | 101.1 | 200.0 | 200.70 | 100.4 | 196.70 | 98.4 | P |
| Selenium | 250.0 | 243.00 | 97.2 | 100.0 | 100.10 | 100.1 | 95.59 | 95.6 | P |
| Silver | 500.0 | 508.70 | 101.7 | 100.0 | 102.80 | 102.8 | 101.90 | 101.9 | P |
| Sodium | 25000.0 | 25250.00 | 101.0 | 30200.0 | 30330.00 | 100.4 | 29910.00 | 99.0 | P |
| Thallium | 250.0 | 235.80 | 94.3 | 100.0 | 99.91 | 99.9 | 99.58 | 99.6 | P |
| Vanadium | 500.0 | 502.60 | 100.5 | 200.0 | 198.60 | 99.3 | 195.20 | 97.6 | P |
| Zinc | 500.0 | 500.80 | 100.2 | 200.0 | 197.60 | 98.8 | 190.90 | 95.4 | P |
| Cyanide | 120.0 | 116.78 | 97.3 | 150.0 | 139.64 | 93.1 | 142.74 | 95.2 | AS |

(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.: GCW006

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 | 30760.00 | 101.9 | 30690.00 | 101.6 | P |
| Antimony | | | | 300.0 | 305.50 | 101.8 | 301.40 | 100.5 | P |
| Arsenic | | | | 100.0 | 99.13 | 99.1 | 98.24 | 98.2 | P |
| Barium | | | | 200.0 | 200.30 | 100.2 | 199.50 | 99.8 | P |
| Beryllium | | | | 100.0 | 97.94 | 97.9 | 97.23 | 97.2 | P |
| Cadmium | | | | 100.0 | 98.41 | 98.4 | 97.84 | 97.8 | P |
| Calcium | | | | 30200.0 | 29970.00 | 99.2 | 29910.00 | 99.0 | P |
| Chromium | | | | 200.0 | 197.30 | 98.6 | 196.70 | 98.4 | P |
| Cobalt | | | | 200.0 | 201.10 | 100.6 | 201.70 | 100.8 | P |
| Copper | | | | 200.0 | 202.50 | 101.2 | 201.40 | 100.7 | P |
| Iron | | | | 30200.0 | 29120.00 | 96.4 | 28740.00 | 95.2 | P |
| Lead | | | | 400.0 | 394.10 | 98.5 | 393.30 | 98.3 | P |
| Magnesium | | | | 30200.0 | 30150.00 | 99.8 | 30130.00 | 99.8 | P |
| Manganese | | | | 200.0 | 197.30 | 98.6 | 196.70 | 98.4 | P |
| Mercury | | | | 5.0 | 4.42 | 88.4 | | | CV |
| Nickel | | | | 200.0 | 199.00 | 99.5 | 199.20 | 99.6 | P |
| Selenium | | | | 100.0 | 98.13 | 98.1 | 98.31 | 98.3 | P |
| Silver | | | | 100.0 | 103.40 | 103.4 | 103.30 | 103.3 | P |
| Sodium | | | | 30200.0 | 30470.00 | 100.9 | 30470.00 | 100.9 | P |
| Thallium | | | | 100.0 | 97.53 | 97.5 | 102.50 | 102.5 | P |
| Vanadium | | | | 200.0 | 198.60 | 99.3 | 198.40 | 99.2 | P |
| Zinc | | | | 200.0 | 191.30 | 95.6 | 189.40 | 94.7 | P |
| Cyanide | | | | 150.0 | 144.46 | 96.3 | | | AS |

(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.: GCW006

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) |
| Potassium | 25000.0 | 26090.00 | 104.4 | 30200.0 | 30750.00 | 101.8 | 30870.00 | 102.2 | 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.: GCW006

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) |
| Potassium | | | | 30200.0 | 30760.00 | 101.9 | 30930.00 | 102.4 | 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 BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCW006AA CRDL Standard Source: Inorganic VenturesICP CRDL Standard Source: Inorganic Ventures

Concentration Units: ug/L

| Analyte | True | Found | %R | CRDL Standard for ICP | | | | |
|-----------|------|-------|-------|-----------------------|----------|-------|----------|-------|
| | | | | Initial | | Final | | |
| | | | | True | Found | %R | Found | %R |
| Aluminum | | | | 400.0 | 736.30 | 184.1 | 810.00 | 202.5 |
| Antimony | | | | 120.0 | 122.10 | 101.8 | 125.90 | 104.9 |
| Arsenic | | | | 20.0 | 18.66 | 93.3 | 18.43 | 92.2 |
| Barium | | | | 400.0 | 395.80 | 99.0 | 399.70 | 99.9 |
| Beryllium | | | | 10.0 | 10.66 | 106.6 | 10.72 | 107.2 |
| Cadmium | | | | 10.0 | 10.27 | 102.7 | 10.18 | 101.8 |
| Calcium | | | | 10000.0 | 10870.00 | 108.7 | 10820.00 | 108.2 |
| Chromium | | | | 20.0 | 20.49 | 102.4 | 21.09 | 105.4 |
| Cobalt | | | | 100.0 | 98.79 | 98.8 | 100.70 | 100.7 |
| Copper | | | | 50.0 | 49.27 | 98.5 | 48.40 | 96.8 |
| Iron | | | | 200.0 | 355.50 | 177.8 | 351.70 | 175.8 |
| Lead | | | | 6.0 | 4.92 | 82.0 | 5.81 | 96.8 |
| Magnesium | | | | 10000.0 | 10590.00 | 105.9 | 10640.00 | 106.4 |
| Manganese | | | | 30.0 | 30.30 | 101.0 | 30.14 | 100.5 |
| Mercury | 0.2 | 0.24 | 120.0 | | | | | |
| Nickel | | | | 80.0 | 81.30 | 101.6 | 80.92 | 101.2 |
| Selenium | | | | 10.0 | 8.02 | 80.2 | 6.97 | 69.7 |
| Silver | | | | 20.0 | 20.12 | 100.6 | 20.93 | 104.6 |
| Sodium | | | | 10000.0 | 9875.00 | 98.8 | 10220.00 | 102.2 |
| Thallium | | | | 20.0 | 21.05 | 105.2 | 22.92 | 114.6 |
| Vanadium | | | | 100.0 | 100.60 | 100.6 | 102.20 | 102.2 |
| Zinc | | | | 40.0 | 38.81 | 97.0 | 37.81 | 94.5 |

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.: GCW006

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 | | Final | | |
| | | | | True | Found | %R | Found | %R |
| Potassium | | | | 10000.0 | 10950.00 | 109.5 | 10980.00 | 109.8 |

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

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|-----------|-----------------------------|---|-------------------------------------|---|-------|---|-------|---|-------------------|---|----|
| | | C | 1 | C | 2 | C | 3 | C | | C | |
| Aluminum | 19.0 | B | 39.1 | B | 47.4 | B | 65.3 | B | 18.300 | U | P |
| Antimony | 3.8 | U | 3.8 | U | 3.8 | U | 4.3 | B | 3.800 | U | P |
| Arsenic | 2.4 | U | 2.4 | U | 2.4 | U | 2.4 | U | 2.400 | U | P |
| Barium | 7.3 | U | 7.3 | U | 7.3 | U | 7.3 | U | 7.300 | U | P |
| Beryllium | 0.5 | B | 0.3 | B | 0.6 | B | 0.6 | B | 0.328 | B | P |
| Cadmium | 0.3 | U | 0.3 | U | -0.4 | B | -0.5 | B | -0.420 | B | P |
| Calcium | 223.2 | U | 223.2 | U | 223.2 | U | 223.2 | U | 223.200 | U | P |
| Chromium | -1.1 | B | -0.9 | B | -1.2 | B | -1.6 | B | -0.856 | B | P |
| Cobalt | 1.8 | U | 1.8 | U | 1.8 | U | 1.8 | U | 1.800 | U | P |
| Copper | 1.4 | U | 1.4 | U | -2.1 | B | -2.4 | B | 1.400 | U | P |
| Iron | 16.8 | U | 28.0 | B | 16.8 | U | 16.8 | U | 16.800 | U | P |
| Lead | 1.5 | U | 1.5 | U | 1.5 | U | 1.5 | U | 1.500 | U | P |
| Magnesium | 181.7 | U | 181.7 | U | 181.7 | U | 181.7 | U | 181.700 | U | P |
| Manganese | 0.7 | U | 0.7 | U | 0.7 | U | 0.7 | U | 0.700 | U | P |
| Mercury | 0.1 | U | 0.1 | U | 0.1 | U | 0.1 | U | 0.100 | U | CV |
| Nickel | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.000 | U | P |
| Potassium | | | | | | | | | 370.700 | U | P |
| Selenium | -1.8 | B | 1.7 | U | -1.9 | B | -1.8 | B | 1.700 | U | P |
| Silver | 0.9 | U | 0.9 | U | 0.9 | U | 0.9 | U | 0.900 | U | P |
| Sodium | 218.8 | U | 218.8 | U | 218.8 | U | 218.8 | U | 218.800 | U | P |
| Thallium | 2.8 | U | 2.8 | U | 2.8 | U | 2.8 | U | -4.680 | B | P |
| Vanadium | 2.2 | U | 2.2 | U | 2.2 | U | 2.2 | U | 2.200 | U | P |
| Zinc | 5.7 | U | 5.7 | U | 5.7 | U | 5.7 | U | 5.700 | U | P |
| Cyanide | 10.0 | U | 10.0 | U | 10.0 | U | 10.0 | U | 10.000 | U | AS |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | C | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|-----------|--------------------------------------|---|--|---|---|---|---|---|----------------------|---|---|
| | | | 1 | C | 2 | C | 3 | C | | C | |
| Aluminum | | | 59.8 | B | | | | | 49.080 | B | P |
| Antimony | | | 3.8 | U | | | | | 3.800 | U | P |
| Arsenic | | | 2.4 | U | | | | | 2.400 | U | P |
| Barium | | | 7.3 | U | | | | | 7.300 | U | P |
| Beryllium | | | 0.7 | B | | | | | 0.200 | U | P |
| Cadmium | | | -0.3 | B | | | | | 0.300 | U | P |
| Calcium | | | 223.2 | U | | | | | 223.200 | U | P |
| Chromium | | | -1.3 | B | | | | | -0.739 | B | P |
| Cobalt | | | 1.8 | U | | | | | 1.800 | U | P |
| Copper | | | -2.6 | B | | | | | -1.890 | B | P |
| Iron | | | 16.8 | U | | | | | 16.800 | U | P |
| Lead | | | 1.5 | U | | | | | 1.500 | U | P |
| Magnesium | | | 181.7 | U | | | | | 181.700 | U | P |
| Manganese | | | 0.7 | U | | | | | 0.700 | U | P |
| Nickel | | | 2.0 | U | | | | | 2.000 | U | P |
| Potassium | | | | | | | | | 370.700 | U | P |
| Selenium | | | 1.7 | U | | | | | 1.700 | U | P |
| Silver | | | 0.9 | U | | | | | 0.900 | U | P |
| Sodium | | | 218.8 | U | | | | | 270.400 | B | P |
| Thallium | | | 2.8 | U | | | | | 2.800 | U | P |
| Vanadium | | | 2.2 | U | | | | | 2.200 | U | P |
| Zinc | | | 5.7 | U | | | | | 5.700 | U | P |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006

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) | | | | | | Preparation Blank | C | M |
|-----------|--------------------------------------|---|--|---|-------|---|-------|---|----------------------|---|---|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Potassium | 370.7 | U | 370.7 | U | 370.7 | U | 370.7 | U | | | P |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006

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) | | | | | | Preparation Blank | C | M |
|-----------|--------------------------------------|---|--|---|---|---|---|---|----------------------|---|---|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Potassium | | | 370.7 | 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.: GCW006
 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 |
| Aluminum | 500000 | 452460 | 487100 | 484600.0 | 107.1 | 480300 | 480700.0 | 106.2 |
| Antimony | 0 | 572 | 11 | 642.0 | 112.2 | 7 | 641.4 | 112.1 |
| Arsenic | 0 | 94 | 2 | 100.9 | 107.3 | -3 | 102.6 | 109.1 |
| Barium | 0 | 466 | 2 | 513.4 | 110.2 | 2 | 508.9 | 109.2 |
| Beryllium | 0 | 446 | -1 | 490.7 | 110.0 | 0 | 480.8 | 107.8 |
| Cadmium | 0 | 874 | 8 | 979.8 | 112.1 | 7 | 979.4 | 112.1 |
| Calcium | 500000 | 421280 | 473200 | 477200.0 | 113.3 | 467400 | 470800.0 | 111.8 |
| Chromium | 0 | 436 | 3 | 489.4 | 112.2 | 3 | 489.3 | 112.2 |
| Cobalt | 0 | 435 | 8 | 485.1 | 111.5 | 8 | 489.0 | 112.4 |
| Copper | 0 | 473 | 3 | 538.4 | 113.8 | 0 | 535.2 | 113.2 |
| Iron | 200000 | 172540 | 202800 | 202200.0 | 117.2 | 191400 | 191300.0 | 110.9 |
| Lead | 0 | 44 | -2 | 46.2 | 105.0 | 1 | 46.8 | 106.4 |
| Magnesium | 500000 | 498160 | 549900 | 555700.0 | 111.6 | 545400 | 552300.0 | 110.9 |
| Manganese | 0 | 428 | 0 | 482.2 | 112.7 | 0 | 477.4 | 111.5 |
| Nickel | 0 | 877 | 12 | 988.4 | 112.7 | 11 | 987.2 | 112.6 |
| Selenium | 0 | 48 | -4 | 46.6 | 97.1 | -6 | 45.5 | 94.8 |
| Silver | 0 | 196 | 0 | 224.0 | 114.3 | 0 | 225.7 | 115.2 |
| Sodium | 0 | 0 | -32 | -54.6 | | -30 | -208.1 | |
| Thallium | 0 | 95 | 5 | 101.3 | 106.6 | 5 | 100.3 | 105.6 |
| Vanadium | 0 | 417 | -3 | 468.1 | 112.3 | 0 | 466.2 | 111.8 |
| Zinc | 0 | 841 | 5 | 991.2 | 117.9 | 4 | 959.8 | 114.1 |

USEPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006

ICP ID Number: TJA ICAP 5 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 |
| Potassium | 0 | 0 | 43 | -81.4 | | -193 | -23.3 | |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006

Solid LCS Source: _____

Aqueous LCS Source: Inorganic Ventures

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|-----------|----------------|----------|-------|---------------|-------|---|--------|----|
| | True | Found | %R | True | Found | C | Limits | %R |
| Aluminum | 51000.0 | 51890.00 | 101.7 | | | | | |
| Antimony | 2000.0 | 1989.00 | 99.4 | | | | | |
| Arsenic | 1050.0 | 1012.00 | 96.4 | | | | | |
| Barium | 500.0 | 492.10 | 98.4 | | | | | |
| Beryllium | 500.0 | 481.60 | 96.3 | | | | | |
| Cadmium | 525.0 | 502.40 | 95.7 | | | | | |
| Calcium | 50000.0 | 49370.00 | 98.7 | | | | | |
| Chromium | 500.0 | 488.90 | 97.8 | | | | | |
| Cobalt | 500.0 | 483.70 | 96.7 | | | | | |
| Copper | 500.0 | 510.50 | 102.1 | | | | | |
| Iron | 50500.0 | 49740.00 | 98.5 | | | | | |
| Lead | 1015.0 | 959.70 | 94.6 | | | | | |
| Magnesium | 50000.0 | 49300.00 | 98.6 | | | | | |
| Manganese | 500.0 | 483.00 | 96.6 | | | | | |
| Mercury | 1.0 | 0.86 | 86.0 | | | | | |
| Nickel | 500.0 | 482.10 | 96.4 | | | | | |
| Potassium | 50000.0 | 49130.00 | 98.3 | | | | | |
| Selenium | 525.0 | 490.10 | 93.4 | | | | | |
| Silver | 500.0 | 419.90 | 84.0 | | | | | |
| Sodium | 50000.0 | 51610.00 | 103.2 | | | | | |
| Thallium | 550.0 | 507.90 | 92.3 | | | | | |
| Vanadium | 500.0 | 486.10 | 97.2 | | | | | |
| Zinc | 500.0 | 478.30 | 95.7 | | | | | |
| Cyanide | 120.0 | 119.10 | 99.2 | | | | | |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006

Solid LCS Source: _____

Aqueous LCS Source: Inorganic Ventures

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|-----------|----------------|----------|-------|---------------|-------|---|--------|----|
| | True | Found | %R | True | Found | C | Limits | %R |
| Aluminum | 51000.0 | 53080.00 | 104.1 | | | | | |
| Antimony | 2000.0 | 2033.00 | 101.6 | | | | | |
| Arsenic | 1050.0 | 1037.00 | 98.8 | | | | | |
| Barium | 500.0 | 504.50 | 100.9 | | | | | |
| Beryllium | 500.0 | 484.40 | 96.9 | | | | | |
| Cadmium | 525.0 | 510.70 | 97.3 | | | | | |
| Calcium | 50000.0 | 49760.00 | 99.5 | | | | | |
| Chromium | 500.0 | 499.60 | 99.9 | | | | | |
| Cobalt | 500.0 | 496.60 | 99.3 | | | | | |
| Copper | 500.0 | 524.60 | 104.9 | | | | | |
| Iron | 50500.0 | 48670.00 | 96.4 | | | | | |
| Lead | 1015.0 | 988.10 | 97.3 | | | | | |
| Magnesium | 50000.0 | 50080.00 | 100.2 | | | | | |
| Manganese | 500.0 | 489.40 | 97.9 | | | | | |
| Nickel | 500.0 | 492.40 | 98.5 | | | | | |
| Potassium | 50000.0 | 50060.00 | 100.1 | | | | | |
| Selenium | 525.0 | 498.70 | 95.0 | | | | | |
| Silver | 500.0 | 439.40 | 87.9 | | | | | |
| Sodium | 50000.0 | 53310.00 | 106.6 | | | | | |
| Thallium | 550.0 | 518.20 | 94.2 | | | | | |
| Vanadium | 500.0 | 497.30 | 99.5 | | | | | |
| Zinc | 500.0 | 514.20 | 102.8 | | | | | |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006

Solid LCS Source: _____

Aqueous LCS Source: Inorganic Ventures

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | |
|-----------|----------------|----------|-------|---------------|---------|--------|----|
| | True | Found | %R | True | Found C | Limits | %R |
| Aluminum | 51000.0 | 52250.00 | 102.5 | | | | |
| Antimony | 2000.0 | 2004.00 | 100.2 | | | | |
| Arsenic | 1050.0 | 1020.00 | 97.1 | | | | |
| Barium | 500.0 | 494.60 | 98.9 | | | | |
| Beryllium | 500.0 | 483.00 | 96.6 | | | | |
| Cadmium | 525.0 | 504.40 | 96.1 | | | | |
| Calcium | 50000.0 | 49590.00 | 99.2 | | | | |
| Chromium | 500.0 | 491.80 | 98.4 | | | | |
| Cobalt | 500.0 | 485.80 | 97.2 | | | | |
| Copper | 500.0 | 514.40 | 102.9 | | | | |
| Iron | 50500.0 | 49810.00 | 98.6 | | | | |
| Lead | 1015.0 | 966.60 | 95.2 | | | | |
| Magnesium | 50000.0 | 49610.00 | 99.2 | | | | |
| Manganese | 500.0 | 485.50 | 97.1 | | | | |
| Nickel | 500.0 | 484.30 | 96.9 | | | | |
| Potassium | 50000.0 | 49420.00 | 98.8 | | | | |
| Selenium | 525.0 | 490.60 | 93.4 | | | | |
| Silver | 500.0 | 423.40 | 84.7 | | | | |
| Sodium | 50000.0 | 51940.00 | 103.9 | | | | |
| Thallium | 550.0 | 512.50 | 93.2 | | | | |
| Vanadium | 500.0 | 488.90 | 97.8 | | | | |
| Zinc | 500.0 | 476.20 | 95.2 | | | | |
| Cyanide | 120.0 | 118.95 | 99.1 | | | | |

USEPA - CLP

9

ICP SERIAL DILUTIONS

SAMPLE NO.

BLUESTSFW05L

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVT Case No.: 23046SAS No.: _____ SDG No.: GCW006Matrix (soil/water): WATERLevel (low/med): LOW

Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | | Serial Dilution Result (S) | | % Difference | Q | M |
|-----------|---------------------------|---|----------------------------|---|--------------|---|---|
| | | C | | C | | | |
| Aluminum | 49.60 | B | 91.50 | U | 100.0 | | P |
| Antimony | 6.09 | B | 19.00 | U | 100.0 | | P |
| Arsenic | 2.40 | U | 12.00 | U | | | P |
| Barium | 15.31 | B | 36.50 | U | 100.0 | | P |
| Beryllium | 0.28 | B | 2.54 | B | 807.1 | | P |
| Cadmium | 0.30 | U | 1.50 | U | | | P |
| Calcium | 11910.00 | | 12280.00 | B | 3.1 | | P |
| Chromium | 0.60 | U | 3.00 | U | | | P |
| Cobalt | 1.80 | U | 9.00 | U | | | P |
| Copper | 1.40 | U | 7.00 | U | | | P |
| Iron | 53.21 | B | 84.00 | U | 100.0 | | P |
| Lead | 1.50 | U | 7.50 | U | | | P |
| Magnesium | 6741.00 | | 6930.00 | B | 2.8 | | P |
| Manganese | 15.34 | | 15.10 | B | 1.6 | | P |
| Nickel | 2.00 | U | 10.00 | U | | | P |
| Potassium | 1150.00 | B | 1853.50 | U | 100.0 | | P |
| Selenium | 1.70 | U | 8.50 | U | | | P |
| Silver | 0.90 | U | 4.50 | U | | | P |
| Sodium | 2825.00 | B | 2966.00 | B | 5.0 | | P |
| Thallium | 2.80 | U | 14.80 | B | 100.0 | | P |
| Vanadium | 2.20 | U | 11.00 | U | | | P |
| Zinc | 5.70 | U | 28.50 | U | | | P |

USEPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006

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

Flame AA ID Number: Lachat Cyanide

Furnace AA ID Number: _____

| Analyte | Wave-length (nm) | Back-ground | CRDL (ug/L) | IDL (ug/L) | M |
|---------|------------------|-------------|-------------|------------|----|
| Cyanide | | | 10 | 10.0 | AS |

Comments:

USEPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006

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: _____

USEPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006

ICP ID Number: TJA ICAP 5 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 |
|-----------|------------------|-------------|-------------|------------|---|
| Potassium | 766.491 | | 5000 | 370.7 | P |

Comments:

USEPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006ICP 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 |
|-----------|------------------|-------------|-------------|------------|---|
| Aluminum | 308.215 | | 200 | 18.3 | P |
| Antimony | 206.838 | | 60 | 3.8 | P |
| Arsenic | 189.042 | | 10 | 2.4 | P |
| Barium | 493.409 | | 200 | 7.3 | P |
| Beryllium | 313.042 | | 5 | 0.2 | P |
| Cadmium | 226.502 | | 5 | 0.3 | P |
| Calcium | 317.933 | | 5000 | 223.2 | P |
| Chromium | 267.716 | | 10 | 0.6 | P |
| Cobalt | 228.616 | | 50 | 1.8 | P |
| Copper | 324.754 | | 25 | 1.4 | P |
| Iron | 271.441 | | 100 | 16.8 | P |
| Lead | 220.353 | | 3 | 1.5 | P |
| Magnesium | 279.079 | | 5000 | 181.7 | P |
| Manganese | 257.610 | | 15 | 0.7 | P |
| Nickel | 231.604 | | 40 | 2.0 | P |
| Selenium | 196.026 | | 5 | 1.7 | P |
| Silver | 328.068 | | 10 | 0.9 | P |
| Sodium | 330.232 | | 5000 | 218.8 | P |
| Thallium | 190.864 | | 10 | 2.8 | P |
| Vanadium | 292.402 | | 50 | 2.2 | P |
| Zinc | 206.200 | | 20 | 5.7 | P |

Comments: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006

ICP ID Number: TJA ICAP 5 Date: 10/2/2002

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | | |
|------------|------------------|--------------------------------------|-----------|------------|-----------|-----------|
| | | Al | Ca | Fe | Mg | Ag |
| 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 | 0.0000050 | 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 |
| Cadmium | 226.50 | 0.0000070 | 0.0000000 | 0.0000830 | 0.0000000 | 0.0000000 |
| Calcium | 317.93 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.72 | 0.0000290 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cobalt | 228.61 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper | 324.75 | 0.0000000 | 0.0000000 | 0.0000060 | 0.0000000 | 0.0000000 |
| Iron | 271.44 | 0.0001300 | 0.0000000 | 0.0000000 | -0.000400 | 0.0000000 |
| Lead | 220.35 | 0.0008600 | 0.0000000 | 0.0000920 | -0.000008 | 0.0000000 |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 294.92 | 0.0000000 | 0.0000000 | 0.0006580 | 0.0000180 | 0.0000000 |
| Molybdenum | 202.03 | 0.0000000 | 0.0000000 | 0.0000260 | 0.0000000 | 0.0000000 |
| Nickel | 231.60 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Phosphorus | 178.29 | 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 | 0.0000100 | 0.0000000 | -0.0001300 | -0.000010 | 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 |
| Strontium | 421.55 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.86 | -0.0000090 | 0.0000000 | -0.0004350 | 0.0000000 | 0.0000000 |
| Titanium | 334.94 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Vanadium | 292.40 | 0.0000000 | 0.0000000 | -0.0003250 | 0.0000000 | 0.0000000 |
| Zinc | 213.85 | 0.0000000 | 0.0000000 | 0.0000800 | 0.0000390 | 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.: GCW006

ICP ID Number: TJA ICAP 5 Date: 10/2/2002

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | | |
|------------|------------------|--------------------------------------|-----------|-----------|-----------|------------|
| | | As | B | Be | Cd | Co |
| Aluminum | 308.22 | 0.0026340 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Antimony | 206.84 | 0.0002400 | 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 | 0.0000000 | 0.0000000 |
| Cadmium | 226.50 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000840 |
| 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 | 228.61 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper | 324.75 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000610 |
| Iron | 271.44 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0840960 |
| Lead | 220.35 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0026440 |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 294.92 | 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 | 0.0022990 |
| Phosphorus | 178.29 | 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 | 0.0000000 | 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 |
| Strontium | 421.55 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.86 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0018110 |
| Titanium | 334.94 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0002200 |
| Vanadium | 292.40 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc | 213.85 | 0.0000000 | 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.: GCW006
 ICP ID Number: TJA ICAP 5 Date: 10/2/2002

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | | |
|------------|------------------|--------------------------------------|------------|-----------|-----------|-----------|
| | | Cr | Cu | Mn | Na | Ni |
| Aluminum | 308.22 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Antimony | 206.84 | 0.0087280 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Arsenic | 189.04 | -0.0088830 | 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 | 0.0000000 | 0.0000000 |
| Cadmium | 226.50 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0001070 |
| 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 | 228.61 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| 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 | -0.0000530 | -0.0000340 | 0.0000000 | 0.0000000 | 0.0000000 |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 294.92 | -0.0015990 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Molybdenum | 202.03 | 0.0004700 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Nickel | 231.60 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Phosphorus | 178.29 | 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 | 0.0000000 | 0.0000000 | 0.0000000 |
| Silver | 328.07 | -0.0000990 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Sodium | 330.23 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Strontium | 421.55 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.86 | 0.0002810 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Titanium | 334.94 | 0.0002200 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Vanadium | 292.40 | -0.0020840 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc | 213.85 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

Comments: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006

ICP ID Number: TJA ICAP 5 Date: 10/2/2002

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | | |
|------------|------------------|--------------------------------------|------------|----------|----------|-----------|
| | | Pb | Sb | Se | Si | Tl |
| Aluminum | 308.22 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Antimony | 206.84 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Arsenic | 189.04 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Barium | 493.41 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Beryllium | 313.04 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Cadmium | 226.50 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Calcium | 317.93 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Chromium | 267.72 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Cobalt | 228.61 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Copper | 324.75 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Iron | 271.44 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Lead | 220.35 | 0.000000 | -0.0001650 | 0.000000 | 0.000000 | 0.000000 |
| Magnesium | 279.08 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Manganese | 294.92 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Molybdenum | 202.03 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Nickel | 231.60 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0005120 |
| Phosphorus | 178.29 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Potassium | 766.49 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Selenium | 196.03 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000650 |
| Silver | 328.07 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Sodium | 330.23 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Strontium | 421.55 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Thallium | 190.86 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Titanium | 334.94 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Vanadium | 292.40 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Zinc | 213.85 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

Comments: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006
 ICP ID Number: TJA ICAP 5 Date: 10/2/2002

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | |
|------------|------------------|--------------------------------------|-----------|--|--|
| | | V | Zn | | |
| Aluminum | 308.22 | -0.0084630 | 0.0000000 | | |
| Antimony | 206.84 | -0.0060220 | 0.0000000 | | |
| Arsenic | 189.04 | 0.0000000 | 0.0000000 | | |
| Barium | 493.41 | 0.0000000 | 0.0000000 | | |
| Beryllium | 313.04 | 0.0009440 | 0.0000000 | | |
| Cadmium | 226.50 | 0.0000000 | 0.0000000 | | |
| Calcium | 317.93 | 0.0000000 | 0.0000000 | | |
| Chromium | 267.72 | -0.0001950 | 0.0000000 | | |
| Cobalt | 228.61 | 0.0000000 | 0.0000000 | | |
| Copper | 324.75 | 0.0000000 | 0.0000000 | | |
| Iron | 271.44 | 0.0124990 | 0.0000000 | | |
| Lead | 220.35 | 0.0000000 | 0.0000000 | | |
| Magnesium | 279.08 | 0.0000000 | 0.0000000 | | |
| Manganese | 294.92 | 0.0078880 | 0.0000000 | | |
| Molybdenum | 202.03 | -0.0000010 | 0.0000000 | | |
| Nickel | 231.60 | 0.0000000 | 0.0000000 | | |
| Phosphorus | 178.29 | 0.0000000 | 0.0000000 | | |
| Potassium | 766.49 | 0.0000000 | 0.0000000 | | |
| Selenium | 196.03 | 0.0000920 | 0.0000000 | | |
| Silver | 328.07 | 0.0000910 | 0.0000000 | | |
| Sodium | 330.23 | 0.0000000 | 0.0593250 | | |
| Strontium | 421.55 | 0.0000000 | 0.0000000 | | |
| Thallium | 190.86 | -0.0011100 | 0.0000000 | | |
| Titanium | 334.94 | 0.0000000 | 0.0000000 | | |
| Vanadium | 292.40 | 0.0000000 | 0.0000000 | | |
| Zinc | 213.85 | -0.0000350 | 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.: GCW006

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: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006
 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: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006
 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: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006
 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: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006
 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.: GCW006

ICP ID Number: TJA ICAP 5 Date: 7/1/2003

| Analyte | Integ. Time (Sec.) | Concentration (ug/L) | M |
|-----------|--------------------|----------------------|---|
| Potassium | 10.00 | 100000.0 | P |

Comments:

USEPA - CLP

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006ICP ID Number: TJA ICAP 6 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 | 100000.0 | P |
| Iron | 10.00 | 1000000.0 | P |
| Lead | 10.00 | 50000.0 | P |
| Magnesium | 10.00 | 600000.0 | P |
| Manganese | 10.00 | 10000.0 | P |
| Nickel | 10.00 | 50000.0 | P |
| Selenium | 10.00 | 5000.0 | 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 | 10000.0 | P |

Comments:

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006Method: AS

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|-------------------|---------------------|----------------------|----------------|
| BLUESTPWP05 | 8/1/2003 | 50.0 | 50.0 |
| BLUESTPWP06 | 8/1/2003 | 50.0 | 50.0 |
| BLUESTPWP07 | 8/1/2003 | 50.0 | 50.0 |
| BLUESTPWR05 | 8/1/2003 | 50.0 | 50.0 |
| BLUESTPWR06 | 8/1/2003 | 50.0 | 50.0 |
| BLUESTSFW05 | 8/1/2003 | 50.0 | 50.0 |
| BLUESTSFW05100 | 8/1/2003 | 50.0 | 50.0 |
| BLUESTSFW06 | 8/1/2003 | 50.0 | 50.0 |
| BLUESTSFW07 | 8/1/2003 | 50.0 | 50.0 |
| BLUESTSFW08 | 8/1/2003 | 50.0 | 50.0 |
| ICV | 8/1/2003 | 50.0 | 50.0 |
| LCS0801A | 8/1/2003 | 50.0 | 50.0 |
| LCSD0801A | 8/1/2003 | 50.0 | 50.0 |
| PBW0801A | 8/1/2003 | 50.0 | 50.0 |

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006Method: CV

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|-----------------|------------------|-------------------|-------------|
| BLUESTPWP05F | 8/11/2003 | 100.0 | 100.0 |
| BLUESTPWP06F | 8/11/2003 | 100.0 | 100.0 |
| BLUESTPWP07F | 8/11/2003 | 100.0 | 100.0 |
| BLUESTPWR05F | 8/11/2003 | 100.0 | 100.0 |
| BLUESTPWR06F | 8/11/2003 | 100.0 | 100.0 |
| BLUESTSFW05 | 8/11/2003 | 100.0 | 100.0 |
| BLUESTSFW05100 | 8/11/2003 | 100.0 | 100.0 |
| BLUESTSFW05100F | 8/11/2003 | 100.0 | 100.0 |
| BLUESTSFW05F | 8/11/2003 | 100.0 | 100.0 |
| BLUESTSFW06 | 8/11/2003 | 100.0 | 100.0 |
| BLUESTSFW06F | 8/11/2003 | 100.0 | 100.0 |
| BLUESTSFW07 | 8/11/2003 | 100.0 | 100.0 |
| BLUESTSFW07F | 8/11/2003 | 100.0 | 100.0 |
| BLUESTSFW08 | 8/11/2003 | 100.0 | 100.0 |
| BLUESTSFW08F | 8/11/2003 | 100.0 | 100.0 |
| LCSW0811E | 8/11/2003 | 100.0 | 100.0 |
| PBW0811E | 8/11/2003 | 100.0 | 100.0 |

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006Method: P

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|-------------------|---------------------|----------------------|----------------|
| BLUESTPWP05F | 8/8/2003 | 100.0 | 100.0 |
| BLUESTPWP06F | 8/8/2003 | 100.0 | 100.0 |
| BLUESTPWP07F | 8/8/2003 | 100.0 | 100.0 |
| BLUESTPWR05F | 8/8/2003 | 100.0 | 100.0 |
| BLUESTPWR06F | 8/8/2003 | 100.0 | 100.0 |
| BLUESTSFW05 | 8/8/2003 | 100.0 | 100.0 |
| BLUESTSFW05100 | 8/8/2003 | 100.0 | 100.0 |
| BLUESTSFW05F | 8/8/2003 | 100.0 | 100.0 |
| BLUESTSFW06 | 8/8/2003 | 100.0 | 100.0 |
| BLUESTSFW06F | 8/8/2003 | 100.0 | 100.0 |
| BLUESTSFW07 | 8/8/2003 | 100.0 | 100.0 |
| BLUESTSFW07F | 8/8/2003 | 100.0 | 100.0 |
| BLUESTSFW08 | 8/8/2003 | 100.0 | 100.0 |
| BLUESTSFW08F | 8/8/2003 | 100.0 | 100.0 |
| LCSDW0808F | 8/8/2003 | 100.0 | 100.0 |
| LCSW0808F | 8/8/2003 | 100.0 | 100.0 |
| PBW0808F | 8/8/2003 | 100.0 | 100.0 |

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW006Method: P

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|-------------------|---------------------|----------------------|----------------|
| BLUESTSEFW05100F | 8/11/2003 | 100.0 | 100.0 |
| LCSW0811A | 8/11/2003 | 100.0 | 100.0 |
| PBW0811A | 8/11/2003 | 100.0 | 100.0 |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLYT Case No.: 23046 SAS No.: _____ SDG No.: GCW006
 Instrument ID Number: TJA ICAP 6 Method: P
 Start Date: 8/29/2003 End Date: 8/29/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | A L | N T | T V | Z N | C N | | | | |
| S0 | 1.00 | 1220 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| S | 1.00 | 1224 | | X | | | | | X | | | | X | X | | | | | | | | X | | | | | | | | | |
| S | 1.00 | 1228 | | | X | X | | | | | | | X | | | | | | | X | | | X | | | | | | | | |
| S | 1.00 | 1232 | | | | | X | X | X | | X | X | X | | | X | X | | X | | X | | | X | X | | | | | | |
| LRS | 1.00 | 1236 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| LRS | 1.00 | 1240 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| LRS | 1.00 | 1244 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICV | 1.00 | 1249 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICB | 1.00 | 1253 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICSA | 1.00 | 1257 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICSAB | 1.00 | 1301 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CRI | 1.00 | 1305 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCV | 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 | X | X | X | | | |
| CCB | 1.00 | 1313 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| PBW0808F | 1.00 | 1318 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| LCSW0808F | 1.00 | 1322 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| LCSDW0808F | 1.00 | 1326 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLUESTSEW05 | 1.00 | 1330 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLUESTSEW05L | 5.00 | 1334 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLUESTSEW05F | 1.00 | 1338 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLUESTSEW05100 | 1.00 | 1342 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLUESTPWR05F | 1.00 | 1346 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLUESTPWP05F | 1.00 | 1350 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLUESTSEW06 | 1.00 | 1354 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCV | 1.00 | 1358 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCB | 1.00 | 1402 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLUESTSEW06F | 1.00 | 1406 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLUESTPWP06F | 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 | X | X | X | | | |
| BLUESTPWR06F | 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 | X | X | X | | | |
| BLUESTSEW07 | 1.00 | 1419 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLUESTSEW07F | 1.00 | 1423 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLUESTSEW08 | 1.00 | 1427 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLUESTSEW08F | 1.00 | 1431 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLUESTPWP07F | 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 | X | X | X | | | |
| CCV | 1.00 | 1439 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCB | 1.00 | 1443 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| PBW0811A | 1.00 | 1447 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| LCSW0811A | 1.00 | 1451 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |



**Geotechnical Analysis
Sample Data Summary Package**

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

BLUESTSFW05

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW006

Lab Code: STLV

Case No.: 23046

Lab Sample ID: 535754

Matrix: WATER

Client: EASEAT

Date Received: 07/24/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------------|---------------------|------------------|-------|----|----|-------|-------|
| QSOA | Redox Potential D1498 | 08/18/03 | | mV | 1 | 10 | 158 | |

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

BLUESTSF05100

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW006

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535756

Matrix: WATER

Client: EASEAT

Date Received: 07/24/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------------|---------------------|------------------|-------|----|----|-------|-------|
| QSOA | Redox Potential D1498 | 08/18/03 | | mV | 1 | 10 | 170 | |

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

BLUESTSFW06

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW006

Lab Code: STLV

Case No.: 23046

Lab Sample ID: 535762

Matrix: WATER

Client: EASEAT

Date Received: 07/24/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------------|---------------------|------------------|-------|----|----|-------|-------|
| QSOA | Redox Potential D1498 | 08/18/03 | | mV | 1 | 10 | 168 | |

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

BLUESTSFW07

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW006

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535768

Matrix: WATER

Client: EASEAT

Date Received: 07/24/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------------|---------------------|------------------|-------|----|----|-------|-------|
| QSOA | Redox Potential D1498 | 08/18/03 | | mV | 1 | 10 | 172 | |

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

BLUESTSFW08

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW006

Lab Code: STLV

Case No.: 23046

Lab Sample ID: 535770

Matrix: WATER

Client: EASEAT

Date Received: 07/24/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------------|---------------------|------------------|-------|----|----|-------|-------|
| QSOA | Redox Potential D1498 | 08/18/03 | | mV | 1 | 10 | 169 | |

September 16, 2003

Ms. Jennifer Kindred
EA Engineering
12011 Bellevue-Redmond Rd.
Suite 200
Bellevue, WA 98005

Re: Laboratory Project No. 23046
Case No. 23046; SDG: GCW007

Dear Ms. Kindred:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on July 26, 2003. Laboratory numbers have been assigned and designated as follows:

| <u>Lab ID</u> | <u>Client Sample ID</u> | <u>Sample Date</u> | <u>Sample Matrix</u> |
|----------------------------------|-----------------------------|------------------------|--------------------------|
| Received: 07/24/03 ETR No: 94997 | | | |
| 535781 | BLUESTPWR07 | 07/20/03 | Water |
| 535782 | BLUESTPWR07F | 07/20/03 | Water |
| 535783 | BLUESTPWR08 | 07/20/03 | Water |
| 535784 | BLUESTPWR08F | 07/20/03 | Water |
| 535785 | BLUESTPWP08 | 07/20/03 | Water |
| 535786 | BLUESTPWP08F | 07/20/03 | Water |

| | | | |
|----------------------------------|-------------------|----------|-------|
| Received: 07/26/03 ETR No: 95010 | | | |
| 535965 | BLACSTSFW01(100) | 07/23/03 | Water |
| 535966 | BLACSTSFW01(100)F | 07/23/03 | Water |
| 535967 | BLACSTSFW01 | 07/23/03 | Water |
| 535968 | BLACSTSFW01F | 07/23/03 | Water |
| 535969 | GRANRS01 | 07/24/03 | Water |

Due to reporting software limitations, sample identifications may have been truncated. In most instances only punctuation was removed.

Documentation that identifies the condition of the samples at the time of sample receipt and the issues arising at the time of sample log-in is included in the Sample Handling section of this submittal. Please note that the laboratory received only 1-500 mL unpreserved container was received for sample BLACSTSFW01 (100). The sample was consumed and the following analyses could not be completed on this sample: total solids, total dissolved solids, total volatile solids, conductivity, sulfate and oxidation reduction potential.

Severn Trent Laboratories, Inc.
STL Burlington • 208 South Park Drive, Suite 1, Colchester, VT 05446
Tel 802 655 1203 Fax 802 655 1248 • www.stl-inc.com

This narrative identifies anomalies that occurred during the analyses of samples in this delivery group. If there is no description following regarding a certain methodology requested on the chain-of-custody record, then there were no exceptions to the laboratory quality control criteria noted during that analysis.

The analysis for arsenic speciation was performed by STL's North Canton facility, as approved by EA Engineering. STL North Canton assigned "Lot" numbers as samples were received. Though laboratory numbers may differ, the client's sample identifications were maintained. The results for this delivery group including a case narrative prepared by the North Canton laboratory are attached to the extended data package.

Alkalinity by 310.1

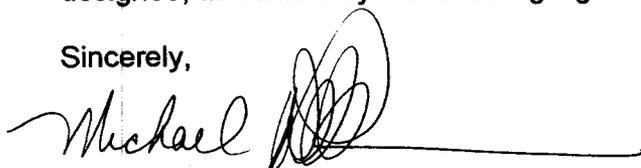
During the analysis that occurred on August 4, 2003, the continuing calibration standard exhibited a recovery of 125 percent which was above the laboratory control limit of 90-110 percent. This sample could not be reanalyzed due to insufficient volume remaining. During the analysis that occurred on August 5, 2003, the recovery from the continuing calibration standard was 111 percent which was just above the laboratory control limit of 90-110 percent. All other quality control criteria associated with this analytical run proved acceptable.

If there are any questions regarding this submittal, please contact Jeannine McCrumb at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 0001 and ending with page 0376.

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. The release of the data contained in this hardcopy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,



Michael F. Wheeler, Ph.D.
Laboratory Director

Enclosure
MFW/jtd/jmm

STL Burlington
Colchester, Vermont

Sample Data Summary
Package

SDG: GCW007

September 16, 2003

Ms. Jennifer Kindred
EA Engineering
12011 Bellevue-Redmond Rd.
Suite 200
Bellevue, WA 98005

Re: Laboratory Project No. 23046
Case No. 23046; SDG: GCW007

Dear Ms. Kindred:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on July 26, 2003. Laboratory numbers have been assigned and designated as follows:

| <u>Lab ID</u> | <u>Client Sample ID</u> | <u>Sample Date</u> | <u>Sample Matrix</u> |
|----------------------------------|-----------------------------|------------------------|--------------------------|
| Received: 07/24/03 ETR No: 94997 | | | |
| 535781 | BLUESTPWR07 | 07/20/03 | Water |
| 535782 | BLUESTPWR07F | 07/20/03 | Water |
| 535783 | BLUESTPWR08 | 07/20/03 | Water |
| 535784 | BLUESTPWR08F | 07/20/03 | Water |
| 535785 | BLUESTPWP08 | 07/20/03 | Water |
| 535786 | BLUESTPWP08F | 07/20/03 | Water |

| | | | |
|----------------------------------|-------------------|----------|-------|
| Received: 07/26/03 ETR No: 95010 | | | |
| 535965 | BLACSTSFW01(100) | 07/23/03 | Water |
| 535966 | BLACSTSFW01(100)F | 07/23/03 | Water |
| 535967 | BLACSTSFW01 | 07/23/03 | Water |
| 535968 | BLACSTSFW01F | 07/23/03 | Water |
| 535969 | GRANRS01 | 07/24/03 | Water |

Due to reporting software limitations, sample identifications may have been truncated. In most instances only punctuation was removed.

Documentation that identifies the condition of the samples at the time of sample receipt and the issues arising at the time of sample log-in is included in the Sample Handling section of this submittal. Please note that the laboratory received only 1-500 mL unpreserved container was received for sample BLACSTSFW01 (100). The sample was consumed and the following analyses could not be completed on this sample: total solids, total dissolved solids, total volatile solids, conductivity, sulfate and oxidation reduction potential.

Severn Trent Laboratories, Inc.
STL Burlington • 208 South Park Drive, Suite 1, Colchester, VT 05446
Tel 802 655 1203 Fax 802 655 1248 • www.stl-inc.com

This narrative identifies anomalies that occurred during the analyses of samples in this delivery group. If there is no description following regarding a certain methodology requested on the chain-of-custody record, then there were no exceptions to the laboratory quality control criteria noted during that analysis.

The analysis for arsenic speciation was performed by STL's North Canton facility, as approved by EA Engineering. STL North Canton assigned "Lot" numbers as samples were received. Though laboratory numbers may differ, the client's sample identifications were maintained. The results for this delivery group including a case narrative prepared by the North Canton laboratory are attached to the extended data package.

Alkalinity by 310.1

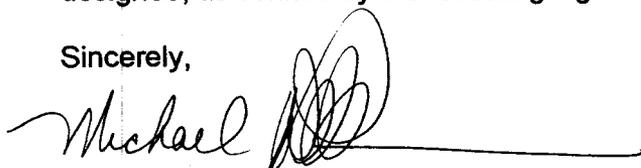
During the analysis that occurred on August 4, 2003, the continuing calibration standard exhibited a recovery of 125 percent which was above the laboratory control limit of 90-110 percent. This sample could not be reanalyzed due to insufficient volume remaining. During the analysis that occurred on August 5, 2003, the recovery from the continuing calibration standard was 111 percent which was just above the laboratory control limit of 90-110 percent. All other quality control criteria associated with this analytical run proved acceptable.

If there are any questions regarding this submittal, please contact Jeannine McCrumb at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 0001 and ending with page 0376.

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. The release of the data contained in this hardcopy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,



Michael F. Wheeler, Ph.D.
Laboratory Director

Enclosure
MFW/jtd/jmm

5075

| | | | |
|--|--|---|--|
| Report to: | | Invoice to: | |
| Company: <u>EA Engineering</u> | | Company: <u>Severn</u> | |
| Address: <u>12011 Bel-Red Rd Suite 200</u> <u>Belleve, WA 98005</u> | | Address: _____ | |
| Contact: <u>Jan Kindred</u> | | Contact: _____ | |
| Phone: <u>425-451-7400</u> | | Phone: _____ | |
| Fax: <u>425-451-7800</u> | | Fax: _____ | |
| Contract/Quote: _____ | | Temp. of coolers when received (C°): 1 2 3 4 5 | |
| Sampler's Name: <u>Don Norman</u> | | Custody Seal Intact: <u>N/Y</u> | |
| Sampler's Signature: <u>Don Norman</u> | | Screened For Radioactivity: <input type="checkbox"/> | |

| Matrix | Date | Time | Identifying Marks of Sample(s) | No./Type of Containers | | | ANALYSIS REQUESTED |
|--------|------|------|--------------------------------|------------------------|-----------|------------|--|
| | | | | VOA | A/G 1 Lt. | 250 ml P/O | |
| W | 7/23 | 1100 | BLAC-ST-SFW-01 (100) | 1 | 1 | | Arsenic Speciation pH, SO4, redox, spec cond, etc. - per contract TAL Metals - Total TAL Metals - dissolved TSS/TDS Cyanide |
| W | 7/23 | 1100 | BLAC-ST-SFW-01 | 3 | 2 | | |
| W | 7/24 | 1800 | GRAN-RS-01 | | 1 | | |
| | | | | | | | |

Project No: 13890.16 Project Name: Grant Creek Watershed

Reinquired by: (Signature) [Signature] Date: 7/25/03 Time: 10:00 Received by: (Signature) [Signature] Date: 7/26/03 Time: 10:45

Reinquired by: (Signature) _____ Date: _____ Time: _____ Received by: (Signature) _____ Date: _____ Time: _____

Reinquired by: (Signature) _____ Date: _____ Time: _____ Received by: (Signature) _____ Date: _____ Time: _____

Matrix: WW - Wastewater W - Water S - Soil L - Liquid A - Air Bag C - Charcoal Tube SL - Sludge O - Oil

Container: VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other 500 mL

Remarks: * only 16 oz. volume available for this sample for TSS/TDS and pH, redox, SO4 etc. analyses.

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248



**Sample Data Summary Package
For Wet Chemistry**

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTSF01(100)

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW007

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535965

Matrix: WATER

Client: EASEAT

Date Received: 07/26/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------------|---------------------|------------------|----------|----|-----|-------|-------|
| 130.2 | Total Hardness as CaCO3 | 08/11/03 | BLKHA0811A | mg/L | 1 | 2.0 | 116 | |
| 310.1 | Hydroxide Alkalinity | 08/04/03 | BLKAL0804A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Carbonate Alkalinity | 08/04/03 | BLKAL0804A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Bicarbonate Alkalinity | 08/04/03 | BLKAL0804A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Total Alkalinity | 08/04/03 | BLKAL0804A | mg/L | 1 | 1.0 | 1.0 | U |
| 9040B | Corrosivity by pH | 07/28/03 | | pH Units | 1 | 0.1 | 7.8 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTSF01

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW007

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535967

Matrix: WATER

Client: EASEAT

Date Received: 07/26/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|---------------------------|---------------------|------------------|----------|----|-------|-------|-------|
| 120.1 | Conductivity (umhos/cm) | 08/12/03 | | umhos/cm | 1 | 0.000 | 463 | |
| 130.2 | Total Hardness as CaCO3 | 08/11/03 | BLKHA0811A | mg/L | 1 | 2.0 | 108 | |
| 160.1 | Total Dissolved Solids | 07/30/03 | BLKDS0730B | mg/L | 1 | 5.0 | 90.0 | |
| 160.2 | Total Suspended Solids | 07/28/03 | BLKSS0728E | mg/L | 1 | 0.50 | 1.5 | |
| 160.4 | Volatile Suspended Solids | 07/28/03 | | mg/L | 1 | 5.0 | 5.0 | U |
| 310.1 | Hydroxide Alkalinity | 08/05/03 | BLKAL0805A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Carbonate Alkalinity | 08/05/03 | BLKAL0805A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Bicarbonate Alkalinity | 08/05/03 | BLKAL0805A | mg/L | 1 | 1.0 | 60.0 | |
| 310.1 | Total Alkalinity | 08/05/03 | BLKAL0805A | mg/L | 1 | 1.0 | 60.0 | |
| 375.4 | Sulfate | 08/11/03 | BLKSU0811A | mg/L | 1 | 5.0 | 6.9 | |
| 9040B | Corrosivity by pH | 07/28/03 | | pH Units | 1 | 0.1 | 7.8 | |

WET CHEMISTRY

Method Blank Report Summary

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW007

Lab Code: STLVT

Case No.: 23046

Matrix: WATER

Client: EASEAT

% Solids:

| Lab Sample ID | Method | Parameter | Conc. | Units | Qual. | DF | RL | Analytical Run Date | Analytical Batch |
|---------------|--------|-------------------------|-------|-------|-------|----|------|---------------------|------------------|
| BLKAL0804A | 310.1 | Hydroxide Alkalinity | 1.0 | mg/L | U | 1 | 1.0 | 08/04/03 | BLKAL0804A |
| BLKAL0804A | 310.1 | Carbonate Alkalinity | 1.0 | mg/L | U | 1 | 1.0 | 08/04/03 | BLKAL0804A |
| BLKAL0804A | 310.1 | Bicarbonate Alkalinity | 1.0 | mg/L | U | 1 | 1.0 | 08/04/03 | BLKAL0804A |
| BLKAL0804A | 310.1 | Total Alkalinity | 1.0 | mg/L | U | 1 | 1.0 | 08/04/03 | BLKAL0804A |
| BLKAL0805A | 310.1 | Hydroxide Alkalinity | 1.0 | mg/L | U | 1 | 1.0 | 08/05/03 | BLKAL0805A |
| BLKAL0805A | 310.1 | Carbonate Alkalinity | 1.0 | mg/L | U | 1 | 1.0 | 08/05/03 | BLKAL0805A |
| BLKAL0805A | 310.1 | Bicarbonate Alkalinity | 1.0 | mg/L | U | 1 | 1.0 | 08/05/03 | BLKAL0805A |
| BLKAL0805A | 310.1 | Total Alkalinity | 1.0 | mg/L | U | 1 | 1.0 | 08/05/03 | BLKAL0805A |
| BLKDS0730A | 160.1 | Total Dissolved Solids | 5.0 | mg/L | U | 1 | 5.0 | 07/30/03 | BLKDS0730A |
| BLKDS0730B | 160.1 | Total Dissolved Solids | 5.0 | mg/L | U | 1 | 5.0 | 07/30/03 | BLKDS0730B |
| BLKHA0811A | 130.2 | Total Hardness as CaCO3 | 2.0 | mg/L | U | 1 | 2.0 | 08/11/03 | BLKHA0811A |
| BLKSS0728E | 160.2 | Total Suspended Solids | 0.50 | mg/L | U | 1 | 0.50 | 07/28/03 | BLKSS0728E |
| BLKSU0811A | 375.4 | Sulfate | 5.0 | mg/L | U | 1 | 5.0 | 08/11/03 | BLKSU0811A |

WET CHEMISTRY

Laboratory Control Sample Report Summary

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW007

Lab Code: STLVT

Case No.: 23046

Matrix: WATER

Client: EASEAT

% Solids:

| Lab Sample ID | Method | Parameter | Analytical Run Date | Analytical Batch | Units | LCS Conc. | True Value | % Recovery* |
|---------------|--------|-------------------------|---------------------|------------------|----------|-----------|------------|-------------|
| LCS DS0730A | 160.1 | Total Dissolved Solids | 07/30/03 | BLKDS0730A | mg/L | 50.0 | 50.0 | 100.0 |
| LCS DS0730B | 160.1 | Total Dissolved Solids | 07/30/03 | BLKDS0730B | mg/L | 50.0 | 50.0 | 100.0 |
| LCSAL0804A | 310.1 | Hydroxide Alkalinity | 08/04/03 | BLKAL0804A | mg/L | 47.9 | 44.4 | 107.8 |
| LCSAL0804A | 310.1 | Carbonate Alkalinity | 08/04/03 | BLKAL0804A | mg/L | 47.9 | 44.4 | 107.8 |
| LCSAL0804A | 310.1 | Bicarbonate Alkalinity | 08/04/03 | BLKAL0804A | mg/L | 47.9 | 44.4 | 107.8 |
| LCSAL0804A | 310.1 | Total Alkalinity | 08/04/03 | BLKAL0804A | mg/L | 47.9 | 44.4 | 107.8 |
| LCSAL0805A | 310.1 | Hydroxide Alkalinity | 08/05/03 | BLKAL0805A | mg/L | 42.3 | 44.4 | 95.4 |
| LCSAL0805A | 310.1 | Carbonate Alkalinity | 08/05/03 | BLKAL0805A | mg/L | 42.3 | 44.4 | 95.4 |
| LCSAL0805A | 310.1 | Bicarbonate Alkalinity | 08/05/03 | BLKAL0805A | mg/L | 42.3 | 44.4 | 95.4 |
| LCSAL0805A | 310.1 | Total Alkalinity | 08/05/03 | BLKAL0805A | mg/L | 42.3 | 44.4 | 95.4 |
| LCSCD0812A | 120.1 | Conductivity (umhos/cm) | 08/12/03 | | umhos/c | 1000 | 997.0000 | 100.3 |
| LCSHA0811A | 130.2 | Total Hardness as CaCO3 | 08/11/03 | BLKHA0811A | mg/L | 124 | 121.0000 | 102.5 |
| LCSPH0728A | 9040B | Corrosivity by pH | 07/28/03 | | pH Units | 6.0 | 6.0000 | 100.5 |
| LCSS0728E | 160.2 | Total Suspended Solids | 07/28/03 | BLKSS0728E | mg/L | 500 | 500 | 100.0 |
| LCSSU0811A | 375.4 | Sulfate | 08/11/03 | BLKSU0811A | mg/L | 9.6 | 10.0 | 96.0 |

* Control Limit for Percent Recovery is 80-120%, unless otherwise specified.

WET CHEMISTRY

Laboratory Control Sample Duplicate Report Summary

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW007

Lab Code: STLVY

Case No.: 23046

Matrix: WATER

Client: EASEAT

% Solids:

| Lab Sample ID | Method | Parameter | Analytical Run Date | Analytical Batch | Units | LCS Conc. | True Value | % Recovery* | RPD** |
|---------------|--------|-------------------------------------|---------------------|------------------|----------|-----------|------------|-------------|-------|
| LCSDHA0811A | 130.2 | Total Hardness as CaCO ₃ | 08/11/03 | BLKHA0811A | mg/L | 124 | 121.0000 | 102.5 | 0 |
| LCSDPH0728A | 9040B | Corrosivity by pH | 07/28/03 | | pH Units | 6.0 | 6.0000 | 100.3 | 0 |

* Control Limit for Percent Recovery is 80-120%, unless otherwise specified.

** Control Limit for RPD is +/- 20%, unless otherwise specified.



**Sample Data Summary Package
For Metals**

USEPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007

SOW No.: ILM04.1

| EPA Sample No. | Lab Sample ID. |
|-------------------------|----------------|
| <u>BLACSTSF01</u> | <u>535967</u> |
| <u>BLACSTSF01(100)</u> | <u>535965</u> |
| <u>BLACSTSF01(100)F</u> | <u>535966</u> |
| <u>BLACSTSF01F</u> | <u>535968</u> |
| <u>BLUESTPWP08</u> | <u>535785</u> |
| <u>BLUESTPWP08F</u> | <u>535786</u> |
| <u>BLUESTPWR07</u> | <u>535781</u> |
| <u>BLUESTPWR07F</u> | <u>535782</u> |
| <u>BLUESTPWR08</u> | <u>535783</u> |
| <u>BLUESTPWR08F</u> | <u>535784</u> |
| <u>GRANRS01</u> | <u>535969</u> |

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: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTSEW01

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007

Matrix (soil/water): WATER Lab Sample ID: 535967

Level (low/med): LOW Date Received: 7/26/2003

% 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 | 23.6 | U | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 13.7 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 11200 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 39.6 | B | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 6800 | | | P |
| 7439-96-5 | Manganese | 3.9 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1010 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2110 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 1.5 | B | | P |
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTSEW01(100)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007
 Matrix (soil/water): WATER Lab Sample ID: 535965
 Level (low/med): LOW Date Received: 7/26/2003
 % 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 | 31.2 | B | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 14.1 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 11500 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 54.4 | B | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 7000 | | | P |
| 7439-96-5 | Manganese | 4.5 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1130 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2130 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 1.0 | U | | P |
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTSF01 (100) F

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007
 Matrix (soil/water): WATER Lab Sample ID: 535966
 Level (low/med): LOW Date Received: 7/26/2003
 % 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 | 23.6 | U | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 13.4 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 11300 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 33.3 | U | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 6860 | | | P |
| 7439-96-5 | Manganese | 2.0 | B | | P |
| 7439-97-6 | Mercury | 0.11 | B | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 970 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 1990 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 1.0 | U | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTSEW01F

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007
 Matrix (soil/water): WATER Lab Sample ID: 535968
 Level (low/med): LOW Date Received: 7/26/2003
 % 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 | 23.6 | U | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.9 | B | | P |
| 7440-39-3 | Barium | 13.5 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 11400 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 33.3 | U | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 6920 | | | P |
| 7439-96-5 | Manganese | 1.9 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 991 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2290 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 1.4 | B | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTPWF08

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007

Matrix (soil/water): WATER Lab Sample ID: 535785

Level (low/med): LOW Date Received: 7/24/2003

% Solids: 0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---------|---------|---------------|---|---|----|
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTPWP08F

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007
 Matrix (soil/water): WATER Lab Sample ID: 535786
 Level (low/med): LOW Date Received: 7/24/2003
 % 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 | 23.6 | U | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 14.2 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 11500 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 33.3 | U | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 6550 | | | P |
| 7439-96-5 | Manganese | 9.0 | B | | P |
| 7439-97-6 | Mercury | 0.15 | B | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1290 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2870 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 1.2 | B | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTPWRO7

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007

Matrix (soil/water): WATER Lab Sample ID: 535781

Level (low/med): LOW Date Received: 7/24/2003

% Solids: 0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---------|---------|---------------|---|---|----|
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTPWR07F

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007
 Matrix (soil/water): WATER Lab Sample ID: 535782
 Level (low/med): LOW Date Received: 7/24/2003
 % 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 | 44.8 | B | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 13.0 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 11600 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 49.0 | B | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 6680 | | | P |
| 7439-96-5 | Manganese | 1.9 | B | | P |
| 7439-97-6 | Mercury | 0.12 | B | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1090 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2830 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 1.0 | U | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTPWR08

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007

Matrix (soil/water): WATER Lab Sample ID: 535783

Level (low/med): LOW Date Received: 7/24/2003

% Solids: 0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---------|---------|---------------|---|---|----|
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTPWR08F

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007
 Matrix (soil/water): WATER Lab Sample ID: 535784
 Level (low/med): LOW Date Received: 7/24/2003
 % 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 | 23.6 | U | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 14.7 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 11300 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 33.3 | U | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 6510 | | | P |
| 7439-96-5 | Manganese | 3.4 | B | | P |
| 7439-97-6 | Mercury | 0.16 | B | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1130 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2740 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 6.2 | B | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

GRANRS01

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007
 Matrix (soil/water): WATER Lab Sample ID: 535969
 Level (low/med): LOW Date Received: 7/26/2003
 % 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 | 23.6 | U | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 5.9 | U | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 182 | U | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 3.8 | B | | P |
| 7439-89-6 | Iron | 150 | | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 178 | U | | P |
| 7439-96-5 | Manganese | 8.7 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 393 | U | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 473 | U | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 1.9 | B | | P |
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007Initial Calibration Source: Inorganic Ventures/FisherContinuing 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 | 26070.00 | 100.3 | 30200.0 | 29700.00 | 98.3 | 30280.00 | 100.3 | P |
| Antimony | 250.0 | 244.60 | 97.8 | 300.0 | 295.60 | 98.5 | 301.90 | 100.6 | P |
| Arsenic | 250.0 | 239.10 | 95.6 | 100.0 | 96.70 | 96.7 | 100.60 | 100.6 | P |
| Barium | 500.0 | 477.20 | 95.4 | 200.0 | 192.70 | 96.4 | 196.80 | 98.4 | P |
| Beryllium | 500.0 | 486.00 | 97.2 | 100.0 | 96.59 | 96.6 | 98.46 | 98.5 | P |
| Cadmium | 500.0 | 474.90 | 95.0 | 100.0 | 95.50 | 95.5 | 97.17 | 97.2 | P |
| Calcium | 25000.0 | 25020.00 | 100.1 | 30200.0 | 29810.00 | 98.7 | 30230.00 | 100.1 | P |
| Chromium | 500.0 | 481.00 | 96.2 | 200.0 | 191.00 | 95.5 | 195.90 | 98.0 | P |
| Cobalt | 500.0 | 475.30 | 95.1 | 200.0 | 192.80 | 96.4 | 196.90 | 98.4 | P |
| Copper | 500.0 | 484.10 | 96.8 | 200.0 | 195.40 | 97.7 | 198.80 | 99.4 | P |
| Iron | 25500.0 | 26050.00 | 102.2 | 30200.0 | 29940.00 | 99.1 | 30570.00 | 101.2 | P |
| Lead | 1000.0 | 952.30 | 95.2 | 400.0 | 379.10 | 94.8 | 385.70 | 96.4 | P |
| Magnesium | 25000.0 | 25060.00 | 100.2 | 30200.0 | 29690.00 | 98.3 | 30310.00 | 100.4 | P |
| Manganese | 500.0 | 476.70 | 95.3 | 200.0 | 192.50 | 96.2 | 196.60 | 98.3 | P |
| Mercury | 3.0 | 3.01 | 100.3 | 5.0 | 5.48 | 109.6 | 5.35 | 107.0 | CV |
| Nickel | 500.0 | 477.90 | 95.6 | 200.0 | 190.70 | 95.4 | 195.00 | 97.5 | P |
| Potassium | 25000.0 | 26160.00 | 104.6 | 30200.0 | 31060.00 | 102.8 | 31840.00 | 105.4 | P |
| Selenium | 250.0 | 234.40 | 93.8 | 100.0 | 96.11 | 96.1 | 98.99 | 99.0 | P |
| Silver | 500.0 | 481.80 | 96.4 | 100.0 | 95.54 | 95.5 | 98.52 | 98.5 | P |
| Sodium | 25000.0 | 24890.00 | 99.6 | 30200.0 | 28590.00 | 94.7 | 29590.00 | 98.0 | P |
| Thallium | 250.0 | 230.90 | 92.4 | 100.0 | 96.15 | 96.2 | 99.11 | 99.1 | P |
| Vanadium | 500.0 | 478.00 | 95.6 | 200.0 | 191.80 | 95.9 | 196.10 | 98.0 | P |
| Zinc | 500.0 | 484.50 | 96.9 | 200.0 | 194.80 | 97.4 | 199.20 | 99.6 | P |
| Cyanide | 120.0 | 118.90 | 99.1 | 150.0 | 145.58 | 97.1 | 149.18 | 99.5 | AS |

(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: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007Initial Calibration Source: Inorganic Ventures/FisherContinuing 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 | 29160.00 | 96.6 | 30350.00 | 100.5 | P |
| Antimony | | | | 300.0 | 289.10 | 96.4 | 302.10 | 100.7 | P |
| Arsenic | | | | 100.0 | 95.96 | 96.0 | 99.64 | 99.6 | P |
| Barium | | | | 200.0 | 188.00 | 94.0 | 196.70 | 98.4 | P |
| Beryllium | | | | 100.0 | 94.22 | 94.2 | 98.31 | 98.3 | P |
| Cadmium | | | | 100.0 | 92.67 | 92.7 | 96.65 | 96.6 | P |
| Calcium | | | | 30200.0 | 29330.00 | 97.1 | 30420.00 | 100.7 | P |
| Chromium | | | | 200.0 | 187.60 | 93.8 | 195.90 | 98.0 | P |
| Cobalt | | | | 200.0 | 189.60 | 94.8 | 197.80 | 98.9 | P |
| Copper | | | | 200.0 | 191.10 | 95.6 | 199.30 | 99.6 | P |
| Iron | | | | 30200.0 | 29400.00 | 97.4 | 30710.00 | 101.7 | P |
| Lead | | | | 400.0 | 371.20 | 92.8 | 386.60 | 96.6 | P |
| Magnesium | | | | 30200.0 | 29130.00 | 96.5 | 30310.00 | 100.4 | P |
| Manganese | | | | 200.0 | 188.30 | 94.2 | 196.60 | 98.3 | P |
| Mercury | | | | 5.0 | 5.45 | 109.0 | 5.29 | 105.8 | CV |
| Nickel | | | | 200.0 | 187.60 | 93.8 | 195.20 | 97.6 | P |
| Potassium | | | | 30200.0 | 30510.00 | 101.0 | 31750.00 | 105.1 | P |
| Selenium | | | | 100.0 | 94.37 | 94.4 | 101.50 | 101.5 | P |
| Silver | | | | 100.0 | 94.02 | 94.0 | 97.18 | 97.2 | P |
| Sodium | | | | 30200.0 | 28510.00 | 94.4 | 29530.00 | 97.8 | P |
| Thallium | | | | 100.0 | 96.75 | 96.8 | 99.27 | 99.3 | P |
| Vanadium | | | | 200.0 | 188.20 | 94.1 | 196.60 | 98.3 | P |
| Zinc | | | | 200.0 | 191.10 | 95.6 | 199.00 | 99.5 | P |
| Cyanide | | | | 150.0 | 150.51 | 100.3 | | | AS |

(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.: GCW007

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) | |
| Mercury | 3.0 | 2.87 | 95.7 | 5.0 | 5.00 | 100.0 | 4.44 | 88.8 | CV |
| Cyanide | 120.0 | 131.84 | 109.9 | 150.0 | 152.81 | 101.9 | 151.70 | 101.1 | AS |

(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.: GCW007

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) |
| Mercury | | | | 5.0 | 4.84 | 96.8 | 5.05 | 101.0 | CV |
| Cyanide | | | | 150.0 | 152.22 | 101.5 | | | AS |

(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.: GCW007

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) |
| Mercury | | | | 5.0 | 4.50 | 90.0 | 4.39 | 87.8 | CV |

(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.: GCW007

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) |
| Mercury | | | | 5.0 | 5.01 | 100.2 | | | CV |

(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.: GCW007

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 | 236.60 | 94.6 | 100.0 | 97.66 | 97.7 | 97.96 | 98.0 | 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.: GCW007

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 | 101.70 | 101.7 | 101.00 | 101.0 | 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: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007AA CRDL Standard Source: Inorganic VenturesICP CRDL Standard Source: Inorganic Ventures

Concentration Units: ug/L

| Analyte | True | Found | %R | CRDL Standard for ICP | | | | |
|-----------|------|-------|-------|-----------------------|----------|-------|----------|-------|
| | | | | Initial | | | Final | |
| | | | | True | Found | %R | Found | %R |
| Aluminum | | | | 400.0 | 502.00 | 125.5 | 476.30 | 119.1 |
| Antimony | | | | 120.0 | 121.40 | 101.2 | 117.50 | 97.9 |
| Arsenic | | | | 20.0 | 21.25 | 106.2 | 17.68 | 88.4 |
| Barium | | | | 400.0 | 386.00 | 96.5 | 370.90 | 92.7 |
| Beryllium | | | | 10.0 | 10.12 | 101.2 | 9.87 | 98.7 |
| Cadmium | | | | 10.0 | 10.02 | 100.2 | 9.37 | 93.7 |
| Calcium | | | | 10000.0 | 10450.00 | 104.5 | 10050.00 | 100.5 |
| Chromium | | | | 20.0 | 20.16 | 100.8 | 19.65 | 98.2 |
| Cobalt | | | | 100.0 | 95.94 | 95.9 | 92.68 | 92.7 |
| Copper | | | | 50.0 | 51.11 | 102.2 | 52.31 | 104.6 |
| Iron | | | | 200.0 | 280.80 | 140.4 | 282.00 | 141.0 |
| Lead | | | | 6.0 | 6.11 | 101.8 | 6.62 | 110.3 |
| Magnesium | | | | 10000.0 | 10270.00 | 102.7 | 9877.00 | 98.8 |
| Manganese | | | | 30.0 | 29.21 | 97.4 | 28.02 | 93.4 |
| Mercury | 0.2 | 0.26 | 130.0 | | | | | |
| Nickel | | | | 80.0 | 84.16 | 105.2 | 83.08 | 103.8 |
| Potassium | | | | 10000.0 | 10860.00 | 108.6 | 10430.00 | 104.3 |
| Selenium | | | | 10.0 | 10.03 | 100.3 | 7.87 | 78.7 |
| Silver | | | | 20.0 | 19.50 | 97.5 | 18.28 | 91.4 |
| Sodium | | | | 10000.0 | 10050.00 | 100.5 | 9496.00 | 95.0 |
| Thallium | | | | 20.0 | 19.77 | 98.8 | 16.44 | 82.2 |
| Vanadium | | | | 100.0 | 97.15 | 97.2 | 93.22 | 93.2 |
| Zinc | | | | 40.0 | 39.12 | 97.8 | 38.38 | 96.0 |

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.: GCW007

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 | | Final | | |
| | | | | True | Found | %R | Found | %R |
| Mercury | 0.2 | 0.33 | 165.0 | | | | | |

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.: GCW007

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 | 9.93 | 99.3 | 9.67 | 96.7 |

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

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCW007Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|-----------|-----------------------------|---|-------------------------------------|---|-------|---|-------|---|-------------------|---|----|
| | 1 | C | 1 | C | 2 | C | 3 | C | Preparation Blank | C | |
| Aluminum | 23.6 | U | 23.6 | U | 23.6 | U | 23.6 | U | -25.120 | B | P |
| Antimony | 4.7 | U | 4.7 | U | 4.7 | U | 4.7 | U | 4.700 | U | P |
| Arsenic | 4.8 | U | 4.8 | U | 4.8 | U | 4.8 | U | 4.800 | U | P |
| Barium | 5.9 | U | 5.9 | U | 5.9 | U | 5.9 | U | 5.900 | U | P |
| Beryllium | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | B | 0.200 | U | P |
| Cadmium | 0.6 | U | 0.6 | U | 0.6 | U | 0.6 | U | 0.600 | U | P |
| Calcium | 182.1 | U | 182.1 | U | 182.1 | U | 182.1 | U | 182.100 | U | P |
| Chromium | 1.4 | U | 1.4 | U | 1.4 | U | 1.4 | U | 1.400 | U | P |
| Cobalt | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.000 | U | P |
| Copper | 2.4 | U | 2.4 | U | 2.4 | U | 2.4 | U | 2.400 | U | P |
| Iron | 33.3 | U | 33.3 | U | 33.3 | U | 33.3 | U | 33.300 | U | P |
| Lead | 1.3 | U | 1.3 | U | 1.3 | U | 1.3 | U | 1.300 | U | P |
| Magnesium | 178.3 | U | 178.3 | U | 178.3 | U | 178.3 | U | 178.300 | U | P |
| Manganese | 0.7 | U | 0.7 | U | 0.7 | U | 0.7 | U | 0.700 | U | P |
| Mercury | 0.1 | B | 0.1 | B | 0.2 | B | 0.1 | B | 0.100 | U | CV |
| Nickel | 2.1 | U | 2.1 | U | 2.1 | U | 2.1 | U | 2.100 | U | P |
| Potassium | 393.0 | U | 393.0 | U | 393.0 | U | 393.0 | U | 393.000 | U | P |
| Selenium | 3.4 | U | 3.4 | U | 3.4 | U | 3.4 | U | 3.400 | U | P |
| Silver | 2.2 | U | 2.2 | U | 2.2 | U | 2.2 | U | 2.200 | U | P |
| Sodium | 472.7 | U | 472.7 | U | 472.7 | U | 472.7 | U | 472.700 | U | P |
| Thallium | 5.7 | U | 5.7 | U | 5.7 | U | 5.7 | U | 5.700 | U | P |
| Vanadium | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.000 | U | P |
| Zinc | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.123 | B | P |
| Cyanide | 10.0 | U | 10.0 | U | 10.0 | U | 10.0 | U | 10.000 | U | AS |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCW007Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | C | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | C | M |
|-----------|--------------------------------------|---|--|---|---|---|---|---|----------------------|---------|---|----|
| | | | 1 | C | 2 | C | 3 | C | | | | |
| Aluminum | | | -27.8 | B | | | | | | 23.600 | U | P |
| Antimony | | | 4.7 | U | | | | | | 4.700 | U | P |
| Arsenic | | | 4.8 | U | | | | | | 4.800 | U | P |
| Barium | | | 5.9 | U | | | | | | 5.900 | U | P |
| Beryllium | | | 0.3 | B | | | | | | 0.200 | U | P |
| Cadmium | | | 0.6 | U | | | | | | 0.600 | U | P |
| Calcium | | | 182.1 | U | | | | | | 182.100 | U | P |
| Chromium | | | 1.4 | U | | | | | | 1.400 | U | P |
| Cobalt | | | 2.0 | U | | | | | | 2.000 | U | P |
| Copper | | | 2.4 | U | | | | | | 2.400 | U | P |
| Iron | | | 33.3 | U | | | | | | 33.300 | U | P |
| Lead | | | 1.3 | U | | | | | | 1.300 | U | P |
| Magnesium | | | 178.3 | U | | | | | | 178.300 | U | P |
| Manganese | | | 0.7 | U | | | | | | 0.700 | U | P |
| Mercury | | | 0.1 | U | | | | | | | | CV |
| Nickel | | | 2.1 | U | | | | | | 2.100 | U | P |
| Potassium | | | 393.0 | U | | | | | | 393.000 | U | P |
| Selenium | | | 3.4 | U | | | | | | 3.400 | U | P |
| Silver | | | 2.2 | U | | | | | | 2.200 | U | P |
| Sodium | | | 472.7 | U | | | | | | 472.700 | U | P |
| Thallium | | | 5.7 | U | | | | | | 5.700 | U | P |
| Vanadium | | | 2.0 | U | | | | | | 2.000 | U | P |
| Zinc | | | 1.0 | U | | | | | | 8.512 | B | P |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007

Preparation Blank Matrix (soil/water): WATER

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

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|---------|-----------------------------|---|-------------------------------------|---|------|---|------|---|-------------------|---|----|
| | | C | 1 | C | 2 | C | 3 | C | | C | |
| Cyanide | 10.0 | U | 10.0 | U | 10.0 | U | 10.0 | U | 10.000 | U | AS |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007

Preparation Blank Matrix (soil/water): WATER

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

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|---------|-----------------------------|---|-------------------------------------|---|-----|---|-----|---|-------------------|---|----|
| | C | | 1 | C | 2 | C | 3 | C | C | | |
| Mercury | 0.1 | U | 0.1 | U | 0.1 | U | 0.1 | U | 0.100 | U | CV |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007

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) | | | | | | Preparation Blank | C | M |
|---------|--------------------------------------|---|--|---|-----|---|-----|---|----------------------|---|----|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Mercury | | | 0.1 | U | 0.1 | B | 0.1 | U | | | CV |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007

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) | | | | | | Preparation Blank | C | M |
|---------|--------------------------------------|---|--|---|---|---|---|---|----------------------|---|----|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Mercury | | | 0.2 | B | | | | | | | CV |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007

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) | | | | | | Preparation Blank | C | M |
|----------|--------------------------------------|---|--|---|-----|---|-----|---|----------------------|---|---|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Selenium | -3.7 | B | 3.4 | U | 3.4 | U | 3.4 | U | | | P |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007

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) | | | | | | Preparation Blank | C | M |
|----------|--------------------------------------|---|--|---|---|---|---|---|----------------------|---|---|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Selenium | | | 3.4 | U | | | | | | | P |

USEPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007ICP ID Number: TJA ICAP 4 ICS Source: Inorganic VenturesConcentration 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 | 493300 | 496700.0 | 102.9 | 481200 | 495700.0 | 102.7 |
| Antimony | 0 | 596 | 0 | 607.9 | 102.0 | -1 | 612.4 | 102.8 |
| Arsenic | 0 | 102 | 4 | 107.2 | 105.1 | 5 | 105.0 | 102.9 |
| Barium | 0 | 503 | 2 | 485.2 | 96.5 | 1 | 485.7 | 96.6 |
| Beryllium | 0 | 482 | 0 | 476.9 | 98.9 | 0 | 476.8 | 98.9 |
| Cadmium | 0 | 938 | -1 | 921.9 | 98.3 | -1 | 915.7 | 97.6 |
| Calcium | 500000 | 477840 | 486300 | 493200.0 | 103.2 | 475300 | 493300.0 | 103.2 |
| Chromium | 0 | 483 | 3 | 466.9 | 96.7 | 3 | 467.5 | 96.8 |
| Cobalt | 0 | 457 | -1 | 447.9 | 98.0 | -1 | 450.9 | 98.7 |
| Copper | 0 | 526 | 3 | 498.7 | 94.8 | 3 | 499.9 | 95.0 |
| Iron | 200000 | 191980 | 198000 | 197700.0 | 103.0 | 194000 | 198800.0 | 103.6 |
| Lead | 0 | 49 | 0 | 43.3 | 88.4 | 0 | 44.9 | 91.6 |
| Magnesium | 500000 | 521880 | 533800 | 541600.0 | 103.8 | 521200 | 542400.0 | 103.9 |
| Manganese | 0 | 474 | 1 | 462.0 | 97.5 | 1 | 463.0 | 97.7 |
| Nickel | 0 | 952 | 0 | 919.6 | 96.6 | 0 | 923.7 | 97.0 |
| Potassium | 0 | 0 | -158 | -112.9 | | -280 | -159.0 | |
| Selenium | 0 | 47 | -3 | 47.8 | 101.7 | -3 | 44.5 | 94.7 |
| Silver | 0 | 213 | 0 | 209.8 | 98.5 | -1 | 209.5 | 98.4 |
| Sodium | 0 | 0 | -48 | -32.6 | | -128 | -139.6 | |
| Thallium | 0 | 89 | -6 | 89.3 | 100.3 | -4 | 84.6 | 95.1 |
| Vanadium | 0 | 478 | 1 | 457.8 | 95.8 | 1 | 458.9 | 96.0 |
| Zinc | 0 | 998 | 1 | 1001.0 | 100.3 | 1 | 1005.0 | 100.7 |

USEPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007

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 |
| Selenium | 0 | 41 | -3 | 44.1 | 107.6 | -5 | 44.5 | 108.5 |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007

Solid LCS Source: _____

Aqueous LCS Source: Inorganic Ventures

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|-----------|----------------|----------|-------|---------------|-------|---|--------|----|
| | True | Found | %R | True | Found | C | Limits | %R |
| Aluminum | 51000.0 | 51030.00 | 100.1 | | | | | |
| Antimony | 2000.0 | 2003.00 | 100.2 | | | | | |
| Arsenic | 1050.0 | 1043.00 | 99.3 | | | | | |
| Barium | 500.0 | 476.50 | 95.3 | | | | | |
| Beryllium | 500.0 | 488.90 | 97.8 | | | | | |
| Cadmium | 525.0 | 499.30 | 95.1 | | | | | |
| Calcium | 50000.0 | 49810.00 | 99.6 | | | | | |
| Chromium | 500.0 | 480.20 | 96.0 | | | | | |
| Cobalt | 500.0 | 476.90 | 95.4 | | | | | |
| Copper | 500.0 | 489.20 | 97.8 | | | | | |
| Iron | 50500.0 | 51260.00 | 101.5 | | | | | |
| Lead | 1015.0 | 965.90 | 95.2 | | | | | |
| Magnesium | 50000.0 | 50630.00 | 101.3 | | | | | |
| Manganese | 500.0 | 477.00 | 95.4 | | | | | |
| Mercury | 1.0 | 0.96 | 96.0 | | | | | |
| Nickel | 500.0 | 480.00 | 96.0 | | | | | |
| Potassium | 50000.0 | 49700.00 | 99.4 | | | | | |
| Selenium | 525.0 | 515.30 | 98.2 | | | | | |
| Silver | 500.0 | 405.40 | 81.1 | | | | | |
| Sodium | 50000.0 | 51080.00 | 102.2 | | | | | |
| Thallium | 550.0 | 522.00 | 94.9 | | | | | |
| Vanadium | 500.0 | 484.00 | 96.8 | | | | | |
| Zinc | 500.0 | 491.30 | 98.3 | | | | | |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007

Solid LCS Source: _____

Aqueous LCS Source: Inorganic Ventures

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|-----------|----------------|----------|------|---------------|-------|---|--------|----|
| | True | Found | %R | True | Found | C | Limits | %R |
| Aluminum | 51000.0 | 49740.00 | 97.5 | | | | | |
| Antimony | 2000.0 | 1924.00 | 96.2 | | | | | |
| Arsenic | 1050.0 | 999.30 | 95.2 | | | | | |
| Barium | 500.0 | 472.20 | 94.4 | | | | | |
| Beryllium | 500.0 | 474.80 | 95.0 | | | | | |
| Cadmium | 525.0 | 482.90 | 92.0 | | | | | |
| Calcium | 50000.0 | 48520.00 | 97.0 | | | | | |
| Chromium | 500.0 | 473.20 | 94.6 | | | | | |
| Cobalt | 500.0 | 465.50 | 93.1 | | | | | |
| Copper | 500.0 | 485.30 | 97.1 | | | | | |
| Iron | 50500.0 | 50220.00 | 99.4 | | | | | |
| Lead | 1015.0 | 933.90 | 92.0 | | | | | |
| Magnesium | 50000.0 | 48950.00 | 97.9 | | | | | |
| Manganese | 500.0 | 468.80 | 93.8 | | | | | |
| Nickel | 500.0 | 466.20 | 93.2 | | | | | |
| Potassium | 50000.0 | 48920.00 | 97.8 | | | | | |
| Selenium | 525.0 | 474.40 | 90.4 | | | | | |
| Silver | 500.0 | 401.10 | 80.2 | | | | | |
| Sodium | 50000.0 | 49730.00 | 99.5 | | | | | |
| Thallium | 550.0 | 503.90 | 91.6 | | | | | |
| Vanadium | 500.0 | 477.40 | 95.5 | | | | | |
| Zinc | 500.0 | 474.10 | 94.8 | | | | | |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007

Solid LCS Source: _____

Aqueous LCS Source: Inorganic Ventures

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|---------|----------------|--------|-------|---------------|-------|---|--------|----|
| | True | Found | %R | True | Found | C | Limits | %R |
| Mercury | 1.0 | 0.98 | 98.0 | | | | | |
| Cyanide | 120.0 | 131.11 | 109.3 | | | | | |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007

Solid LCS Source: _____

Aqueous LCS Source: Inorganic Ventures

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|-----------|----------------|----------|-------|---------------|-------|---|--------|----|
| | True | Found | %R | True | Found | C | Limits | %R |
| Aluminum | 51000.0 | 49360.00 | 96.8 | | | | | |
| Antimony | 2000.0 | 1924.00 | 96.2 | | | | | |
| Arsenic | 1050.0 | 997.10 | 95.0 | | | | | |
| Barium | 500.0 | 469.10 | 93.8 | | | | | |
| Beryllium | 500.0 | 473.40 | 94.7 | | | | | |
| Cadmium | 525.0 | 483.20 | 92.0 | | | | | |
| Calcium | 50000.0 | 48490.00 | 97.0 | | | | | |
| Chromium | 500.0 | 472.10 | 94.4 | | | | | |
| Cobalt | 500.0 | 465.20 | 93.0 | | | | | |
| Copper | 500.0 | 482.30 | 96.5 | | | | | |
| Iron | 50500.0 | 50120.00 | 99.2 | | | | | |
| Lead | 1015.0 | 939.10 | 92.5 | | | | | |
| Magnesium | 50000.0 | 48890.00 | 97.8 | | | | | |
| Manganese | 500.0 | 467.30 | 93.5 | | | | | |
| Mercury | 1.0 | 1.12 | 112.0 | | | | | |
| Nickel | 500.0 | 465.50 | 93.1 | | | | | |
| Potassium | 50000.0 | 48480.00 | 97.0 | | | | | |
| Selenium | 525.0 | 475.60 | 90.6 | | | | | |
| Silver | 500.0 | 399.10 | 79.8 | | | | | |
| Sodium | 50000.0 | 49390.00 | 98.8 | | | | | |
| Thallium | 550.0 | 504.80 | 91.8 | | | | | |
| Vanadium | 500.0 | 477.10 | 95.4 | | | | | |
| Zinc | 500.0 | 472.50 | 94.5 | | | | | |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007

Solid LCS Source: _____

Aqueous LCS Source: Inorganic Ventures

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|---------|----------------|--------|-------|---------------|-------|---|--------|----|
| | True | Found | %R | True | Found | C | Limits | %R |
| Mercury | 1.0 | 0.96 | 96.0 | | | | | |
| Cyanide | 120.0 | 132.04 | 110.0 | | | | | |

USEPA - CLP

9

ICP SERIAL DILUTIONS

SAMPLE NO.

BLACSTSW01 (100)L

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVT Case No.: 23046SAS No.: _____ SDG No.: GCW007Matrix (soil/water): WATERLevel (low/med): LOW

Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | | Serial Dilution Result (S) | | % Difference | Q | M |
|-----------|---------------------------|---|----------------------------|---|--------------|---|---|
| | | C | | C | | | |
| Aluminum | 31.25 | B | 118.00 | U | 100.0 | | P |
| Antimony | 4.70 | U | 23.50 | U | | | P |
| Arsenic | 4.80 | U | 24.00 | U | | | P |
| Barium | 14.14 | B | 29.50 | U | 100.0 | | P |
| Beryllium | 0.20 | U | 1.00 | U | | | P |
| Cadmium | 0.60 | U | 3.00 | U | | | P |
| Calcium | 11510.00 | | 11500.00 | B | 0.1 | | P |
| Chromium | 1.40 | U | 7.00 | U | | | P |
| Cobalt | 2.00 | U | 10.00 | U | | | P |
| Copper | 2.40 | U | 12.00 | U | | | P |
| Iron | 54.37 | B | 166.50 | U | 100.0 | | P |
| Lead | 1.30 | U | 6.50 | U | | | P |
| Magnesium | 6996.00 | | 6933.00 | B | 0.9 | | P |
| Manganese | 4.53 | B | 3.50 | U | 100.0 | | P |
| Nickel | 2.10 | U | 10.50 | U | | | P |
| Potassium | 1128.00 | B | 1965.00 | U | 100.0 | | P |
| Selenium | 3.40 | U | 17.00 | U | | | P |
| Silver | 2.20 | U | 11.00 | U | | | P |
| Sodium | 2134.00 | B | 2719.00 | B | 27.4 | | P |
| Thallium | 5.70 | U | 28.50 | U | | | P |
| Vanadium | 2.00 | U | 10.00 | U | | | P |
| Zinc | 1.00 | U | 5.00 | U | | | P |

USEPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007

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

Flame AA ID Number: Lachat Cyanide

Furnace AA ID Number: _____

| Analyte | Wave-length (nm) | Back-ground | CRDL (ug/L) | IDL (ug/L) | M |
|---------|------------------|-------------|-------------|------------|----|
| Cyanide | | | 10 | 10.0 | AS |

Comments:

USEPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007

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:

USEPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007ICP 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 |
| Selenium | 196.026 | | 5 | 3.4 | 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: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007

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.: GCW007
 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: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007
 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: _____

USEPA - CLP

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007ICP 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 |
| Selenium | 10.00 | 5000.0 | 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

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007Method: AS

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|-------------------|---------------------|----------------------|----------------|
| BLUESTPWP08 | 7/29/2003 | 50.0 | 50.0 |
| BLUESTPWR07 | 7/29/2003 | 50.0 | 50.0 |
| BLUESTPWR08 | 7/29/2003 | 50.0 | 50.0 |
| ICV | 7/29/2003 | 50.0 | 50.0 |
| PBW0729B | 7/29/2003 | 50.0 | 50.0 |

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007Method: AS

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|-------------------|---------------------|----------------------|----------------|
| BLACSTSEW01 | 8/5/2003 | 50.0 | 50.0 |
| BLACSTSEW01(100) | 8/5/2003 | 50.0 | 50.0 |
| GRANRS01 | 8/5/2003 | 50.0 | 50.0 |
| ICV | 8/5/2003 | 50.0 | 50.0 |
| LCS0805A | 8/5/2003 | 50.0 | 50.0 |
| LCSD0805A | 8/5/2003 | 50.0 | 50.0 |
| PBW0805A | 8/5/2003 | 50.0 | 50.0 |

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007Method: CV

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|-------------------|---------------------|----------------------|----------------|
| BLUESTPWP08F | 8/5/2003 | 100.0 | 100.0 |
| BLUESTPWR07F | 8/5/2003 | 100.0 | 100.0 |
| BLUESTPWR08F | 8/5/2003 | 100.0 | 100.0 |
| LCSDW0805F | 8/5/2003 | 100.0 | 100.0 |
| LCSW0805F | 8/5/2003 | 100.0 | 100.0 |
| PBW0805F | 8/5/2003 | 100.0 | 100.0 |

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007Method: CV

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|-------------------|---------------------|----------------------|----------------|
| BLACSTSFW01 | 8/15/2003 | 100.0 | 100.0 |
| BLACSTSFW01(100) | 8/15/2003 | 100.0 | 100.0 |
| BLACSTSFW01(100)F | 8/15/2003 | 100.0 | 100.0 |
| BLACSTSFW01F | 8/15/2003 | 100.0 | 100.0 |
| GRANRS01 | 8/15/2003 | 100.0 | 100.0 |
| LCSDW0815B | 8/15/2003 | 100.0 | 100.0 |
| LCSW0815B | 8/15/2003 | 100.0 | 100.0 |
| PBW0815B | 8/15/2003 | 100.0 | 100.0 |

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007Method: P

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|-------------------|---------------------|----------------------|----------------|
| BLUESTPW08F | 8/7/2003 | 100.0 | 100.0 |
| BLUESTPWR07F | 8/7/2003 | 100.0 | 100.0 |
| BLUESTPWR08F | 8/7/2003 | 100.0 | 100.0 |
| LCSDW0807H | 8/7/2003 | 100.0 | 100.0 |
| LCSW0807H | 8/7/2003 | 100.0 | 100.0 |
| PBW0807H | 8/7/2003 | 100.0 | 100.0 |

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007Method: P

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|-------------------|---------------------|----------------------|----------------|
| BLACSTSEW01 | 8/8/2003 | 100.0 | 100.0 |
| BLACSTSEW01(100) | 8/8/2003 | 100.0 | 100.0 |
| BLACSTSEW01(100)F | 8/8/2003 | 100.0 | 100.0 |
| BLACSTSEW01F | 8/8/2003 | 100.0 | 100.0 |
| GRANRS01 | 8/8/2003 | 100.0 | 100.0 |
| LCSW0808I | 8/8/2003 | 100.0 | 100.0 |
| PBW0808I | 8/8/2003 | 100.0 | 100.0 |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007
 Instrument ID Number: Lachat Cyanide QC8000 Method: AS
 Start Date: 7/29/2003 End Date: 7/29/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C F | F U | P E | M B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V L | Z N | C N | | | |
| S0 | 1.00 | 1750 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S10 | 1.00 | 1751 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S30 | 1.00 | 1752 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S50 | 1.00 | 1753 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S100 | 1.00 | 1754 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S200 | 1.00 | 1755 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S300 | 1.00 | 1756 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ICV | 1.00 | 1758 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ICB | 1.00 | 1759 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LRS | 1.00 | 1800 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LRS | 1.00 | 1801 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCV | 1.00 | 1802 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1803 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| PBW0729B | 1.00 | 1804 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZZ | 1.00 | 1805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1806 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1807 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1808 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1809 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1810 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1811 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1812 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1813 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1814 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1815 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZZ | 1.00 | 1816 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1817 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1817 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1818 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1819 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLUESTPWR07 | 1.00 | 1820 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLUESTPWR08 | 1.00 | 1821 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLUESTPW08 | 1.00 | 1822 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZZ | 1.00 | 1823 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1824 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1825 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1826 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007
 Instrument ID Number: Lachat Cyanide QC8000 Method: AS
 Start Date: 8/5/2003 End Date: 8/5/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V L | Z N |
| S0 | 1.00 | 1404 | | | | | | | | | | | | | | | | | | | | | | | | X |
| S10 | 1.00 | 1405 | | | | | | | | | | | | | | | | | | | | | | | | X |
| S30 | 1.00 | 1406 | | | | | | | | | | | | | | | | | | | | | | | | X |
| S50 | 1.00 | 1407 | | | | | | | | | | | | | | | | | | | | | | | | X |
| S100 | 1.00 | 1408 | | | | | | | | | | | | | | | | | | | | | | | | X |
| S200 | 1.00 | 1409 | | | | | | | | | | | | | | | | | | | | | | | | X |
| S300 | 1.00 | 1410 | | | | | | | | | | | | | | | | | | | | | | | | X |
| ICV | 1.00 | 1412 | | | | | | | | | | | | | | | | | | | | | | | | X |
| ICB | 1.00 | 1413 | | | | | | | | | | | | | | | | | | | | | | | | X |
| LRS | 1.00 | 1414 | | | | | | | | | | | | | | | | | | | | | | | | X |
| LRS | 1.00 | 1415 | | | | | | | | | | | | | | | | | | | | | | | | X |
| CCV | 1.00 | 1416 | | | | | | | | | | | | | | | | | | | | | | | | X |
| CCB | 1.00 | 1417 | | | | | | | | | | | | | | | | | | | | | | | | X |
| PBW0805A | 1.00 | 1418 | | | | | | | | | | | | | | | | | | | | | | | | X |
| ZZZZZZ | 1.00 | 1419 | | | | | | | | | | | | | | | | | | | | | | | | |
| LCS0805A | 1.00 | 1420 | | | | | | | | | | | | | | | | | | | | | | | | X |
| LCSD0805A | 1.00 | 1420 | | | | | | | | | | | | | | | | | | | | | | | | X |
| ZZZZZZ | 1.00 | 1421 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1422 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1423 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1424 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1425 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1426 | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1427 | | | | | | | | | | | | | | | | | | | | | | | | X |
| CCB | 1.00 | 1428 | | | | | | | | | | | | | | | | | | | | | | | | X |
| ZZZZZZ | 1.00 | 1429 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1430 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1431 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1432 | | | | | | | | | | | | | | | | | | | | | | | | |
| BLACSTSEW01 (100) | 1.00 | 1433 | | | | | | | | | | | | | | | | | | | | | | | | X |
| BLACSTSEW01 | 1.00 | 1434 | | | | | | | | | | | | | | | | | | | | | | | | X |
| GRANRS01 | 1.00 | 1435 | | | | | | | | | | | | | | | | | | | | | | | | X |
| ZZZZZZ | 1.00 | 1436 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1437 | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1438 | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1439 | | | | | | | | | | | | | | | | | | | | | | | | X |
| CCB | 1.00 | 1440 | | | | | | | | | | | | | | | | | | | | | | | | X |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007
 Instrument ID Number: TJA ICAP 4 Method: P
 Start Date: 9/15/2003 End Date: 9/16/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | |
|----------------|-------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | F U | P E | M B | M G | H N | N G | K I | S E | A G | N A | T L | V | Z N |
| S0 | 1.00 | 2208 | | | | | | | | | | | | | | | | X | | | | | | | |
| S | 1.00 | 2213 | | | | | | | | | | | | | | | | | | | | | | | |
| S | 1.00 | 2216 | | | | | | | | | | | | | | | | X | | | | | | | |
| S | 1.00 | 2220 | | | | | | | | | | | | | | | | | | | | | | | |
| LRS | 1.00 | 2225 | | | | | | | | | | | | | | | | X | | | | | | | |
| LRS | 1.00 | 2230 | | | | | | | | | | | | | | | | X | | | | | | | |
| LRS | 1.00 | 2235 | | | | | | | | | | | | | | | | X | | | | | | | |
| ICV | 1.00 | 2240 | | | | | | | | | | | | | | | | X | | | | | | | |
| ICB | 1.00 | 2244 | | | | | | | | | | | | | | | | X | | | | | | | |
| ICSA | 1.00 | 2249 | | | | | | | | | | | | | | | | X | | | | | | | |
| ICSAB | 1.00 | 2254 | | | | | | | | | | | | | | | | X | | | | | | | |
| CRI | 1.00 | 2259 | | | | | | | | | | | | | | | | X | | | | | | | |
| CCV | 1.00 | 2303 | | | | | | | | | | | | | | | | X | | | | | | | |
| CCB | 1.00 | 2308 | | | | | | | | | | | | | | | | X | | | | | | | |
| ZZZZZZ | 1.00 | 2313 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 2318 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 2322 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 2327 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 5.00 | 2332 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 2336 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 2341 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 10.00 | 2346 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 10.00 | 2350 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 10.00 | 2355 | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 0000 | | | | | | | | | | | | | | | | X | | | | | | | |
| CCB | 1.00 | 0005 | | | | | | | | | | | | | | | | X | | | | | | | |
| ZZZZZZ | 10.00 | 0009 | | | | | | | | | | | | | | | | | | | | | | | |
| BLUESTPWR07F | 1.00 | 0014 | | | | | | | | | | | | | | | | X | | | | | | | |
| ZZZZZZ | 1.00 | 0019 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0023 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0028 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0033 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 5.00 | 0037 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0042 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 5.00 | 0047 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0051 | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 0056 | | | | | | | | | | | | | | | | X | | | | | | | |
| CCB | 1.00 | 0101 | | | | | | | | | | | | | | | | X | | | | | | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007
 Instrument ID Number: TJA ICAP 4 Method: P
 Start Date: 9/15/2003 End Date: 9/16/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K I | S E | A G | N A | T L | V L | Z N | C N | | | | |
| ZZZZZZ | 1.00 | 0106 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0110 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0115 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0120 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0124 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0129 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ICSA | 1.00 | 0134 | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | |
| ICSAB | 1.00 | 0139 | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | |
| CRI | 1.00 | 0143 | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | |
| CCV | 1.00 | 0148 | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | |
| CCB | 1.00 | 0153 | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007
 Instrument ID Number: Leeman Hydra AA Method: CV
 Start Date: 8/15/2003 End Date: 8/15/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C F | P B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V L | Z N |
| S0 | 1.00 | 1722 | | | | | | | | | | | | | | X | | | | | | | | | |
| S0.2 | 1.00 | 1723 | | | | | | | | | | | | | | X | | | | | | | | | |
| S0.5 | 1.00 | 1726 | | | | | | | | | | | | | | X | | | | | | | | | |
| S1 | 1.00 | 1727 | | | | | | | | | | | | | | X | | | | | | | | | |
| S5 | 1.00 | 1729 | | | | | | | | | | | | | | X | | | | | | | | | |
| S10 | 1.00 | 1731 | | | | | | | | | | | | | | X | | | | | | | | | |
| ICV | 1.00 | 1733 | | | | | | | | | | | | | | X | | | | | | | | | |
| ICB | 1.00 | 1734 | | | | | | | | | | | | | | X | | | | | | | | | |
| CRA | 1.00 | 1736 | | | | | | | | | | | | | | X | | | | | | | | | |
| CCV | 1.00 | 1738 | | | | | | | | | | | | | | X | | | | | | | | | |
| CCB | 1.00 | 1740 | | | | | | | | | | | | | | X | | | | | | | | | |
| ZZZZZZ | 1.00 | 1742 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1744 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1746 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1748 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1749 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1751 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1753 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1755 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1756 | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1758 | | | | | | | | | | | | | | | X | | | | | | | | |
| CCB | 1.00 | 1801 | | | | | | | | | | | | | | | X | | | | | | | | |
| ZZZZZZ | 1.00 | 1803 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1805 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1807 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1809 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1811 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1813 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1814 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1816 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1818 | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1819 | | | | | | | | | | | | | | | X | | | | | | | | |
| CCB | 1.00 | 1821 | | | | | | | | | | | | | | | X | | | | | | | | |
| ZZZZZZ | 1.00 | 1823 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1825 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1827 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1829 | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1831 | | | | | | | | | | | | | | | | | | | | | | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007
 Instrument ID Number: Leeman Hydra AA Method: CV
 Start Date: 8/15/2003 End Date: 8/15/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | F U | P E | M B | M G | H N | K I | S E | A G | N A | T L | V | Z N |
| ZZZZZZ | 1.00 | 1832 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1835 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1836 | | | | | | | | | | | | | | | | | | | | | | |
| PBW0815B | 1.00 | 1838 | | | | | | | | | | | | | X | | | | | | | | | |
| CCV | 1.00 | 1840 | | | | | | | | | | | | | X | | | | | | | | | |
| CCB | 1.00 | 1842 | | | | | | | | | | | | | X | | | | | | | | | |
| LCSW0815B | 1.00 | 1844 | | | | | | | | | | | | | X | | | | | | | | | |
| LCSDW0815B | 1.00 | 1846 | | | | | | | | | | | | | X | | | | | | | | | |
| ZZZZZZ | 1.00 | 1848 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1850 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1851 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1853 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1855 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1857 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1859 | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1900 | | | | | | | | | | | | | X | | | | | | | | | |
| CCB | 1.00 | 1902 | | | | | | | | | | | | | X | | | | | | | | | |
| ZZZZZZ | 1.00 | 1904 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1906 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1908 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1909 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1911 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1914 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1915 | | | | | | | | | | | | | | | | | | | | | | |
| BLACSTSEW01 (100) | 1.00 | 1917 | | | | | | | | | | | | | X | | | | | | | | | |
| BLACSTSEW01 (100) F | 1.00 | 1919 | | | | | | | | | | | | | X | | | | | | | | | |
| CCV | 1.00 | 1921 | | | | | | | | | | | | | X | | | | | | | | | |
| CCB | 1.00 | 1922 | | | | | | | | | | | | | X | | | | | | | | | |
| BLACSTSEW01 | 1.00 | 1924 | | | | | | | | | | | | | X | | | | | | | | | |
| BLACSTSEW01 F | 1.00 | 1926 | | | | | | | | | | | | | X | | | | | | | | | |
| GRANRS01 | 1.00 | 1928 | | | | | | | | | | | | | X | | | | | | | | | |
| ZZZZZZ | 1.00 | 1930 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1932 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1933 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1935 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1937 | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1939 | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1941 | | | | | | | | | | | | | X | | | | | | | | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007
 Instrument ID Number: TJA ICAP 4 Method: P
 Start Date: 9/11/2003 End Date: 9/11/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | A L | T L | V L | Z N | C N | | |
| SO | 1.00 | 0214 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| S | 1.00 | 0219 | | X | | | | | X | | | | X | X | | | | | X | | X | | | | | | | | |
| S | 1.00 | 0223 | | | X | X | | | | | | | | X | | | | | X | | X | | | X | | | | | |
| S | 1.00 | 0227 | | | | | X | X | X | | X | X | X | | | X | | X | | X | | | X | X | | | | | |
| LRS | 1.00 | 0233 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| LRS | 1.00 | 0238 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| LRS | 1.00 | 0243 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| ICV | 1.00 | 0248 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| ICB | 1.00 | 0253 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| ICSA | 1.00 | 0259 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| ICSAB | 1.00 | 0304 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CRI | 1.00 | 0309 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CCV | 1.00 | 0314 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CCB | 1.00 | 0319 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| PBW0808I | 1.00 | 0324 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| LCSW0808I | 1.00 | 0329 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTSEW01 (100) | 1.00 | 0334 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTSEW01 (100) L | 5.00 | 0339 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTSEW01 (100) F | 1.00 | 0344 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTSEW01 | 1.00 | 0349 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTSEW01F | 1.00 | 0354 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| GRANRS01 | 1.00 | 0400 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| PBW0807H | 1.00 | 0405 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| LCSW0807H | 1.00 | 0410 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CCV | 1.00 | 0415 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CCB | 1.00 | 0420 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| LCSW0807H | 1.00 | 0425 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLUESTPWR07F | 1.00 | 0430 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLUESTPWR08F | 1.00 | 0435 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLUESTPWR08F | 1.00 | 0440 | | X | X | 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 | 0445 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0450 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0455 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0500 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0505 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 0510 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CCB | 1.00 | 0516 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| ICSA | 1.00 | 0521 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |

USEPA - CLP
14
ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW007
 Instrument ID Number: TJA ICAP 4 Method: P
 Start Date: 9/11/2003 End Date: 9/11/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S G | A G | N A | T L | V | Z N | C N |
| ICSAB | 1.00 | 0526 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CRI | 1.00 | 0531 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCV | 1.00 | 0536 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CCB | 1.00 | 0541 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |



**Geotechnical Analysis
Sample Data Summary Package**

EASEAT GCW007

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTSFW01

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW007

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535967

Matrix: WATER

Client: EASEAT

Date Received: 07/26/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------------|---------------------|------------------|-------|----|----|-------|-------|
| QSOA | Redox Potential D1498 | 08/27/03 | | mV | 1 | 10 | 163 | |

LABORATORY

Non-Conformance Details

| | | |
|---|--|------------------------------------|
| Number 00-4854 | Printed on 09/08/03 | |
| Identified by (Lab, Client, etc.) LABORATORY | (Leave Blank) | |
| (Leave Blank) | Attachment (optional) | |
| Department (Origin of NC) PROJECT MANAGEMENT | Cause / reason (Required) SAMPLE HANDLING /INSUFFICIENT VOLUME | |
| Client EASEAT | # Samples 1 | Date (Required) 08/12/03 |
| Summary of Problem (Project Manager will automatically receive the information in this field) SDG GCW007/ETR95010 SAMPLE 535965 - client submitted insufficient volume for analyses requested. COC and login comments indicate 1-500 ml NP Poly for pH,TDS,TSS,TVS,Alk, Cond, Sulfate, and Redox. Sample has been consumed and when investigating what tests had been completed discovered that TSS worksheet identifies 1000 mL of sample used. Due to inability to trace incongruity, the following analyses have been deleted: TSS,TDS, TVS, Conductivity and sulfate. | | |
| Method/Procedure (Required) LOGIN PROCEDURES | SDG/ETR GCW007/95010 | |

Corrective Action

| Target CA Date | Actual CA Date | Cost | Supporting Actions | Initiated By (Required) |
|--|----------------|------|--------------------|-------------------------|
| | | | 0 | MCCRUMB, JEANNINE |
| Resolution, Recommended Action Or Explanation | | | | |

Preventive Action

| PA Required | Target PA Date | Actual PA Date | Responsible for PA |
|--------------------------|----------------|----------------|--------------------|
| No | | | |
| Preventive Action | | | |

Summary Of Investigation And Findings:

| | | |
|---|---|-----------------|
| Followup Action | Responsible for Follow-up Action | |
| Summary Of Investigation And Findings: | | |
| Status CLOSED | Actual Close Date | Approver |

**STL Burlington
Colchester, Vermont**

**Sample Data Summary
Package**

SDG: GCW008

September 18, 2003

Ms. Jennifer Kindred
EA Engineering
12011 Bellevue-Redmond Rd.
Suite 200
Bellevue, WA 98005

Re: Laboratory Project No. 23046
Case No. 23046; SDG: GCW008

Dear Ms. Kindred:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on July 26, 2003. Laboratory numbers have been assigned and designated as follows:

| <u>Lab ID</u> | <u>Client Sample ID</u> | <u>Sample Date</u> | <u>Sample Matrix</u> |
|----------------------------------|-----------------------------|------------------------|--------------------------|
| Received: 07/26/03 ETR No: 95011 | | | |
| 535925 | BLACSTSFW02 | 07/22/03 | Water |
| 535926 | BLACSTSFW02F | 07/22/03 | Water |
| 535927 | BLACSTSFW03 | 07/22/03 | Water |
| 535928 | BLACSTSFW03F | 07/22/03 | Water |
| 535929 | BLACSTPWP02 | 07/22/03 | Water |
| 535930 | BLACSTPWP02F | 07/22/03 | Water |
| 535931 | BLACSTPWR42 | 07/22/03 | Water |
| 535932 | BLACSTPWR42F | 07/22/03 | Water |
| 535933 | BLACSTSFW42 | 07/22/03 | Water |
| 535934 | BLACSTSFW42F | 07/22/03 | Water |
| 535935 | BLACPDSFW15 | 07/22/03 | Water |
| 535936 | BLACPDSFW15F | 07/22/03 | Water |
| 535937 | BLACPDSFW10 | 07/22/03 | Water |
| 535938 | BLACPDSFW10F | 07/22/03 | Water |
| 535939 | BLUEPDSFW17 | 07/22/03 | Water |
| 535940 | BLUEPDSFW17F | 07/22/03 | Water |
| 535941 | BLACPDSFW41 | 07/22/03 | Water |
| 535942 | BLACPDSFW41F | 07/22/03 | Water |
| 535943 | BLACSTPWP04 | 07/22/03 | Water |
| 535944 | BLACSTPWP04F | 07/22/03 | Water |

Due to reporting software limitations, sample identifications may have been truncated. In most instances only punctuation was removed.

Documentation that identifies the condition of the samples at the time of sample receipt and the issues arising at the time of sample log-in is included in the Sample Handling section of this submittal.

This narrative identifies anomalies that occurred during the analyses of samples in this delivery group. If there is no description following regarding a certain methodology requested on the chain-of-custody record, then there were no exceptions to the laboratory quality control criteria noted during that analysis.

The analysis for arsenic speciation was performed by STL's North Canton facility, as approved by EA Engineering. STL North Canton assigned "Lot" numbers as samples were received. Though laboratory numbers may differ, the client's sample identifications were maintained. The results for this delivery group including a case narrative prepared by the North Canton laboratory are attached to the extended data package.

The analysis for cyanide was performed by STL's North Canton facility, as approved by EA Engineering. STL North Canton assigned "Lot" numbers as samples were received. Though laboratory numbers may differ, the client's sample identifications were maintained. The results for this delivery group including a case narrative prepared by the North Canton laboratory are attached to the extended data package.

There were no other exceptions noted during the analysis of samples in this delivery group. If there are any questions regarding this submittal, please contact Jeannine McCrumb at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 0001 and ending with page 0382.

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. The release of the data contained in this hardcopy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,



Michael F. Wheeler, Ph.D.
Laboratory Director

Enclosure
MFW/jtw/jmm

CHAIN OF CUSTODY RECORD

Report to: EPA Engineering
 Company: same
 Address: 12011 Bell-Red Rd Suite 200
Bellevue, WA 98005
 Contact: Sean Kimbrell
 Phone: 425-451-7460
 Fax: 425-451-7800
 Contract/Quote:

Invoice to:

Company: _____
 Address: _____
 Contact: _____
 Phone: _____
 Fax: _____

Contractor's Name: Don Norman
 Sampler's Signature: Don Norman

| Proj. No. | Matrix | Date | Time | Project Name | No./Type of Containers ² | | | ANALYSIS REQUESTED | Lab/ Sample ID (Lab Use Only) |
|------------|--------|------|------|-------------------------|-------------------------------------|-----------|------------|--------------------|-------------------------------|
| | | | | | VOA | A/G 1 Lt. | 250 ml P/O | | |
| 13896.1216 | | | | Granite Creek watershed | | | | | |
| | W | 7/22 | 1806 | X BLAC-ST-SFW-02 | 1 | 1 | 2 | X | |
| | W | 7/22 | 1700 | X BLAC-ST-SFW-03 | 1 | 1 | 2 | X | |
| | W | 7/22 | 1900 | X BLAC-ST-PWP-02 | | | | X | |
| | W | 7/22 | 1145 | X BLAC-ST-PWR-42 | | | | X | |
| | W | 7/22 | 1100 | X BLAC-ST-SFW-42 | 2 | 1 | 2 | X | |
| | W | 7/22 | 1750 | X BLAC-PD-SFW-15 | 2 | 1 | 2 | X | |
| | W | 7/22 | 1720 | X BLAC-PD-SFW-10 | 2 | 1 | 2 | X | |
| | W | 7/22 | 1645 | X BLUE-PD-SFW-17 | 2 | 1 | 2 | X | |
| | W | 7/22 | 1645 | X BLAC-PD-SFW-41 | 2 | 1 | 2 | X | |
| | W | 7/22 | 1030 | X BLAC-ST-PWP-04 | | | | X | |

Relinquished by: (Signature) [Signature] Date 7-25-03 Time 1000
 Relinquished by: (Signature) [Signature] Date 7/20/03 Time 1045
 Relinquished by: (Signature) _____ Date _____ Time _____

Remarks: Aspen Speciation, pH, redox, spec cond, SO4, TAL Metals - Total, TAL Metals - dissolved, Cyanide, TSS/TDS (MK)

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248

Matrix: WW - Wastewater VOA - 40 ml vial
 W - Water A/G - Amber / Or Glass 1 Liter
 S - Soil L - Liquid 250 ml - Glass wide mouth
 A - Air bag C - Charcoal Tube
 SL - Sludge 500 mL
 O - Oil



**Sample Data Summary Package
For Wet Chemistry**

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTSF02

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW008

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535925

Matrix: WATER

Client: EASEAT

Date Received: 07/26/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------------|---------------------|------------------|----------|----|-------|-------|-------|
| 120.1 | Conductivity (umhos/cm) | 08/12/03 | | umhos/cm | 1 | 0.000 | 112 | |
| 130.2 | Total Hardness as CaCO3 | 08/11/03 | BLKHA0811A | mg/L | 1 | 2.0 | 108 | |
| 310.1 | Hydroxide Alkalinity | 07/31/03 | BLKAL0731A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Carbonate Alkalinity | 07/31/03 | BLKAL0731A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Bicarbonate Alkalinity | 07/31/03 | BLKAL0731A | mg/L | 1 | 1.0 | 61.6 | |
| 310.1 | Total Alkalinity | 07/31/03 | BLKAL0731A | mg/L | 1 | 1.0 | 61.6 | |
| 375.4 | Sulfate | 08/13/03 | BLKSU0813A | mg/L | 1 | 5.0 | 6.9 | |
| 9040B | Corrosivity by pH | 07/28/03 | | pH Units | 1 | 0.1 | 7.7 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

| |
|------------|
| BLACSTSF03 |
|------------|

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW008

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535927

Matrix: WATER

Client: EASEAT

Date Received: 07/26/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------------|---------------------|------------------|----------|----|-------|-------|-------|
| 120.1 | Conductivity (umhos/cm) | 08/12/03 | | umhos/cm | 1 | 0.000 | 114 | |
| 130.2 | Total Hardness as CaCO3 | 08/11/03 | BLKHA0811A | mg/L | 1 | 2.0 | 104 | |
| 310.1 | Hydroxide Alkalinity | 07/31/03 | BLKAL0731A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Carbonate Alkalinity | 07/31/03 | BLKAL0731A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Bicarbonate Alkalinity | 07/31/03 | BLKAL0731A | mg/L | 1 | 1.0 | 63.9 | |
| 310.1 | Total Alkalinity | 07/31/03 | BLKAL0731A | mg/L | 1 | 1.0 | 63.9 | |
| 375.4 | Sulfate | 08/13/03 | BLKSU0813A | mg/L | 1 | 5.0 | 6.9 | |
| 9040B | Corrosivity by pH | 07/28/03 | | pH Units | 1 | 0.1 | 7.9 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTSF42

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW008

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535933

Matrix: WATER

Client: EASEAT

Date Received: 07/26/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------------|---------------------|------------------|----------|----|-------|-------|-------|
| 120.1 | Conductivity (umhos/cm) | 08/12/03 | | umhos/cm | 1 | 0.000 | 116 | |
| 130.2 | Total Hardness as CaCO3 | 08/11/03 | BLKHA0811A | mg/L | 1 | 2.0 | 84.0 | |
| 310.1 | Hydroxide Alkalinity | 07/31/03 | BLKAL0731A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Carbonate Alkalinity | 07/31/03 | BLKAL0731A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Bicarbonate Alkalinity | 07/31/03 | BLKAL0731A | mg/L | 1 | 1.0 | 59.6 | |
| 310.1 | Total Alkalinity | 07/31/03 | BLKAL0731A | mg/L | 1 | 1.0 | 59.6 | |
| 375.4 | Sulfate | 08/13/03 | BLKSU0813A | mg/L | 1 | 5.0 | 8.1 | |
| 9040B | Corrosivity by pH | 07/28/03 | | pH Units | 1 | 0.1 | 8.3 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACPDSFW15

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW008

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535935

Matrix: WATER

Client: EASEAT

Date Received: 07/26/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------------|---------------------|------------------|----------|----|-------|-------|-------|
| 120.1 | Conductivity (umhos/cm) | 08/12/03 | | umhos/cm | 1 | 0.000 | 157 | |
| 130.2 | Total Hardness as CaCO3 | 08/11/03 | BLKHA0811A | mg/L | 1 | 2.0 | 104 | |
| 310.1 | Hydroxide Alkalinity | 07/31/03 | BLKAL0731A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Carbonate Alkalinity | 07/31/03 | BLKAL0731A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Bicarbonate Alkalinity | 07/31/03 | BLKAL0731A | mg/L | 1 | 1.0 | 5.5 | |
| 310.1 | Total Alkalinity | 07/31/03 | BLKAL0731A | mg/L | 1 | 1.0 | 5.5 | |
| 375.4 | Sulfate | 08/13/03 | BLKSU0813A | mg/L | 20 | 100.0 | 134 | |
| 9040B | Corrosivity by pH | 07/28/03 | | pH Units | 1 | 0.1 | 5.5 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACPDSFW10

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW008

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535937

Matrix: WATER

Client: EASEAT

Date Received: 07/26/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------------------------|---------------------|------------------|----------|----|-------|-------|-------|
| 120.1 | Conductivity (umhos/cm) | 08/12/03 | | umhos/cm | 1 | 0.000 | 156 | |
| 130.2 | Total Hardness as CaCO ₃ | 08/11/03 | BLKHA0811A | mg/L | 1 | 2.0 | 100 | |
| 310.1 | Hydroxide Alkalinity | 07/31/03 | BLKAL0731A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Carbonate Alkalinity | 07/31/03 | BLKAL0731A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Bicarbonate Alkalinity | 07/31/03 | BLKAL0731A | mg/L | 1 | 1.0 | 2.8 | |
| 310.1 | Total Alkalinity | 07/31/03 | BLKAL0731A | mg/L | 1 | 1.0 | 2.8 | |
| 375.4 | Sulfate | 08/13/03 | BLKSU0813A | mg/L | 10 | 50.0 | 95.4 | |
| 9040B | Corrosivity by pH | 07/28/03 | | pH Units | 1 | 0.1 | 5.2 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUEPDSFW17

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW008

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535939

Matrix: WATER

Client: EASEAT

Date Received: 07/26/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------------|---------------------|------------------|----------|----|-------|-------|-------|
| 120.1 | Conductivity (umhos/cm) | 08/12/03 | | umhos/cm | 1 | 0.000 | 140 | |
| 130.2 | Total Hardness as CaCO3 | 08/11/03 | BLKHA0811A | mg/L | 1 | 2.0 | 124 | |
| 310.1 | Hydroxide Alkalinity | 07/31/03 | BLKAL0731A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Carbonate Alkalinity | 07/31/03 | BLKAL0731A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Bicarbonate Alkalinity | 07/31/03 | BLKAL0731A | mg/L | 1 | 1.0 | 49.7 | |
| 310.1 | Total Alkalinity | 07/31/03 | BLKAL0731A | mg/L | 1 | 1.0 | 49.7 | |
| 375.4 | Sulfate | 08/13/03 | BLKSU0813A | mg/L | 5 | 25.0 | 35.3 | |
| 9040B | Corrosivity by pH | 07/28/03 | | pH Units | 1 | 0.1 | 6.7 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACPDSFW41

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW008

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535941

Matrix: WATER

Client: EASEAT

Date Received: 07/26/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------------|---------------------|------------------|----------|----|-------|-------|-------|
| 120.1 | Conductivity (umhos/cm) | 08/12/03 | | umhos/cm | 1 | 0.000 | 117 | |
| 130.2 | Total Hardness as CaCO3 | 08/11/03 | BLKHA0811A | mg/L | 1 | 2.0 | 96.0 | |
| 310.1 | Hydroxide Alkalinity | 07/31/03 | BLKAL0731A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Carbonate Alkalinity | 07/31/03 | BLKAL0731A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Bicarbonate Alkalinity | 07/31/03 | BLKAL0731A | mg/L | 1 | 1.0 | 62.4 | |
| 310.1 | Total Alkalinity | 07/31/03 | BLKAL0731A | mg/L | 1 | 1.0 | 62.4 | |
| 375.4 | Sulfate | 08/13/03 | BLKSU0813A | mg/L | 1 | 5.0 | 8.2 | |
| 9040B | Corrosivity by pH | 07/28/03 | | pH Units | 1 | 0.1 | 7.3 | |

WET CHEMISTRY

Method Blank Report Summary

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW008

Lab Code: STLVT

Case No.: 23046

Matrix: WATER

Client: EASEAT

% Solids:

| Lab Sample ID | Method | Parameter | Conc. | Units | Qual. | DF | RL | Analytical Run Date | Analytical Batch |
|---------------|--------|-------------------------|-------|-------|-------|----|-----|---------------------|------------------|
| BLKAL0731A | 310.1 | Hydroxide Alkalinity | 1.0 | mg/L | U | 1 | 1.0 | 07/31/03 | BLKAL0731A |
| BLKAL0731A | 310.1 | Carbonate Alkalinity | 1.0 | mg/L | U | 1 | 1.0 | 07/31/03 | BLKAL0731A |
| BLKAL0731A | 310.1 | Bicarbonate Alkalinity | 1.0 | mg/L | U | 1 | 1.0 | 07/31/03 | BLKAL0731A |
| BLKAL0731A | 310.1 | Total Alkalinity | 1.0 | mg/L | U | 1 | 1.0 | 07/31/03 | BLKAL0731A |
| BLKHA0811A | 130.2 | Total Hardness as CaCO3 | 2.0 | mg/L | U | 1 | 2.0 | 08/11/03 | BLKHA0811A |
| BLKSU0813A | 375.4 | Sulfate | 5.0 | mg/L | U | 1 | 5.0 | 08/13/03 | BLKSU0813A |

WET CHEMISTRY

Laboratory Control Sample Report Summary

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW008

Lab Code: STLVT

Case No.: 23046

Matrix: WATER

Client: EASEAT

% Solids:

| Lab Sample ID | Method | Parameter | Analytical Run Date | Analytical Batch | Units | LCS Conc. | True Value | % Recovery* |
|---------------|--------|-------------------------|---------------------|------------------|----------|-----------|------------|-------------|
| LCSAL0731A | 310.1 | Hydroxide Alkalinity | 07/31/03 | BLKAL0731A | mg/L | 58.5 | 54.7000 | 107.0 |
| LCSAL0731A | 310.1 | Carbonate Alkalinity | 07/31/03 | BLKAL0731A | mg/L | 58.5 | 54.7000 | 107.0 |
| LCSAL0731A | 310.1 | Bicarbonate Alkalinity | 07/31/03 | BLKAL0731A | mg/L | 58.5 | 54.7000 | 107.0 |
| LCSAL0731A | 310.1 | Total Alkalinity | 07/31/03 | BLKAL0731A | mg/L | 58.5 | 54.7000 | 107.0 |
| LCSCD0812A | 120.1 | Conductivity (umhos/cm) | 08/12/03 | | umhos/c | 1000 | 997.0000 | 100.3 |
| LCSHA0811A | 130.2 | Total Hardness as CaCO3 | 08/11/03 | BLKHA0811A | mg/L | 124 | 121.0000 | 102.5 |
| LCSPH0728A | 9040B | Corrosivity by pH | 07/28/03 | | pH Units | 6.0 | 6.0000 | 100.5 |
| LCSSU0813A | 375.4 | Sulfate | 08/13/03 | BLKSU0813A | mg/L | 9.2 | 10.0 | 92.0 |

* Control Limit for Percent Recovery is 80-120%, unless otherwise specified.

WET CHEMISTRY

Laboratory Control Sample Duplicate Report Summary

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW008

Lab Code: STLVT

Case No.: 23046

Matrix: WATER

Client: EASEAT

% Solids:

| Lab Sample ID | Method | Parameter | Analytical Run Date | Analytical Batch | Units | LCSD Conc. | True Value | % Recovery* | RPD** |
|---------------|--------|-------------------------|---------------------|------------------|----------|------------|------------|-------------|-------|
| LCSDHA0811A | 130.2 | Total Hardness as CaCO3 | 08/11/03 | BLKHA0811A | mg/L | 124 | 121.0000 | 102.5 | 0 |
| LCSDPH0728A | 9040B | Corrosivity by pH | 07/28/03 | | pH Units | 6.0 | 6.0000 | 100.3 | 0 |
| LCSDSU0813A | 375.4 | Sulfate | 08/13/03 | BLKSU0813A | mg/L | 9.3 | 10.0 | 93.0 | 1 |

* Control Limit for Percent Recovery is 80-120%, unless otherwise specified.

** Control Limit for RPD is +/- 20%, unless otherwise specified.

Printed on: 09/10/03 06:32 PM



**Sample Data Summary Package
For Metals**

USEPA - CLP FORMS

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008

SOW No.: ILM04.1

| EPA Sample No. | Lab Sample ID. |
|----------------|----------------|
| BLACPDSEFW10 | 535937 |
| BLACPDSEFW10F | 535938 |
| BLACPDSEFW15 | 535935 |
| BLACPDSEFW15F | 535936 |
| BLACPDSEFW41 | 535941 |
| BLACPDSEFW41F | 535942 |
| BLACSTPWP02F | 535930 |
| BLACSTPWP04F | 535944 |
| BLACSTPWR42F | 535932 |
| BLACSTSEFW02 | 535925 |
| BLACSTSEFW02F | 535926 |
| BLACSTSEFW03 | 535927 |
| BLACSTSEFW03F | 535928 |
| BLACSTSEFW42 | 535933 |
| BLACSTSEFW42F | 535934 |
| BLUEPDSEFW17 | 535939 |
| BLUEPDSEFW17F | 535940 |

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: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACPDSFW10

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008
 Matrix (soil/water): WATER Lab Sample ID: 535937
 Level (low/med): LOW Date Received: 07/26/03
 % 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 | 2040 | | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 33.9 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 2.3 | B | | P |
| 7440-70-2 | Calcium | 6130 | | | P |
| 7440-47-3 | Chromium | 2.2 | B | | P |
| 7440-48-4 | Cobalt | 54.7 | | | P |
| 7440-50-8 | Copper | 224 | | | P |
| 7439-89-6 | Iron | 18900 | | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 8170 | | | P |
| 7439-96-5 | Manganese | 2450 | | | P |
| 7439-97-6 | Mercury | 0.14 | B | | CV |
| 7440-02-0 | Nickel | 152 | | | P |
| 7440-09-7 | Potassium | 1360 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2990 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 178 | | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACPDSFW10F

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008
 Matrix (soil/water): WATER Lab Sample ID: 535938
 Level (low/med): LOW Date Received: 07/26/03
 % 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 | 211 | | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 33.5 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 2.4 | B | | P |
| 7440-70-2 | Calcium | 6080 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 53.7 | | | P |
| 7440-50-8 | Copper | 102 | | | P |
| 7439-89-6 | Iron | 7710 | | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 8070 | | | P |
| 7439-96-5 | Manganese | 2430 | | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 151 | | | P |
| 7440-09-7 | Potassium | 1310 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 3270 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 176 | | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACPDSFW15

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008
 Matrix (soil/water): WATER Lab Sample ID: 535935
 Level (low/med): LOW Date Received: 07/26/03
 % 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 | 1620 | | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 5.2 | B | | P |
| 7440-39-3 | Barium | 34.0 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 2.4 | B | | P |
| 7440-70-2 | Calcium | 6130 | | | P |
| 7440-47-3 | Chromium | 1.5 | B | | P |
| 7440-48-4 | Cobalt | 54.3 | | | P |
| 7440-50-8 | Copper | 201 | | | P |
| 7439-89-6 | Iron | 18000 | | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 8130 | | | P |
| 7439-96-5 | Manganese | 2450 | | | P |
| 7439-97-6 | Mercury | 0.36 | | | CV |
| 7440-02-0 | Nickel | 152 | | | P |
| 7440-09-7 | Potassium | 1350 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 3130 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 176 | | | P |

Color Before: colorless Clarity Before: clear Texture: _____
 Color After: colorless Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACPDSEFW15F

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008

Matrix (soil/water): WATER Lab Sample ID: 535936

Level (low/med): LOW Date Received: 07/26/03

% 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 | 173 | B | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 32.4 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 2.3 | B | | P |
| 7440-70-2 | Calcium | 5950 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 53.2 | | | P |
| 7440-50-8 | Copper | 114 | | | P |
| 7439-89-6 | Iron | 10700 | | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 7900 | | | P |
| 7439-96-5 | Manganese | 2370 | | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 147 | | | P |
| 7440-09-7 | Potassium | 1320 | B | | P |
| 7782-49-2 | Selenium | 3.8 | B | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2760 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 171 | | | P |

Color Before: colorless Clarity Before: clear Texture: _____

Color After: colorless Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP FORMS
-1-
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACPDSFW41

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008
 Matrix (soil/water): WATER Lab Sample ID: 535941
 Level (low/med): LOW Date Received: 07/26/03
 % 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 | 158 | B | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 19.2 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 12000 | | | P |
| 7440-47-3 | Chromium | 1.9 | B | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 3.1 | B | | P |
| 7439-89-6 | Iron | 213 | | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 6970 | | | P |
| 7439-96-5 | Manganese | 51.0 | | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 3.7 | B | | P |
| 7440-09-7 | Potassium | 1340 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2890 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 5.9 | B | | P |

Color Before: colorless Clarity Before: clear Texture: _____

Color After: colorless Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACPDSEFW41F

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008

Matrix (soil/water): WATER Lab Sample ID: 535942

Level (low/med): LOW Date Received: 07/26/03

% 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 | 23.6 | U | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 17.0 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 11900 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 33.3 | U | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 6880 | | | P |
| 7439-96-5 | Manganese | 1.0 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1290 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2810 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 4.2 | B | | P |

Color Before: colorless Clarity Before: clear Texture: _____

Color After: colorless Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTFWP02F

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008
 Matrix (soil/water): WATER Lab Sample ID: 535930
 Level (low/med): LOW Date Received: 07/26/03
 % 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 | 23.6 | U | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 15.2 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 11900 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 33.3 | U | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 6760 | | | P |
| 7439-96-5 | Manganese | 6.1 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1220 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2810 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 4.3 | B | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTPWP04F

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008
 Matrix (soil/water): WATER Lab Sample ID: 535944
 Level (low/med): LOW Date Received: 07/26/03
 % 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 | 25.7 | B | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 30.6 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 26700 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 33.3 | U | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 14900 | | | P |
| 7439-96-5 | Manganese | 34.6 | | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 8.5 | B | | P |
| 7440-09-7 | Potassium | 2320 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 6570 | | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 7.0 | B | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP FORMS
-1-
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTPWR42F

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008
 Matrix (soil/water): WATER Lab Sample ID: 535932
 Level (low/med): LOW Date Received: 07/26/03
 % 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 | 431 | | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 16.1 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 12100 | | | P |
| 7440-47-3 | Chromium | 2.4 | B | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | B | | P |
| 7439-89-6 | Iron | 399 | | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 7060 | | | P |
| 7439-96-5 | Manganese | 19.6 | | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.5 | B | | P |
| 7440-09-7 | Potassium | 1310 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2870 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 5.5 | B | | P |

Color Before: colorless Clarity Before: clear Texture: _____

Color After: colorless Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTSF02

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008
 Matrix (soil/water): WATER Lab Sample ID: 535925
 Level (low/med): LOW Date Received: 07/26/03
 % 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 | 44.0 | B | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 15.2 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 12000 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 73.4 | B | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 6870 | | | P |
| 7439-96-5 | Manganese | 5.2 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1190 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2510 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 2.8 | B | | P |

Color Before: colorless Clarity Before: clear Texture: _____
 Color After: colorless Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTSEW02F

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008
 Matrix (soil/water): WATER Lab Sample ID: 535926
 Level (low/med): LOW Date Received: 07/26/03
 % 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 | 23.6 | U | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 15.1 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 12200 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 33.3 | U | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 6930 | | | P |
| 7439-96-5 | Manganese | 3.2 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1190 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2400 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 1.5 | B | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTSF03

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008
 Matrix (soil/water): WATER Lab Sample ID: 535927
 Level (low/med): LOW Date Received: 07/26/03
 % 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 | 54.4 | B | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 16.3 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 12700 | | | P |
| 7440-47-3 | Chromium | 1.9 | B | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 68.8 | B | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 7280 | | | P |
| 7439-96-5 | Manganese | 5.0 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1290 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2670 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 3.7 | B | | P |

Color Before: colorless Clarity Before: clear Texture: _____
 Color After: colorless Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTSEW03F

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008

Matrix (soil/water): WATER Lab Sample ID: 535928

Level (low/med): LOW Date Received: 07/26/03

% 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 | 42.6 | B | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 14.9 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 12100 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 34.6 | B | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 6940 | | | P |
| 7439-96-5 | Manganese | 3.5 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1290 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2470 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 1.9 | B | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTSF42

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008
 Matrix (soil/water): WATER Lab Sample ID: 535933
 Level (low/med): LOW Date Received: 07/26/03
 % 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 | 134 | B | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 17.0 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 12200 | | | P |
| 7440-47-3 | Chromium | 1.6 | B | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 175 | | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 7010 | | | P |
| 7439-96-5 | Manganese | 31.2 | | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1220 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2590 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 3.0 | B | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTSEFW42F

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008
 Matrix (soil/water): WATER Lab Sample ID: 535934
 Level (low/med): LOW Date Received: 07/26/03
 % 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 | 40.2 | B | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 15.8 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 12500 | | | P |
| 7440-47-3 | Chromium | 1.5 | B | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 58.9 | B | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 7190 | | | P |
| 7439-96-5 | Manganese | 17.3 | | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1370 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2840 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 3.2 | B | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUEPDSFW17

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008
 Matrix (soil/water): WATER Lab Sample ID: 535939
 Level (low/med): LOW Date Received: 07/26/03
 % 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 | 691 | | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 13.8 | | | P |
| 7440-39-3 | Barium | 22.8 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 18500 | | | P |
| 7440-47-3 | Chromium | 4.2 | B | | P |
| 7440-48-4 | Cobalt | 13.5 | B | | P |
| 7440-50-8 | Copper | 10.2 | B | | P |
| 7439-89-6 | Iron | 16400 | | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 14100 | | | P |
| 7439-96-5 | Manganese | 1990 | | | P |
| 7439-97-6 | Mercury | 0.14 | B | | CV |
| 7440-02-0 | Nickel | 53.5 | | | P |
| 7440-09-7 | Potassium | 1610 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 4100 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 87.5 | | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP FORMS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUEPDSFW17F

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008

Matrix (soil/water): WATER Lab Sample ID: 535940

Level (low/med): LOW Date Received: 07/26/03

% 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 | 23.6 | U | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 24.1 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 13600 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 4.0 | B | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 41.9 | B | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 9050 | | | P |
| 7439-96-5 | Manganese | 1140 | | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 14.9 | B | | P |
| 7440-09-7 | Potassium | 1420 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 3500 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 14.8 | B | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008

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 | 26110.00 | 100.4 | 30200.0 | 30440.00 | 100.8 | 30320.00 | 100.4 | P |
| Antimony | 250.0 | 256.20 | 102.5 | 300.0 | 309.40 | 103.1 | 312.80 | 104.3 | P |
| Arsenic | 250.0 | 249.90 | 100.0 | 100.0 | 102.60 | 102.6 | 101.80 | 101.8 | P |
| Barium | 500.0 | 494.60 | 98.9 | 200.0 | 199.20 | 99.6 | 199.80 | 99.9 | P |
| Beryllium | 500.0 | 503.70 | 100.7 | 100.0 | 98.63 | 98.6 | 98.81 | 98.8 | P |
| Cadmium | 500.0 | 493.50 | 98.7 | 100.0 | 98.10 | 98.1 | 97.79 | 97.8 | P |
| Calcium | 25000.0 | 25420.00 | 101.7 | 30200.0 | 30280.00 | 100.3 | 30200.00 | 100.0 | P |
| Chromium | 500.0 | 499.80 | 100.0 | 200.0 | 196.60 | 98.3 | 197.40 | 98.7 | P |
| Cobalt | 500.0 | 493.10 | 98.6 | 200.0 | 197.50 | 98.8 | 197.20 | 98.6 | P |
| Copper | 500.0 | 502.70 | 100.5 | 200.0 | 202.00 | 101.0 | 202.00 | 101.0 | P |
| Iron | 25500.0 | 26150.00 | 102.5 | 30200.0 | 30120.00 | 99.7 | 30220.00 | 100.1 | P |
| Lead | 1000.0 | 1000.00 | 100.0 | 400.0 | 390.50 | 97.6 | 392.30 | 98.1 | P |
| Magnesium | 25000.0 | 25260.00 | 101.0 | 30200.0 | 29900.00 | 99.0 | 29930.00 | 99.1 | P |
| Manganese | 500.0 | 494.50 | 98.9 | 200.0 | 197.80 | 98.9 | 197.80 | 98.9 | P |
| Nickel | 500.0 | 498.20 | 99.6 | 200.0 | 197.20 | 98.6 | 197.60 | 98.8 | P |
| Potassium | 25000.0 | 25920.00 | 103.7 | 30200.0 | 31270.00 | 103.5 | 31360.00 | 103.8 | P |
| Selenium | 250.0 | 242.70 | 97.1 | 100.0 | 96.73 | 96.7 | 100.00 | 100.0 | P |
| Silver | 500.0 | 497.80 | 99.6 | 100.0 | 100.20 | 100.2 | 99.53 | 99.5 | P |
| Sodium | 25000.0 | 24690.00 | 98.8 | 30200.0 | 29420.00 | 97.4 | 29470.00 | 97.6 | P |
| Thallium | 250.0 | 239.30 | 95.7 | 100.0 | 99.61 | 99.6 | 101.40 | 101.4 | P |
| Vanadium | 500.0 | 495.70 | 99.1 | 200.0 | 197.80 | 98.9 | 197.50 | 98.8 | P |
| Zinc | 500.0 | 502.80 | 100.6 | 200.0 | 201.10 | 100.6 | 201.30 | 100.6 | P |

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

USEPA - CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008Initial Calibration Source: Inorganic Ventures/FisherContinuing 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 | 30270.00 | 100.2 | 30390.00 | 100.6 | P |
| Antimony | | | | 300.0 | 311.90 | 104.0 | 312.20 | 104.1 | P |
| Arsenic | | | | 100.0 | 100.60 | 100.6 | 103.10 | 103.1 | P |
| Barium | | | | 200.0 | 199.30 | 99.6 | 199.80 | 99.9 | P |
| Beryllium | | | | 100.0 | 98.85 | 98.8 | 98.48 | 98.5 | P |
| Cadmium | | | | 100.0 | 97.83 | 97.8 | 97.46 | 97.5 | P |
| Calcium | | | | 30200.0 | 30170.00 | 99.9 | 30300.00 | 100.3 | P |
| Chromium | | | | 200.0 | 197.40 | 98.7 | 196.50 | 98.2 | P |
| Cobalt | | | | 200.0 | 197.00 | 98.5 | 197.50 | 98.8 | P |
| Copper | | | | 200.0 | 201.10 | 100.6 | 202.00 | 101.0 | P |
| Iron | | | | 30200.0 | 30220.00 | 100.1 | 30270.00 | 100.2 | P |
| Lead | | | | 400.0 | 392.30 | 98.1 | 393.10 | 98.3 | P |
| Magnesium | | | | 30200.0 | 29930.00 | 99.1 | 29900.00 | 99.0 | P |
| Manganese | | | | 200.0 | 197.20 | 98.6 | 197.00 | 98.5 | P |
| Nickel | | | | 200.0 | 197.80 | 98.9 | 197.40 | 98.7 | P |
| Potassium | | | | 30200.0 | 31350.00 | 103.8 | 31400.00 | 104.0 | P |
| Selenium | | | | 100.0 | 98.00 | 98.0 | 100.80 | 100.8 | P |
| Silver | | | | 100.0 | 100.40 | 100.4 | 98.94 | 98.9 | P |
| Sodium | | | | 30200.0 | 29280.00 | 97.0 | 29200.00 | 96.7 | P |
| Thallium | | | | 100.0 | 102.40 | 102.4 | 99.05 | 99.0 | P |
| Vanadium | | | | 200.0 | 198.30 | 99.2 | 197.30 | 98.6 | P |
| Zinc | | | | 200.0 | 201.40 | 100.7 | 201.20 | 100.6 | P |

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

USEPA - CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008

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 | 237.80 | 95.1 | 100.0 | 100.90 | 100.9 | 101.00 | 101.0 | P |

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

USEPA - CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008

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 | 99.94 | 99.9 | 102.10 | 102.1 | P |

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

USEPA - CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008

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) |
| Mercury | 3.0 | 2.90 | 96.7 | 5.0 | 4.86 | 97.2 | 4.67 | 93.4 | CV |

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

USEPA - CLP FORMS

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008

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) |
| Mercury | | | | 5.0 | 4.40 | 88.0 | 4.74 | 94.8 | CV |

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

USEPA - CLP FORMS

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008

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 | | | Final | |
| | | | | True | Found | %R | Found | %R |
| Aluminum | | | | 400.0 | 525.30 | 131.3 | 544.60 | 136.2 |
| Antimony | | | | 120.0 | 125.10 | 104.2 | 126.80 | 105.7 |
| Arsenic | | | | 20.0 | 23.66 | 118.3 | 20.95 | 104.8 |
| Barium | | | | 400.0 | 395.10 | 98.8 | 402.40 | 100.6 |
| Beryllium | | | | 10.0 | 10.07 | 100.7 | 9.99 | 99.9 |
| Cadmium | | | | 10.0 | 10.34 | 103.4 | 10.17 | 101.7 |
| Calcium | | | | 10000.0 | 10640.00 | 106.4 | 10710.00 | 107.1 |
| Chromium | | | | 20.0 | 21.13 | 105.6 | 21.31 | 106.6 |
| Cobalt | | | | 100.0 | 98.77 | 98.8 | 99.18 | 99.2 |
| Copper | | | | 50.0 | 49.91 | 99.8 | 50.82 | 101.6 |
| Iron | | | | 200.0 | 284.50 | 142.2 | 268.40 | 134.2 |
| Lead | | | | 6.0 | 4.12 | 68.7 | 4.27 | 71.2 |
| Magnesium | | | | 10000.0 | 10370.00 | 103.7 | 10430.00 | 104.3 |
| Manganese | | | | 30.0 | 29.86 | 99.5 | 30.01 | 100.0 |
| Nickel | | | | 80.0 | 81.39 | 101.7 | 81.31 | 101.6 |
| Potassium | | | | 10000.0 | 11570.00 | 115.7 | 11780.00 | 117.8 |
| Selenium | | | | 10.0 | 7.71 | 77.1 | 10.96 | 109.6 |
| Silver | | | | 20.0 | 21.00 | 105.0 | 20.76 | 103.8 |
| Sodium | | | | 10000.0 | 10050.00 | 100.5 | 10200.00 | 102.0 |
| Thallium | | | | 20.0 | 21.65 | 108.2 | 20.19 | 101.0 |
| Vanadium | | | | 100.0 | 98.42 | 98.4 | 99.68 | 99.7 |
| Zinc | | | | 40.0 | 40.78 | 102.0 | 41.19 | 103.0 |

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

USEPA - CLP FORMS

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008

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 | | Final | | |
| | | | | True | Found | %R | Found | %R |
| Selenium | | | | 10.0 | 11.29 | 112.9 | 11.22 | 112.2 |

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

USEPA - CLP FORMS

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008

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 | | Final | | |
| | | | | True | Found | %R | Found | %R |
| Mercury | 0.2 | 0.17 | 85.0 | | | | | |

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

USEPA - CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008

Preparation Blank Matrix (soil/water): WATER

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

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|-----------|-----------------------------|---|-------------------------------------|---|-------|---|-------|---|-------------------|---|---|
| | C | | 1 | C | 2 | C | 3 | C | C | | |
| Aluminum | 23.6 | U | 23.6 | U | 23.6 | U | 28.8 | B | 23.600 | U | P |
| Antimony | 4.7 | U | 4.7 | U | 4.7 | U | 4.7 | U | 4.700 | U | P |
| Arsenic | 4.8 | U | 4.8 | U | 4.8 | U | 4.8 | U | 4.800 | U | P |
| Barium | 5.9 | U | 5.9 | U | 5.9 | U | 5.9 | U | 5.900 | U | P |
| Beryllium | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.200 | U | P |
| Cadmium | 0.6 | U | 0.6 | U | 0.6 | U | 0.6 | U | 0.600 | U | P |
| Calcium | 182.1 | U | 182.1 | U | 182.1 | U | 182.1 | U | 182.100 | U | P |
| Chromium | 1.4 | U | 1.4 | U | 1.4 | U | 1.4 | U | 1.400 | U | P |
| Cobalt | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.000 | U | P |
| Copper | 2.4 | U | 2.4 | U | 2.4 | U | 2.4 | U | 2.400 | U | P |
| Iron | 33.3 | U | 33.3 | U | 33.3 | U | 33.3 | U | 33.300 | U | P |
| Lead | -1.5 | B | -1.5 | B | -1.4 | B | 1.3 | U | 1.300 | U | P |
| Magnesium | 178.3 | U | 178.3 | U | 178.3 | U | 178.3 | U | 178.300 | U | P |
| Manganese | 0.7 | U | 0.7 | U | 0.7 | U | 0.7 | U | 0.700 | U | P |
| Nickel | 2.1 | U | 2.1 | U | 2.1 | U | 2.1 | U | 2.100 | U | P |
| Potassium | 393.0 | U | 393.0 | U | 393.0 | U | 393.0 | U | 393.000 | U | P |
| Selenium | 3.4 | U | 3.4 | U | 3.4 | U | 3.4 | U | 3.400 | U | P |
| Silver | 2.2 | U | 2.2 | U | 2.2 | U | 2.2 | U | 2.200 | U | P |
| Sodium | 472.7 | U | 472.7 | U | 472.7 | U | 472.7 | U | 472.700 | U | P |
| Thallium | 5.7 | U | 5.7 | U | 5.7 | U | 5.7 | U | 5.700 | U | P |
| Vanadium | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.000 | U | P |
| Zinc | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 3.466 | B | P |

USEPA - CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | C | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|-----------|--------------------------------------|---|--|---|---|---|---|---|----------------------|---|---|
| | | | 1 | C | 2 | C | 3 | C | C | C | |
| Aluminum | | | 41.6 | B | | | | | | | 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 | | | 1.4 | U | | | | | | | P |
| Cobalt | | | 2.0 | U | | | | | | | P |
| Copper | | | 2.4 | U | | | | | | | P |
| Iron | | | 33.3 | U | | | | | | | P |
| Lead | | | -2.2 | B | | | | | | | P |
| Magnesium | | | 178.3 | U | | | | | | | P |
| Manganese | | | 0.7 | U | | | | | | | P |
| Nickel | | | 2.1 | U | | | | | | | P |
| Potassium | | | 393.0 | U | | | | | | | P |
| Selenium | | | 3.4 | 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 FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008

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) | | | | | | Preparation Blank | C | M |
|----------|--------------------------------------|---|--|---|-----|---|-----|---|----------------------|---|---|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Selenium | 3.4 | U | 3.4 | U | 3.4 | U | 3.4 | U | | P | |

USEPA - CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008

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) | | | | | | Preparation Blank | C | M |
|----------|--------------------------------------|---|--|---|---|---|---|---|----------------------|---|---|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Selenium | | | 3.4 | U | | | | | | | P |

USEPA - CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008

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) | | | | | | Preparation Blank | C | M |
|---------|--------------------------------------|---|--|---|-----|---|-----|---|----------------------|---|----|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Mercury | 0.1 | U | 0.1 | U | 0.1 | U | 0.1 | U | 0.100 | U | CV |

USEPA - CLP FORMS

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008

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) | | | | | | Preparation Blank | C | M |
|---------|--------------------------------------|---|--|---|---|---|---|---|----------------------|---|----|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Mercury | | | 0.1 | U | | | | | | | CV |

USEPA - CLP FORMS

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008ICP ID Number: TJA ICAP 4 ICS Source: Inorganic VenturesConcentration 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 | 498600 | 500000.0 | 103.6 | 497600 | 495900.0 | 102.7 |
| Antimony | 0 | 596 | -2 | 634.8 | 106.5 | -3 | 626.0 | 105.0 |
| Arsenic | 0 | 102 | 8 | 102.6 | 100.6 | 8 | 104.6 | 102.5 |
| Barium | 0 | 503 | 2 | 498.8 | 99.2 | 2 | 497.8 | 99.0 |
| Beryllium | 0 | 482 | 0 | 483.1 | 100.2 | 0 | 478.3 | 99.2 |
| Cadmium | 0 | 938 | 0 | 935.6 | 99.7 | 0 | 920.1 | 98.1 |
| Calcium | 500000 | 477840 | 492700 | 494800.0 | 103.5 | 492900 | 489100.0 | 102.4 |
| Chromium | 0 | 483 | 4 | 480.2 | 99.4 | 4 | 475.2 | 98.4 |
| Cobalt | 0 | 457 | -1 | 460.0 | 100.7 | 0 | 455.1 | 99.6 |
| Copper | 0 | 526 | 3 | 513.5 | 97.6 | 3 | 512.4 | 97.4 |
| Iron | 200000 | 191980 | 201300 | 199600.0 | 104.0 | 201700 | 198100.0 | 103.2 |
| Lead | 0 | 49 | 5 | 52.7 | 107.6 | 6 | 50.0 | 102.0 |
| Magnesium | 500000 | 521880 | 538600 | 541400.0 | 103.7 | 538800 | 535700.0 | 102.6 |
| Manganese | 0 | 474 | 1 | 471.4 | 99.5 | 1 | 465.9 | 98.3 |
| Nickel | 0 | 952 | 1 | 954.8 | 100.3 | 1 | 947.4 | 99.5 |
| Potassium | 0 | 0 | 11 | 3.6 | | -11 | -85.5 | |
| Selenium | 0 | 47 | 2 | 49.9 | 106.2 | 2 | 50.3 | 107.0 |
| Silver | 0 | 213 | 0 | 213.6 | 100.3 | 2 | 212.1 | 99.6 |
| Sodium | 0 | 0 | -348 | -163.6 | | -198 | -468.7 | |
| Thallium | 0 | 89 | -5 | 89.0 | 100.0 | -4 | 88.9 | 99.9 |
| Vanadium | 0 | 478 | 1 | 468.8 | 98.1 | 2 | 464.0 | 97.1 |
| Zinc | 0 | 998 | 3 | 1010.0 | 101.2 | 4 | 1003.0 | 100.5 |

USEPA - CLP FORMS

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008

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 |
| Selenium | 0 | 47 | -2 | 50.3 | 107.0 | 2 | 49.5 | 105.3 |

USEPA - CLP FORMS

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008

Solid LCS Source: _____

Aqueous LCS Source: Inorganic Ventures

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|-----------|----------------|----------|------|---------------|-------|---|--------|----|
| | True | Found | %R | True | Found | C | Limits | %R |
| Aluminum | 51000.0 | 48750.00 | 95.6 | | | | | |
| Antimony | 2000.0 | 1982.00 | 99.1 | | | | | |
| Arsenic | 1050.0 | 995.70 | 94.8 | | | | | |
| Barium | 500.0 | 470.30 | 94.1 | | | | | |
| Beryllium | 500.0 | 472.10 | 94.4 | | | | | |
| Cadmium | 525.0 | 485.40 | 92.5 | | | | | |
| Calcium | 50000.0 | 48240.00 | 96.5 | | | | | |
| Chromium | 500.0 | 472.80 | 94.6 | | | | | |
| Cobalt | 500.0 | 464.40 | 92.9 | | | | | |
| Copper | 500.0 | 479.60 | 95.9 | | | | | |
| Iron | 50500.0 | 49150.00 | 97.3 | | | | | |
| Lead | 1015.0 | 949.80 | 93.6 | | | | | |
| Magnesium | 50000.0 | 48070.00 | 96.1 | | | | | |
| Manganese | 500.0 | 467.10 | 93.4 | | | | | |
| Nickel | 500.0 | 467.00 | 93.4 | | | | | |
| Potassium | 50000.0 | 47470.00 | 94.9 | | | | | |
| Selenium | 525.0 | 473.60 | 90.2 | | | | | |
| Silver | 500.0 | 411.00 | 82.2 | | | | | |
| Sodium | 50000.0 | 48320.00 | 96.6 | | | | | |
| Thallium | 550.0 | 508.40 | 92.4 | | | | | |
| Vanadium | 500.0 | 476.20 | 95.2 | | | | | |
| Zinc | 500.0 | 472.30 | 94.5 | | | | | |

USEPA - CLP FORMS

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008

Solid LCS Source: _____

Aqueous LCS Source: Inorganic Ventures

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|---------|----------------|-------|------|---------------|-------|---|--------|----|
| | True | Found | %R | True | Found | C | Limits | %R |
| Mercury | 1.0 | 0.94 | 94.0 | | | | | |

USEPA - CLP FORMS

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008

Solid LCS Source: _____

Aqueous LCS Source: Inorganic Ventures

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|-----------|----------------|----------|-------|---------------|-------|---|--------|----|
| | True | Found | %R | True | Found | C | Limits | %R |
| Aluminum | 51000.0 | 50390.00 | 98.8 | | | | | |
| Antimony | 2000.0 | 2044.00 | 102.2 | | | | | |
| Arsenic | 1050.0 | 1030.00 | 98.1 | | | | | |
| Barium | 500.0 | 485.60 | 97.1 | | | | | |
| Beryllium | 500.0 | 486.10 | 97.2 | | | | | |
| Cadmium | 525.0 | 500.70 | 95.4 | | | | | |
| Calcium | 50000.0 | 49830.00 | 99.7 | | | | | |
| Chromium | 500.0 | 487.50 | 97.5 | | | | | |
| Cobalt | 500.0 | 479.20 | 95.8 | | | | | |
| Copper | 500.0 | 496.40 | 99.3 | | | | | |
| Iron | 50500.0 | 50670.00 | 100.3 | | | | | |
| Lead | 1015.0 | 978.20 | 96.4 | | | | | |
| Magnesium | 50000.0 | 49620.00 | 99.2 | | | | | |
| Manganese | 500.0 | 481.70 | 96.3 | | | | | |
| Nickel | 500.0 | 482.10 | 96.4 | | | | | |
| Potassium | 50000.0 | 49040.00 | 98.1 | | | | | |
| Selenium | 525.0 | 491.80 | 93.7 | | | | | |
| Silver | 500.0 | 423.80 | 84.8 | | | | | |
| Sodium | 50000.0 | 49920.00 | 99.8 | | | | | |
| Thallium | 550.0 | 523.70 | 95.2 | | | | | |
| Vanadium | 500.0 | 492.30 | 98.5 | | | | | |
| Zinc | 500.0 | 487.80 | 97.6 | | | | | |

USEPA - CLP FORMS

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008

Solid LCS Source: _____

Aqueous LCS Source: Inorganic Ventures

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|---------|----------------|-------|------|---------------|-------|---|--------|----|
| | True | Found | %R | True | Found | C | Limits | %R |
| Mercury | 1.0 | 0.99 | 99.0 | | | | | |

USEPA - CLP FORMS

9

ICP SERIAL DILUTIONS

SAMPLE NO.

BLACSTSEFW02L

Lab Name: STL BURLINGTON

Contract: 23046

Lab Code: STLVT

Case No.: 23046

SAS No.: _____

SDG No.: GCW008

Matrix (soil/water): WATER

Level (low/med): LOW

Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | | Serial Dilution Result (S) | | % Difference | Q | M |
|-----------|---------------------------|---|----------------------------|---|--------------|---|---|
| | | C | | C | | | |
| Aluminum | 43.95 | B | 118.00 | U | 100.0 | | P |
| Antimony | 4.70 | U | 23.50 | U | | | P |
| Arsenic | 4.80 | U | 24.00 | U | | | P |
| Barium | 15.23 | B | 29.50 | U | 100.0 | | P |
| Beryllium | 0.20 | U | 1.00 | U | | | P |
| Cadmium | 0.60 | U | 3.00 | U | | | P |
| Calcium | 12050.00 | | 12350.00 | B | 2.5 | | P |
| Chromium | 1.40 | U | 7.00 | U | | | P |
| Cobalt | 2.00 | U | 10.00 | U | | | P |
| Copper | 2.40 | U | 12.00 | U | | | P |
| Iron | 73.40 | B | 166.50 | U | 100.0 | | P |
| Lead | 1.30 | U | 6.50 | U | | | P |
| Magnesium | 6868.00 | | 7077.00 | B | 3.0 | | P |
| Manganese | 5.20 | B | 6.06 | B | 16.5 | | P |
| Nickel | 2.10 | U | 10.50 | U | | | P |
| Potassium | 1190.00 | B | 1965.00 | U | 100.0 | | P |
| Selenium | 3.40 | U | 17.00 | U | | | P |
| Silver | 2.20 | U | 11.00 | U | | | P |
| Sodium | 2506.00 | B | 2363.50 | U | 100.0 | | P |
| Thallium | 5.70 | U | 28.50 | U | | | P |
| Vanadium | 2.00 | U | 10.00 | U | | | P |
| Zinc | 2.80 | B | 6.21 | B | 121.8 | | P |

USEPA - CLP FORMS

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008ICP ID Number: _____ Date: 07/01/03Flame 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:

USEPA - CLP FORMS

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCW008ICP ID Number: TJA ICAP 4Date: 07/01/03

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 |
| Selenium | 196.026 | | 5 | 3.4 | 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:

USEPA - CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008

ICP ID Number: TJA ICAP 4 Date: 06/30/03

| 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: _____

USEPA - CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008
 ICP ID Number: TJA ICAP 4 Date: 06/30/03

| 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: _____

USEPA - CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008

ICP ID Number: TJA ICAP 4 Date: 06/30/03

| Analyte | Wave-length (nm) | Interelement Correction Factors for: | | | | |
|------------|------------------|--------------------------------------|------------|------------|-----------|-----------|
| | | Ni | Sb | Sn | V | Zn |
| Aluminum | 308.22 | 0.000000 | 0.000000 | 0.1440400 | 0.000000 | 0.000000 |
| Antimony | 206.84 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Arsenic | 189.04 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Barium | 493.41 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Beryllium | 313.04 | 0.000000 | 0.000000 | 0.000000 | 0.0006280 | 0.000000 |
| Boron | 249.68 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Cadmium | 226.50 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Calcium | 317.93 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Chromium | 267.72 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Cobalt | 228.62 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Copper | 324.75 | 0.000000 | 0.000000 | 0.000000 | -0.000192 | 0.000000 |
| Iron | 271.44 | 0.000000 | 0.000000 | 0.000000 | 0.0237000 | 0.000000 |
| Lead | 220.35 | 0.0001240 | -0.0002280 | 0.000000 | 0.0005020 | 0.000000 |
| Magnesium | 279.08 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Manganese | 257.61 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Molybdenum | 202.03 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Nickel | 231.60 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Potassium | 766.49 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Selenium | 196.03 | 0.000000 | 0.0001660 | 0.000000 | 0.000000 | 0.000000 |
| Silicon | 288.16 | 0.000000 | 0.000000 | -0.1212200 | 0.000000 | 0.000000 |
| Silver | 328.07 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Sodium | 330.23 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.1177000 |
| Thallium | 190.86 | 0.000000 | 0.000000 | 0.000000 | 0.0025400 | 0.000000 |
| Tin | 189.99 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Vanadium | 292.40 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Zinc | 213.86 | 0.0052400 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

Comments: _____

USEPA - CLP FORMS

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008ICP ID Number: TJA ICAP 4 Date: 07/01/03

| 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 |
| Selenium | 10.00 | 5000.0 | 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 FORMS

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008Method: CV

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|-------------------|---------------------|----------------------|----------------|
| BLACPDSEFW10 | 08/14/03 | 100.0 | 100.0 |
| BLACPDSEFW10F | 08/14/03 | 100.0 | 100.0 |
| BLACPDSEFW15 | 08/14/03 | 100.0 | 100.0 |
| BLACPDSEFW15F | 08/14/03 | 100.0 | 100.0 |
| BLACPDSEFW41 | 08/14/03 | 100.0 | 100.0 |
| BLACPDSEFW41F | 08/14/03 | 100.0 | 100.0 |
| BLACSTPWP02F | 08/14/03 | 100.0 | 100.0 |
| BLACSTPWP04F | 08/14/03 | 100.0 | 100.0 |
| BLACSTPWR42F | 08/14/03 | 100.0 | 100.0 |
| BLACSTSFW02 | 08/14/03 | 100.0 | 100.0 |
| BLACSTSFW02F | 08/14/03 | 100.0 | 100.0 |
| BLACSTSFW03 | 08/14/03 | 100.0 | 100.0 |
| BLACSTSFW03F | 08/14/03 | 100.0 | 100.0 |
| BLACSTSFW42 | 08/14/03 | 100.0 | 100.0 |
| BLACSTSFW42F | 08/14/03 | 100.0 | 100.0 |
| BLUEPDSEFW17 | 08/14/03 | 100.0 | 100.0 |
| BLUEPDSEFW17F | 08/14/03 | 100.0 | 100.0 |
| LCSDW0814F | 08/14/03 | 100.0 | 100.0 |
| LCSW0814F | 08/14/03 | 100.0 | 100.0 |
| PEW0814F | 08/14/03 | 100.0 | 100.0 |

USEPA - CLP FORMS

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008Method: P

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|-------------------|---------------------|----------------------|----------------|
| BLACPDSEFW10 | 08/13/03 | 100.0 | 100.0 |
| BLACPDSEFW10F | 08/13/03 | 100.0 | 100.0 |
| BLACPDSEFW15 | 08/13/03 | 100.0 | 100.0 |
| BLACPDSEFW15F | 08/13/03 | 100.0 | 100.0 |
| BLACPDSEFW41 | 08/13/03 | 100.0 | 100.0 |
| BLACPDSEFW41F | 08/13/03 | 100.0 | 100.0 |
| BLACSTPWP02F | 08/13/03 | 100.0 | 100.0 |
| BLACSTPWP04F | 08/13/03 | 100.0 | 100.0 |
| BLACSTPWR42F | 08/13/03 | 100.0 | 100.0 |
| BLACSTSEFW02 | 08/13/03 | 100.0 | 100.0 |
| BLACSTSEFW02F | 08/13/03 | 100.0 | 100.0 |
| BLACSTSEFW03 | 08/13/03 | 100.0 | 100.0 |
| BLACSTSEFW03F | 08/13/03 | 100.0 | 100.0 |
| BLACSTSEFW42 | 08/13/03 | 100.0 | 100.0 |
| BLACSTSEFW42F | 08/13/03 | 100.0 | 100.0 |
| BLUEPDSEFW17 | 08/13/03 | 100.0 | 100.0 |
| BLUEPDSEFW17F | 08/13/03 | 100.0 | 100.0 |
| LCSDW0813C | 08/13/03 | 100.0 | 100.0 |
| LCSW0813C | 08/13/03 | 100.0 | 100.0 |
| PBW0813C | 08/13/03 | 100.0 | 100.0 |

USEPA - CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008
 Instrument ID Number: TJA ICAP 4 Method: P
 Start Date: 09/02/03 End Date: 09/02/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V L | Z N | C N | | | | |
| S0 | 1.00 | 1006 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| S | 1.00 | 1011 | | X | | | | | X | | | | X | X | | | | | X | | X | | | | | | | | | | |
| S | 1.00 | 1015 | | | X | X | | | | | | | X | | | | | | X | | X | | | | | | | | | | |
| S | 1.00 | 1019 | | | | X | X | X | | X | X | X | | | X | | X | | X | | X | | | X | X | | | | | | |
| LRS | 1.00 | 1025 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| LRS | 1.00 | 1030 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| LRS | 1.00 | 1035 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICV | 1.00 | 1040 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICB | 1.00 | 1045 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICSA | 1.00 | 1050 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| ICSAB | 1.00 | 1055 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CRI | 1.00 | 1101 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCV | 1.00 | 1106 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCB | 1.00 | 1111 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| PBW0813C | 1.00 | 1116 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| LCSW0813C | 1.00 | 1121 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| LCSDW0813C | 1.00 | 1126 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLACSTSEW02 | 1.00 | 1131 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLACSTSEW02L | 5.00 | 1136 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLACSTSEW02F | 1.00 | 1141 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLACSTSEW03 | 1.00 | 1146 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLACSTSEW03F | 1.00 | 1151 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLACSTPWP02F | 1.00 | 1156 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLACSTPWR42F | 1.00 | 1201 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCV | 1.00 | 1206 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCB | 1.00 | 1211 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLACSTSEW42 | 1.00 | 1216 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLACSTSEW42F | 1.00 | 1221 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLACPDSEW15 | 1.00 | 1227 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLACPDSEW15F | 1.00 | 1232 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLACPDSEW10 | 1.00 | 1237 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLACPDSEW10F | 1.00 | 1242 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLUEPDSEW17 | 1.00 | 1247 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLUEPDSEW17F | 1.00 | 1252 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLACPDSEW41 | 1.00 | 1257 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| BLACPDSEW41F | 1.00 | 1302 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCV | 1.00 | 1307 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| CCB | 1.00 | 1312 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |

USEPA - CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008
 Instrument ID Number: TJA ICAP 4 Method: P
 Start Date: 09/02/03 End Date: 09/02/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S G | A A | N L | T L | V L | Z N | C N | | |
| BLACSTPWP04F | 1.00 | 1317 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| ICSA | 1.00 | 1322 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| ICSAB | 1.00 | 1327 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CRI | 1.00 | 1332 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CCV | 1.00 | 1338 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CCB | 1.00 | 1343 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |

USEPA - CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008
 Instrument ID Number: TJA ICAP 4 Method: P
 Start Date: 09/04/03 End Date: 09/04/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C F | F U | P E | M B | M G | H N | H G | N I | K I | S E | A G | N A | T A | V L | Z N | C N | |
| S0 | 1.00 | 1704 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| S | 1.00 | 1709 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S | 1.00 | 1713 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| S | 1.00 | 1717 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LRS | 1.00 | 1722 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| LRS | 1.00 | 1727 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| LRS | 1.00 | 1732 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| ICV | 1.00 | 1738 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| ICB | 1.00 | 1743 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| ICSA | 1.00 | 1748 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| ICSAB | 1.00 | 1753 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| CRI | 1.00 | 1758 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| CRILOW | 1.00 | 1803 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| CCV | 1.00 | 1808 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| CCB | 1.00 | 1813 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| ZZZZZZ | 1.00 | 1819 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1824 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1829 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1834 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 5.00 | 1839 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1844 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1849 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1854 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1859 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1904 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1909 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| CCB | 1.00 | 1914 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| ZZZZZZ | 1.00 | 1919 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1924 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1929 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1934 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1939 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1944 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1949 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1954 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1959 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLACSTSEW02 | 1.00 | 2004 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| CCV | 1.00 | 2010 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |

USEPA - CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW008
 Instrument ID Number: Leeman Hydra AA Method: CV
 Start Date: 08/18/03 End Date: 08/18/03

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | F U | F E | P B | M G | M N | H G | N I | K E | S G | A A | N L | T A | V L | Z N | C N | | |
| ZZZZZZ | 1.00 | 1240 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1242 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1244 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1246 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1248 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1250 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1252 | | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| CCB | 1.00 | 1254 | | | | | | | | | | | | | | | | | X | | | | | | | | | | |



**Geotechnical Analysis
Sample Data Summary Package**

EASEAT SDG # GCW008

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTSF02

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW008

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535925

Matrix: WATER

Client: EASEAT

Date Received: 07/26/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------------|---------------------|------------------|-------|----|----|-------|-------|
| QSOA | Redox Potential D1498 | 08/26/03 | | mV | 1 | 10 | 180 | |

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTSFW03

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW008

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535927

Matrix: WATER

Client: EASEAT

Date Received: 07/26/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------------|---------------------|------------------|-------|----|----|-------|-------|
| QSOA | Redox Potential D1498 | 08/26/03 | | mV | 1 | 10 | 174 | |

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTSF42

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW008

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535933

Matrix: WATER

Client: EASEAT

Date Received: 07/26/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------------|---------------------|------------------|-------|----|----|-------|-------|
| QSOA | Redox Potential D1498 | 08/26/03 | | mV | 1 | 10 | 159 | |

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

BLACPDSFW15

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW008

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535935

Matrix: WATER

Client: EASEAT

Date Received: 07/26/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------------|---------------------|------------------|-------|----|----|-------|-------|
| QSOA | Redox Potential D1498 | 08/26/03 | | mV | 1 | 10 | 370 | |

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

BLACPDSFW10

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW008

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535937

Matrix: WATER

Client: EASEAT

Date Received: 07/26/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------------|---------------------|------------------|-------|----|----|-------|-------|
| QSOA | Redox Potential D1498 | 08/26/03 | | mV | 1 | 10 | 375 | |

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

BLUEPDSFW17

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW008

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535939

Matrix: WATER

Client: EASEAT

Date Received: 07/26/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------------|---------------------|------------------|-------|----|----|-------|-------|
| QSOA | Redox Potential D1498 | 08/26/03 | | mV | 1 | 10 | 233 | |

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

BLACPDSFW41

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW008

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535941

Matrix: WATER

Client: EASEAT

Date Received: 07/26/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------------|---------------------|------------------|-------|----|----|-------|-------|
| QSOA | Redox Potential D1498 | 08/26/03 | | mV | 1 | 10 | 201 | |

**STL Burlington
Colchester, Vermont**

**Sample Data Summary
Package**

SDG: GCW009

September 16, 2003

Ms. Jennifer Kindred
EA Engineering
12011 Bellevue-Redmond Rd.
Suite 200
Bellevue, WA 98005

Re: Laboratory Project No. 23046
Case No. 23046; SDG: GCW009

Dear Ms. Kindred:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on July 26, 2003. Laboratory numbers have been assigned and designated as follows:

| <u>Lab ID</u> | <u>Client Sample ID</u> | <u>Sample Date</u> | <u>Sample Matrix</u> |
|----------------------------------|-----------------------------|------------------------|--------------------------|
| Received: 07/26/03 ETR No: 95007 | | | |
| 535945 | BLACSTSFW04 | 07/22/03 | Water |
| 535946 | BLACSTSFW04F | 07/22/03 | Water |
| 535947 | BLUEPDSFW40 | 07/20/03 | Water |
| 535948 | BLUEPDSFW40F | 07/20/03 | Water |
| 535949 | BLUEPDSFW18 | 07/22/03 | Water |
| 535950 | BLUEPDSFW18F | 07/22/03 | Water |
| 535951 | BLUEPDSFW16 | 07/22/03 | Water |
| 535952 | BLUEPDSFW16F | 07/22/03 | Water |
| 535953 | BLACPDSFW43 | 07/23/03 | Water |
| 535954 | BLACPDSFW43F | 07/23/03 | Water |
| 535955 | BLACSTPWP03 | 07/22/03 | Water |
| 535956 | BLACSTPWP03F | 07/22/03 | Water |
| 535957 | BLACSTPWR02 | 07/22/03 | Water |
| 535958 | BLACSTPWR02F | 07/22/03 | Water |
| 535959 | BLACSTPWP01 | 07/23/03 | Water |
| 535960 | BLACSTPWP01F | 07/23/03 | Water |
| 535961 | BLACSTPWR03 | 07/22/03 | Water |
| 535962 | BLACSTPWR03F | 07/22/03 | Water |
| 535963 | BLACADSFW11 | 07/23/03 | Water |
| 535964 | BLACADSFW11F | 07/23/03 | Water |

Due to reporting software limitations, sample identifications may have been truncated. In most instances only punctuation was removed.

Severn Trent Laboratories, Inc.

STL Burlington • 208 South Park Drive, Suite 1, Colchester, VT 05446

Tel 802 655 1203 Fax 802 655 1248 • www.stl-inc.com

Documentation that identifies the condition of the samples at the time of sample receipt and the issues arising at the time of sample log-in is included in the Sample Handling section of this submittal.

The analysis for arsenic speciation was performed by STL's North Canton facility, as approved by EA Engineering. STL North Canton assigned "Lot" numbers as samples were received. Though laboratory numbers may differ, the client's sample identifications were maintained. The results for this delivery group including a case narrative prepared by the North Canton laboratory are attached to the extended data package.

There were no exceptions to quality control criteria noted during the analysis of samples in this delivery group. If there are any questions regarding this submittal, please contact Jeannine McCrumb at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 0001 and ending with page 0411.

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. The release of the data contained in this hardcopy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael Wheeler", with a long horizontal line extending to the right.

Michael F. Wheeler, Ph.D.
Laboratory Director

Enclosure
MFW/jtd/jmm

CHAIN OF CUSTODY RECORD

Report to: EA Engineering
 Company: EA Engineering
 Address: 12011 Bel Red Rd Suite 200
Bellevue, WA 98005
 Contact: Jen Kindred
 Phone: 425-451-7400
 Fax: 425-451-7800
 Contract/Quote: _____

Invoice to: Same
 Company: _____
 Address: _____
 Contact: _____
 Phone: _____
 Fax: _____

Sampler's Name: Don Norman
 Sampler's Signature: [Signature]

| Proj. No. | Date | Time | Matrix | Project Name | No./Type of Containers | | | Analyses Requested | Lab Use Only |
|-----------|------|------|--------|-------------------------|------------------------|-----|-----|---|--|
| | | | | | C | A/G | P/O | | |
| 13890.13 | 7/22 | 1200 | X | Granite Creek Watershed | 2 | 1 | 2 | PH, redox, SO ₄ , spec. conduct., etc. Arsenic Speciation | Temp. of coolers when received (C°): 1 2 3 4 5 Custody Seal N/Y Intact N/Y Screened For Radioactivity <input type="checkbox"/> |
| | 7/22 | 1600 | X | BLAC-ST-SFW-04 | 1 | 1 | 2 | PH, redox, SO ₄ , spec. conduct., etc. Arsenic Speciation | Temp. of coolers when received (C°): 1 2 3 4 5 Custody Seal N/Y Intact N/Y Screened For Radioactivity <input type="checkbox"/> |
| | 7/22 | 1630 | X | BLUE-AD-SFW-40 | 2 | 1 | 2 | PH, redox, SO ₄ , spec. conduct., etc. Arsenic Speciation | Temp. of coolers when received (C°): 1 2 3 4 5 Custody Seal N/Y Intact N/Y Screened For Radioactivity <input type="checkbox"/> |
| | 7/22 | 1615 | X | BLUE-PD-SFW-18 | 2 | 1 | 2 | PH, redox, SO ₄ , spec. conduct., etc. Arsenic Speciation | Temp. of coolers when received (C°): 1 2 3 4 5 Custody Seal N/Y Intact N/Y Screened For Radioactivity <input type="checkbox"/> |
| | 7/23 | 1400 | X | BLUE-PD-SFW-16 | 2 | 1 | 2 | PH, redox, SO ₄ , spec. conduct., etc. Arsenic Speciation | Temp. of coolers when received (C°): 1 2 3 4 5 Custody Seal N/Y Intact N/Y Screened For Radioactivity <input type="checkbox"/> |
| | 7/22 | 1715 | X | BLAC-PD-SFW-43 | 1 | 1 | 6 | PH, redox, SO ₄ , spec. conduct., etc. Arsenic Speciation | Temp. of coolers when received (C°): 1 2 3 4 5 Custody Seal N/Y Intact N/Y Screened For Radioactivity <input type="checkbox"/> |
| | 7/22 | 1715 | X | BLAC-ST-PWP-03 | 1 | 1 | 1 | PH, redox, SO ₄ , spec. conduct., etc. Arsenic Speciation | Temp. of coolers when received (C°): 1 2 3 4 5 Custody Seal N/Y Intact N/Y Screened For Radioactivity <input type="checkbox"/> |
| | 7/22 | 1920 | X | BLAC-ST-PWR-02 | 1 | 1 | 1 | PH, redox, SO ₄ , spec. conduct., etc. Arsenic Speciation | Temp. of coolers when received (C°): 1 2 3 4 5 Custody Seal N/Y Intact N/Y Screened For Radioactivity <input type="checkbox"/> |
| | 7/23 | 1200 | X | BLAC-ST-PWP-01 | 1 | 1 | 2 | PH, redox, SO ₄ , spec. conduct., etc. Arsenic Speciation | Temp. of coolers when received (C°): 1 2 3 4 5 Custody Seal N/Y Intact N/Y Screened For Radioactivity <input type="checkbox"/> |
| | 7/22 | 1730 | X | BLAC-ST-PWR-03 | 1 | 1 | 1 | PH, redox, SO ₄ , spec. conduct., etc. Arsenic Speciation | Temp. of coolers when received (C°): 1 2 3 4 5 Custody Seal N/Y Intact N/Y Screened For Radioactivity <input type="checkbox"/> |
| | 7/23 | 1300 | X | BLAC-AD-SFW-11 | 1 | 1 | 6 | PH, redox, SO ₄ , spec. conduct., etc. Arsenic Speciation | Temp. of coolers when received (C°): 1 2 3 4 5 Custody Seal N/Y Intact N/Y Screened For Radioactivity <input type="checkbox"/> |

Relinquished by: (Signature) _____ Date _____ Time _____ Received by: (Signature) _____ Date _____ Time _____

Relinquished by: (Signature) _____ Date _____ Time _____ Received by: (Signature) _____ Date _____ Time _____

Relinquished by: (Signature) _____ Date _____ Time _____ Received by: (Signature) _____ Date _____ Time _____

Remarks: _____

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

Matrix: WW - Wastewater VOA - 40 ml vial Water: W - Water A/G - Amber / Or Glass 1 Liter S - Soil L - Liquid 250 ml - Glass wide mouth A - Air bag C - Charcoal Tube P/O - Plastic or other 500 mL

STL cannot accept verbal changes. Please Fax written changes to (802) 655-1248



**Geotechnical Analysis
Sample Data Summary Package**

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTSFW04

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW009

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535945

Matrix: WATER

Client: EASEAT

Date Received: 07/26/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------------|---------------------|------------------|-------|----|----|-------|-------|
| QSOA | Redox Potential D1498 | 08/27/03 | | mV | 1 | 10 | 147 | |

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

BLUEPDSFW40

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW009

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535947

Matrix: WATER

Client: EASEAT

Date Received: 07/26/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------------|---------------------|------------------|-------|----|----|-------|-------|
| QSOA | Redox Potential D1498 | 08/27/03 | | mV | 1 | 10 | 267 | |

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

BLUEPDSFW18

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW009

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535949

Matrix: WATER

Client: EASEAT

Date Received: 07/26/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------------|---------------------|------------------|-------|----|----|-------|-------|
| QSOA | Redox Potential D1498 | 08/27/03 | | mV | 1 | 10 | 294 | |

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

BLUEPDSFW16

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW009

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535951

Matrix: WATER

Client: EASEAT

Date Received: 07/26/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------------|---------------------|------------------|-------|----|----|-------|-------|
| QSOA | Redox Potential D1498 | 08/27/03 | | mV | 1 | 10 | 298 | |

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

BLACPDSFW43

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW009

Lab Code: STLVLT

Case No.: 23046

Lab Sample ID: 535953

Matrix: WATER

Client: EASEAT

Date Received: 07/26/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------------|---------------------|------------------|-------|----|----|-------|-------|
| QSOA | Redox Potential D1498 | 08/27/03 | | mV | 1 | 10 | 228 | |

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

BLACADSFW11

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW009

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535963

Matrix: WATER

Client: EASEAT

Date Received: 07/26/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------------|---------------------|------------------|-------|----|----|-------|-------|
| QSOA | Redox Potential D1498 | 08/27/03 | | mV | 1 | 10 | 232 | |



**Sample Data Summary Package
For Wet Chemistry**

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTSF04

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW009

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535945

Matrix: WATER

Client: EASEAT

Date Received: 07/26/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------------|---------------------|------------------|----------|----|-------|-------|-------|
| 120.1 | Conductivity (umhos/cm) | 08/12/03 | | umhos/cm | 1 | 0.000 | 113 | |
| 130.2 | Total Hardness as CaCO3 | 08/11/03 | BLKHA0811A | mg/L | 1 | 2.0 | 104 | |
| 310.1 | Hydroxide Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Carbonate Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Bicarbonate Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 1 | 1.0 | 59.5 | |
| 310.1 | Total Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 1 | 1.0 | 59.5 | |
| 375.4 | Sulfate | 08/07/03 | BLKSU0807A | mg/L | 1 | 5.0 | 6.8 | |
| 9040B | Corrosivity by pH | 07/28/03 | | pH Units | 1 | 0.1 | 8.4 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUEPDSFW40

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW009

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535947

Matrix: WATER

Client: EASEAT

Date Received: 07/26/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------------|---------------------|------------------|----------|----|-------|-------|-------|
| 120.1 | Conductivity (umhos/cm) | 08/12/03 | | umhos/cm | 1 | 0.000 | 163 | |
| 130.2 | Total Hardness as CaCO3 | 08/11/03 | BLKHA0811A | mg/L | 1 | 2.0 | 148 | |
| 310.1 | Hydroxide Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Carbonate Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Bicarbonate Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 1 | 1.0 | 6.8 | |
| 310.1 | Total Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 1 | 1.0 | 6.8 | |
| 375.4 | Sulfate | 08/07/03 | BLKSU0807A | mg/L | 5 | 25.0 | 63.3 | |
| 9040B | Corrosivity by pH | 07/28/03 | | pH Units | 1 | 0.1 | 5.2 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUEPDSFW18

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW009

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535949

Matrix: WATER

Client: EASEAT

Date Received: 07/26/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------------|---------------------|------------------|----------|----|-------|-------|-------|
| 120.1 | Conductivity (umhos/cm) | 08/12/03 | | umhos/cm | 1 | 0.000 | 171 | |
| 130.2 | Total Hardness as CaCO3 | 08/11/03 | BLKHA0811A | mg/L | 1 | 2.0 | 228 | |
| 310.1 | Hydroxide Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Carbonate Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Bicarbonate Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 1 | 1.0 | 5.4 | |
| 310.1 | Total Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 1 | 1.0 | 5.4 | |
| 375.4 | Sulfate | 08/07/03 | BLKSU0807A | mg/L | 5 | 25.0 | 65.9 | |
| 9040B | Corrosivity by pH | 07/28/03 | | pH Units | 1 | 0.1 | 5.2 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUEPDSFW16

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW009

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535951

Matrix: WATER

Client: EASEAT

Date Received: 07/26/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-------------------------|---------------------|------------------|----------|----|-------|-------|-------|
| 120.1 | Conductivity (umhos/cm) | 08/12/03 | | umhos/cm | 1 | 0.000 | 406 | |
| 130.2 | Total Hardness as CaCO3 | 08/11/03 | BLKHA0811A | mg/L | 1 | 2.0 | 284 | |
| 310.1 | Hydroxide Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Carbonate Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Bicarbonate Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 1 | 1.0 | 1.9 | |
| 310.1 | Total Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 1 | 1.0 | 1.9 | |
| 375.4 | Sulfate | 08/07/03 | BLKSU0807A | mg/L | 10 | 50.0 | 193 | |
| 9040B | Corrosivity by pH | 07/28/03 | | pH Units | 1 | 0.1 | 4.8 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACPDSFW43

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW009

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535953

Matrix: WATER

Client: EASEAT

Date Received: 07/26/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|---------------------------|---------------------|------------------|----------|----|-------|-------|-------|
| 120.1 | Conductivity (umhos/cm) | 08/12/03 | | umhos/cm | 1 | 0.000 | 170 | |
| 130.2 | Total Hardness as CaCO3 | 08/11/03 | BLKHA0811A | mg/L | 1 | 2.0 | 124 | |
| 160.1 | Total Dissolved Solids | 07/30/03 | BLKDS0730B | mg/L | 1 | 5.0 | 105 | |
| 160.2 | Total Suspended Solids | 07/28/03 | BLKSS0728E | mg/L | 1 | 0.53 | 1.8 | |
| 160.4 | Volatile Suspended Solids | 07/28/03 | | mg/L | 1 | 5.0 | 5.0 | U |
| 310.1 | Hydroxide Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Carbonate Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Bicarbonate Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 1 | 1.0 | 20.2 | |
| 310.1 | Total Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 1 | 1.0 | 20.2 | |
| 375.4 | Sulfate | 08/07/03 | BLKSU0807A | mg/L | 5 | 25.0 | 60.1 | |
| 9040B | Corrosivity by pH | 07/28/03 | | pH Units | 1 | 0.1 | 6.1 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACADSF11

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW009

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 535963

Matrix: WATER

Client: EASEAT

Date Received: 07/26/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|---------------------------|---------------------|------------------|----------|----|-------|-------|-------|
| 120.1 | Conductivity (umhos/cm) | 08/12/03 | | umhos/cm | 1 | 0.000 | 179 | |
| 130.2 | Total Hardness as CaCO3 | 08/11/03 | BLKHA0811A | mg/L | 1 | 2.0 | 128 | |
| 160.1 | Total Dissolved Solids | 07/30/03 | BLKDS0730B | mg/L | 1 | 5.0 | 209 | |
| 160.2 | Total Suspended Solids | 07/28/03 | BLKSS0728E | mg/L | 1 | 0.50 | 21.7 | |
| 160.4 | Volatile Suspended Solids | 07/28/03 | | mg/L | 1 | 5.0 | 5.0 | U |
| 310.1 | Hydroxide Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Carbonate Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Bicarbonate Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 1 | 1.0 | 35.4 | |
| 310.1 | Total Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 1 | 1.0 | 35.4 | |
| 375.4 | Sulfate | 08/07/03 | BLKSU0807A | mg/L | 5 | 25.0 | 67.4 | |
| 9040B | Corrosivity by pH | 07/28/03 | | pH Units | 1 | 0.1 | 6.6 | |

WET CHEMISTRY

Method Blank Report Summary

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW009

Lab Code: STLVT

Case No.: 23046

Matrix: WATER

Client: EASEAT

% Solids:

| Lab Sample ID | Method | Parameter | Conc. | Units | Qual. | DF | RL | Analytical Run Date | Analytical Batch |
|---------------|--------|-------------------------|-------|-------|-------|----|------|---------------------|------------------|
| BLKAL0730A | 310.1 | Hydroxide Alkalinity | 1.0 | mg/L | U | 1 | 1.0 | 07/30/03 | BLKAL0730A |
| BLKAL0730A | 310.1 | Carbonate Alkalinity | 1.0 | mg/L | U | 1 | 1.0 | 07/30/03 | BLKAL0730A |
| BLKAL0730A | 310.1 | Bicarbonate Alkalinity | 1.0 | mg/L | U | 1 | 1.0 | 07/30/03 | BLKAL0730A |
| BLKAL0730A | 310.1 | Total Alkalinity | 1.0 | mg/L | U | 1 | 1.0 | 07/30/03 | BLKAL0730A |
| BLKDS0730B | 160.1 | Total Dissolved Solids | 5.0 | mg/L | U | 1 | 5.0 | 07/30/03 | BLKDS0730B |
| BLKHA0811A | 130.2 | Total Hardness as CaCO3 | 2.0 | mg/L | U | 1 | 2.0 | 08/11/03 | BLKHA0811A |
| BLKSS0728E | 160.2 | Total Suspended Solids | 0.50 | mg/L | U | 1 | 0.50 | 07/28/03 | BLKSS0728E |
| BLKSU0807A | 375.4 | Sulfate | 5.0 | mg/L | U | 1 | 5.0 | 08/07/03 | BLKSU0807A |

WET CHEMISTRY

Laboratory Control Sample Report Summary

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW009

Lab Code: STLVT

Case No.: 23046

Matrix: WATER

Client: EASEAT

% Solids:

| Lab Sample ID | Method | Parameter | Analytical Run Date | Analytical Batch | Units | LCS Conc. | True Value | % Recovery* |
|---------------|--------|-------------------------|---------------------|------------------|----------|-----------|------------|-------------|
| LCS DS0730B | 160.1 | Total Dissolved Solids | 07/30/03 | BLKDS0730B | mg/L | 50.0 | 50.0 | 100.0 |
| LCSAL0730A | 310.1 | Hydroxide Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 59.7 | 54.7000 | 109.2 |
| LCSAL0730A | 310.1 | Carbonate Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 59.7 | 54.7000 | 109.2 |
| LCSAL0730A | 310.1 | Bicarbonate Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 59.7 | 54.7000 | 109.2 |
| LCSAL0730A | 310.1 | Total Alkalinity | 07/30/03 | BLKAL0730A | mg/L | 59.7 | 54.7000 | 109.2 |
| LCSCD0812A | 120.1 | Conductivity (umhos/cm) | 08/12/03 | | umhos/c | 1000 | 997.0000 | 100.3 |
| LCSHA0811A | 130.2 | Total Hardness as CaCO3 | 08/11/03 | BLKHA0811A | mg/L | 124 | 121.0000 | 102.5 |
| LCSPH0728A | 9040B | Corrosivity by pH | 07/28/03 | | pH Units | 6.0 | 6.0000 | 100.5 |
| LCSSS0728E | 160.2 | Total Suspended Solids | 07/28/03 | BLKSS0728E | mg/L | 500 | 500 | 100.0 |
| LCSSU0807A | 375.4 | Sulfate | 08/07/03 | BLKSU0807A | mg/L | 9.6 | 10.0 | 96.0 |

* Control Limit for Percent Recovery is 80-120%, unless otherwise specified.

WET CHEMISTRY

Laboratory Control Sample Duplicate Report Summary

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW009

Lab Code: STLVT

Case No.: 23046

Matrix: WATER

Client: EASEAT

% Solids:

| Lab Sample ID | Method | Parameter | Analytical Run Date | Analytical Batch | Units | LCSD Conc. | True Value | % Recovery* | RPD** |
|---------------|--------|-------------------------|---------------------|------------------|----------|------------|------------|-------------|-------|
| LCSDHA0811A | 130.2 | Total Hardness as CaCO3 | 08/11/03 | BLKHA0811A | mg/L | 124 | 121.0000 | 102.5 | 0 |
| LCSDPH0728A | 9040B | Corrosivity by pH | 07/28/03 | | pH Units | 6.0 | 6.0000 | 100.3 | 0 |

* Control Limit for Percent Recovery is 80-120%, unless otherwise specified.

** Control Limit for RPD is +/- 20%, unless otherwise specified.



**Sample Data Summary Package
For Metals**

USEPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009

SOW No.: ILM04.1

| EPA Sample No. | Lab Sample ID. |
|----------------|----------------|
| BLACADSEFW11 | 535963 |
| BLACADSEFW11F | 535964 |
| BLACPDSEFW43 | 535953 |
| BLACPDSEFW43F | 535954 |
| BLACSTPWP01 | 535959 |
| BLACSTPWP01F | 535960 |
| BLACSTPWP03 | 535955 |
| BLACSTPWP03F | 535956 |
| BLACSTPWR02 | 535957 |
| BLACSTPWR02F | 535958 |
| BLACSTPWR03 | 535961 |
| BLACSTPWR03F | 535962 |
| BLACSTSEW04 | 535945 |
| BLACSTSEW04F | 535946 |
| BLUEPDSEFW16 | 535951 |
| BLUEPDSEFW16F | 535952 |
| BLUEPDSEFW18 | 535949 |
| BLUEPDSEFW18F | 535950 |
| BLUEPDSEFW40 | 535947 |
| BLUEPDSEFW40F | 535948 |

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: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACADSW11

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009
 Matrix (soil/water): WATER Lab Sample ID: 535963
 Level (low/med): LOW Date Received: 7/26/2003
 % 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 | 23.6 | U | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 30.0 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 7460 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 11.8 | B | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 26000 | | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 13000 | | | P |
| 7439-96-5 | Manganese | 2430 | | | P |
| 7439-97-6 | Mercury | 0.14 | B | | CV |
| 7440-02-0 | Nickel | 44.8 | | | P |
| 7440-09-7 | Potassium | 1440 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2740 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 108 | | | P |
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACADSEW11F

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009
 Matrix (soil/water): WATER Lab Sample ID: 535964
 Level (low/med): LOW Date Received: 7/26/2003
 % 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 | 23.6 | U | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 27.6 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 7390 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 12.0 | B | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 13100 | | | P |
| 7439-92-1 | Lead | 1.8 | B | | P |
| 7439-95-4 | Magnesium | 12900 | | | P |
| 7439-96-5 | Manganese | 2380 | | | P |
| 7439-97-6 | Mercury | 0.21 | | | CV |
| 7440-02-0 | Nickel | 43.2 | | | P |
| 7440-09-7 | Potassium | 1460 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2820 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 89.3 | | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACPDSFW43

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009
 Matrix (soil/water): WATER Lab Sample ID: 535953
 Level (low/med): LOW Date Received: 7/26/2003
 % 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 | 23.6 | U | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 5.9 | U | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 7420 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 231 | | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 13800 | | | P |
| 7439-96-5 | Manganese | 101 | | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1440 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2810 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 3.7 | B | | P |
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACPDSFW43F

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009
 Matrix (soil/water): WATER Lab Sample ID: 535954
 Level (low/med): LOW Date Received: 7/26/2003
 % 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 | 23.6 | U | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 5.9 | U | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 7500 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.6 | B | | P |
| 7439-89-6 | Iron | 53.0 | B | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 13900 | | | P |
| 7439-96-5 | Manganese | 188 | | | P |
| 7439-97-6 | Mercury | 0.20 | | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1460 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2800 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 4.9 | B | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTPWP01

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009
 Matrix (soil/water): WATER Lab Sample ID: 535959
 Level (low/med): LOW Date Received: 7/26/2003
 % Solids: 0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---------|---------|---------------|---|---|----|
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTPWP01F

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009
 Matrix (soil/water): WATER Lab Sample ID: 535960
 Level (low/med): LOW Date Received: 7/26/2003
 % 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 | 36.3 | B | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 23.3 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 13500 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 33.3 | U | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 7540 | | | P |
| 7439-96-5 | Manganese | 2.9 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1560 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 3420 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 3.0 | B | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTWP03

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009
 Matrix (soil/water): WATER Lab Sample ID: 535955
 Level (low/med): LOW Date Received: 7/26/2003
 % Solids: 0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---------|---------|---------------|---|---|----|
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTPW03F

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009
 Matrix (soil/water): WATER Lab Sample ID: 535956
 Level (low/med): LOW Date Received: 7/26/2003
 % 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 | 23.6 | U | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 18.8 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 11800 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 33.3 | U | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 7000 | | | P |
| 7439-96-5 | Manganese | 2.8 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1380 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2750 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 2.9 | B | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTPWR02

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009

Matrix (soil/water): WATER Lab Sample ID: 535957

Level (low/med): LOW Date Received: 7/26/2003

% Solids: 0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---------|---------|---------------|---|---|----|
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTPWR02F

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009

Matrix (soil/water): WATER Lab Sample ID: 535958

Level (low/med): LOW Date Received: 7/26/2003

% 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 | 23.6 | U | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 15.5 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 11400 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 33.3 | U | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 6490 | | | P |
| 7439-96-5 | Manganese | 0.70 | U | | P |
| 7439-97-6 | Mercury | 0.12 | B | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1300 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2580 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 1.9 | B | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTPWR03

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009
 Matrix (soil/water): WATER Lab Sample ID: 535961
 Level (low/med): LOW Date Received: 7/26/2003
 % Solids: 0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---------|---------|---------------|---|---|----|
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTPWR03F

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009
 Matrix (soil/water): WATER Lab Sample ID: 535962
 Level (low/med): LOW Date Received: 7/26/2003
 % 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 | 23.6 | U | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 13.6 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 11300 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 33.3 | U | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 6510 | | | P |
| 7439-96-5 | Manganese | 0.71 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1210 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2560 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 1.4 | B | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTSW04

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009

Matrix (soil/water): WATER Lab Sample ID: 535945

Level (low/med): LOW Date Received: 7/26/2003

% 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 | 59.0 | B | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 15.1 | B | | P |
| 7440-41-7 | Beryllium | 0.30 | B | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 11900 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 33.3 | U | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 6880 | | | P |
| 7439-96-5 | Manganese | 4.2 | B | | P |
| 7439-97-6 | Mercury | 0.11 | B | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1260 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2620 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 2.8 | B | | P |
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTSEFW04F

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009
 Matrix (soil/water): WATER Lab Sample ID: 535946
 Level (low/med): LOW Date Received: 7/26/2003
 % 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 | 24.9 | B | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 14.6 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 11700 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 33.3 | U | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 6780 | | | P |
| 7439-96-5 | Manganese | 2.8 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1200 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2600 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 1.8 | B | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUEPDSFW16

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009

Matrix (soil/water): WATER Lab Sample ID: 535951

Level (low/med): LOW Date Received: 7/26/2003

% 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 | 83.5 | B | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 19.9 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 27400 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 30.8 | B | | P |
| 7440-50-8 | Copper | 4.3 | B | | P |
| 7439-89-6 | Iron | 1920 | | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 25600 | | | P |
| 7439-96-5 | Manganese | 4960 | | | P |
| 7439-97-6 | Mercury | 0.20 | B | | CV |
| 7440-02-0 | Nickel | 129 | | | P |
| 7440-09-7 | Potassium | 1850 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 5680 | | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 192 | | | P |
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUEPDSFW16F

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009

Matrix (soil/water): WATER Lab Sample ID: 535952

Level (low/med): LOW Date Received: 7/26/2003

% 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 | 68.2 | B | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 19.6 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 27300 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 30.6 | B | | P |
| 7440-50-8 | Copper | 2.9 | B | | P |
| 7439-89-6 | Iron | 1310 | | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 25500 | | | P |
| 7439-96-5 | Manganese | 4930 | | | P |
| 7439-97-6 | Mercury | 0.27 | | | CV |
| 7440-02-0 | Nickel | 126 | | | P |
| 7440-09-7 | Potassium | 1860 | B | | P |
| 7782-49-2 | Selenium | 3.4 | B | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 5780 | | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 192 | | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUEPDSFW18

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009

Matrix (soil/water): WATER Lab Sample ID: 535949

Level (low/med): LOW Date Received: 7/26/2003

% 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 | 225 | | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 9.4 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 4470 | B | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 35.3 | B | | P |
| 7440-50-8 | Copper | 3.4 | B | | P |
| 7439-89-6 | Iron | 17400 | | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 11400 | | | P |
| 7439-96-5 | Manganese | 4980 | | | P |
| 7439-97-6 | Mercury | 0.30 | | | CV |
| 7440-02-0 | Nickel | 112 | | | P |
| 7440-09-7 | Potassium | 1340 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 3080 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 210 | | | P |
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUEPDSFW18F

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009
 Matrix (soil/water): WATER Lab Sample ID: 535950
 Level (low/med): LOW Date Received: 7/26/2003
 % 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 | 87.2 | B | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 9.0 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.71 | B | | P |
| 7440-70-2 | Calcium | 4370 | B | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 35.0 | B | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 6740 | | | P |
| 7439-92-1 | Lead | 1.4 | B | | P |
| 7439-95-4 | Magnesium | 11100 | | | P |
| 7439-96-5 | Manganese | 4860 | | | P |
| 7439-97-6 | Mercury | 0.24 | | | CV |
| 7440-02-0 | Nickel | 108 | | | P |
| 7440-09-7 | Potassium | 1310 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 3270 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 204 | | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUEPDSFW40

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009

Matrix (soil/water): WATER Lab Sample ID: 535947

Level (low/med): LOW Date Received: 7/26/2003

% 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 | 614 | | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 9.7 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 4350 | B | | P |
| 7440-47-3 | Chromium | 5.0 | B | | P |
| 7440-48-4 | Cobalt | 34.0 | B | | P |
| 7440-50-8 | Copper | 8.7 | B | | P |
| 7439-89-6 | Iron | 37500 | | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 11000 | | | P |
| 7439-96-5 | Manganese | 4750 | | | P |
| 7439-97-6 | Mercury | 0.38 | | | CV |
| 7440-02-0 | Nickel | 108 | | | P |
| 7440-09-7 | Potassium | 1330 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 3080 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 202 | | | P |
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUEPDSFW40F

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009
 Matrix (soil/water): WATER Lab Sample ID: 535948
 Level (low/med): LOW Date Received: 7/26/2003
 % 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 | 77.8 | B | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 9.3 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 4400 | B | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 34.8 | B | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 7340 | | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 11100 | | | P |
| 7439-96-5 | Manganese | 4790 | | | P |
| 7439-97-6 | Mercury | 0.23 | | | CV |
| 7440-02-0 | Nickel | 106 | | | P |
| 7440-09-7 | Potassium | 1340 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 3090 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 198 | | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009Initial Calibration Source: Inorganic Ventures/FisherContinuing 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 | 26230.00 | 100.9 | 30200.0 | 29630.00 | 98.1 | 29460.00 | 97.5 | P |
| Antimony | 250.0 | 249.10 | 99.6 | 300.0 | 295.50 | 98.5 | 297.70 | 99.2 | P |
| Arsenic | 250.0 | 246.40 | 98.6 | 100.0 | 96.40 | 96.4 | 99.72 | 99.7 | P |
| Barium | 500.0 | 490.30 | 98.1 | 200.0 | 194.70 | 97.4 | 193.60 | 96.8 | P |
| Beryllium | 500.0 | 497.50 | 99.5 | 100.0 | 95.69 | 95.7 | 96.31 | 96.3 | P |
| Cadmium | 500.0 | 489.00 | 97.8 | 100.0 | 94.45 | 94.4 | 94.64 | 94.6 | P |
| Calcium | 25000.0 | 25290.00 | 101.2 | 30200.0 | 29290.00 | 97.0 | 29210.00 | 96.7 | P |
| Chromium | 500.0 | 494.50 | 98.9 | 200.0 | 190.40 | 95.2 | 190.60 | 95.3 | P |
| Cobalt | 500.0 | 488.30 | 97.7 | 200.0 | 191.80 | 95.9 | 193.10 | 96.6 | P |
| Copper | 500.0 | 497.60 | 99.5 | 200.0 | 196.80 | 98.4 | 195.50 | 97.8 | P |
| Iron | 25500.0 | 26210.00 | 102.8 | 30200.0 | 29400.00 | 97.4 | 29480.00 | 97.6 | P |
| Lead | 1000.0 | 995.10 | 99.5 | 400.0 | 383.10 | 95.8 | 385.90 | 96.5 | P |
| Magnesium | 25000.0 | 25330.00 | 101.3 | 30200.0 | 29130.00 | 96.5 | 29310.00 | 97.1 | P |
| Manganese | 500.0 | 490.80 | 98.2 | 200.0 | 192.50 | 96.2 | 193.40 | 96.7 | P |
| Mercury | 3.0 | 3.01 | 100.3 | 5.0 | 5.48 | 109.6 | 5.35 | 107.0 | CV |
| Nickel | 500.0 | 491.80 | 98.4 | 200.0 | 188.20 | 94.1 | 189.60 | 94.8 | P |
| Potassium | 25000.0 | 26500.00 | 106.0 | 30200.0 | 30880.00 | 102.3 | 30670.00 | 101.6 | P |
| Selenium | 250.0 | 242.20 | 96.9 | 100.0 | 94.93 | 94.9 | 97.41 | 97.4 | P |
| Silver | 500.0 | 495.20 | 99.0 | 100.0 | 96.59 | 96.6 | 97.68 | 97.7 | P |
| Sodium | 25000.0 | 25120.00 | 100.5 | 30200.0 | 29090.00 | 96.3 | 29180.00 | 96.6 | P |
| Thallium | 250.0 | 242.10 | 96.8 | 100.0 | 98.75 | 98.8 | 98.04 | 98.0 | P |
| Vanadium | 500.0 | 492.40 | 98.5 | 200.0 | 193.50 | 96.8 | 194.10 | 97.0 | P |
| Zinc | 500.0 | 495.30 | 99.1 | 200.0 | 193.50 | 96.8 | 194.60 | 97.3 | P |
| Cyanide | 120.0 | 113.10 | 94.2 | 150.0 | 145.09 | 96.7 | 144.62 | 96.4 | AS |

(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: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009Initial Calibration Source: Inorganic Ventures/FisherContinuing 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 | 29440.00 | 97.5 | 29540.00 | 97.8 | P |
| Antimony | | | | 300.0 | 297.20 | 99.1 | 298.60 | 99.5 | P |
| Arsenic | | | | 100.0 | 98.70 | 98.7 | 97.19 | 97.2 | P |
| Barium | | | | 200.0 | 194.00 | 97.0 | 193.60 | 96.8 | P |
| Beryllium | | | | 100.0 | 96.20 | 96.2 | 96.41 | 96.4 | P |
| Cadmium | | | | 100.0 | 94.04 | 94.0 | 94.41 | 94.4 | P |
| Calcium | | | | 30200.0 | 29140.00 | 96.5 | 29460.00 | 97.5 | P |
| Chromium | | | | 200.0 | 190.50 | 95.2 | 191.10 | 95.6 | P |
| Cobalt | | | | 200.0 | 193.10 | 96.6 | 193.80 | 96.9 | P |
| Copper | | | | 200.0 | 196.10 | 98.0 | 196.10 | 98.0 | P |
| Iron | | | | 30200.0 | 29510.00 | 97.7 | 29610.00 | 98.0 | P |
| Lead | | | | 400.0 | 387.60 | 96.9 | 389.40 | 97.4 | P |
| Magnesium | | | | 30200.0 | 29240.00 | 96.8 | 29400.00 | 97.4 | P |
| Manganese | | | | 200.0 | 193.50 | 96.8 | 193.50 | 96.8 | P |
| Mercury | | | | 5.0 | 5.45 | 109.0 | 5.29 | 105.8 | CV |
| Nickel | | | | 200.0 | 190.20 | 95.1 | 191.00 | 95.5 | P |
| Potassium | | | | 30200.0 | 30710.00 | 101.7 | 30660.00 | 101.5 | P |
| Selenium | | | | 100.0 | 94.74 | 94.7 | 97.19 | 97.2 | P |
| Silver | | | | 100.0 | 95.78 | 95.8 | 97.09 | 97.1 | P |
| Sodium | | | | 30200.0 | 29220.00 | 96.8 | 29010.00 | 96.1 | P |
| Thallium | | | | 100.0 | 98.44 | 98.4 | 99.39 | 99.4 | P |
| Vanadium | | | | 200.0 | 194.20 | 97.1 | 194.30 | 97.2 | P |
| Zinc | | | | 200.0 | 194.30 | 97.2 | 194.50 | 97.2 | P |
| Cyanide | | | | 150.0 | 147.23 | 98.2 | | | AS |

(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.: GCW009

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) |
| Lead | 1000.0 | 985.70 | 98.6 | 400.0 | 390.20 | 97.6 | 388.80 | 97.2 | P |
| Selenium | 250.0 | 243.20 | 97.3 | 100.0 | 98.11 | 98.1 | 98.32 | 98.3 | 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.: GCW009

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) | |
| Lead | | | | 400.0 | 388.10 | 97.0 | 389.60 | 97.4 | P |
| Selenium | | | | 100.0 | 96.48 | 96.5 | 98.39 | 98.4 | 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 BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCW009AA CRDL Standard Source: Inorganic VenturesICP CRDL Standard Source: Inorganic Ventures

Concentration Units: ug/L

| Analyte | True | Found | %R | CRDL Standard for ICP | | | | |
|-----------|------|-------|-------|-----------------------|----------|-------|----------|-------|
| | | | | Initial | | | Final | |
| | | | | True | Found | %R | Found | %R |
| Aluminum | | | | 400.0 | 520.80 | 130.2 | 517.40 | 129.4 |
| Antimony | | | | 120.0 | 119.20 | 99.3 | 121.60 | 101.3 |
| Arsenic | | | | 20.0 | 19.33 | 96.6 | 17.24 | 86.2 |
| Barium | | | | 400.0 | 386.30 | 96.6 | 388.00 | 97.0 |
| Beryllium | | | | 10.0 | 9.99 | 99.9 | 9.87 | 98.7 |
| Cadmium | | | | 10.0 | 9.83 | 98.3 | 9.46 | 94.6 |
| Calcium | | | | 10000.0 | 10260.00 | 102.6 | 10160.00 | 101.6 |
| Chromium | | | | 20.0 | 24.56 | 122.8 | 29.51 | 147.6 |
| Cobalt | | | | 100.0 | 96.37 | 96.4 | 95.62 | 95.6 |
| Copper | | | | 50.0 | 50.93 | 101.9 | 51.15 | 102.3 |
| Iron | | | | 200.0 | 268.90 | 134.4 | 279.10 | 139.6 |
| Lead | | | | 6.0 | 5.36 | 89.3 | 4.54 | 75.7 |
| Magnesium | | | | 10000.0 | 10050.00 | 100.5 | 9947.00 | 99.5 |
| Manganese | | | | 30.0 | 33.32 | 111.1 | 31.57 | 105.2 |
| Mercury | 0.2 | 0.26 | 130.0 | | | | | |
| Nickel | | | | 80.0 | 106.40 | 133.0 | 96.67 | 120.8 |
| Potassium | | | | 10000.0 | 10760.00 | 107.6 | 10800.00 | 108.0 |
| Selenium | | | | 10.0 | 11.09 | 110.9 | 11.59 | 115.9 |
| Silver | | | | 20.0 | 19.19 | 96.0 | 19.17 | 95.8 |
| Sodium | | | | 10000.0 | 9713.00 | 97.1 | 9685.00 | 96.8 |
| Thallium | | | | 20.0 | 19.32 | 96.6 | 19.68 | 98.4 |
| Vanadium | | | | 100.0 | 97.23 | 97.2 | 95.93 | 95.9 |
| Zinc | | | | 40.0 | 40.07 | 100.2 | 39.85 | 99.6 |

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.: GCW009

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 | | Final | | |
| | | | | True | Found | %R | Found | %R |
| Lead | | | | 6.0 | 6.69 | 111.5 | 5.56 | 92.7 |
| Selenium | | | | 10.0 | 10.36 | 103.6 | 10.69 | 106.9 |

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

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|-----------|-----------------------------|---|-------------------------------------|---|-------|---|-------|---|-------------------|---|----|
| | | C | 1 | C | 2 | C | 3 | C | | C | |
| Aluminum | 23.6 | U | 23.6 | U | 23.6 | U | 23.6 | U | 23.600 | U | P |
| Antimony | 4.7 | U | 4.7 | U | 4.7 | U | 4.7 | U | 4.700 | U | P |
| Arsenic | 4.8 | U | 4.8 | U | 4.8 | U | 4.8 | U | 4.800 | U | P |
| Barium | 5.9 | U | 5.9 | U | 5.9 | U | 5.9 | U | 5.900 | U | P |
| Beryllium | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.200 | U | P |
| Cadmium | 0.6 | U | 0.6 | U | 0.6 | U | 0.6 | U | 0.600 | U | P |
| Calcium | 182.1 | U | 182.1 | U | 182.1 | U | 182.1 | U | 182.100 | U | P |
| Chromium | -3.1 | B | -2.7 | B | -3.2 | B | -3.1 | B | -2.813 | B | P |
| Cobalt | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.000 | U | P |
| Copper | 2.4 | U | 2.4 | U | 2.4 | U | 2.4 | U | 2.400 | U | P |
| Iron | -33.3 | B | 33.3 | U | 33.3 | U | -35.0 | B | 33.300 | U | P |
| Lead | 1.3 | U | 1.3 | U | 1.3 | U | -1.8 | B | 1.300 | U | P |
| Magnesium | 178.3 | U | 178.3 | U | 178.3 | U | 178.3 | U | 178.300 | U | P |
| Manganese | 0.7 | U | 0.7 | U | 0.7 | U | 0.7 | U | 0.700 | U | P |
| Mercury | 0.1 | B | 0.1 | B | 0.2 | B | 0.1 | B | 0.100 | U | CV |
| Nickel | -3.4 | B | -3.0 | B | -3.7 | B | -2.8 | B | -3.736 | B | P |
| Potassium | 393.0 | U | 393.0 | U | 393.0 | U | 393.0 | U | 393.000 | U | P |
| Selenium | 3.4 | U | 3.4 | U | 3.4 | U | 3.4 | U | 3.400 | U | P |
| Silver | 2.2 | U | 2.2 | U | 2.2 | U | 2.2 | U | 2.200 | U | P |
| Sodium | 472.7 | U | 472.7 | U | 472.7 | U | 472.7 | U | 472.700 | U | P |
| Thallium | 5.7 | U | 5.7 | U | 5.7 | U | 5.7 | U | 5.700 | U | P |
| Vanadium | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.000 | U | P |
| Zinc | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 2.354 | B | P |
| Cyanide | 10.0 | U | 10.0 | U | 10.0 | U | 10.0 | U | 10.000 | U | AS |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | C | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|-----------|--------------------------------------|---|--|---|---|---|---|---|----------------------|---|----|
| | | | 1 | C | 2 | C | 3 | C | C | C | |
| 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 | | | -3.1 | B | | | | | | | P |
| Cobalt | | | 2.0 | U | | | | | | | P |
| Copper | | | 2.4 | U | | | | | | | P |
| Iron | | | 33.3 | U | | | | | | | P |
| Lead | | | 1.3 | U | | | | | | | P |
| Magnesium | | | 178.3 | U | | | | | | | P |
| Manganese | | | 0.7 | U | | | | | | | P |
| Mercury | | | 0.1 | U | | | | | | | CV |
| Nickel | | | -3.2 | B | | | | | | | P |
| Potassium | | | 393.0 | U | | | | | | | P |
| Selenium | | | 3.4 | 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.: GCW009

Preparation Blank Matrix (soil/water): WATER

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

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|----------|-----------------------------|---|-------------------------------------|---|-----|---|-----|---|-------------------|---|---|
| | | C | 1 | C | 2 | C | 3 | C | | C | |
| Lead | 1.3 | U | 1.3 | U | 1.3 | U | 1.3 | U | | | P |
| Selenium | 3.4 | U | 3.4 | U | 3.4 | U | 3.4 | U | | | P |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009

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) | | | | | | Preparation Blank | C | M |
|----------|--------------------------------------|---|--|---|---|---|---|---|----------------------|---|---|
| | | | 1 | C | 2 | C | 3 | C | | | |
| Lead | | | 1.4 | B | | | | | | | P |
| Selenium | | | 3.4 | U | | | | | | | P |

USEPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009ICP ID Number: TJA ICAP 4 ICS Source: Inorganic VenturesConcentration 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 | 493200 | 486900.0 | 100.9 | 490000 | 485200.0 | 100.5 |
| Antimony | 0 | 596 | -1 | 602.5 | 101.1 | -3 | 598.1 | 100.4 |
| Arsenic | 0 | 102 | 3 | 97.6 | 95.7 | 3 | 101.8 | 99.8 |
| Barium | 0 | 503 | 2 | 487.2 | 96.9 | 2 | 484.9 | 96.4 |
| Beryllium | 0 | 482 | 0 | 464.1 | 96.3 | 0 | 470.7 | 97.7 |
| Cadmium | 0 | 938 | -1 | 901.0 | 96.1 | -1 | 906.6 | 96.7 |
| Calcium | 500000 | 477840 | 482600 | 474100.0 | 99.2 | 474500 | 478900.0 | 100.2 |
| Chromium | 0 | 483 | 1 | 463.2 | 95.9 | 0 | 468.2 | 96.9 |
| Cobalt | 0 | 457 | -1 | 444.0 | 97.2 | -1 | 452.0 | 98.9 |
| Copper | 0 | 526 | 4 | 499.2 | 94.9 | 4 | 499.7 | 95.0 |
| Iron | 200000 | 191980 | 198400 | 192700.0 | 100.4 | 196000 | 194900.0 | 101.5 |
| Lead | 0 | 49 | -1 | 45.9 | 93.7 | -2 | 45.1 | 92.0 |
| Magnesium | 500000 | 521880 | 531500 | 521400.0 | 99.9 | 522400 | 529300.0 | 101.4 |
| Manganese | 0 | 474 | 1 | 458.1 | 96.6 | 1 | 462.9 | 97.7 |
| Nickel | 0 | 952 | -2 | 922.8 | 96.9 | -2 | 934.5 | 98.2 |
| Potassium | 0 | 0 | 74 | -17.4 | | -8 | 52.4 | |
| Selenium | 0 | 47 | 1 | 43.9 | 93.4 | -1 | 43.3 | 92.1 |
| Silver | 0 | 213 | 0 | 206.5 | 96.9 | 0 | 207.0 | 97.2 |
| Sodium | 0 | 0 | -403 | -318.4 | | -409 | -297.9 | |
| Thallium | 0 | 89 | -5 | 84.9 | 95.4 | -6 | 89.3 | 100.3 |
| Vanadium | 0 | 478 | 3 | 458.3 | 95.9 | 3 | 462.3 | 96.7 |
| Zinc | 0 | 998 | 3 | 970.6 | 97.3 | 3 | 978.0 | 98.0 |

USEPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009

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 |
| Lead | 0 | 49 | -3 | 45.1 | 92.0 | 1 | 43.9 | 89.6 |
| Selenium | 0 | 47 | -9 | 39.3 | 83.6 | -7 | 43.4 | 92.3 |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009

Solid LCS Source: _____

Aqueous LCS Source: Inorganic Ventures

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|-----------|----------------|----------|-------|---------------|-------|---|--------|----|
| | True | Found | %R | True | Found | C | Limits | %R |
| Aluminum | 51000.0 | 50940.00 | 99.9 | | | | | |
| Antimony | 2000.0 | 2030.00 | 101.5 | | | | | |
| Arsenic | 1050.0 | 1043.00 | 99.3 | | | | | |
| Barium | 500.0 | 494.10 | 98.8 | | | | | |
| Beryllium | 500.0 | 492.20 | 98.4 | | | | | |
| Cadmium | 525.0 | 504.60 | 96.1 | | | | | |
| Calcium | 50000.0 | 49840.00 | 99.7 | | | | | |
| Chromium | 500.0 | 502.60 | 100.5 | | | | | |
| Cobalt | 500.0 | 485.90 | 97.2 | | | | | |
| Copper | 500.0 | 505.80 | 101.2 | | | | | |
| Iron | 50500.0 | 51230.00 | 101.4 | | | | | |
| Lead | 1015.0 | 1000.00 | 98.5 | | | | | |
| Magnesium | 50000.0 | 50090.00 | 100.2 | | | | | |
| Manganese | 500.0 | 491.30 | 98.3 | | | | | |
| Mercury | 1.0 | 0.96 | 96.0 | | | | | |
| Nickel | 500.0 | 495.30 | 99.1 | | | | | |
| Potassium | 50000.0 | 49770.00 | 99.5 | | | | | |
| Selenium | 525.0 | 491.20 | 93.6 | | | | | |
| Silver | 500.0 | 414.90 | 83.0 | | | | | |
| Sodium | 50000.0 | 51030.00 | 102.1 | | | | | |
| Thallium | 550.0 | 529.10 | 96.2 | | | | | |
| Vanadium | 500.0 | 500.50 | 100.1 | | | | | |
| Zinc | 500.0 | 490.50 | 98.1 | | | | | |
| Cyanide | 120.0 | 114.80 | 95.7 | | | | | |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009

Solid LCS Source: _____

Aqueous LCS Source: Inorganic Ventures

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|-----------|----------------|----------|-------|---------------|-------|---|--------|----|
| | True | Found | %R | True | Found | C | Limits | %R |
| Aluminum | 51000.0 | 50390.00 | 98.8 | | | | | |
| Antimony | 2000.0 | 1979.00 | 99.0 | | | | | |
| Arsenic | 1050.0 | 1015.00 | 96.7 | | | | | |
| Barium | 500.0 | 489.10 | 97.8 | | | | | |
| Beryllium | 500.0 | 479.60 | 95.9 | | | | | |
| Cadmium | 525.0 | 490.00 | 93.3 | | | | | |
| Calcium | 50000.0 | 48650.00 | 97.3 | | | | | |
| Chromium | 500.0 | 493.10 | 98.6 | | | | | |
| Cobalt | 500.0 | 474.00 | 94.8 | | | | | |
| Copper | 500.0 | 500.50 | 100.1 | | | | | |
| Iron | 50500.0 | 49990.00 | 99.0 | | | | | |
| Lead | 1015.0 | 970.90 | 95.7 | | | | | |
| Magnesium | 50000.0 | 48810.00 | 97.6 | | | | | |
| Manganese | 500.0 | 481.30 | 96.3 | | | | | |
| Mercury | 1.0 | 1.12 | 112.0 | | | | | |
| Nickel | 500.0 | 485.30 | 97.1 | | | | | |
| Potassium | 50000.0 | 49570.00 | 99.1 | | | | | |
| Selenium | 525.0 | 484.20 | 92.2 | | | | | |
| Silver | 500.0 | 410.00 | 82.0 | | | | | |
| Sodium | 50000.0 | 50470.00 | 100.9 | | | | | |
| Thallium | 550.0 | 514.70 | 93.6 | | | | | |
| Vanadium | 500.0 | 489.60 | 97.9 | | | | | |
| Zinc | 500.0 | 477.90 | 95.6 | | | | | |
| Cyanide | 120.0 | 116.06 | 96.7 | | | | | |

USEPA - CLP

9

ICP SERIAL DILUTIONS

SAMPLE NO.

BLACSTSF04L

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCW009Matrix (soil/water): WATERLevel (low/med): LOW

Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | | Serial Dilution Result (S) | | % Difference | Q | M |
|-----------|---------------------------|---|----------------------------|---|--------------|---|---|
| | | C | | C | | | |
| Aluminum | 58.95 | B | 118.00 | U | 100.0 | | P |
| Antimony | 4.70 | U | 23.50 | U | | | P |
| Arsenic | 4.80 | U | 24.00 | U | | | P |
| Barium | 15.11 | B | 29.50 | U | 100.0 | | P |
| Beryllium | 0.30 | B | 1.00 | U | 100.0 | | P |
| Cadmium | 0.60 | U | 3.00 | U | | | P |
| Calcium | 11880.00 | | 11850.00 | B | 0.3 | | P |
| Chromium | 1.40 | U | 7.00 | U | | | P |
| Cobalt | 2.00 | U | 10.00 | U | | | P |
| Copper | 2.40 | U | 12.00 | U | | | P |
| Iron | 33.30 | U | 166.50 | U | | | P |
| Lead | 1.30 | U | 6.50 | U | | | P |
| Magnesium | 6885.00 | | 6871.00 | B | 0.2 | | P |
| Manganese | 4.24 | B | 4.81 | B | 13.4 | | P |
| Nickel | 2.10 | U | 10.50 | U | | | P |
| Potassium | 1264.00 | B | 1965.00 | U | 100.0 | | P |
| Selenium | 3.40 | U | 17.00 | U | | | P |
| Silver | 2.20 | U | 11.00 | U | | | P |
| Sodium | 2616.00 | B | 2363.50 | U | 100.0 | | P |
| Thallium | 5.70 | U | 28.50 | U | | | P |
| Vanadium | 2.00 | U | 10.00 | U | | | P |
| Zinc | 2.78 | B | 14.20 | B | 410.8 | | P |

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVT Case No.: 23046SAS No.: _____ SDG No.: GCW009

ICP ID Number: _____

Date: 7/1/2003Flame AA ID Number: Lachat Cyanide

Furnace AA ID Number: _____

| Analyte | Wave-length (nm) | Back-ground | CRDL (ug/L) | IDL (ug/L) | M |
|---------|------------------|-------------|-------------|------------|----|
| Cyanide | | | 10 | 10.0 | AS |

Comments: _____

USEPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVT Case No.: 23046SAS No.: _____ SDG No.: GCW009

ICP ID Number: _____

Date: 7/1/2003Flame 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: _____

USEPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009ICP 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 |
|----------|------------------|-------------|-------------|------------|---|
| Lead | 220.353 | | 3 | 1.3 | P |
| Selenium | 196.026 | | 5 | 3.4 | P |

Comments: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009

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: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009ICP 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: _____

USEPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009
 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 | 0.000000 | 0.000000 | 0.1440400 | 0.000000 | 0.000000 |
| Antimony | 206.84 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Arsenic | 189.04 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Barium | 493.41 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Beryllium | 313.04 | 0.000000 | 0.000000 | 0.000000 | 0.0006280 | 0.000000 |
| Boron | 249.68 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Cadmium | 226.50 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Calcium | 317.93 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Chromium | 267.72 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Cobalt | 228.62 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Copper | 324.75 | 0.000000 | 0.000000 | 0.000000 | -0.000192 | 0.000000 |
| Iron | 271.44 | 0.000000 | 0.000000 | 0.000000 | 0.0237000 | 0.000000 |
| Lead | 220.35 | 0.0001240 | -0.0002280 | 0.000000 | 0.0005020 | 0.000000 |
| Magnesium | 279.08 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Manganese | 257.61 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Molybdenum | 202.03 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Nickel | 231.60 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Potassium | 766.49 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Selenium | 196.03 | 0.000000 | 0.0001660 | 0.000000 | 0.000000 | 0.000000 |
| Silicon | 288.16 | 0.000000 | 0.000000 | -0.1212200 | 0.000000 | 0.000000 |
| Silver | 328.07 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Sodium | 330.23 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.1177000 |
| Thallium | 190.86 | 0.000000 | 0.000000 | 0.000000 | 0.0025400 | 0.000000 |
| Tin | 189.99 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Vanadium | 292.40 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Zinc | 213.86 | 0.0052400 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

Comments: _____

USEPA - CLP

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009ICP ID Number: TJA ICAP 4 Date: 7/1/2003

| Analyte | Integ. Time (Sec.) | Concentration (ug/L) | M |
|----------|--------------------------|-------------------------|---|
| Lead | 10.00 | 10000.0 | P |
| Selenium | 10.00 | 5000.0 | P |

Comments: _____

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009Method: AS

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|-------------------|---------------------|----------------------|----------------|
| BLACADSEFW11 | 7/31/2003 | 50.0 | 50.0 |
| BLACPDSEFW43 | 7/31/2003 | 50.0 | 50.0 |
| BLACSTPWP01 | 7/31/2003 | 50.0 | 50.0 |
| BLACSTPWP03 | 7/31/2003 | 50.0 | 50.0 |
| BLACSTPWR02 | 7/31/2003 | 50.0 | 50.0 |
| BLACSTPWR03 | 7/31/2003 | 50.0 | 50.0 |
| BLACSTSFW04 | 7/31/2003 | 50.0 | 50.0 |
| BLUEPDSEFW16 | 7/31/2003 | 50.0 | 50.0 |
| BLUEPDSEFW18 | 7/31/2003 | 50.0 | 50.0 |
| BLUEPDSEFW40 | 7/31/2003 | 50.0 | 50.0 |
| ICV | 7/31/2003 | 50.0 | 50.0 |
| LCS0731A | 7/31/2003 | 50.0 | 50.0 |
| LCSD0731A | 7/31/2003 | 50.0 | 50.0 |
| PBW0731A | 7/31/2003 | 50.0 | 50.0 |

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009Method: CV

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|-------------------|---------------------|----------------------|----------------|
| BLACADSF11 | 8/5/2003 | 100.0 | 100.0 |
| BLACADSF11F | 8/5/2003 | 100.0 | 100.0 |
| BLACPDSFW43 | 8/5/2003 | 100.0 | 100.0 |
| BLACPDSFW43F | 8/5/2003 | 100.0 | 100.0 |
| BLACSTPWP01F | 8/5/2003 | 100.0 | 100.0 |
| BLACSTPWP03F | 8/5/2003 | 100.0 | 100.0 |
| BLACSTPWR02F | 8/5/2003 | 100.0 | 100.0 |
| BLACSTPWR03F | 8/5/2003 | 100.0 | 100.0 |
| BLACSTSFW04 | 8/5/2003 | 100.0 | 100.0 |
| BLACSTSFW04F | 8/5/2003 | 100.0 | 100.0 |
| BLUEPDSFW16 | 8/5/2003 | 100.0 | 100.0 |
| BLUEPDSFW16F | 8/5/2003 | 100.0 | 100.0 |
| BLUEPDSFW18 | 8/5/2003 | 100.0 | 100.0 |
| BLUEPDSFW18F | 8/5/2003 | 100.0 | 100.0 |
| BLUEPDSFW40 | 8/5/2003 | 100.0 | 100.0 |
| BLUEPDSFW40F | 8/5/2003 | 100.0 | 100.0 |
| LCSDW0805F | 8/5/2003 | 100.0 | 100.0 |
| LCSW0805F | 8/5/2003 | 100.0 | 100.0 |
| PEW0805F | 8/5/2003 | 100.0 | 100.0 |

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009Method: P

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|-------------------|---------------------|----------------------|----------------|
| BLACADSEFW11 | 8/8/2003 | 100.0 | 100.0 |
| BLACADSEFW11F | 8/8/2003 | 100.0 | 100.0 |
| BLACPDSEFW43 | 8/8/2003 | 100.0 | 100.0 |
| BLACPDSEFW43F | 8/8/2003 | 100.0 | 100.0 |
| BLACSTPWP01F | 8/8/2003 | 100.0 | 100.0 |
| BLACSTPWP03F | 8/8/2003 | 100.0 | 100.0 |
| BLACSTPWR02F | 8/8/2003 | 100.0 | 100.0 |
| BLACSTPWR03F | 8/8/2003 | 100.0 | 100.0 |
| BLACSTSEFW04 | 8/8/2003 | 100.0 | 100.0 |
| BLACSTSEFW04F | 8/8/2003 | 100.0 | 100.0 |
| BLUEPDSEFW16 | 8/8/2003 | 100.0 | 100.0 |
| BLUEPDSEFW16F | 8/8/2003 | 100.0 | 100.0 |
| BLUEPDSEFW18 | 8/8/2003 | 100.0 | 100.0 |
| BLUEPDSEFW18F | 8/8/2003 | 100.0 | 100.0 |
| BLUEPDSEFW40 | 8/8/2003 | 100.0 | 100.0 |
| BLUEPDSEFW40F | 8/8/2003 | 100.0 | 100.0 |
| LCSDW0808H | 8/8/2003 | 100.0 | 100.0 |
| LCSW0808H | 8/8/2003 | 100.0 | 100.0 |
| PEW0808H | 8/8/2003 | 100.0 | 100.0 |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009
 Instrument ID Number: Lachat Cyanide QC8000 Method: AS
 Start Date: 7/31/2003 End Date: 7/31/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|---|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S G | A A | N L | T V | Z N | C N | | | | | |
| S0 | 1.00 | 1336 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S10 | 1.00 | 1337 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S30 | 1.00 | 1338 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S50 | 1.00 | 1339 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S100 | 1.00 | 1340 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S200 | 1.00 | 1341 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S300 | 1.00 | 1342 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ICV | 1.00 | 1343 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ICB | 1.00 | 1344 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LRS | 1.00 | 1345 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LRS | 1.00 | 1346 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCV | 1.00 | 1347 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1348 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| PBW0731A | 1.00 | 1349 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZZ | 1.00 | 1350 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LCS0731A | 1.00 | 1351 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZZ | 1.00 | 1352 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LCSD0731A | 1.00 | 1353 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZZ | 1.00 | 1354 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1355 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1356 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1357 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1358 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1359 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1400 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLACSTSF04 | 1.00 | 1401 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLUEPDSFW40 | 1.00 | 1402 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLUEPDSFW18 | 1.00 | 1403 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLUEPDSFW16 | 1.00 | 1404 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLACPDSFW43 | 1.00 | 1405 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLACSTPWP03 | 1.00 | 1406 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLACSTPWR02 | 1.00 | 1407 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLACSTPWP01 | 1.00 | 1408 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLACSTPWR03 | 1.00 | 1409 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLACADSF011 | 1.00 | 1410 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCV | 1.00 | 1411 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1411 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009
 Instrument ID Number: TJA ICAP 4 Method: P
 Start Date: 9/11/2003 End Date: 9/11/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K I | S E | A G | N A | T L | V L | Z N | C N | | |
| S0 | 1.00 | 1719 | | | | | | | | | | | | X | | | | | | | X | | | | | | | | |
| S | 1.00 | 1723 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S | 1.00 | 1727 | | | | | | | | | | | | X | | | | | | | X | | | | | | | | |
| S | 1.00 | 1730 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LRS | 1.00 | 1736 | | | | | | | | | | | | X | | | | | | | X | | | | | | | | |
| LRS | 1.00 | 1740 | | | | | | | | | | | | X | | | | | | | X | | | | | | | | |
| LRS | 1.00 | 1745 | | | | | | | | | | | | X | | | | | | | X | | | | | | | | |
| ICV | 1.00 | 1750 | | | | | | | | | | | | X | | | | | | | X | | | | | | | | |
| ICB | 1.00 | 1755 | | | | | | | | | | | | X | | | | | | | X | | | | | | | | |
| ICSA | 1.00 | 1759 | | | | | | | | | | | | X | | | | | | | X | | | | | | | | |
| ICSAB | 1.00 | 1804 | | | | | | | | | | | | X | | | | | | | X | | | | | | | | |
| CRI | 1.00 | 1809 | | | | | | | | | | | | X | | | | | | | X | | | | | | | | |
| CCV | 1.00 | 1814 | | | | | | | | | | | | X | | | | | | | X | | | | | | | | |
| CCB | 1.00 | 1818 | | | | | | | | | | | | X | | | | | | | X | | | | | | | | |
| ZZZZZZ | 1.00 | 1823 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1828 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1832 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1837 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 5.00 | 1842 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1846 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1851 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1856 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1900 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1905 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1910 | | | | | | | | | | | | X | | | | | | | X | | | | | | | | |
| CCB | 1.00 | 1914 | | | | | | | | | | | | X | | | | | | | X | | | | | | | | |
| ZZZZZZ | 1.00 | 1919 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1924 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1929 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1933 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 5.00 | 1938 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1943 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1947 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1952 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1957 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 5.00 | 2001 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 2006 | | | | | | | | | | | | X | | | | | | | X | | | | | | | | |
| CCB | 1.00 | 2011 | | | | | | | | | | | | X | | | | | | | X | | | | | | | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009
 Instrument ID Number: TJA ICAP 4 Method: P
 Start Date: 9/11/2003 End Date: 9/11/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|--------|--------|---|--------|--------|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K | S E | A G | N A | T L | V | Z N | C N | | |
| ZZZZZ | 1.00 | 2015 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLACSTPWR03F | 1.00 | 2020 | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| BLACADSF11 | 1.00 | 2025 | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| ICSA | 1.00 | 2029 | | | | | | | | | | | X | | | | | | | | X | | | | | | | | |
| ICSAB | 1.00 | 2034 | | | | | | | | | | | X | | | | | | | | X | | | | | | | | |
| CRI | 1.00 | 2039 | | | | | | | | | | | X | | | | | | | | X | | | | | | | | |
| CCV | 1.00 | 2044 | | | | | | | | | | | X | | | | | | | | X | | | | | | | | |
| CCB | 1.00 | 2048 | | | | | | | | | | | X | | | | | | | | X | | | | | | | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009
 Instrument ID Number: Leeman Hydra AA Method: CV
 Start Date: 8/13/2003 End Date: 8/13/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | A L | T L | V L | Z N | C N | | |
| S0 | 1.00 | 2131 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S0.2 | 1.00 | 2132 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S0.5 | 1.00 | 2134 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S1 | 1.00 | 2136 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S5 | 1.00 | 2138 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S10 | 1.00 | 2140 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ICV | 1.00 | 2141 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ICB | 1.00 | 2143 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CRA | 1.00 | 2145 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCV | 1.00 | 2147 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 2148 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| PBW0805F | 1.00 | 2150 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LCSW0805F | 1.00 | 2152 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LCSDW0805F | 1.00 | 2154 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLACSTFW04 | 1.00 | 2156 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLACSTFW04F | 1.00 | 2158 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLUEPDSFW40 | 1.00 | 2159 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLUEPDSFW40F | 1.00 | 2201 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLUEPDSFW18 | 1.00 | 2203 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLUEPDSFW18F | 1.00 | 2205 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCV | 1.00 | 2207 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 2208 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLUEPDSFW16 | 1.00 | 2210 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLUEPDSFW16F | 1.00 | 2212 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLACPDSFW43 | 1.00 | 2214 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLACPDSFW43F | 1.00 | 2215 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLACSTPWP03F | 1.00 | 2217 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLACSTPWR02F | 1.00 | 2219 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLACSTPWP01F | 1.00 | 2221 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLACSTPWR03F | 1.00 | 2223 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLACADSW11 | 1.00 | 2225 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCV | 1.00 | 2227 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 2228 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLACADSW11F | 1.00 | 2230 | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZ | 1.00 | 2232 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 2234 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 2236 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 2237 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

USEPA - CLP
14
ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009
 Instrument ID Number: Leeman Hydra AA Method: CV
 Start Date: 8/13/2003 End Date: 8/13/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | N A | T A | V L | Z N | C N | | | | |
| ZZZZZ | 1.00 | 2239 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 2241 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 2243 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZ | 1.00 | 2245 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 2247 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCB | 1.00 | 2249 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW009
 Instrument ID Number: TJA ICAP 4 Method: P
 Start Date: 9/7/2003 End Date: 9/7/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|-----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|---|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S G | A A | N L | T V | Z N | C N | | | |
| S0 | 1.00 | 1935 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| S | 1.00 | 1940 | | X | | | | | X | | | | X | X | | | | | X | | | | | | | | | | |
| S | 1.00 | 1944 | | | X | X | | | | | | | X | | | | | | | X | | | | X | | | | | |
| S | 1.00 | 1948 | | | | | X | X | X | | X | X | X | | | X | X | | | X | | | | X | | | X | X | |
| LRS | 1.00 | 1953 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| LRS | 1.00 | 1958 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| LRS | 1.00 | 2004 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| ICV | 1.00 | 2009 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| ICB | 1.00 | 2014 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| ICSA | 1.00 | 2019 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| ICSAB | 1.00 | 2024 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CRI | 1.00 | 2029 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CCV | 1.00 | 2034 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CCB | 1.00 | 2039 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| PBW0808H | 1.00 | 2045 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| LCSW0808H | 1.00 | 2050 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| LCSDW0808H | 1.00 | 2055 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| BLACSTSEFW04 | 1.00 | 2100 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| BLACSTSEFW04L | 5.00 | 2105 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| BLACSTSEFW04F | 1.00 | 2110 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| BLUEPDSFW40 | 1.00 | 2115 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| BLUEPDSFW40F | 1.00 | 2120 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| BLUEPDSFW18 | 1.00 | 2125 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| BLUEPDSFW18F | 1.00 | 2130 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CCV | 1.00 | 2135 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CCB | 1.00 | 2140 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| BLUEPDSFW16 | 1.00 | 2145 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| BLUEPDSFW16F | 1.00 | 2150 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| BLACPDSFW43 | 1.00 | 2155 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| BLACPDSFW43F | 1.00 | 2200 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| BLACSTPWP03F | 1.00 | 2205 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| BLACSTPWR02F | 1.00 | 2210 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| BLACSTPWP01F | 1.00 | 2216 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| BLACSTPWR03F | 1.00 | 2221 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| BLACADSEFW11 | 1.00 | 2226 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| BLACADSEFW11F | 1.00 | 2231 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CCV | 1.00 | 2236 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| CCB | 1.00 | 2241 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |

**STL Burlington
Colchester, Vermont**

**Sample Data Summary
Package**

SDG: GCW010

September 17, 2003

Ms. Jennifer Kindred
EA Engineering
12011 Bellevue-Redmond Rd.
Suite 200
Bellevue, WA 98005

Re: Laboratory Project No. 23046
Case No. 23046; SDG: GCW010

Dear Ms. Kindred:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on August 12, 2003. Laboratory numbers have been assigned and designated as follows:

| <u>Lab ID</u> | <u>Client Sample ID</u> | <u>Sample Date</u> | <u>Sample Matrix</u> |
|----------------------------------|-----------------------------|------------------------|--------------------------|
| Received: 08/12/03 ETR No: 95326 | | | |
| 537725 | BLUESTSFW5A | 08/08/03 | Water |
| 537726 | BLUESTSFW5AF | 08/08/03 | Filtrate |
| 537727 | BLUESTPWP5A | 08/08/03 | Water |
| 537728 | BLUESTPWP5AF | 08/08/03 | Filtrate |
| 537729 | BLACSTSFW3A | 08/08/03 | Water |
| 537730 | BLACSTSFW3AF | 08/08/03 | Filtrate |
| 537731 | BLACSTPWP3A | 08/08/03 | Water |
| 537732 | BLACSTPWP3AF | 08/08/03 | Filtrate |
| 537733 | BLACSTSFW2A | 08/08/03 | Water |
| 537733MS | BLACSTSFW2AMS | 08/08/03 | Water |
| 537733DP | BLACSTSFW2AREP | 08/08/03 | Water |
| 537734 | BLACSTSFW2AF | 08/08/03 | Filtrate |
| 537734MS | BLACSTSFW2AFMS | 08/08/03 | Filtrate |
| 537734DP | BLACSTSFW2AFREP | 08/08/03 | Filtrate |
| 537735 | BLACSTPWP2A | 08/08/03 | Water |
| 537736 | BLACSTPWP2AF | 08/08/03 | Filtrate |
| 537737 | BLACSTSFW2A(100) | 08/08/03 | Water |
| 537738 | BLACSTSFW2A(100)F | 08/08/03 | Filtrate |
| 537739 | BLACSTSFW1A | 08/08/03 | Water |
| 537740 | BLACSTSFW1AF | 08/08/03 | Filtrate |
| 537741 | BLACSTPWP1A | 08/08/03 | Water |
| 537742 | BLACSTPWP1AF | 08/08/03 | Filtrate |
| 537743 | BLACRS03 | 08/08/03 | Water |
| 537794 | BLACRS02 | 08/08/03 | Water |

Due to reporting software limitations, sample identifications may have been truncated. In most instances only punctuation was removed.

Documentation that identifies the condition of the samples at the time of sample receipt and the issues arising at the time of sample log-in is included in the Sample Handling section of this submittal.

The analysis for arsenic speciation was performed by STL's North Canton facility, as approved by EA Engineering. STL North Canton assigned "Lot" numbers as samples were received. Though laboratory numbers may differ, the client's sample identifications were maintained. The results for this delivery group including a case narrative prepared by the North Canton laboratory are attached to the extended data package.

Metals by 6010/7470

The recovery of selenium from the laboratory fortified aliquot of sample BLACSTSF2A was 47.8 percent which is less than the laboratory control limit of 75-125 percent. Sample results have been flagged with an "N" to denote this anomaly. Recovery from the post digestate spike of this sample proved acceptable.

The laboratory noted concentrations greater than the reporting limit for select metals in the equipment rinse sample (BLACRS02) submitted by the client. The laboratory screened this sample directly from the container to confirm that contamination did not occur during the digestion procedure.

Sulfate by 375.4

The recovery of sulfate from the laboratory fortified aliquot of sample BLACSTSF2A was 54 percent which is below the control limit of 75-125 percent. Recovery from the laboratory control sample proved acceptable.

Solids by 160.xx

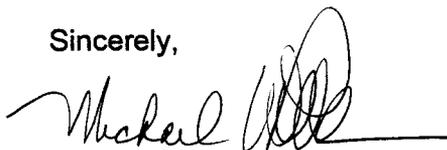
A concentration of dissolved solids at the reporting limit (0.05 mg/l) was identified in the method blank analyzed on August 14, 2003. There was no volume remaining for reanalysis and results were reported from this sequence. The relative percent difference between the initial and duplicate determination for dissolved solids in sample BLACSTSF2A was 200. Please note that one determination yielded a result just below the reporting limit and the other yielded a result just above the reporting limit.

If there are any questions regarding this submittal, please contact Jeannine McCrumb at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 0001 and ending with page 293.

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. The release of the data contained in this hardcopy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,

A handwritten signature in cursive script, appearing to read "Michael F. Wheeler", written in black ink on a white background.

Michael F. Wheeler, Ph.D.
Laboratory Director

Enclosure
MFW/jtd/jmm

0001 c Last Alpha

Water 1 of 2

CHAIN OF CUSTODY RECORD

| | | | | | | | |
|--|------|--|--------------------------------|--|-----------|---|-----|
| Report to: Company: <u>EA Engineering</u> Address: <u>12011 Bel-Red Rd Suite 200</u> <u>Bellevue, WA 98005</u> Contact: <u>Jen Kindred</u> Phone: <u>425-451-7400</u> Fax: <u>425-451-7800</u> Contract/Quote: | | Invoice to: Company: <u>Same</u> Address: Contact: Phone: Fax: | | Analyses Requested: TAL Total TAL dissolved Cyanide Arsenic speciation pH, redox, SO4, etc TSS TDS Total hardness (preserved vials) | | Lab Use Only Due Date: Temp. of coolers when received (C°): 1 2 3 4 5 Custody Seal N/Y Intact N/Y Screened For Radioactivity <input type="checkbox"/> | |
| Sampler's Name: <u>Marty Sreen</u> <u>Cathy Bohike</u> Sampler's Signature: <u>Marty Sreen</u> | | Project Name: <u>13890.16 0004 Blackjack Spill Response</u> | | No./Type of Containers: VOA A/G 1 Lt. 250 ml P/O | | Lab/Sample ID (Lab Use Only) | |
| Matrix | Date | Time | Identifying Marks of Sample(s) | VOA | A/G 1 Lt. | 250 ml | P/O |
| W | 8/8 | 1015 | X BLUE-ST-SFW-SA | | 2 | 1 | 3 |
| W | 8/8 | 1010 | X BLUE-ST-SFW-SA | | | 1 | 3 |
| W | 8/8 | 1230 | X BLAC-ST-SFW-3A | | 2 | 1 | 3 |
| W | 8/8 | 1250 | X BLAC-ST-SFW-3A | | | 1 | 3 |
| W | 8/8 | 1405 | X BLAC-ST-SFW-2A (MS) | | 4 | 2 | 6 |
| W | 8/8 | 1430 | X BLAC-ST-SFW-2A | | | | |
| W | 8/8 | 1405 | X BLAC-ST-SFW-2A (100) | | 2 | 1 | 3 |
| W | 8/8 | 1545 | X BLAC-ST-SFW-1A | | 2 | 1 | 3 |
| W | 8/8 | 1565 | X BLAC-ST-SFW-1A | | | 1 | 3 |
| W | 8/8 | | X | | | | |
| 80 UPRY 2003 | | | | | | | |
| Relinquished by: (Signature) <u>[Signature]</u> | | Date <u>8-11-03</u> | | Time <u>1215</u> | | Received by: (Signature) <u>[Signature]</u> | |
| Relinquished by: (Signature) | | Date | | Time | | Received by: (Signature) | |
| Relinquished by: (Signature) | | Date | | Time | | Received by: (Signature) | |
| Matrix WW - Wastewater VOA - 40 ml vial | | W - Water A/G - Amber / Or Glass 1 Liter | | S - Soil L - Liquid 250 ml - Glass wide mouth | | C - Charcoal Tube P/O - Plastic or other | |
| SL - Sludge O - Oil | | 500 ml | | Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule. | | | |



Geotechnical Analysis
Sample Data Summary Package
EASEAT SDG * GCW010

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

BLUESTSFW5A

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW010

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 537725

Matrix: WATER

Client: EASEAT

Date Received: 08/12/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------------|---------------------|------------------|-------|----|----|-------|-------|
| QSOA | Redox Potential D1498 | 08/28/03 | | mV | 1 | 10 | 138 | |

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTSF3A

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW010

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 537729

Matrix: WATER

Client: EASEAT

Date Received: 08/12/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------------|---------------------|------------------|-------|----|----|-------|-------|
| QSOA | Redox Potential D1498 | 08/28/03 | | mV | 1 | 10 | 140 | |

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTSFW2A

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW010

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 537733

Matrix: WATER

Client: EASEAT

Date Received: 08/12/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------------|---------------------|------------------|-------|----|----|-------|-------|
| QSOA | Redox Potential D1498 | 08/28/03 | | mV | 1 | 10 | 148 | |

GEOTECHNICAL / GENERAL CHEMISTRY

Duplicate Sample Report Summary

Client Sample No.

BLACSTSF2AREP

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW010

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 537733DP

Matrix: WATER

Client: EASEAT

Date Received: 08/12/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | Sample Result | | Duplicate Sample Result | | RPD* |
|--------|-----------------------|---------------------|------------------|-------|---------------|-------|-------------------------|-------|------|
| | | | | | Conc. | Qual. | Conc. | Qual. | |
| QSOA | Redox Potential D1498 | 08/28/03 | | mV | 148 | | 147 | | 1 |

* Control Limit for RPD is +/- 20%, unless otherwise specified.

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTSF2A(100)

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW010

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 537737

Matrix: WATER

Client: EASEAT

Date Received: 08/12/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------------|---------------------|------------------|-------|----|----|-------|-------|
| QSOA | Redox Potential D1498 | 08/28/03 | | mV | 1 | 10 | 154 | |

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTSFW1A

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW010

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 537739

Matrix: WATER

Client: EASEAT

Date Received: 08/12/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|-----------------------|---------------------|------------------|-------|----|----|-------|-------|
| QSOA | Redox Potential D1498 | 08/28/03 | | mV | 1 | 10 | 166 | |



**Sample Data Summary Package
For Wet Chemistry**

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLUESTSFW5A

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW010

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 537725

Matrix: WATER

Client: EASEAT

Date Received: 08/12/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|---------------------------|---------------------|------------------|----------|----|-------|-------|-------|
| 120.1 | Conductivity (umhos/cm) | 09/02/03 | | umhos/cm | 1 | 0.000 | 119 | |
| 130.2 | Total Hardness as CaCO3 | 09/04/03 | BLKHA0904A | mg/L | 1 | 2.0 | 92.0 | |
| 160.1 | Total Dissolved Solids | 08/14/03 | BLKDS0814B | mg/L | 1 | 5.0 | 101 | |
| 160.2 | Total Suspended Solids | 08/14/03 | BLKSS0814B | mg/L | 1 | 0.50 | 0.60 | |
| 160.4 | Volatile Suspended Solids | 08/14/03 | | mg/L | 1 | 5.0 | 5.0 | U |
| 310.1 | Hydroxide Alkalinity | 08/19/03 | BLKAL0819A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Carbonate Alkalinity | 08/19/03 | BLKAL0819A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Bicarbonate Alkalinity | 08/19/03 | BLKAL0819A | mg/L | 1 | 1.0 | 62.7 | |
| 310.1 | Total Alkalinity | 08/19/03 | BLKAL0819A | mg/L | 1 | 1.0 | 62.7 | |
| 375.4 | Sulfate | 08/20/03 | BLKSU0820A | mg/L | 1 | 5.0 | 8.3 | |
| 9040B | Corrosivity by pH | 08/14/03 | | pH Units | 1 | 0.1 | 7.8 | |

WET CHEMISTRY
Sample Report Summary

Client Sample No.

BLUESTPWP5A

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW010

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 537727

Matrix: WATER

Client: EASEAT

Date Received: 08/12/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|------------------------|---------------------|------------------|-------|----|-----|-------|-------|
| 160.1 | Total Dissolved Solids | 08/14/03 | BLKDS0814B | mg/L | 1 | 5.0 | 111 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTSF3A

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW010

Lab Code: STLVV

Case No.: 23046

Lab Sample ID: 537729

Matrix: WATER

Client: EASEAT

Date Received: 08/12/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|---------------------------|---------------------|------------------|----------|----|-------|-------|-------|
| 120.1 | Conductivity (umhos/cm) | 09/02/03 | | umhos/cm | 1 | 0.000 | 115 | |
| 130.2 | Total Hardness as CaCO3 | 09/04/03 | BLKHA0904A | mg/L | 1 | 2.0 | 172 | |
| 160.1 | Total Dissolved Solids | 08/14/03 | BLKDS0814B | mg/L | 1 | 5.0 | 106 | |
| 160.2 | Total Suspended Solids | 08/14/03 | BLKSS0814B | mg/L | 1 | 0.50 | 0.50 | |
| 160.4 | Volatile Suspended Solids | 08/14/03 | | mg/L | 1 | 5.0 | 5.0 | U |
| 310.1 | Hydroxide Alkalinity | 08/19/03 | BLKAL0819A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Carbonate Alkalinity | 08/19/03 | BLKAL0819A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Bicarbonate Alkalinity | 08/19/03 | BLKAL0819A | mg/L | 1 | 1.0 | 65.1 | |
| 310.1 | Total Alkalinity | 08/19/03 | BLKAL0819A | mg/L | 1 | 1.0 | 65.1 | |
| 375.4 | Sulfate | 08/20/03 | BLKSU0820A | mg/L | 1 | 5.0 | 6.8 | |
| 9040B | Corrosivity by pH | 08/14/03 | | pH Units | 1 | 0.1 | 8.2 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTPWP3A

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW010

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 537731

Matrix: WATER

Client: EASEAT

Date Received: 08/12/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|------------------------|---------------------|------------------|-------|----|-----|-------|-------|
| 160.1 | Total Dissolved Solids | 08/14/03 | BLKDS0814B | mg/L | 1 | 5.0 | 109 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTSF2A

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW010

Lab Code: STLVLT

Case No.: 23046

Lab Sample ID: 537733

Matrix: WATER

Client: EASEAT

Date Received: 08/12/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|---------------------------|---------------------|------------------|----------|----|-------|-------|-------|
| 120.1 | Conductivity (umhos/cm) | 09/02/03 | | umhos/cm | 1 | 0.000 | 115 | |
| 130.2 | Total Hardness as CaCO3 | 09/04/03 | BLKHA0904A | mg/L | 1 | 2.0 | 148 | |
| 160.1 | Total Dissolved Solids | 08/14/03 | BLKDS0814B | mg/L | 1 | 5.0 | 108 | |
| 160.2 | Total Suspended Solids | 08/14/03 | BLKSS0814B | mg/L | 1 | 0.50 | 0.60 | |
| 160.4 | Volatile Suspended Solids | 08/14/03 | | mg/L | 1 | 5.0 | 5.0 | U |
| 310.1 | Hydroxide Alkalinity | 08/19/03 | BLKAL0819A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Carbonate Alkalinity | 08/19/03 | BLKAL0819A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Bicarbonate Alkalinity | 08/19/03 | BLKAL0819A | mg/L | 1 | 1.0 | 64.5 | |
| 310.1 | Total Alkalinity | 08/19/03 | BLKAL0819A | mg/L | 1 | 1.0 | 64.5 | |
| 375.4 | Sulfate | 08/20/03 | BLKSU0820A | mg/L | 1 | 5.0 | 6.8 | |
| 9040B | Corrosivity by pH | 08/14/03 | | pH Units | 1 | 0.1 | 8.2 | |

WET CHEMISTRY
Sample Report Summary

Client Sample No.

BLACSTPWP2A

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW010

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 537735

Matrix: WATER

Client: EASEAT

Date Received: 08/12/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|------------------------|---------------------|------------------|-------|----|-----|-------|-------|
| 160.1 | Total Dissolved Solids | 08/14/03 | BLKDS0814B | mg/L | 1 | 5.0 | 100 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTSF2A(100)

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW010

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 537737

Matrix: WATER

Client: EASEAT

Date Received: 08/12/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|---------------------------|---------------------|------------------|----------|----|-------|-------|-------|
| 120.1 | Conductivity (umhos/cm) | 09/02/03 | | umhos/cm | 1 | 0.000 | 116 | |
| 130.2 | Total Hardness as CaCO3 | 09/04/03 | BLKHA0904A | mg/L | 1 | 2.0 | 132 | |
| 160.1 | Total Dissolved Solids | 08/14/03 | BLKDS0814B | mg/L | 1 | 5.0 | 98.0 | |
| 160.2 | Total Suspended Solids | 08/14/03 | BLKSS0814B | mg/L | 1 | 0.50 | 0.50 | U |
| 160.4 | Volatile Suspended Solids | 08/14/03 | | mg/L | 1 | 5.0 | 5.0 | U |
| 310.1 | Hydroxide Alkalinity | 08/19/03 | BLKAL0819A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Carbonate Alkalinity | 08/19/03 | BLKAL0819A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Bicarbonate Alkalinity | 08/19/03 | BLKAL0819A | mg/L | 1 | 1.0 | 64.5 | |
| 310.1 | Total Alkalinity | 08/19/03 | BLKAL0819A | mg/L | 1 | 1.0 | 64.5 | |
| 375.4 | Sulfate | 08/20/03 | BLKSU0820A | mg/L | 1 | 5.0 | 7.0 | |
| 9040B | Corrosivity by pH | 08/14/03 | | pH Units | 1 | 0.1 | 8.3 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTSF1A

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW010

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 537739

Matrix: WATER

Client: EASEAT

Date Received: 08/12/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|---------------------------|---------------------|------------------|----------|----|-------|-------|-------|
| 120.1 | Conductivity (umhos/cm) | 09/02/03 | | umhos/cm | 1 | 0.000 | 113 | |
| 130.2 | Total Hardness as CaCO3 | 09/04/03 | BLKHA0904A | mg/L | 1 | 2.0 | 128 | |
| 160.1 | Total Dissolved Solids | 08/14/03 | BLKDS0814B | mg/L | 1 | 5.0 | 102 | |
| 160.2 | Total Suspended Solids | 08/14/03 | BLKSS0814B | mg/L | 1 | 0.50 | 0.50 | U |
| 160.4 | Volatile Suspended Solids | 08/14/03 | | mg/L | 1 | 5.0 | 5.0 | U |
| 310.1 | Hydroxide Alkalinity | 08/19/03 | BLKAL0819A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Carbonate Alkalinity | 08/19/03 | BLKAL0819A | mg/L | 1 | 1.0 | 1.0 | U |
| 310.1 | Bicarbonate Alkalinity | 08/19/03 | BLKAL0819A | mg/L | 1 | 1.0 | 64.0 | |
| 310.1 | Total Alkalinity | 08/19/03 | BLKAL0819A | mg/L | 1 | 1.0 | 64.0 | |
| 375.4 | Sulfate | 08/20/03 | BLKSU0820A | mg/L | 1 | 5.0 | 6.9 | |
| 9040B | Corrosivity by pH | 08/14/03 | | pH Units | 1 | 0.1 | 7.9 | |

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BLACSTPWP1A

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW010

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 537741

Matrix: WATER

Client: EASEAT

Date Received: 08/12/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | DF | RL | Conc. | Qual. |
|--------|------------------------|---------------------|------------------|-------|----|-----|-------|-------|
| 160.1 | Total Dissolved Solids | 08/14/03 | BLKDS0814B | mg/L | 1 | 5.0 | 96.0 | |

WET CHEMISTRY

Method Blank Report Summary

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW010

Lab Code: STLVT

Case No.: 23046

Matrix: WATER

Client: EASEAT

% Solids:

| Lab Sample ID | Method | Parameter | Conc. | Units | Qual. | DF | RL | Analytical Run Date | Analytical Batch |
|---------------|--------|-------------------------|-------|-------|-------|----|------|---------------------|------------------|
| BLKAL0819A | 310.1 | Hydroxide Alkalinity | 1.0 | mg/L | U | 1 | 1.0 | 08/19/03 | BLKAL0819A |
| BLKAL0819A | 310.1 | Carbonate Alkalinity | 1.0 | mg/L | U | 1 | 1.0 | 08/19/03 | BLKAL0819A |
| BLKAL0819A | 310.1 | Bicarbonate Alkalinity | 1.0 | mg/L | U | 1 | 1.0 | 08/19/03 | BLKAL0819A |
| BLKAL0819A | 310.1 | Total Alkalinity | 1.0 | mg/L | U | 1 | 1.0 | 08/19/03 | BLKAL0819A |
| BLKDS0814B | 160.1 | Total Dissolved Solids | 5.0 | mg/L | U | 1 | 5.0 | 08/14/03 | BLKDS0814B |
| BLKHA0904A | 130.2 | Total Hardness as CaCO3 | 2.0 | mg/L | U | 1 | 2.0 | 09/04/03 | BLKHA0904A |
| BLKSS0814B | 160.2 | Total Suspended Solids | 0.50 | mg/L | | 1 | 0.50 | 08/14/03 | BLKSS0814B |
| BLKSU0820A | 375.4 | Sulfate | 5.0 | mg/L | U | 1 | 5.0 | 08/20/03 | BLKSU0820A |

WET CHEMISTRY

Matrix Spike Sample Report Summary

Client Sample No.

BLACSTSF2AMS

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW010

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 537733MS

Matrix: WATER

Client: EASEAT

Date Received: 08/12/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | Matrix Spike Result | | Sample Result | | Spike Added | % Recovery* |
|--------|-------------------------|---------------------|------------------|-------|---------------------|-------|---------------|-------|-------------|-------------|
| | | | | | Conc. | Qual. | Conc. | Qual. | | |
| 130.2 | Total Hardness as CaCO3 | 09/04/03 | BLKHA0904A | mg/L | 268 | | 148 | | 121 | 99.2 |
| 310.1 | Total Alkalinity | 08/19/03 | BLKAL0819A | mg/L | 111 | | 64.5 | | 44.40 | 104.7 |
| 375.4 | Sulfate | 08/20/03 | BLKSU0820A | mg/L | 12.2 | | 6.8 | | 10.0 | 54.0 |

* Control Limit for Percent Recovery is 75-125%, unless otherwise specified.

WET CHEMISTRY

Duplicate Sample Report Summary

Client Sample No.
BLACSTSF2AREP

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW010

Lab Code: STLVT

Case No.: 23046

Lab Sample ID: 537733DP

Matrix: WATER

Client: EASEAT

Date Received: 08/12/03

% Solids:

| Method | Parameter | Analytical Run Date | Analytical Batch | Units | Sample Result | | Duplicate Sample Result | | RPD* |
|--------|---------------------------|---------------------|------------------|----------|---------------|-------|-------------------------|-------|------|
| | | | | | Conc. | Qual. | Conc. | Qual. | |
| 120.1 | Conductivity (umhos/cm) | 09/02/03 | | umhos/c | 115 | | 116 | | 1 |
| 130.2 | Total Hardness as CaCO3 | 09/04/03 | BLKHA0904A | mg/L | 148 | | 144 | | 3 |
| 160.1 | Total Dissolved Solids | 08/14/03 | BLKDS0814B | mg/L | 108 | | 106 | | 2 |
| 160.2 | Total Suspended Solids | 08/14/03 | BLKSS0814B | mg/L | 0.60 | | 0.50 | U | 200 |
| 160.4 | Volatile Suspended Solids | 08/14/03 | | mg/L | 5.0 | U | 5.0 | U | 0 |
| 310.1 | Hydroxide Alkalinity | 08/19/03 | BLKAL0819A | mg/L | 1.0 | U | 1.0 | U | 0 |
| 310.1 | Carbonate Alkalinity | 08/19/03 | BLKAL0819A | mg/L | 1.0 | U | 1.0 | U | 0 |
| 310.1 | Bicarbonate Alkalinity | 08/19/03 | BLKAL0819A | mg/L | 64.5 | | 66.0 | | 2 |
| 310.1 | Total Alkalinity | 08/19/03 | BLKAL0819A | mg/L | 64.5 | | 66.0 | | 2 |
| 375.4 | Sulfate | 08/20/03 | BLKSU0820A | mg/L | 6.8 | | 6.9 | | 1 |
| 9040B | Corrosivity by pH | 08/14/03 | | pH Units | 8.2 | | 8.2 | | 0 |

* Control Limit for RPD is +/- 20%, unless otherwise specified.

WET CHEMISTRY

Laboratory Control Sample Report Summary

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW010

Lab Code: STLVT

Case No.: 23046

Matrix: WATER

Client: EASEAT

% Solids:

| Lab Sample ID | Method | Parameter | Analytical Run Date | Analytical Batch | Units | LCS Conc. | True Value | % Recovery* |
|---------------|--------|-------------------------|---------------------|------------------|----------|-----------|------------|-------------|
| LCS DS0814B | 160.1 | Total Dissolved Solids | 08/14/03 | BLKDS0814B | mg/L | 51.0 | 50.0 | 102.0 |
| LCSAL0819A | 310.1 | Hydroxide Alkalinity | 08/19/03 | BLKAL0819A | mg/L | 49.0 | 44.4000 | 110.5 |
| LCSAL0819A | 310.1 | Carbonate Alkalinity | 08/19/03 | BLKAL0819A | mg/L | 49.0 | 44.4000 | 110.5 |
| LCSAL0819A | 310.1 | Bicarbonate Alkalinity | 08/19/03 | BLKAL0819A | mg/L | 49.0 | 44.4000 | 110.5 |
| LCSAL0819A | 310.1 | Total Alkalinity | 08/19/03 | BLKAL0819A | mg/L | 49.0 | 44.4000 | 110.5 |
| LCSCD0902A | 120.1 | Conductivity (umhos/cm) | 09/02/03 | | umhos/c | 922 | 997.0000 | 92.5 |
| LCSHA0904A | 130.2 | Total Hardness as CaCO3 | 09/04/03 | BLKHA0904A | mg/L | 124 | 121.0000 | 102.5 |
| LCSPH0814A | 9040B | Corrosivity by pH | 08/14/03 | | pH Units | 6.0 | 6.0000 | 99.7 |
| LCSSS0814B | 160.2 | Total Suspended Solids | 08/14/03 | BLKSS0814B | mg/L | 470 | 500 | 94.0 |
| LCSSU0820A | 375.4 | Sulfate | 08/20/03 | BLKSU0820A | mg/L | 9.4 | 10.0 | 94.0 |

* Control Limit for Percent Recovery is 80-120%, unless otherwise specified.

WET CHEMISTRY

Laboratory Control Sample Duplicate Report Summary

Lab Name: STL BURLINGTON

Contract: LSO1024805

SDG No.: GCW010

Lab Code: STLVT

Case No.: 23046

Matrix: WATER

Client: EASEAT

% Solids:

| Lab Sample ID | Method | Parameter | Analytical Run Date | Analytical Batch | Units | LCS Conc. | True Value | % Recovery* | RPD** |
|---------------|--------|-------------------------|---------------------|------------------|----------|-----------|------------|-------------|-------|
| LCSDHA0904A | 130.2 | Total Hardness as CaCO3 | 09/04/03 | BLKHA0904A | mg/L | 124 | 121.0000 | 102.5 | 0 |
| LCSDPH0814A | 9040B | Corrosivity by pH | 08/14/03 | | pH Units | 6.0 | 6.0000 | 99.5 | 0 |

* Control Limit for Percent Recovery is 80-120%, unless otherwise specified.

** Control Limit for RPD is +/- 20%, unless otherwise specified.

Printed on: 09/10/03 07:03 PM



**Sample Data Summary Package
For Metals**

USEPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010

SOW No.: ILM04.1

| EPA Sample No. | Lab Sample ID. |
|-------------------|----------------|
| BLACRS02 | 537794 |
| BLACRS03 | 537743 |
| BLACSTPWP1A | 537741 |
| BLACSTPWP1AF | 537742 |
| BLACSTPWP2A | 537735 |
| BLACSTPWP2AF | 537736 |
| BLACSTPWP3A | 537731 |
| BLACSTPWP3AF | 537732 |
| BLACSTSEW1A | 537739 |
| BLACSTSEW1AF | 537740 |
| BLACSTSEW2A | 537733 |
| BLACSTSEW2A(100) | 537737 |
| BLACSTSEW2A(100)F | 537738 |
| BLACSTSEW2AD | 537733DP |
| BLACSTSEW2AF | 537734 |
| BLACSTSEW2AFD | 537734DP |
| BLACSTSEW2AFS | 537734MS |
| BLACSTSEW2AS | 537733MS |
| BLACSTSEW3A | 537729 |
| BLACSTSEW3AF | 537730 |
| BLUESTPWP5A | 537727 |
| BLUESTPWP5AF | 537728 |
| BLUESTSEW5A | 537725 |
| BLUESTSEW5AF | 537726 |

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: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACRS02

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010
 Matrix (soil/water): WATER Lab Sample ID: 537794
 Level (low/med): LOW Date Received: 8/12/2003
 % 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 | 23.6 | U | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 5.9 | U | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 182 | U | | P |
| 7440-47-3 | Chromium | 16.3 | | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 46.8 | | | P |
| 7439-89-6 | Iron | 303 | | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 178 | U | | P |
| 7439-96-5 | Manganese | 10.3 | B | | P |
| 7439-97-6 | Mercury | 0.12 | B | | CV |
| 7440-02-0 | Nickel | 32.1 | B | | P |
| 7440-09-7 | Potassium | 393 | U | | P |
| 7782-49-2 | Selenium | 3.4 | U | N | P |
| 7440-22-4 | Silver | 2.8 | B | | P |
| 7440-23-5 | Sodium | 473 | U | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 45.1 | | | P |
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACRS03

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010
 Matrix (soil/water): WATER Lab Sample ID: 537743
 Level (low/med): LOW Date Received: 8/12/2003
 % 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 | 23.6 | U | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 5.9 | U | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 182 | U | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 3.4 | B | | P |
| 7439-89-6 | Iron | 33.3 | U | | P |
| 7439-92-1 | Lead | 1.6 | B | | P |
| 7439-95-4 | Magnesium | 178 | U | | P |
| 7439-96-5 | Manganese | 0.70 | U | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 393 | U | | P |
| 7782-49-2 | Selenium | 3.4 | U | N | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 473 | U | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 3.9 | B | | P |
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTFWP1A

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010

Matrix (soil/water): WATER Lab Sample ID: 537741

Level (low/med): LOW Date Received: 8/12/2003

% Solids: 0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---------|---------|---------------|---|---|----|
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTPWPIAF

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010

Matrix (soil/water): WATER Lab Sample ID: 537742

Level (low/med): LOW Date Received: 8/12/2003

% 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 | 23.6 | U | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 15.7 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 12400 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 50.0 | B | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 7310 | | | P |
| 7439-96-5 | Manganese | 1.1 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1150 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | N | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2540 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 4.1 | B | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTFWP2A

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010

Matrix (soil/water): WATER Lab Sample ID: 537735

Level (low/med): LOW Date Received: 8/12/2003

% Solids: 0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---------|---------|---------------|---|---|----|
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTPWP2AF

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010
 Matrix (soil/water): WATER Lab Sample ID: 537736
 Level (low/med): LOW Date Received: 8/12/2003
 % 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 | 23.6 | U | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 16.0 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 13000 | | | P |
| 7440-47-3 | Chromium | 1.4 | B | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 33.3 | U | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 7450 | | | P |
| 7439-96-5 | Manganese | 3.8 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.7 | B | | P |
| 7440-09-7 | Potassium | 1200 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | N | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2850 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 17.6 | B | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTPWP3A

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010
 Matrix (soil/water): WATER Lab Sample ID: 537731
 Level (low/med): LOW Date Received: 8/12/2003
 % Solids: 0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---------|---------|---------------|---|---|----|
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTPWP3AF

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010

Matrix (soil/water): WATER Lab Sample ID: 537732

Level (low/med): LOW Date Received: 8/12/2003

% 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 | 23.6 | U | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 18.1 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 13000 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 33.3 | U | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 7460 | | | P |
| 7439-96-5 | Manganese | 61.1 | | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.5 | B | | P |
| 7440-09-7 | Potassium | 1280 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | N | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2800 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 4.4 | B | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTSW1A

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010

Matrix (soil/water): WATER Lab Sample ID: 537739

Level (low/med): LOW Date Received: 8/12/2003

% 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 | 23.6 | U | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 15.4 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 12600 | | | P |
| 7440-47-3 | Chromium | 2.7 | B | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 68.7 | B | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 7620 | | | P |
| 7439-96-5 | Manganese | 5.4 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1210 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | N | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2680 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 4.2 | B | | P |
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTSFWIAF

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010

Matrix (soil/water): WATER Lab Sample ID: 537740

Level (low/med): LOW Date Received: 8/12/2003

% 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 | 23.6 | U | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 14.7 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 12400 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 33.3 | U | | P |
| 7439-92-1 | Lead | 1.6 | B | | P |
| 7439-95-4 | Magnesium | 7480 | | | P |
| 7439-96-5 | Manganese | 3.2 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1160 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | N | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2590 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 3.8 | B | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTSEW2A

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010

Matrix (soil/water): WATER Lab Sample ID: 537733

Level (low/med): LOW Date Received: 8/12/2003

% 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 | 23.6 | U | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 15.7 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 13200 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 34.1 | B | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 7620 | | | P |
| 7439-96-5 | Manganese | 6.0 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1200 | B | | P |
| 7782-49-2 | Selenium | 4.5 | B | N | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2730 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 2.4 | B | | P |
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTSEW2A(100)

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010
 Matrix (soil/water): WATER Lab Sample ID: 537737
 Level (low/med): LOW Date Received: 8/12/2003
 % 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 | 23.6 | U | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 16.2 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 13600 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.5 | B | | P |
| 7439-89-6 | Iron | 54.5 | B | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 7860 | | | P |
| 7439-96-5 | Manganese | 6.5 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1270 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | N | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2870 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 9.7 | B | | P |
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTSEW2A(100)F

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010
 Matrix (soil/water): WATER Lab Sample ID: 537738
 Level (low/med): LOW Date Received: 8/12/2003
 % 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 | 23.6 | U | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 15.2 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 13100 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 33.3 | U | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 7560 | | | P |
| 7439-96-5 | Manganese | 4.1 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1210 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | N | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2600 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 2.5 | B | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTSF2AF

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010

Matrix (soil/water): WATER Lab Sample ID: 537734

Level (low/med): LOW Date Received: 8/12/2003

% 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 | 23.6 | U | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 16.0 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 13400 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 33.3 | U | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 7710 | | | P |
| 7439-96-5 | Manganese | 4.2 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1220 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | N | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2720 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 3.9 | B | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTSEW3A

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010

Matrix (soil/water): WATER Lab Sample ID: 537729

Level (low/med): LOW Date Received: 8/12/2003

% 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 | 23.6 | U | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 16.1 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 13400 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 46.0 | B | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 7720 | | | P |
| 7439-96-5 | Manganese | 5.7 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1250 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | N | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2640 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 3.0 | B | | P |
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLACSTSF3AF

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010
 Matrix (soil/water): WATER Lab Sample ID: 537730
 Level (low/med): LOW Date Received: 8/12/2003
 % 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 | 23.6 | U | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 15.9 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 13600 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 33.3 | U | | P |
| 7439-92-1 | Lead | 1.6 | B | | P |
| 7439-95-4 | Magnesium | 7830 | | | P |
| 7439-96-5 | Manganese | 3.9 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1250 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | N | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2780 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 5.0 | B | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTPWP5A

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010
 Matrix (soil/water): WATER Lab Sample ID: 537727
 Level (low/med): LOW Date Received: 8/12/2003
 % Solids: 0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---------|---------|---------------|---|---|----|
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTPWP5AF

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010

Matrix (soil/water): WATER Lab Sample ID: 537728

Level (low/med): LOW Date Received: 8/12/2003

% 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 | 23.6 | U | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 18.1 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 13700 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 33.3 | U | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 8000 | | | P |
| 7439-96-5 | Manganese | 12.1 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1360 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | N | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 3000 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 4.7 | B | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____

Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTSEW5A

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010
 Matrix (soil/water): WATER Lab Sample ID: 537725
 Level (low/med): LOW Date Received: 8/12/2003
 % 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 | 37.5 | B | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 17.9 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 13800 | | | P |
| 7440-47-3 | Chromium | 1.5 | B | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 66.8 | B | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 7980 | | | P |
| 7439-96-5 | Manganese | 17.3 | | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1360 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | N | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 3040 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 5.5 | B | | P |
| 57-12-5 | Cyanide | 10.0 | U | | AS |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BLUESTSFW5AF

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010
 Matrix (soil/water): WATER Lab Sample ID: 537726
 Level (low/med): LOW Date Received: 8/12/2003
 % 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 | 23.6 | U | | P |
| 7440-36-0 | Antimony | 4.7 | U | | P |
| 7440-38-2 | Arsenic | 4.8 | U | | P |
| 7440-39-3 | Barium | 17.4 | B | | P |
| 7440-41-7 | Beryllium | 0.20 | U | | P |
| 7440-43-9 | Cadmium | 0.60 | U | | P |
| 7440-70-2 | Calcium | 13600 | | | P |
| 7440-47-3 | Chromium | 1.4 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.4 | U | | P |
| 7439-89-6 | Iron | 33.3 | U | | P |
| 7439-92-1 | Lead | 1.3 | U | | P |
| 7439-95-4 | Magnesium | 7860 | | | P |
| 7439-96-5 | Manganese | 14.7 | B | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | 2.1 | U | | P |
| 7440-09-7 | Potassium | 1310 | B | | P |
| 7782-49-2 | Selenium | 3.4 | U | N | P |
| 7440-22-4 | Silver | 2.2 | U | | P |
| 7440-23-5 | Sodium | 2960 | B | | P |
| 7440-28-0 | Thallium | 5.7 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 8.6 | B | | P |

Color Before: colorless Clarity Before: clear Texture: _____Color After: colorless Clarity After: clear Artifacts: _____Comments: _____

USEPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010Initial Calibration Source: Inorganic Ventures/FisherContinuing 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 | 26180.00 | 100.7 | 30200.0 | 30330.00 | 100.4 | 29630.00 | 98.1 | P |
| Antimony | 250.0 | 246.10 | 98.4 | 300.0 | 301.10 | 100.4 | 297.20 | 99.1 | P |
| Arsenic | 250.0 | 244.40 | 97.8 | 100.0 | 98.59 | 98.6 | 95.62 | 95.6 | P |
| Barium | 500.0 | 494.50 | 98.9 | 200.0 | 199.90 | 100.0 | 195.90 | 98.0 | P |
| Beryllium | 500.0 | 502.70 | 100.5 | 100.0 | 99.56 | 99.6 | 98.29 | 98.3 | P |
| Cadmium | 500.0 | 493.50 | 98.7 | 100.0 | 98.40 | 98.4 | 97.32 | 97.3 | P |
| Calcium | 25000.0 | 25230.00 | 100.9 | 30200.0 | 30310.00 | 100.4 | 29680.00 | 98.3 | P |
| Chromium | 500.0 | 499.40 | 99.9 | 200.0 | 198.10 | 99.0 | 195.30 | 97.6 | P |
| Cobalt | 500.0 | 492.70 | 98.5 | 200.0 | 198.20 | 99.1 | 195.10 | 97.6 | P |
| Copper | 500.0 | 501.60 | 100.3 | 200.0 | 202.50 | 101.2 | 197.60 | 98.8 | P |
| Iron | 25500.0 | 26160.00 | 102.6 | 30200.0 | 30300.00 | 100.3 | 29840.00 | 98.8 | P |
| Lead | 1000.0 | 987.50 | 98.8 | 400.0 | 391.10 | 97.8 | 388.80 | 97.2 | P |
| Magnesium | 25000.0 | 25260.00 | 101.0 | 30200.0 | 30050.00 | 99.5 | 29620.00 | 98.1 | P |
| Manganese | 500.0 | 494.20 | 98.8 | 200.0 | 199.00 | 99.5 | 195.90 | 98.0 | P |
| Mercury | 3.0 | 2.95 | 98.3 | 5.0 | 4.97 | 99.4 | 4.83 | 96.6 | CV |
| Nickel | 500.0 | 497.20 | 99.4 | 200.0 | 196.90 | 98.4 | 194.50 | 97.2 | P |
| Potassium | 25000.0 | 26390.00 | 105.6 | 30200.0 | 31440.00 | 104.1 | 30770.00 | 101.9 | P |
| Selenium | 250.0 | 243.20 | 97.3 | 100.0 | 99.89 | 99.9 | 99.89 | 99.9 | P |
| Silver | 500.0 | 501.40 | 100.3 | 100.0 | 100.40 | 100.4 | 99.41 | 99.4 | P |
| Sodium | 25000.0 | 24890.00 | 99.6 | 30200.0 | 29560.00 | 97.9 | 29200.00 | 96.7 | P |
| Thallium | 250.0 | 234.50 | 93.8 | 100.0 | 98.37 | 98.4 | 96.00 | 96.0 | P |
| Vanadium | 500.0 | 497.50 | 99.5 | 200.0 | 199.00 | 99.5 | 196.40 | 98.2 | P |
| Zinc | 500.0 | 496.40 | 99.3 | 200.0 | 199.80 | 99.9 | 196.90 | 98.4 | P |
| Cyanide | 120.0 | 127.20 | 106.0 | 150.0 | 157.02 | 104.7 | 156.94 | 104.6 | AS |

(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: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010Initial Calibration Source: Inorganic Ventures/FisherContinuing 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 | 30060.00 | 99.5 | 30180.00 | 99.9 | P |
| Antimony | | | | 300.0 | 300.00 | 100.0 | 299.30 | 99.8 | P |
| Arsenic | | | | 100.0 | 97.35 | 97.4 | 98.38 | 98.4 | P |
| Barium | | | | 200.0 | 198.70 | 99.4 | 198.40 | 99.2 | P |
| Beryllium | | | | 100.0 | 99.58 | 99.6 | 99.55 | 99.6 | P |
| Cadmium | | | | 100.0 | 98.32 | 98.3 | 98.54 | 98.5 | P |
| Calcium | | | | 30200.0 | 30050.00 | 99.5 | 30270.00 | 100.2 | P |
| Chromium | | | | 200.0 | 198.00 | 99.0 | 197.80 | 98.9 | P |
| Cobalt | | | | 200.0 | 197.30 | 98.6 | 197.70 | 98.8 | P |
| Copper | | | | 200.0 | 200.80 | 100.4 | 200.70 | 100.4 | P |
| Iron | | | | 30200.0 | 30190.00 | 100.0 | 30230.00 | 100.1 | P |
| Lead | | | | 400.0 | 390.00 | 97.5 | 390.80 | 97.7 | P |
| Magnesium | | | | 30200.0 | 29970.00 | 99.2 | 30060.00 | 99.5 | P |
| Manganese | | | | 200.0 | 198.70 | 99.4 | 198.80 | 99.4 | P |
| Mercury | | | | 5.0 | 4.96 | 99.2 | 4.87 | 97.4 | CV |
| Nickel | | | | 200.0 | 197.30 | 98.6 | 197.40 | 98.7 | P |
| Potassium | | | | 30200.0 | 31190.00 | 103.3 | 31070.00 | 102.9 | P |
| Selenium | | | | 100.0 | 100.20 | 100.2 | 101.10 | 101.1 | P |
| Silver | | | | 100.0 | 100.50 | 100.5 | 100.70 | 100.7 | P |
| Sodium | | | | 30200.0 | 29480.00 | 97.6 | 29230.00 | 96.8 | P |
| Thallium | | | | 100.0 | 93.89 | 93.9 | 93.61 | 93.6 | P |
| Vanadium | | | | 200.0 | 198.50 | 99.2 | 198.70 | 99.4 | P |
| Zinc | | | | 200.0 | 199.30 | 99.6 | 199.10 | 99.6 | P |
| Cyanide | | | | 150.0 | 159.46 | 106.3 | 158.08 | 105.4 | AS |

(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.: GCW010

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) |
| Mercury | | | | 5.0 | 4.77 | 95.4 | | | CV |

(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 BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCW010AA CRDL Standard Source: Inorganic VenturesICP CRDL Standard Source: Inorganic Ventures

Concentration Units: ug/L

| Analyte | True | Found | %R | CRDL Standard for ICP | | | | |
|-----------|------|-------|-------|-----------------------|----------|-------|----------|-------|
| | | | | Initial | | | Final | |
| | | | | True | Found | %R | Found | %R |
| Aluminum | | | | 400.0 | 539.30 | 134.8 | 609.60 | 152.4 |
| Antimony | | | | 120.0 | 122.70 | 102.2 | 120.80 | 100.7 |
| Arsenic | | | | 20.0 | 18.47 | 92.4 | 20.45 | 102.2 |
| Barium | | | | 400.0 | 396.40 | 99.1 | 395.30 | 98.8 |
| Beryllium | | | | 10.0 | 10.37 | 103.7 | 10.44 | 104.4 |
| Cadmium | | | | 10.0 | 10.24 | 102.4 | 10.23 | 102.3 |
| Calcium | | | | 10000.0 | 10570.00 | 105.7 | 10570.00 | 105.7 |
| Chromium | | | | 20.0 | 21.53 | 107.6 | 20.96 | 104.8 |
| Cobalt | | | | 100.0 | 98.48 | 98.5 | 97.68 | 97.7 |
| Copper | | | | 50.0 | 50.66 | 101.3 | 50.69 | 101.4 |
| Iron | | | | 200.0 | 295.10 | 147.6 | 309.00 | 154.5 |
| Lead | | | | 6.0 | 5.09 | 84.8 | 5.79 | 96.5 |
| Magnesium | | | | 10000.0 | 10360.00 | 103.6 | 10360.00 | 103.6 |
| Manganese | | | | 30.0 | 30.39 | 101.3 | 30.16 | 100.5 |
| Mercury | 0.2 | 0.22 | 110.0 | | | | | |
| Nickel | | | | 80.0 | 80.81 | 101.0 | 80.96 | 101.2 |
| Potassium | | | | 10000.0 | 10940.00 | 109.4 | 10880.00 | 108.8 |
| Selenium | | | | 10.0 | 11.26 | 112.6 | 11.77 | 117.7 |
| Silver | | | | 20.0 | 20.53 | 102.6 | 20.88 | 104.4 |
| Sodium | | | | 10000.0 | 9929.00 | 99.3 | 10100.00 | 101.0 |
| Thallium | | | | 20.0 | 17.06 | 85.3 | 18.97 | 94.8 |
| Vanadium | | | | 100.0 | 99.85 | 99.8 | 99.66 | 99.7 |
| Zinc | | | | 40.0 | 40.70 | 101.8 | 40.51 | 101.3 |

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

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | C | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M | | |
|-----------|--------------------------------------|---|--|---|-------|---|-------|---|----------------------|---|---------|---|----|
| | | | 1 | C | 2 | C | 3 | C | C | C | | | |
| Aluminum | 23.6 | U | 23.6 | U | 23.6 | U | 23.6 | U | 23.6 | U | 23.600 | U | P |
| Antimony | 4.7 | U | 4.7 | U | 4.7 | U | 4.7 | U | 4.7 | U | 4.700 | U | P |
| Arsenic | 4.8 | U | 4.8 | U | 4.8 | U | 4.8 | U | 4.8 | U | 4.800 | U | P |
| Barium | 5.9 | U | 5.9 | U | 5.9 | U | 5.9 | U | 5.9 | U | 5.900 | U | P |
| Beryllium | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.200 | U | P |
| Cadmium | 0.6 | U | 0.6 | U | 0.6 | U | 0.6 | U | 0.6 | U | 0.600 | U | P |
| Calcium | 182.1 | U | 182.1 | U | 182.1 | U | 182.1 | U | 182.1 | U | 182.100 | U | P |
| Chromium | 1.4 | U | 1.4 | U | 1.4 | U | 1.4 | U | 1.4 | U | 1.400 | U | P |
| Cobalt | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.000 | U | P |
| Copper | 2.4 | U | 2.4 | U | 2.4 | U | 2.4 | U | 2.4 | U | 2.400 | U | P |
| Iron | 33.3 | U | 33.3 | U | 33.3 | U | 33.3 | U | 33.3 | U | 33.300 | U | P |
| Lead | 1.3 | U | 1.3 | U | 1.3 | U | 1.3 | U | 1.3 | U | 1.300 | U | P |
| Magnesium | 178.3 | U | 178.3 | U | 178.3 | U | 178.3 | U | 178.3 | U | 178.300 | U | P |
| Manganese | 0.7 | U | 0.7 | U | 0.7 | U | 0.7 | U | 0.7 | U | 0.700 | U | P |
| Mercury | 0.1 | U | -0.1 | B | 0.1 | U | 0.1 | U | 0.1 | U | 0.100 | U | CV |
| Nickel | 2.1 | U | 2.1 | U | 2.1 | U | 2.1 | U | 2.1 | U | 2.100 | U | P |
| Potassium | 393.0 | U | 393.0 | U | 393.0 | U | 393.0 | U | 393.0 | U | 393.000 | U | P |
| Selenium | 3.4 | U | 3.4 | U | 3.4 | U | 3.4 | U | 3.4 | U | 3.400 | U | P |
| Silver | 2.2 | U | 2.2 | U | 2.2 | U | 2.2 | U | 2.2 | U | 2.200 | U | P |
| Sodium | 472.7 | U | 472.7 | U | 472.7 | U | 472.7 | U | 472.7 | U | 472.700 | U | P |
| Thallium | 5.7 | U | 5.7 | U | 5.7 | U | 5.7 | U | 5.7 | U | 5.700 | U | P |
| Vanadium | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.000 | U | P |
| Zinc | 1.1 | B | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 2.632 | B | P |
| Cyanide | 10.0 | U | 10.0 | U | 10.0 | U | 10.0 | U | 10.0 | U | 10.000 | U | AS |

USEPA - CLP

3

BLANKS

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | C | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|-----------|--------------------------------------|---|--|---|-----|---|---|---|----------------------|---|----|
| | | | 1 | C | 2 | C | 3 | C | C | C | |
| Aluminum | | | 25.4 | B | | | | | | | 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 | | | 1.4 | U | | | | | | | P |
| Cobalt | | | 2.0 | U | | | | | | | P |
| Copper | | | 2.4 | U | | | | | | | P |
| Iron | | | 33.3 | U | | | | | | | P |
| Lead | | | 1.3 | U | | | | | | | P |
| Magnesium | | | 178.3 | U | | | | | | | P |
| Manganese | | | 0.7 | U | | | | | | | P |
| Mercury | | | 0.1 | U | 0.1 | U | | | | | CV |
| Nickel | | | 2.1 | U | | | | | | | P |
| Potassium | | | 393.0 | U | | | | | | | P |
| Selenium | | | 3.4 | 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 |
| Cyanide | | | 10.0 | U | | | | | | | AS |

USEPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010ICP ID Number: TJA ICAP 4 ICS Source: Inorganic VenturesConcentration 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 | 503600 | 503000.0 | 105.3 | 502300 | 501800.0 | 105.0 |
| Antimony | 0 | 575 | -5 | 596.9 | 103.8 | -3 | 594.7 | 103.4 |
| Arsenic | 0 | 97 | 4 | 99.2 | 102.3 | 3 | 98.6 | 101.6 |
| Barium | 0 | 464 | 2 | 493.6 | 106.4 | 2 | 492.6 | 106.2 |
| Beryllium | 0 | 444 | 0 | 469.3 | 105.7 | 0 | 470.9 | 106.1 |
| Cadmium | 0 | 874 | -1 | 925.8 | 105.9 | -1 | 928.1 | 106.2 |
| Calcium | 500000 | 476380 | 491900 | 495500.0 | 104.0 | 490600 | 495700.0 | 104.1 |
| Chromium | 0 | 451 | 4 | 476.8 | 105.7 | 4 | 477.1 | 105.8 |
| Cobalt | 0 | 434 | -1 | 455.0 | 104.8 | -1 | 455.0 | 104.8 |
| Copper | 0 | 482 | 4 | 511.4 | 106.1 | 4 | 510.1 | 105.8 |
| Iron | 200000 | 192500 | 202900 | 199300.0 | 103.5 | 202300 | 199300.0 | 103.5 |
| Lead | 0 | 41 | 1 | 44.1 | 107.6 | 1 | 46.2 | 112.7 |
| Magnesium | 500000 | 524140 | 539200 | 541300.0 | 103.3 | 538000 | 541600.0 | 103.3 |
| Manganese | 0 | 451 | 2 | 477.1 | 105.8 | 2 | 478.5 | 106.1 |
| Nickel | 0 | 876 | 1 | 921.8 | 105.2 | 1 | 921.3 | 105.2 |
| Potassium | 0 | 0 | -71 | -95.2 | | -68 | -100.0 | |
| Selenium | 0 | 41 | -6 | 42.8 | 104.4 | -7 | 39.4 | 96.1 |
| Silver | 0 | 198 | 0 | 211.2 | 106.7 | 1 | 211.5 | 106.8 |
| Sodium | 0 | 0 | -174 | -161.1 | | -80 | -323.0 | |
| Thallium | 0 | 83 | -4 | 86.4 | 104.1 | -6 | 86.0 | 103.6 |
| Vanadium | 0 | 464 | 2 | 493.8 | 106.4 | 2 | 492.2 | 106.1 |
| Zinc | 0 | 951 | 4 | 987.6 | 103.8 | 4 | 985.3 | 103.6 |

USEPA - CLP

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

BLACSTSEW2AS

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010Matrix (soil/water): WATER Level (low/med): LOW% Solids for Sample: 0.0Concentration Units (ug/L or mg/kg dry weight): UG/L

| Analyte | Control Limit %R | Spiked Sample Result (SSR) C | Sample Result (SR) C | Spike Added (SA) | %R | Q | M |
|-----------|------------------|------------------------------|----------------------|------------------|-------|---|----|
| Aluminum | 75 - 125 | 2225.0000 | 23.6000 U | 2000.00 | 111.2 | | P |
| Antimony | 75 - 125 | 537.2000 | 4.7000 U | 500.00 | 107.4 | | P |
| Arsenic | 75 - 125 | 39.2300 | 4.8000 U | 40.00 | 98.1 | | P |
| Barium | 75 - 125 | 2100.0000 | 15.6900 B | 2000.00 | 104.2 | | P |
| Beryllium | 75 - 125 | 53.5900 | 0.2000 U | 50.00 | 107.2 | | P |
| Cadmium | 75 - 125 | 53.2600 | 0.6000 U | 50.00 | 106.5 | | P |
| Chromium | 75 - 125 | 218.3000 | 1.4000 U | 200.00 | 109.2 | | P |
| Cobalt | 75 - 125 | 529.8000 | 2.0000 U | 500.00 | 106.0 | | P |
| Copper | 75 - 125 | 275.1000 | 2.4000 U | 250.00 | 110.0 | | P |
| Iron | 75 - 125 | 1144.0000 | 34.0800 B | 1000.00 | 111.0 | | P |
| Lead | 75 - 125 | 20.7400 | 1.3000 U | 20.00 | 103.7 | | P |
| Manganese | 75 - 125 | 544.3000 | 5.9900 B | 500.00 | 107.7 | | P |
| Mercury | 75 - 125 | 0.9450 | 0.1000 U | 1.00 | 94.5 | | CV |
| Nickel | 75 - 125 | 533.9000 | 2.1000 U | 500.00 | 106.8 | | P |
| Selenium | 75 - 125 | 9.2970 | 4.5120 B | 10.00 | 47.8 | N | P |
| Silver | 75 - 125 | 53.7400 | 2.2000 U | 50.00 | 107.5 | | P |
| Thallium | 75 - 125 | 45.5800 | 5.7000 U | 50.00 | 91.2 | | P |
| Vanadium | 75 - 125 | 539.8000 | 2.0000 U | 500.00 | 108.0 | | P |
| Zinc | 75 - 125 | 545.1000 | 2.3970 B | 500.00 | 108.5 | | P |
| Cyanide | 75 - 125 | 105.3121 | 10.0000 U | 100.00 | 105.3 | | AS |

Comments:

USEPA - CLP

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

BLACSTSF2AFS

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010Matrix (soil/water): WATER Level (low/med): LOW% Solids for Sample: 0.0Concentration Units (ug/L or mg/kg dry weight): UG/L

| Analyte | Control Limit %R | Spiked Sample Result (SSR) | C | Sample Result (SR) | C | Spike Added (SA) | %R | Q | M |
|-----------|------------------|----------------------------|---|--------------------|---|------------------|-------|---|----|
| Aluminum | 75 - 125 | 2181.0000 | | 23.6000 | U | 2000.00 | 109.0 | | P |
| Antimony | 75 - 125 | 543.2000 | | 4.7000 | U | 500.00 | 108.6 | | P |
| Arsenic | 75 - 125 | 38.4700 | | 4.8000 | U | 40.00 | 96.2 | | P |
| Barium | 75 - 125 | 2088.0000 | | 15.9600 | B | 2000.00 | 103.6 | | P |
| Beryllium | 75 - 125 | 53.0800 | | 0.2000 | U | 50.00 | 106.2 | | P |
| Cadmium | 75 - 125 | 53.0600 | | 0.6000 | U | 50.00 | 106.1 | | P |
| Chromium | 75 - 125 | 216.9000 | | 1.4000 | U | 200.00 | 108.4 | | P |
| Cobalt | 75 - 125 | 525.1000 | | 2.0000 | U | 500.00 | 105.0 | | P |
| Copper | 75 - 125 | 274.3000 | | 2.4000 | U | 250.00 | 109.7 | | P |
| Iron | 75 - 125 | 1081.0000 | | 33.3000 | U | 1000.00 | 108.1 | | P |
| Lead | 75 - 125 | 20.3600 | | 1.3000 | U | 20.00 | 101.8 | | P |
| Manganese | 75 - 125 | 538.4000 | | 4.2170 | B | 500.00 | 106.8 | | P |
| Mercury | 75 - 125 | 0.9400 | | 0.1000 | U | 1.00 | 94.0 | | CV |
| Nickel | 75 - 125 | 528.7000 | | 2.1000 | U | 500.00 | 105.7 | | P |
| Selenium | 75 - 125 | 11.8400 | | 3.4000 | U | 10.00 | 118.4 | | P |
| Silver | 75 - 125 | 54.3200 | | 2.2000 | U | 50.00 | 108.6 | | P |
| Thallium | 75 - 125 | 44.5200 | | 5.7000 | U | 50.00 | 89.0 | | P |
| Vanadium | 75 - 125 | 536.2000 | | 2.0000 | U | 500.00 | 107.2 | | P |
| Zinc | 75 - 125 | 540.7000 | | 3.9000 | B | 500.00 | 107.4 | | P |

Comments:

USEPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

BLACSTSF2AA

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS _____ SDG No.: GCW010Matrix (soil/water): WATER 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 | | 2310.00 | | 23.60 | U | 2000.0 | 115.5 | | P |
| Antimony | | 564.10 | | 4.70 | U | 500.0 | 112.8 | | P |
| Arsenic | | 40.74 | | 4.80 | U | 40.0 | 101.8 | | P |
| Barium | | 2183.00 | | 15.69 | B | 2000.0 | 108.4 | | P |
| Beryllium | | 55.83 | | 0.20 | U | 50.0 | 111.7 | | P |
| Cadmium | | 55.78 | | 0.60 | U | 50.0 | 111.6 | | P |
| Chromium | | 228.20 | | 1.40 | U | 200.0 | 114.1 | | P |
| Cobalt | | 552.00 | | 2.00 | U | 500.0 | 110.4 | | P |
| Copper | | 286.00 | | 2.40 | U | 250.0 | 114.4 | | P |
| Iron | | 1179.00 | | 34.08 | B | 1000.0 | 114.5 | | P |
| Lead | | 21.38 | | 1.30 | U | 20.0 | 106.9 | | P |
| Manganese | | 567.40 | | 5.99 | B | 500.0 | 112.3 | | P |
| Nickel | | 555.50 | | 2.10 | U | 500.0 | 111.1 | | P |
| Selenium | | 9.60 | | 4.51 | B | 10.0 | 50.9 | | P |
| Silver | | 48.49 | | 2.20 | U | 50.0 | 97.0 | | P |
| Thallium | | 50.03 | | 5.70 | U | 50.0 | 100.1 | | P |
| Vanadium | | 562.80 | | 2.00 | U | 500.0 | 112.6 | | P |
| Zinc | | 569.30 | | 2.40 | B | 500.0 | 113.4 | | P |
| Cyanide | | 21.98 | | 10.00 | U | 20.0 | 109.9 | | AS |

Comments: _____

USEPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

BLACSTSEW2AFA

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS _____ SDG No.: GCW010Matrix (soil/water): WATER 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 | | 2213.00 | | 23.60 | U | 2000.0 | 110.6 | | P |
| Antimony | | 540.20 | | 4.70 | U | 500.0 | 108.0 | | P |
| Arsenic | | 40.74 | | 4.80 | U | 40.0 | 101.8 | | P |
| Barium | | 2107.00 | | 15.96 | B | 2000.0 | 104.6 | | P |
| Beryllium | | 53.63 | | 0.20 | U | 50.0 | 107.3 | | P |
| Cadmium | | 53.51 | | 0.60 | U | 50.0 | 107.0 | | P |
| Chromium | | 218.90 | | 1.40 | U | 200.0 | 109.4 | | P |
| Cobalt | | 529.40 | | 2.00 | U | 500.0 | 105.9 | | P |
| Copper | | 275.90 | | 2.40 | U | 250.0 | 110.4 | | P |
| Iron | | 1096.00 | | 33.30 | U | 1000.0 | 109.6 | | P |
| Lead | | 19.77 | | 1.30 | U | 20.0 | 98.8 | | P |
| Manganese | | 543.90 | | 4.22 | B | 500.0 | 107.9 | | P |
| Nickel | | 533.00 | | 2.10 | U | 500.0 | 106.6 | | P |
| Selenium | | 12.39 | | 3.40 | U | 10.0 | 123.9 | | P |
| Silver | | 42.51 | | 2.20 | U | 50.0 | 85.0 | | P |
| Thallium | | 46.88 | | 5.70 | U | 50.0 | 93.8 | | P |
| Vanadium | | 541.00 | | 2.00 | U | 500.0 | 108.2 | | P |
| Zinc | | 546.80 | | 3.90 | B | 500.0 | 108.6 | | P |

Comments: _____

USEPA - CLP

6

DUPLICATES

SAMPLE NO.

BLACSTSEW2AD

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010Matrix (soil/water): WATER Level (low/med): LOW% Solids for Sample: 0.0 % Solids for Duplicate: 0.0Concentration Units (ug/L or mg/kg dry weight): UG/L

| Analyte | Control Limit | Sample (S) | C | Duplicate (D) | C | RPD | Q | M |
|-----------|---------------|------------|---|---------------|---|-------|---|----|
| Aluminum | | 23.6000 | U | 23.6000 | U | | | P |
| Antimony | | 4.7000 | U | 4.7000 | U | | | P |
| Arsenic | | 4.8000 | U | 4.8000 | U | | | P |
| Barium | | 15.6900 | B | 16.7900 | B | 6.8 | | P |
| Beryllium | | 0.2000 | U | 0.2000 | U | | | P |
| Cadmium | | 0.6000 | U | 0.6000 | U | | | P |
| Calcium | 5000.0 | 13190.0000 | | 13860.0000 | | 5.0 | | P |
| Chromium | | 1.4000 | U | 1.4000 | U | | | P |
| Cobalt | | 2.0000 | U | 2.0000 | U | | | P |
| Copper | | 2.4000 | U | 2.4000 | U | | | P |
| Iron | | 34.0800 | B | 55.9300 | B | 48.6 | | P |
| Lead | | 1.3000 | U | 1.3000 | U | | | P |
| Magnesium | 5000.0 | 7616.0000 | | 7995.0000 | | 4.9 | | P |
| Manganese | | 5.9900 | B | 6.4570 | B | 7.5 | | P |
| Mercury | | 0.1000 | U | 0.1000 | U | | | CV |
| Nickel | | 2.1000 | U | 2.1000 | U | | | P |
| Potassium | | 1196.0000 | B | 1272.0000 | B | 6.2 | | P |
| Selenium | | 4.5120 | B | 3.4000 | U | 200.0 | | P |
| Silver | | 2.2000 | U | 2.2000 | U | | | P |
| Sodium | | 2732.0000 | B | 2609.0000 | B | 4.6 | | P |
| Thallium | | 5.7000 | U | 5.7000 | U | | | P |
| Vanadium | | 2.0000 | U | 2.0000 | U | | | P |
| Zinc | | 2.3970 | B | 4.0310 | B | 50.8 | | P |
| Cyanide | | 10.0000 | U | 10.0000 | U | | | AS |

USEPA - CLP

6

DUPLICATES

SAMPLE NO.

BLACSTSF2AFD

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010Matrix (soil/water): WATER Level (low/med): LOW% Solids for Sample: 0.0 % Solids for Duplicate: 0.0Concentration Units (ug/L or mg/kg dry weight): UG/L

| Analyte | Control Limit | Sample (S) | C | Duplicate (D) | C | RPD | Q | M |
|-----------|---------------|------------|---|---------------|---|-------|---|----|
| Aluminum | | 23.6000 | U | 23.6000 | U | | | P |
| Antimony | | 4.7000 | U | 4.7000 | U | | | P |
| Arsenic | | 4.8000 | U | 4.8000 | U | | | P |
| Barium | | 15.9600 | B | 15.7900 | B | 1.1 | | P |
| Beryllium | | 0.2000 | U | 0.2000 | U | | | P |
| Cadmium | | 0.6000 | U | 0.6000 | U | | | P |
| Calcium | 5000.0 | 13360.0000 | | 13320.0000 | | 0.3 | | P |
| Chromium | | 1.4000 | U | 1.4620 | B | 200.0 | | P |
| Cobalt | | 2.0000 | U | 2.0000 | U | | | P |
| Copper | | 2.4000 | U | 2.4000 | U | | | P |
| Iron | | 33.3000 | U | 33.3000 | U | | | P |
| Lead | | 1.3000 | U | 1.3000 | U | | | P |
| Magnesium | 5000.0 | 7710.0000 | | 7698.0000 | | 0.2 | | P |
| Manganese | | 4.2170 | B | 4.1600 | B | 1.4 | | P |
| Mercury | | 0.1000 | U | 0.1000 | U | | | CV |
| Nickel | | 2.1000 | U | 2.1000 | U | | | P |
| Potassium | | 1217.0000 | B | 1244.0000 | B | 2.2 | | P |
| Selenium | | 3.4000 | U | 3.4000 | U | | | P |
| Silver | | 2.2000 | U | 2.2000 | U | | | P |
| Sodium | | 2723.0000 | B | 2588.0000 | B | 5.1 | | P |
| Thallium | | 5.7000 | U | 5.7000 | U | | | P |
| Vanadium | | 2.0000 | U | 2.0000 | U | | | P |
| Zinc | | 3.9000 | B | 2.5660 | B | 41.3 | | P |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010

Solid LCS Source: _____

Aqueous LCS Source: Inorganic Ventures

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|-----------|----------------|----------|-------|---------------|-------|---|--------|----|
| | True | Found | %R | True | Found | C | Limits | %R |
| Aluminum | 51000.0 | 52000.00 | 102.0 | | | | | |
| Antimony | 2000.0 | 2035.00 | 101.8 | | | | | |
| Arsenic | 1050.0 | 1048.00 | 99.8 | | | | | |
| Barium | 500.0 | 501.20 | 100.2 | | | | | |
| Beryllium | 500.0 | 502.70 | 100.5 | | | | | |
| Cadmium | 525.0 | 514.50 | 98.0 | | | | | |
| Calcium | 50000.0 | 50790.00 | 101.6 | | | | | |
| Chromium | 500.0 | 500.90 | 100.2 | | | | | |
| Cobalt | 500.0 | 492.40 | 98.5 | | | | | |
| Copper | 500.0 | 514.60 | 102.9 | | | | | |
| Iron | 50500.0 | 52090.00 | 103.1 | | | | | |
| Lead | 1015.0 | 998.40 | 98.4 | | | | | |
| Magnesium | 50000.0 | 50900.00 | 101.8 | | | | | |
| Manganese | 500.0 | 496.40 | 99.3 | | | | | |
| Mercury | 1.0 | 0.99 | 99.0 | | | | | |
| Nickel | 500.0 | 494.30 | 98.9 | | | | | |
| Potassium | 50000.0 | 49950.00 | 99.9 | | | | | |
| Selenium | 525.0 | 508.20 | 96.8 | | | | | |
| Silver | 500.0 | 433.20 | 86.6 | | | | | |
| Sodium | 50000.0 | 52290.00 | 104.6 | | | | | |
| Thallium | 550.0 | 529.10 | 96.2 | | | | | |
| Vanadium | 500.0 | 507.40 | 101.5 | | | | | |
| Zinc | 500.0 | 495.40 | 99.1 | | | | | |

USEPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010

Solid LCS Source: _____

Aqueous LCS Source: Inorganic Ventures

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|---------|----------------|-------|------|---------------|-------|---|--------|----|
| | True | Found | %R | True | Found | C | Limits | %R |
| Mercury | 1.0 | 0.98 | 98.0 | | | | | |

USEPA - CLP

9

ICP SERIAL DILUTIONS

SAMPLE NO.

BLACSTSF2AL

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCW010Matrix (soil/water): WATERLevel (low/med): LOW

Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | | Serial Dilution Result (S) | | % Difference | Q | M |
|-----------|---------------------------|---|----------------------------|---|--------------|---|---|
| | | C | | C | | | |
| Aluminum | 23.60 | U | 118.00 | U | | | P |
| Antimony | 4.70 | U | 23.50 | U | | | P |
| Arsenic | 4.80 | U | 24.00 | U | | | P |
| Barium | 15.69 | B | 29.50 | U | 100.0 | | P |
| Beryllium | 0.20 | U | 1.00 | U | | | P |
| Cadmium | 0.60 | U | 3.00 | U | | | P |
| Calcium | 13190.00 | | 13230.00 | B | 0.3 | | P |
| Chromium | 1.40 | U | 7.00 | U | | | P |
| Cobalt | 2.00 | U | 10.00 | U | | | P |
| Copper | 2.40 | U | 12.00 | U | | | P |
| Iron | 34.08 | B | 166.50 | U | 100.0 | | P |
| Lead | 1.30 | U | 6.50 | U | | | P |
| Magnesium | 7616.00 | | 7618.00 | B | 0.0 | | P |
| Manganese | 5.99 | B | 6.43 | B | 7.3 | | P |
| Nickel | 2.10 | U | 10.50 | U | | | P |
| Potassium | 1196.00 | B | 1965.00 | U | 100.0 | | P |
| Selenium | 4.51 | B | 17.00 | U | 100.0 | | P |
| Silver | 2.20 | U | 11.00 | U | | | P |
| Sodium | 2732.00 | B | 2599.00 | B | 4.9 | | P |
| Thallium | 5.70 | U | 28.50 | U | | | P |
| Vanadium | 2.00 | U | 10.00 | U | | | P |
| Zinc | 2.40 | B | 5.16 | B | 115.0 | | P |

USEPA - CLP

9

ICP SERIAL DILUTIONS

SAMPLE NO.

BLACSTSF2AFL

Lab Name: STL BURLINGTONContract: 23046Lab Code: STLVTCase No.: 23046

SAS No.: _____

SDG No.: GCW010Matrix (soil/water): WATER

Level (low/med):

LOW

Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | | Serial Dilution Result (S) | | % Difference | Q | M |
|-----------|---------------------------|---|----------------------------|---|--------------|---|---|
| | | C | | C | | | |
| Aluminum | 23.60 | U | 118.00 | U | | | P |
| Antimony | 4.70 | U | 23.50 | U | | | P |
| Arsenic | 4.80 | U | 24.00 | U | | | P |
| Barium | 15.96 | B | 29.50 | U | 100.0 | | P |
| Beryllium | 0.20 | U | 1.00 | U | | | P |
| Cadmium | 0.60 | U | 3.00 | U | | | P |
| Calcium | 13360.00 | | 13160.00 | B | 1.5 | | P |
| Chromium | 1.40 | U | 7.00 | U | | | P |
| Cobalt | 2.00 | U | 10.00 | U | | | P |
| Copper | 2.40 | U | 12.00 | U | | | P |
| Iron | 33.30 | U | 166.50 | U | | | P |
| Lead | 1.30 | U | 6.50 | U | | | P |
| Magnesium | 7710.00 | | 7587.00 | B | 1.6 | | P |
| Manganese | 4.22 | B | 4.04 | B | 4.3 | | P |
| Nickel | 2.10 | U | 10.50 | U | | | P |
| Potassium | 1217.00 | B | 1965.00 | U | 100.0 | | P |
| Selenium | 3.40 | U | 17.00 | U | | | P |
| Silver | 2.20 | U | 11.00 | U | | | P |
| Sodium | 2723.00 | B | 2511.00 | B | 7.8 | | P |
| Thallium | 5.70 | U | 28.50 | U | | | P |
| Vanadium | 2.00 | U | 10.00 | U | | | P |
| Zinc | 3.90 | B | 5.00 | U | 100.0 | | P |

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010ICP ID Number: _____ Date: 7/1/2003Flame AA ID Number: Lachat Cyanide

Furnace AA ID Number: _____

| Analyte | Wave-length (nm) | Back-ground | CRDL (ug/L) | IDL (ug/L) | M |
|---------|------------------|-------------|-------------|------------|----|
| Cyanide | | | 10 | 10.0 | AS |

Comments: _____

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010ICP ID Number: _____ Date: 7/1/2003Flame 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: _____

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010ICP 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 |
| Selenium | 196.026 | | 5 | 3.4 | 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: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010

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.: GCW010
 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: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010

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 | 0.000000 | 0.000000 | 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: _____

ICP LINEAR RANGES (QUARTERLY)

Lab Name: STL BURLINGTON Contract: 23046

Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010

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 |
| Selenium | 10.00 | 5000.0 | 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

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010Method: AS

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|-------------------|------------------|-------------------|-------------|
| BLACRS02 | 8/18/2003 | 50.0 | 50.0 |
| BLACRS03 | 8/18/2003 | 50.0 | 50.0 |
| BLACSTPWP1A | 8/18/2003 | 50.0 | 50.0 |
| BLACSTPWP2A | 8/18/2003 | 50.0 | 50.0 |
| BLACSTPWP3A | 8/18/2003 | 50.0 | 50.0 |
| BLACSTSFW1A | 8/18/2003 | 50.0 | 50.0 |
| BLACSTSFW2A | 8/18/2003 | 50.0 | 50.0 |
| BLACSTSFW2A (100) | 8/18/2003 | 50.0 | 50.0 |
| BLACSTSFW2AD | 8/18/2003 | 50.0 | 50.0 |
| BLACSTSFW2AS | 8/18/2003 | 50.0 | 50.0 |
| BLACSTSFW3A | 8/18/2003 | 50.0 | 50.0 |
| BLUESTPWP5A | 8/18/2003 | 50.0 | 50.0 |
| BLUESTSFW5A | 8/18/2003 | 50.0 | 50.0 |
| ICV | 8/18/2003 | 50.0 | 50.0 |
| PBW0818A | 8/18/2003 | 50.0 | 50.0 |

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010Method: CV

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|--------------------|------------------|-------------------|-------------|
| BLACRS02 | 9/2/2003 | 100.0 | 100.0 |
| BLACRS03 | 9/2/2003 | 100.0 | 100.0 |
| BLACSTPWP1AF | 9/2/2003 | 100.0 | 100.0 |
| BLACSTPWP2AF | 9/2/2003 | 100.0 | 100.0 |
| BLACSTPWP3AF | 9/2/2003 | 100.0 | 100.0 |
| BLACSTSF1A | 9/2/2003 | 100.0 | 100.0 |
| BLACSTSF1AF | 9/2/2003 | 100.0 | 100.0 |
| BLACSTSF2A | 9/2/2003 | 100.0 | 100.0 |
| BLACSTSF2A (100) | 9/2/2003 | 100.0 | 100.0 |
| BLACSTSF2A (100) F | 9/2/2003 | 100.0 | 100.0 |
| BLACSTSF2AD | 9/2/2003 | 100.0 | 100.0 |
| BLACSTSF2AF | 9/2/2003 | 100.0 | 100.0 |
| BLACSTSF2AFD | 9/2/2003 | 100.0 | 100.0 |
| BLACSTSF2AFS | 9/2/2003 | 100.0 | 100.0 |
| BLACSTSF2AS | 9/2/2003 | 100.0 | 100.0 |
| BLACSTSF3A | 9/2/2003 | 100.0 | 100.0 |
| BLACSTSF3AF | 9/2/2003 | 100.0 | 100.0 |
| BLUESTPWP5AF | 9/2/2003 | 100.0 | 100.0 |
| BLUESTSF5A | 9/2/2003 | 100.0 | 100.0 |
| BLUESTSF5AF | 9/2/2003 | 100.0 | 100.0 |
| LCSDW0902B | 9/2/2003 | 100.0 | 100.0 |
| LCSW0902B | 9/2/2003 | 100.0 | 100.0 |
| PBW0902B | 9/2/2003 | 100.0 | 100.0 |

USEPA - CLP

13

PREPARATION LOG

Lab Name: STL BURLINGTON Contract: 23046Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010Method: P

| EPA Sample No. | Preparation Date | Initial Volume mL | Volume (mL) |
|----------------------|---------------------|----------------------|----------------|
| BLACRS02 | 8/16/2003 | 100.0 | 100.0 |
| BLACRS03 | 8/16/2003 | 100.0 | 100.0 |
| BLACSTPWP1AF | 8/16/2003 | 100.0 | 100.0 |
| BLACSTPWP2AF | 8/16/2003 | 100.0 | 100.0 |
| BLACSTPWP3AF | 8/16/2003 | 100.0 | 100.0 |
| BLACSTSEFW1A | 8/16/2003 | 100.0 | 100.0 |
| BLACSTSEFW1AF | 8/16/2003 | 100.0 | 100.0 |
| BLACSTSEFW2A | 8/16/2003 | 100.0 | 100.0 |
| BLACSTSEFW2A (100) | 8/16/2003 | 100.0 | 100.0 |
| BLACSTSEFW2A (100) F | 8/16/2003 | 100.0 | 100.0 |
| BLACSTSEFW2AD | 8/16/2003 | 100.0 | 100.0 |
| BLACSTSEFW2AF | 8/16/2003 | 100.0 | 100.0 |
| BLACSTSEFW2AFD | 8/16/2003 | 100.0 | 100.0 |
| BLACSTSEFW2AFS | 8/16/2003 | 100.0 | 100.0 |
| BLACSTSEFW2AS | 8/16/2003 | 100.0 | 100.0 |
| BLACSTSEFW3A | 8/16/2003 | 100.0 | 100.0 |
| BLACSTSEFW3AF | 8/16/2003 | 100.0 | 100.0 |
| BLUESTPWP5AF | 8/16/2003 | 100.0 | 100.0 |
| BLUESTSEFW5A | 8/16/2003 | 100.0 | 100.0 |
| BLUESTSEFW5AF | 8/16/2003 | 100.0 | 100.0 |
| LCSW0816B | 8/16/2003 | 100.0 | 100.0 |
| PBW0816B | 8/16/2003 | 100.0 | 100.0 |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010
 Instrument ID Number: Lachat Cyanide QC8000 Method: AS
 Start Date: 8/18/2003 End Date: 8/18/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|---|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | A L | N T | T V | Z N | C N | | | | |
| S0 | 1.00 | 1248 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S10 | 1.00 | 1249 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S30 | 1.00 | 1250 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S50 | 1.00 | 1251 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S100 | 1.00 | 1252 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S200 | 1.00 | 1253 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| S300 | 1.00 | 1254 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ICV | 1.00 | 1256 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ICB | 1.00 | 1257 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LRS | 1.00 | 1258 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| LRS | 1.00 | 1259 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCV | 1.00 | 1300 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1301 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| PBW0818A | 1.00 | 1302 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| ZZZZZZ | 1.00 | 1303 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1304 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1305 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1306 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1307 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1308 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1309 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 1310 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLUESTSFW5A | 1.00 | 1311 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCV | 1.00 | 1312 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1313 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLUESTPWP5A | 1.00 | 1314 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLACSTSFW3A | 1.00 | 1315 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLACSTPWP3A | 1.00 | 1315 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLACSTSFW2A | 1.00 | 1316 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLACSTSFW2AD | 1.00 | 1317 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLACSTSFW2AS | 1.00 | 1318 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLACSTPWP2A | 1.00 | 1319 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLACSTSFW2A(100) | 1.00 | 1320 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLACSTSFW1A | 1.00 | 1321 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLACSTPWP1A | 1.00 | 1322 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCV | 1.00 | 1323 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| CCB | 1.00 | 1324 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| BLACRS03 | 1.00 | 1325 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010
 Instrument ID Number: Lachat Cyanide QC8000 Method: AS
 Start Date: 8/18/2003 End Date: 8/18/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | N A | T A | V L | Z N | C N | | | | |
| BLACRS02 | 1.00 | 1326 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| ZZZZZZ | 1.00 | 1327 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLACSTSF2AA | 1.00 | 1328 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| CCV | 1.00 | 1329 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| CCB | 1.00 | 1330 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010
 Instrument ID Number: TJA ICAP 4 Method: P
 Start Date: 9/16/2003 End Date: 9/16/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V L | Z N | C N | | |
| S0 | 1.00 | 1623 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| S | 1.00 | 1627 | | X | | | | | X | | | | X | X | | | | | X | | X | | | | | | | | |
| S | 1.00 | 1631 | | | X | X | | | | | | | X | | | | | | X | | | X | | | | | | | |
| S | 1.00 | 1635 | | | | | X | X | X | | X | X | X | | | X | X | | X | | X | | | X | X | | | | |
| LRS | 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 | X | X | | |
| LRS | 1.00 | 1644 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| LRS | 1.00 | 1649 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| ICV | 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 | X | X | | |
| ICB | 1.00 | 1658 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| ICSA | 1.00 | 1703 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| ICSAB | 1.00 | 1708 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CRI | 1.00 | 1713 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CCV | 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 | X | X | | |
| CCB | 1.00 | 1722 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| PBW0816B | 1.00 | 1727 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| LCSW0816B | 1.00 | 1731 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLUESTSFW5A | 1.00 | 1736 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLUESTSFW5AF | 1.00 | 1741 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLUESTPWP5AF | 1.00 | 1745 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTSFW3A | 1.00 | 1750 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTSFW3AF | 1.00 | 1755 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTPWP3AF | 1.00 | 1759 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTSFW2A | 1.00 | 1804 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTSFW2AL | 5.00 | 1808 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CCV | 1.00 | 1813 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CCB | 1.00 | 1818 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTSFW2AA | 1.00 | 1823 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTSFW2AD | 1.00 | 1827 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTSFW2AS | 1.00 | 1832 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTSFW2AF | 1.00 | 1836 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTSFW2AFL | 5.00 | 1841 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTSFW2AFA | 1.00 | 1846 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTSFW2AFD | 1.00 | 1850 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTSFW2AFS | 1.00 | 1855 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTPWP2AF | 1.00 | 1900 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTSFW2A (100) | 1.00 | 1904 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CCV | 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 | X | X | | |
| CCB | 1.00 | 1914 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010
 Instrument ID Number: TJA ICAP 4 Method: P
 Start Date: 9/16/2003 End Date: 9/16/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | N A | T L | V | Z N | C N | | |
| BLACSTSW2A(100)F | 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 | X | X | | |
| BLACSTSW1A | 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 | X | X | | |
| BLACSTSW1AF | 1.00 | 1928 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACSTPWP1AF | 1.00 | 1932 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACRS03 | 1.00 | 1937 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| BLACRS02 | 1.00 | 1941 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| ICSA | 1.00 | 1946 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| ICSAB | 1.00 | 1951 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CRI | 1.00 | 1955 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CCV | 1.00 | 2000 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| CCB | 1.00 | 2005 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |

USEPA - CLP

14

ANALYSIS RUN LOG

Lab Name: STL BURLINGTON Contract: 23046
 Lab Code: STLVT Case No.: 23046 SAS No.: _____ SDG No.: GCW010
 Instrument ID Number: Leeman Hydra AA Method: CV
 Start Date: 9/3/2003 End Date: 9/3/2003

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--|--|--|
| | | | | A L | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S E | A G | A L | N T | T V | Z N | C N | | | | |
| S0 | 1.00 | 0852 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| S0.2 | 1.00 | 0854 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| S0.5 | 1.00 | 0856 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| S1 | 1.00 | 0858 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| S5 | 1.00 | 0859 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| S10 | 1.00 | 0901 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| ICV | 1.00 | 0903 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| ICB | 1.00 | 0905 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| CRA | 1.00 | 0907 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| CCV | 1.00 | 0908 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| CCB | 1.00 | 0910 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| PBW0902B | 1.00 | 0912 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| LCSW0902B | 1.00 | 0914 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| LCSDW0902B | 1.00 | 0916 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| ZZZZZZ | 1.00 | 0918 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0919 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0921 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0923 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | 1.00 | 0925 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLUESTSFW5A | 1.00 | 0927 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| CCV | 1.00 | 0929 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| CCB | 1.00 | 0931 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| BLUESTSFW5AF | 1.00 | 0933 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| BLUESTPWP5AF | 1.00 | 0935 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| BLACSTSFW3A | 1.00 | 0937 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| BLACSTSFW3AF | 1.00 | 0939 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| BLACSTPWP3AF | 1.00 | 0940 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| BLACSTSFW2A | 1.00 | 0943 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| BLACSTSFW2AD | 1.00 | 0944 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| BLACSTSFW2AS | 1.00 | 0946 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| BLACSTSFW2AF | 1.00 | 0948 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| CCV | 1.00 | 0950 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| CCB | 1.00 | 0951 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| BLACSTSFW2AFD | 1.00 | 0953 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| BLACSTSFW2AFS | 1.00 | 0955 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| BLACSTPWP2AF | 1.00 | 0957 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| BLACSTSFW2A(100) | 1.00 | 0958 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| BLACSTSFW2A(100)F | 1.00 | 1000 | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |

ABA Data

Table 1: Modified ABA Results for STL Burlington Samples Batch 1 Received July 18, 2003

| Sample | Paste pH | Total Sulphur (Wt.%) | Sulphate Sulphur (Wt.%) | Sulphide Sulphur* (Wt.%) | Maximum Potential Acidity** (Kg CaCO3/Tonne) | Neutralization Potential (Kg CaCO3/Tonne) | Net Neutralization Potential (Kg CaCO3/Tonne) | Fizz Rating |
|------------------------|----------|----------------------|-------------------------|--------------------------|--|---|---|-------------|
| MONU-ML-SSS-12 0.7 | 6.5 | < .02 | <0.01 | <0.02 | <0.6 | 3.7 | 3.7 | none |
| MONU-WP-SSS-13 1.0 | 4.2 | 0.13 | 0.07 | 0.06 | 1.9 | -0.5 | -2.4 | none |
| MONU-WP-SUS-14 3.5 | 8.1 | 0.46 | <0.01 | 0.46 | 14.4 | 31.7 | 17.3 | slight |
| MONU-WP-SUS-15 4.0 | 7.8 | 0.56 | <0.01 | 0.56 | 17.5 | 18.2 | 0.7 | slight |
| MONU-ML-SSS-16 0.5 | 4.7 | 0.35 | 0.28 | 0.07 | 2.2 | -4.5 | -6.7 | none |
| MONU-WP-SSS-17 1.0 | 6.3 | 0.14 | 0.02 | 0.12 | 3.8 | 3.5 | -0.3 | none |
| MONU-ML-SSS-38 0.5 | 3.2 | 0.4 | 0.24 | 0.16 | 5.0 | -6.0 | -11.0 | none |
| TILL-WP-SUS-26 3.0 | 7.0 | 0.18 | 0.01 | 0.17 | 5.3 | 8.7 | 3.4 | none |
| TILL-WP-SUS-27 4.5 | 7.5 | < .02 | <0.01 | < .02 | <0.6 | 2.2 | 2.2 | none |
| TILL-WP-SSS-28 0.8 | 8.0 | 0.74 | <0.01 | 0.74 | 23.1 | 86.4 | 63.3 | moderate |
| CENT-WP-SUS-31 4.5 | 7.1 | < .02 | <0.01 | < .02 | <0.6 | 2.5 | 2.5 | none |
| CENT-WP-SUS-31 4.5-REP | 7.1 | 0.02 | <0.01 | 0.02 | 0.6 | 3.2 | 2.6 | none |
| CENT-WP-SUS-32 4.0 | 7.0 | < .02 | <0.01 | < .02 | <0.6 | 2.2 | 2.2 | none |
| CENT-WP-SUS-32 4.0-100 | 6.7 | < .02 | <0.01 | < .02 | <0.6 | 2.7 | 2.7 | none |

*Based on difference between total sulphur and sulphate-sulphur

**Based on sulphide-sulphur

Table 2a: QA/QC for NP Determination (Modified ABA Method)

| Sample | Neutralisation Potential (kgCaCO ₃ /Tonne) | Neutralisation Potential (kgCaCO ₃ /Tonne) |
|---------------------------|--|--|
| NBM-1 Reference (NP = 42) | 40.5 | - |

Table 2b: QA/QC for Sulphur Speciation

| Sample | Sulphur (Wt.%) | Sulphur (Wt.%) |
|--------------------------------------|-------------------|-------------------|
| <i>Duplicates - total sulphur</i> | | |
| TILL-WP-SSS-28 0.8 | 0.74 | 0.73 |
| Std. CSB (5.0%) | 5.28 | - |
| BCRI Std. (0.11%) | 0.12 | - |
| <i>Duplicates - sulphate sulphur</i> | | |
| BCRI 0.23% SO ₄ -S Ref. | 0.25 | - |

Table 1: Modified ABA Results for STL Burlington Samples Batch 3 - Received July 29, 2003

| Sample | Paste pH | Total Sulphur (Wt.%) | Sulphate Sulphur (Wt.%) | Sulphide Sulphur* (Wt.%) | Maximum Potential Acidity** (Kg CaCO3/Tonne) | Neutralization Potential (Kg CaCO3/Tonne) | Net Neutralization Potential (Kg CaCO3/Tonne) | Fizz Rating |
|-------------------------|----------|----------------------|-------------------------|--------------------------|--|---|---|-------------|
| AJAX-WP-SUS-08-1.2 | 7.8 | 0.74 | 0.01 | 0.73 | 22.8 | 72.5 | 49.7 | slight |
| AJAX-WP-SUS-09-1.0 | 8.2 | 0.57 | <0.01 | 0.57 | 17.8 | 83.8 | 66.0 | slight |
| AJAX-WP-SUS-10-2.0 | 4.1 | 0.09 | 0.06 | 0.03 | 0.9 | -1.3 | -2.2 | none |
| CAPM-WP-SUS-20-4.0 | 7.2 | < .02 | <0.01 | < .02 | <0.6 | 3.3 | 3.3 | none |
| CAPM-WP-SUS-21-2.5 | 7.7 | 0.25 | <0.01 | 0.25 | 7.8 | 11.0 | 3.2 | none |
| CAPM-WP-SUS-39-2.0 | 5.1 | < .02 | <0.01 | < .02 | <0.6 | -1.3 | -1.3 | none |
| GRAN-BG-SSS-34-0.5 | 6.0 | < .02 | <0.01 | < .02 | <0.6 | -5.0 | -5.0 | none |
| GRAN-BG-SSS-35-0.5 | 6.4 | < .02 | <0.01 | < .02 | <0.6 | -5.0 | -5.0 | none |
| GRAN-BG-SSS-36-0.5 | 6.3 | < .02 | <0.01 | < .02 | <0.6 | 0.5 | 0.5 | none |
| LUCA-BG-SSS-19-0.5 | 5.7 | < .02 | <0.01 | < .02 | <0.6 | -6.0 | -6.0 | none |
| MAGN-TA-SSS-15-0.5 | 4.8 | 0.53 | 0.20 | 0.33 | 10.3 | -2.3 | -12.6 | none |
| MAGN-TA-SSS-15-0.5-100 | 4.7 | 0.37 | 0.23 | 0.14 | 4.4 | -1.3 | -5.7 | none |
| MAGN-WP-SUS-14-3.0 | 5.7 | 1.58 | 0.61 | 0.97 | 30.3 | 12.5 | -17.8 | slight |
| MAGN-WP-SUS-14-3.0 Rep. | 5.9 | 1.47 | 0.61 | 0.86 | 26.9 | 13.5 | -13.4 | slight |
| MAGN-WP-SSS-16-0.5 | 3.1 | 0.32 | 0.27 | 0.05 | 1.6 | -5.3 | -6.9 | none |
| MAGN-WP-SUS-17-2.0 | 7.7 | 0.77 | 0.02 | 0.75 | 23.4 | 31.0 | 7.6 | slight |
| SHER-WP-SUS-23-3.5 | 7.2 | < .02 | <0.01 | < .02 | <0.6 | 4.8 | 4.8 | none |

*Based on difference between total sulphur and sulphate-sulphur

**Based on sulphide-sulphur

Table 2a: QA/QC for NP Determination (Modified ABA Method)

| Sample | Neutralisation Potential (kgCaCO ₃ /Tonne) | Neutralisation Potential (kgCaCO ₃ /Tonne) |
|---------------------------|--|--|
| CAPM-WP-SUS-20-4.0 | 3.3 | 2.5 |
| MAGN-WP-SSS-16-0.5 | -5.3 | -5.8 |
| NBM-1 Reference (NP = 42) | 39.5 | - |

Table 2b: QA/QC for Sulphur Speciation

| Sample | Sulphur (Wt.%) | Sulphur (Wt.%) |
|--------------------------------------|-------------------|-------------------|
| <i>Duplicates - total sulphur</i> | | |
| LUCA-BG-SSS-19-0.5 | <.02 | <.02 |
| SHER-WP-SUS-23-3.5 | <.02 | <.02 |
| Std. CSB (5.3%) | 5.34 | - |
| BCRI Std. (0.11%) | 0.11 | - |
| <i>Duplicates - sulphate sulphur</i> | | |
| AJAX-WP-SUS-08-1.2 | 0.01 | 0.01 |
| MAGN-WP-SUS-17-2.0 | <0.01 | <0.01 |
| BCRI 0.23% SO ₄ -S Ref. | 0.24 | - |

Table 1: Modified ABA Results for STL Burlington Samples Batch 4 - Received July 31, 2003

| Sample | Paste pH | Total Sulphur (Wt.%) | Sulphate Sulphur (Wt.%) | Sulphide Sulphur* (Wt.%) | Maximum Potential Acidity** (Kg CaCO3/Tonne) | Neutralization Potential (Kg CaCO3/Tonne) | Net Neutralization Potential (Kg CaCO3/Tonne) | Fizz Rating |
|-------------------------|----------|----------------------|-------------------------|--------------------------|--|---|---|-------------|
| BLAC-PD-SSS-10-0.4 | 4.5 | 1.13 | 0.18 | 0.95 | 29.7 | -14.5 | -44.2 | none |
| BLAC-WP-SUS-12-1.0 | 4.5 | 0.04 | 0.04 | 0.00 | 0.0 | -2.3 | -2.3 | none |
| BLAC-WP-SUS-13-1.5 | 4.9 | 0.03 | 0.01 | 0.02 | 0.6 | -0.8 | -1.4 | none |
| BLUE-AD-SSS-19-0.5 | 3.8 | 0.7 | 0.49 | 0.21 | 6.6 | -15.8 | -22.4 | none |
| BLUE-TA-SSS-27-0.5 | 6.2 | < .02 | <0.01 | < .02 | <0.6 | -2.5 | -2.5 | none |
| BLUE-TA-SUS-32-1.5 | 6.4 | < .02 | <0.01 | < .02 | <0.6 | 4.3 | 4.3 | none |
| BLUE-TA-SUS-33-2.0 | 6.4 | < .02 | <0.01 | < .02 | <0.6 | 3.3 | 3.3 | none |
| BLUE-WP-SUS-20-2.5 | 4.0 | 0.41 | 0.33 | 0.08 | 2.5 | -2.3 | -4.8 | none |
| BLUE-WP-SUS-21-1.5 | 3.7 | 0.26 | 0.18 | 0.08 | 2.5 | -3.0 | -5.5 | none |
| BLUE-WP-SUS-22-1.5 | 3.4 | 0.26 | 0.21 | 0.05 | 1.6 | -3.3 | -4.9 | none |
| BLUE-WP-SUS-29-1.0 | 4.6 | 0.04 | 0.02 | 0.02 | 0.6 | -2.3 | -2.9 | none |
| CHAM-ML-SSS-25-100 | 3.4 | 0.98 | 0.44 | 0.54 | 16.9 | -3.3 | -20.2 | none |
| CLEA-BG-SSS-25-0.5 | 5.8 | < .02 | <0.01 | < .02 | <0.6 | -2.8 | -2.8 | none |
| CLEA-BG-SSS-25-0.5 Rep. | 6.2 | < .02 | <0.01 | < .02 | <0.6 | -3.0 | -3.0 | none |
| CLEA-BG-SSS-26-0.5 | 6.1 | < .02 | <0.01 | < .02 | <0.6 | -1.3 | -1.3 | none |
| IDOL-BK-SSS-08-0.5 | 6.1 | 0.06 | 0.05 | 0.01 | 0.3 | 0.8 | 0.5 | none |
| IDOL-BK-SSS-08-0.5 Rep. | 6.1 | 0.08 | 0.06 | 0.02 | 0.6 | 0.0 | -0.6 | none |
| IDOL-WP-SSS-03-0.5 | 4.4 | 1.7 | 1.24 | 0.46 | 14.4 | -12.0 | -26.4 | none |
| IDOL-WP-SUS-03-3.5 | 3.4 | 2.11 | 1.83 | 0.28 | 8.7 | 2.3 | -6.4 | none |
| IDOL-WP-SUS-18-5.5 | 3.7 | 0.64 | 0.50 | 0.14 | 4.4 | -7.0 | -11.4 | none |
| IDOL-WP-SUS-18-100 | 3.5 | 0.72 | 0.60 | 0.12 | 3.8 | -2.5 | -6.3 | none |

*Based on difference between total sulphur and sulphate-sulphur

**Based on sulphide-sulphur

Table 2a: QA/QC for NP Determination (Modified ABA Method)

| Sample | Neutralisation Potential (kgCaCO ₃ /Tonne) | Neutralisation Potential (kgCaCO ₃ /Tonne) |
|---------------------------|---|---|
| BLUE-WP-SUS-22-1.5 | -3.3 | -3.3 |
| CHAM-ML-SSS-25-100 | -3.3 | -3.5 |
| NBM-1 Reference (NP = 42) | 39.5 | - |

Table 2b: QA/QC for Sulphur Speciation

| Sample | Sulphur (Wt.%) | Sulphur (Wt.%) |
|--------------------------------------|----------------|----------------|
| <i>Duplicates - total sulphur</i> | | |
| BLUE-WP-SUS-22-1.5 | 0.26 | 0.25 |
| IDOL-WP-SUS-18-100 | 0.72 | 0.73 |
| Std. CSB (5.3%) | 5.31 | - |
| BCRI Std. (0.11%) | 0.11 | - |
| <i>Duplicates - sulphate sulphur</i> | | |
| BLUE-WP-SUS-29-1.0 | 0.02 | 0.03 |
| IDOL-WP-SSS-03-0.5 | 1.24 | 1.23 |
| BCRI 0.23% SO ₄ -S Ref. | 0.24 | - |

Clay Mineralogy

K/T GeoServices

Incorporated



*X-ray Diffraction
Mineralogy
with Impact*

www.ktgeo.com

(940) 597-9076
fax (940) 387-9980

4993 Kiowa Trail
Argyle TX 76226

September 12, 2003

Cathy Bohlke
EA Engineering, Science and Technology
12011 Bellevue-Redmond Rd, Suite 200
Bellevue, WA 98005
425-451-7400 ext. 144

Subject: X-ray Diffraction Analysis
Project No.: 1389016-0002
K/T File No.: Z03222B

Dear Cathy,

This report presents the results of clay fraction (<4 micron) X-ray diffraction (XRD) analyses performed on 19 samples. These analyses are performed to provide mineralogy of the samples.

Enclosed find the tabular XRD data (weight percentage), diffraction traces for the sample and a detailed description of sample preparation and analytical procedures. For your convenience, I have sent a copy of this report via e-mail.

Unused portions of the sample will be returned upon request. If you have any questions concerning these results or if you need anything else please contact me at (940) 597-9076.

Thank you for using K/T GeoServices to perform your X-ray diffraction analyses and I look forward to working with you again in the future.

Sincerely,

James Talbot

NOTICE: The results and interpretations presented in this report are based on materials and information supplied by the client and represent the judgment of K/T GeoServices, Inc. This report is intended for the client's exclusive and confidential use, and any user of this report agrees that K/T GeoServices, Inc. and its employees assume no responsibility and make no warranties or representation as to the utility of this report for any reason. K/T GeoServices, Inc. and its employees shall not be liable for any loss or damage, regardless of cause, resulting from the use of any information contained herein.

Mineral Definitions

Phyllosilicate (Clay) Minerals

Smectite (Montmorillonite)

A clay mineral group synonymous with the montmorillonite group. The smectite group is composed of expandable (swelling) clay minerals. The general formula for Smectite is $\text{Al}_2(\text{Si}_4\text{O}_{10})(\text{OH})_2$. Smectites are characterized by swelling in water and extreme colloidal behavior.

Illite & Mica

Illite & Mica (muscovite) are common non-expanding (non-swelling) minerals. Illite is the fine-grained clay mineral analogue to muscovite. Illite and Mica are hydrated silicates containing potassium, silica and alumina.

Kaolinite

Kaolinite is a common non-expanding (non-swelling) clay mineral. It is a hydrous aluminum silicate with the general formula $\text{Al}_2(\text{Si}_2\text{O}_5)(\text{OH})_4$.

Chlorite

Chlorite is a common non-expanding (non-swelling) clay mineral. It is a hydrous aluminum silicate that often contains iron.

Reference for general mineral definitions:

Dictionary of Geological Terms, American Geological Institute, 1976, Anchor Press/Doubleday, Garden City, New York.

Mineral Definitions (continued)

Rock Forming (nonclay) Minerals

Amphibole

The term amphibole refers to a mineral group. Hornblende is a common member of this group.

Antigorite

Antigorite is a serpentine group mineral with the formula $Mg_3(Si_2O_5)(OH)_4$.

Goethite

Goethite ($FeO \bullet OH$) is a common weathering product of iron-bearing minerals such as siderite, magnetite, pyrite, etc.

Erionite

Erionite is a zeolite mineral with the formula $NaK_2MgCa_{1.5}(Al_8Si_{28}O_{72}) \bullet 28H_2O$.

Laumontite

Laumontite is a zeolite mineral with the formula $Ca(Al_2Si_4O_{12}) \bullet 4H_2O$.

Quartz

Quartz (SiO_2) is the most common rock-forming mineral.

K-Feldspar

K-Feldspar ($KAlSi_3O_8$) is a potassium bearing feldspar and can be Orthoclase, Microcline or Sanidine.

Plagioclase

Plagioclase is a mineral series ranging in composition from Albite ($NaAlSi_3O_8$) to Anorthite ($CaAl_2Si_2O_8$) and is one of the most common rock forming mineral groups.

Reference for general mineral definitions:

Dictionary of Geological Terms, American Geological Institute, 1976, Anchor Press/Doubleday, Garden City, New York.

Discussion of Terminology and Limitations

Clay Fraction (<4 micron size fraction)

For purposes of this report, the clay fraction is defined as the <4 micron ESD (Equivalent Spherical Diameter) fraction of the sample. Clay fraction does not mean clay minerals (phyllosilicates) only, it is a size term and as such this size fraction can and almost always does include non-clay minerals (quartz, plagioclase, etc.). This size fraction is used because it typically contains abundant clay minerals.

Clay Fraction weight %

The <4 micron size cutoff for this fraction is based on calculated settling rates for the specific centrifuge used in the sample preparation. This is not a strict size analysis but is considered a convenient cutoff to aid in clay mineral analysis.

Data table

Data are formatted as weight percent, but are actually calculated as weight fractions. Therefore, slight rounding errors may be observed in the formatted data.

Non-crystalline (X-ray amorphous) material

XRD methods can quantify crystalline material only. Organic non-crystalline material in large concentrations can be detected but not quantified. Therefore, any organic and/or non-crystalline material is not included in the accompanying results.

K/T GeoServices, Inc., Clay Fraction XRD Sample Preparation and Analytical Procedures

Sample Preparation

Samples submitted for clay fraction XRD analysis are first dried overnight in a convection oven at 60° C. The samples are then disaggregated using a mortar and pestle, weighed, and dispersed in a dilute sodium phosphate solution using a sonic probe. The samples are next size-fractionated using a centrifuge into bulk (>4 microns) and clay-size fractions (<4 microns equivalent spherical diameter (ESD)). The bulk fractions of each sample are dried and weighed in order to determine weight loss due to removal of clay-size materials. This weight loss is identified in the accompanying data table as “<4 Weight %.” The clay suspensions (clay-size fractions) are decanted and vacuum deposited on membrane filters to produce oriented clay mounts. The oriented clay mounts are attached to glass slides and exposed to ethylene glycol vapor at 60 degrees C in a vacuum oven for a minimum of 12 hours to aid in detection and characterization of expandable clays.

Analytical Procedures

X-ray Diffraction (XRD) analyses of the samples are performed using a Rigaku automated powder diffractometer equipped with a copper X-ray source (40kV, 35mA) and a scintillation X-ray detector. The glycol solvated oriented clay mounts are analyzed over an angular range of two to fifty degrees two theta at a rate of one and one half degrees per minute.

Semi-quantitative determinations of clay fraction mineral amounts are done utilizing integrated peak areas (derived from peak-decomposition / profile-fitting methods) and empirical reference intensity ratio (RIR) factors determined specifically for the diffractometer used in data collection. The relative amounts of phyllosilicate minerals are determined from the patterns using profile-fitted integrated peak intensities and combined empirical and calculated RIR factors. Determinations of mixed-layer clay ordering and expandability are done by comparing experimental diffraction data from the glycol-solvated clay aggregates with simulated one dimensional diffraction profiles generated using the program NEWMOD written by R. C. Reynolds.

Weight Percent X-ray Diffraction Data

| Project No. | 1389016-0002 | 1389016-0002 | 1389016-0002 | 1389016-0002 | 1389016-0002 | 1389016-0002 | 1389016-0002 |
|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| XRD# | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Sample ID | BLAC-ST-PSD-01 | BLAC-ST-PSD-02 | BLAC-ST-PSD-03 | BLAC-ST-PSD-04 | BLAC-PD-SSD-10 | BLAC-AD-SSD-11 | BLAC-PD-SSD-41 |
| <4 Weight% | 0.3% | 0.5% | 1.1% | 1.1% | 12 % | 15 % | 7.9% |
| Smectite | 18 % | 29 % | 12 % | 15 % | 0% | 0% | 8.4% |
| Illite & Mica | 19 % | 14 % | 13 % | 10 % | 10 % | 29 % | 6.6% |
| Kaolinite | 3.3% | 1.7% | 2.2% | 2.1% | 0% | 0% | 7.6% |
| Chlorite | 9.9% | 5.5% | 5.6% | 6.8% | 0% | 0% | 18 % |
| Amphibole | 9.2% | 13 % | 9.8% | 11 % | 0% | 0% | 6.9% |
| Antigorite | 14 % | 10 % | 10 % | 12 % | 0% | 0% | 0% |
| Goethite | 0% | 0% | 0% | 0% | 90 % | 71 % | 0% |
| Erionite | 0% | 0% | 0% | 0% | 0% | 0% | 22 % |
| Laumontite | 13 % | 4.4% | 11 % | 9.7% | 0% | 0% | 0% |
| Quartz | 6.6% | 11 % | 13 % | 15 % | 0% | 0% | 13 % |
| K-Feldspar | 1.1% | 0% | 0.8% | 0% | 0% | 0% | 1.9% |
| Plagioclase | 6.5% | 11 % | 22 % | 18 % | 0% | 0% | 15 % |
| TOTAL | 100 % | 100 % | 100% | 100% | 100% | 100% | 100 % |

Weight Percent X-ray Diffraction Data

| Project No. | 1389016-0002 | 1389016-0002 | 1389016-0002 | 1389016-0002 | 1389016-0002 | 1389016-0002 | 1389016-0002 |
|---------------|----------------|----------------|----------------|-------------------|----------------|----------------|----------------|
| XRD# | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Sample ID | BLAC-ST-PSD-42 | BLAC-PD-SSD-43 | BLUE-ST-PSD-05 | UE-ST-PSD-05(100) | BLUE-ST-PSD-06 | BLUE-ST-PSD-07 | BLUE-ST-PSD-08 |
| <4 Weight% | 4.1% | 10 % | 2.8% | 4.7% | 2.0% | 2.6% | 1.3% |
| Smectite | 18 % | 3.1% | 23 % | 25 % | 17 % | 17 % | 22 % |
| Illite & Mica | 6.8% | 36 % | 11 % | 9.4% | 9.1% | 8.1% | 9.0% |
| Kaolinite | 12 % | 18 % | 13 % | 7.3% | 4.1% | 1.8% | 2.7% |
| Chlorite | 13 % | 3.7% | 4.4% | 4.2% | 8.3% | 6.8% | 8.5% |
| Amphibole | 9.5% | 15 % | 8.7% | 9.3% | 9.1% | 10 % | 13 % |
| Antigorite | 0% | 0% | 6.7% | 7.5% | 4.4% | 4.9% | 9.7% |
| Goethite | 0% | 0% | 0% | 1.5% | 0% | 0% | 0% |
| Erionite | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Laumontite | 2.1% | 0% | 5.0% | 3.7% | 5.5% | 4.9% | 4.8% |
| Quartz | 16 % | 24 % | 8.9% | 11 % | 10 % | 16 % | 12 % |
| K-Feldspar | 0% | 0% | 0% | 0% | 0% | 3.7% | 2.9% |
| Plagioclase | 22 % | 0% | 20 % | 21 % | 32 % | 27 % | 16 % |
| TOTAL | 100 % | 100 % | 100% | 100 % | 100 % | 100% | 100% |

Weight Percent X-ray Diffraction Data

| Project No. | 1389016-0002 | 1389016-0002 | 1389016-0002 | 1389016-0002 | 1389016-0002 |
|---------------|----------------|-----------------|-----------------|-----------------|-----------------|
| XRD# | 18 | 35 | 36 | 37 | 38 |
| Sample ID | BLUE-PD-SSD-16 | BLAC-ST-PSD-01A | BLAC-ST-PSD-02A | BLAC-ST-PSD-03A | BLUE-ST-PSD-05A |
| <4 Weight% | 37 % | 0.5% | 0.6% | 1.2% | 2.8% |
| Smectite | 0% | 17 % | 30 % | 22 % | 31 % |
| Illite & Mica | 100% | 20 % | 9.7% | 13 % | 9.9% |
| Kaolinite | 0% | 2.2% | 2.7% | 3.1% | 3.7% |
| Chlorite | 0% | 7.6% | 4.4% | 7.7% | 6.7% |
| Amphibole | 0% | 19 % | 11 % | 10 % | 11 % |
| Antigorite | 0% | 12 % | 15 % | 15 % | 13 % |
| Goethite | 0% | 0% | 0% | 0% | 0% |
| Erionite | 0% | 0% | 0% | 0% | 0% |
| Laumontite | 0% | 10 % | 6.8% | 6.9% | 6.6% |
| Quartz | 0% | 3.9% | 6.5% | 7.6% | 6.5% |
| K-Feldspar | 0% | 0% | 0% | 0% | 0% |
| Plagioclase | 0% | 7.6% | 13 % | 15 % | 11 % |
| TOTAL | 100% | 100% | 100 % | 100% | 100% |

Methylmercury

QA/QC SUMMARY

PROJECT: EA Engineering – Granite Creek
PARAMETER: Methylmercury
LABORATORY: Battelle/Marine Sciences Laboratory, Sequim, Washington
MATRIX: Sediment

SAMPLE CUSTODY: Two sediment samples were received on 7/26/03 with custody seals intact. The samples were received in good condition. Cooler temperature upon arrival was below 0°C, which is appropriate for methylmercury samples. The sediment samples were held frozen until analysis.

QA/QC DATA QUALITY OBJECTIVES:

| <u>Analyte</u> | <u>Analytical Method</u> | <u>Range of Recovery</u> | <u>Relative Precision</u> | <u>Achieved Detection Limit (ng/g ww-sediment)</u> |
|----------------|--------------------------------|--------------------------|---------------------------|--|
| Methylmercury | CVAF (EPA 1630 draft) sediment | 65-135% | ±35% | 0.0269 |

HOLDING TIMES: Initial analyses were conducted within target holding times of 28 days from the sample collection date. However poor spike recoveries indicated a serious matrix affect, which also damaged the chromatography column in the methylmercury analyzer. Once the instrument was repaired, the samples were put on hold (held at -4°C) until all pending methylmercury analyses were complete, since it was possible the re-analyses would again put the analyzer out of service. When additional information could be gathered about the sample matrix, it was determined that the samples contained high levels of sulfur, so the decision was made to reprocess using both the extraction technique, which was attempted in the first analysis, but using additional Cu reagent to sequester the sulfur, and by the distillation technique, since sulfur will not distill. The sample processing was begun within the 28 day hold time and analysis was completed on the 29th day after sample collection. The distillation data are reported. The distillation produced good quality data and had no negative impact on the instrumentation. Although the samples contain no methylmercury, the matrix spikes and SRM results were within acceptance criteria.

DETECTION LIMITS: Achieved detection limits for methylmercury were determined by a previously conducted MDL study where replicates were analyzed and the standard deviation was multiplied by the Student's-t value for the number of replicates.

BLANKS Three analytical blanks were analyzed with the samples. MeHg was not detected in the blanks. The data are not blank corrected.

MATRIX SPIKES: One matrix spike/matrix spike duplicate pair was analyzed for MeHg in sediment. Recoveries were 93% and 82%, which is within the data quality objective. The RPD for the MS/MSD pair was 12%, which is within the data quality objective.

REPLICATES: One pair of analytical duplicates was analyzed for MeHg. Precision of duplicate analyses is reported by calculating the relative percent

QA/QC SUMMARY

difference (RPD) of replicate results. Because both values were below the method detection limit, no RPD could be calculated.

LCS/SRM SAMPLES: One sample of IAEA 356 and one sample of IAEA-405, standard reference material (SRM) samples, were analyzed for MeHg. The recoveries were 90% and 92% of the certified value.

BATTELLE MARINE SCIENCE LABORATORIES

1529 West Sequim Bay Road
 Sequim, Washington 98382-9099
 360/681-3604

EA Engineering - Granite Creek Mine
METHYLMERCURY IN SEDIMENT
 (Samples Received 7/26/03)

| MSL Code | Sponsor ID | Date Collected | Date Received | Percent Dry Wt | MeHg Analytical Batch ID | Sediment MeHg (ng/g-DW) | Sediment MeHg (ng/g-WW) |
|--|----------------------|----------------|---------------|----------------|--------------------------|-------------------------|-------------------------|
| 2070*1 r1 | BLUE-TA-S45-32 (1.5) | 07/24/03 | 07/26/03 | 97.9 | 082203MEB | 0.0277 U | 0.0268 U |
| 2070*1 r2 | BLUE-TA-S45-32 (1.5) | 07/24/03 | 07/26/03 | 97.9 | 082203MEB | 0.0277 U | 0.0268 U |
| 2070*2 | BLUE-TA-S45-33 (2.0) | 07/24/03 | 07/26/03 | 95.6 | 082203MEB | 0.0277 U | 0.0268 U |
| Mean Dry Weight (used for MDL correction) | | | | 96.8 | | | |
| <u>METHOD DETECTION LIMIT</u> | | | | | | 0.0277 | 0.0268 |
| <u>BLANKS</u> | | | | | | | |
| | | | | | 082203MEB | 0.0277 U | 0.0268 U |
| | | | | | 082203MEB | 0.0277 U | 0.0268 U |
| | | | | | 082203MEB | 0.0277 U | 0.0268 U |
| <u>STANDARD REFERENCE MATERIALS</u> | | | | | | | |
| IAEA 405 | | | | | 082203MEB | 5.06 | NA |
| certified value | | | | | | 5.49 | NA |
| range | | | | | | ±0.53 | NA |
| percent recovery | | | | | 082203MEB | 92% | NA |
| <u>STANDARD REFERENCE MATERIALS</u> | | | | | | | |
| IAEA 356 | | | | | 082203MEB | 4.92 | NA |
| reference value | | | | | | 5.46 | NA |
| range | | | | | | ±0.39 | NA |
| percent recovery | | | | | 082203MEB | 90% | NA |

BATTELLE MARINE SCIENCE LABORATORIES

1529 West Sequim Bay Road
 Sequim, Washington 98382-9099
 360/681-3604

EA Engineering - Granite Creek Mine
METHYLMERCURY IN SEDIMENT
 (Samples Received 7/26/03)

| MSL Code | Sponsor ID | Date Collected | Date Received | Percent Dry Wt | MeHg Analytical Batch ID | Sediment MeHg (ng/g-DW) | Sediment MeHg (ng/g-WW) |
|-----------------------------------|----------------------|----------------|---------------|----------------|--------------------------|-------------------------|-------------------------|
| REPLICATE ANALYSIS RESULTS | | | | | | | |
| 2070*1 r1 | BLUE-TA-S45-32 (1.5) | 07/24/03 | 07/26/03 | 97.9 | 082203MEB | 0.0277 U | 0.0268 U |
| 2070*1 r2 | BLUE-TA-S45-32 (1.5) | 07/24/03 | 07/26/03 | 97.9 | 082203MEB | 0.0277 U | 0.0268 U |
| | | | | | RPD | NC | NC |

MATRIX SPIKE RESULTS

| | | | | | | | |
|------------------|----------------------|----------|----------|------|-----------|----------|----------|
| Amount Spiked | | | | | | 5.90 | 5.64 |
| 2070*2 | BLUE-TA-S45-33 (2.0) | 07/24/03 | 07/26/03 | 95.6 | 082203MEB | 0.0277 U | 0.0268 U |
| 2070*2 MS | | | | | | 5.47 | 5.2 |
| Amount Recovered | | | | | | 5.47 | 5.23 |
| Percent Recovery | | | | | | 93% | 93% |
| Amount Spiked | | | | | | 6.44 | 6.16 |
| 2070*2 | BLUE-TA-S45-33 (2.0) | 07/24/03 | 07/26/03 | 95.6 | 082203MEB | 0.0277 U | 0.0268 U |
| 2070*2 MSD | | | | | | 5.30 | 5.07 |
| Amount Recovered | | | | | | 5.30 | 5.07 |
| Percent Recovery | | | | | | 82% | 82% |
| | | | | | RPD | 12% | 12% |

- # Exceeds Data Quality Objective
- U Not detected at or above DL shown
- NA Not Analyzed/Not Applicable
- NC Not Calculated

| | | | |
|-----------------|------|----------------|------|
| Approvals: | | | |
| Project Manager | Date | QA/QC Reviewer | Date |

VOCs, SVOCs, TPH

| Matrix | % Solids | Method # | Parameter | Result | PQL | MDL | Flags | Units |
|--------|----------|----------|---------------------------|--------|------|-------|-------|-------|
| solid | 95.96 | SW8260 | Dibromofluoromethane | 99 | | | | % |
| solid | 95.96 | SW8260 | Fluorobenzene | 92.6 | | | | % |
| solid | 95.96 | SW8260 | Toluene-D8 | 93.4 | | | | % |
| solid | 95.96 | SW8260 | Ethylbenzene-d10 | 105 | | | | % |
| solid | 95.96 | SW8260 | Bromofluorobenzene | 107 | | | | % |
| solid | 95.96 | SW8260 | Trifluorotoluene | 97.3 | | | | % |
| solid | 95.96 | SW8260 | Dichlorodifluoromethane | ND | 1.07 | 0.534 | | ug/kg |
| solid | 95.96 | SW8260 | Chloromethane | ND | 1.07 | 0.534 | | ug/kg |
| solid | 95.96 | SW8260 | Vinyl chloride | ND | 1.07 | 0.534 | | ug/kg |
| solid | 95.96 | SW8260 | Bromomethane | ND | 5.34 | 2.67 | | ug/kg |
| solid | 95.96 | SW8260 | Chloroethane | ND | 1.07 | 0.534 | | ug/kg |
| solid | 95.96 | SW8260 | Trichlorofluoromethane | ND | 1.07 | 0.534 | | ug/kg |
| solid | 95.96 | SW8260 | 1,1-Dichloroethene | ND | 1.07 | 0.534 | | ug/kg |
| solid | 95.96 | SW8260 | Methylene chloride | 1.68 | 1.07 | 0.534 | | ug/kg |
| solid | 95.96 | SW8260 | trans-1,2-Dichloroethene | ND | 1.07 | 0.534 | | ug/kg |
| solid | 95.96 | SW8260 | 1,1-Dichloroethane | ND | 1.07 | 0.534 | | ug/kg |
| solid | 95.96 | SW8260 | 2,2-Dichloropropane | ND | 1.07 | 0.534 | | ug/kg |
| solid | 95.96 | SW8260 | cis-1,2-Dichloroethene | ND | 1.07 | 0.534 | | ug/kg |
| solid | 95.96 | SW8260 | Bromochloromethane | ND | 1.07 | 0.534 | | ug/kg |
| solid | 95.96 | SW8260 | Chloroform | ND | 1.07 | 0.534 | | ug/kg |
| solid | 95.96 | SW8260 | 1,1,1-Trichloroethane | ND | 1.07 | 0.534 | | ug/kg |
| solid | 95.96 | SW8260 | Carbon Tetrachloride | ND | 1.07 | 0.534 | | ug/kg |
| solid | 95.96 | SW8260 | 1,1-Dichloropropene | ND | 1.07 | 0.534 | | ug/kg |
| solid | 95.96 | SW8260 | Benzene | ND | 1.07 | 0.534 | | ug/kg |
| solid | 95.96 | SW8260 | 1,2-Dichloroethane | ND | 1.07 | 0.534 | | ug/kg |
| solid | 95.96 | SW8260 | Trichloroethene | ND | 1.07 | 0.534 | | ug/kg |
| solid | 95.96 | SW8260 | 1,2-Dichloropropane | ND | 1.07 | 0.534 | | ug/kg |
| solid | 95.96 | SW8260 | Dibromomethane | ND | 1.07 | 0.534 | | ug/kg |
| solid | 95.96 | SW8260 | Bromodichloromethane | ND | 1.07 | 0.534 | | ug/kg |
| solid | 95.96 | SW8260 | cis-1,3-Dichloropropene | ND | 1.07 | 0.534 | | ug/kg |
| solid | 95.96 | SW8260 | Toluene | ND | 1.07 | 0.534 | | ug/kg |
| solid | 95.96 | SW8260 | trans-1,3-Dichloropropene | ND | 1.07 | 0.534 | | ug/kg |

| | | | | | | | |
|-------|-------|--------|-----------------------------|------|------|-------|-------|
| solid | 95.96 | SW8260 | 1,1,2-Trichloroethane | ND | 1.07 | 0.534 | ug/kg |
| solid | 95.96 | SW8260 | Tetrachloroethene | ND | 1.07 | 0.534 | ug/kg |
| solid | 95.96 | SW8260 | 1,3-Dichloropropane | ND | 1.07 | 0.534 | ug/kg |
| solid | 95.96 | SW8260 | Dibromochloromethane | ND | 1.07 | 0.534 | ug/kg |
| solid | 95.96 | SW8260 | 1,2-Dibromoethane | ND | 1.07 | 0.534 | ug/kg |
| solid | 95.96 | SW8260 | Chlorobenzene | ND | 1.07 | 0.534 | ug/kg |
| solid | 95.96 | SW8260 | Ethylbenzene | ND | 1.07 | 0.534 | ug/kg |
| solid | 95.96 | SW8260 | 1,1,1,2-Tetrachloroethane | ND | 1.07 | 0.534 | ug/kg |
| solid | 95.96 | SW8260 | m,p-Xylene | ND | 2.14 | 1.07 | ug/kg |
| solid | 95.96 | SW8260 | o-Xylene | ND | 1.07 | 0.534 | ug/kg |
| solid | 95.96 | SW8260 | Styrene | ND | 1.07 | 0.534 | ug/kg |
| solid | 95.96 | SW8260 | Bromoform | ND | 1.07 | 0.534 | ug/kg |
| solid | 95.96 | SW8260 | Isopropylbenzene | ND | 1.07 | 0.534 | ug/kg |
| solid | 95.96 | SW8260 | Bromobenzene | ND | 1.07 | 0.534 | ug/kg |
| solid | 95.96 | SW8260 | n-Propylbenzene | ND | 1.07 | 0.534 | ug/kg |
| solid | 95.96 | SW8260 | 1,1,2,2-Tetrachloroethane | ND | 1.07 | 0.534 | ug/kg |
| solid | 95.96 | SW8260 | 1,2,3-Trichloropropane | ND | 1.07 | 0.534 | ug/kg |
| solid | 95.96 | SW8260 | 2-Chlorotoluene | ND | 1.07 | 0.534 | ug/kg |
| solid | 95.96 | SW8260 | 1,3,5-Trimethylbenzene | ND | 1.07 | 0.534 | ug/kg |
| solid | 95.96 | SW8260 | 4-Chlorotoluene | ND | 1.07 | 0.534 | ug/kg |
| solid | 95.96 | SW8260 | t-Butylbenzene | ND | 1.07 | 0.534 | ug/kg |
| solid | 95.96 | SW8260 | 1,2,4-Trimethylbenzene | ND | 1.07 | 0.534 | ug/kg |
| solid | 95.96 | SW8260 | sec-Butylbenzene | ND | 1.07 | 0.534 | ug/kg |
| solid | 95.96 | SW8260 | 1,3-Dichlorobenzene | ND | 1.07 | 0.534 | ug/kg |
| solid | 95.96 | SW8260 | 4-Isopropyltoluene | ND | 1.07 | 0.534 | ug/kg |
| solid | 95.96 | SW8260 | 1,4-Dichlorobenzene | ND | 1.07 | 0.534 | ug/kg |
| solid | 95.96 | SW8260 | n-Butylbenzene | ND | 1.07 | 0.534 | ug/kg |
| solid | 95.96 | SW8260 | 1,2-Dichlorobenzene | ND | 1.07 | 0.534 | ug/kg |
| solid | 95.96 | SW8260 | 1,2-Dibromo-3-chloropropane | ND | 2.14 | 1.07 | ug/kg |
| solid | 95.96 | SW8260 | 1,2,4-Trichlorobenzene | ND | 1.07 | 0.534 | ug/kg |
| solid | 95.96 | SW8260 | Hexachlorobutadiene | ND | 1.07 | 0.534 | ug/kg |
| solid | 95.96 | SW8260 | Naphthalene | ND | 1.07 | 0.534 | ug/kg |
| solid | 95.96 | SW8260 | 1,2,3-Trichlorobenzene | ND | 1.07 | 0.534 | ug/kg |
| solid | 93.39 | SW8260 | Dibromofluoromethane | 101 | | | % |
| solid | 93.39 | SW8260 | Fluorobenzene | 93.8 | | | % |
| solid | 93.39 | SW8260 | Toluene-D8 | 93.6 | | | % |
| solid | 93.39 | SW8260 | Ethylbenzene-d10 | 106 | | | % |
| solid | 93.39 | SW8260 | Bromofluorobenzene | 105 | | | % |
| solid | 93.39 | SW8260 | Trifluorotoluene | 99.8 | | | % |
| solid | 93.39 | SW8260 | Dichlorodifluoromethane | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | Chloromethane | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | Vinyl chloride | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | Bromomethane | ND | 5.4 | 2.7 | ug/kg |

| | | | | | | | |
|-------|-------|--------|---------------------------|------|------|------|-------|
| solid | 93.39 | SW8260 | Chloroethane | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | Trichlorofluoromethane | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | 1,1-Dichloroethene | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | Methylene chloride | 1.77 | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | trans-1,2-Dichloroethene | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | 1,1-Dichloroethane | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | 2,2-Dichloropropane | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | cis-1,2-Dichloroethene | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | Bromochloromethane | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | Chloroform | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | 1,1,1-Trichloroethane | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | Carbon Tetrachloride | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | 1,1-Dichloropropene | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | Benzene | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | 1,2-Dichloroethane | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | Trichloroethene | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | 1,2-Dichloropropane | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | Dibromomethane | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | Bromodichloromethane | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | cis-1,3-Dichloropropene | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | Toluene | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | trans-1,3-Dichloropropene | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | 1,1,2-Trichloroethane | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | Tetrachloroethene | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | 1,3-Dichloropropane | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | Dibromochloromethane | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | 1,2-Dibromoethane | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | Chlorobenzene | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | Ethylbenzene | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | 1,1,1,2-Tetrachloroethane | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | m,p-Xylene | ND | 2.16 | 1.08 | ug/kg |
| solid | 93.39 | SW8260 | o-Xylene | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | Styrene | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | Bromoform | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | Isopropylbenzene | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | Bromobenzene | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | n-Propylbenzene | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | 1,1,2,2-Tetrachloroethane | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | 1,2,3-Trichloropropane | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | 2-Chlorotoluene | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | 1,3,5-Trimethylbenzene | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | 4-Chlorotoluene | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | t-Butylbenzene | ND | 1.08 | 0.54 | ug/kg |

| | | | | | | | |
|-------|-------|---------|-----------------------------|------|------|------|-------|
| solid | 93.39 | SW8260 | 1,2,4-Trimethylbenzene | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | sec-Butylbenzene | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | 1,3-Dichlorobenzene | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | 4-Isopropyltoluene | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | 1,4-Dichlorobenzene | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | n-Butylbenzene | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | 1,2-Dichlorobenzene | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | 1,2-Dibromo-3-chloropropane | ND | 2.16 | 1.08 | ug/kg |
| solid | 93.39 | SW8260 | 1,2,4-Trichlorobenzene | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | Hexachlorobutadiene | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | Naphthalene | ND | 1.08 | 0.54 | ug/kg |
| solid | 93.39 | SW8260 | 1,2,3-Trichlorobenzene | ND | 1.08 | 0.54 | ug/kg |
| solid | 95.96 | SW8270C | 2 - Fluorophenol | 5.06 | | X9 | % |
| solid | 95.96 | SW8270C | Phenol - d5 | 4.48 | | X9 | % |
| solid | 95.96 | SW8270C | Nitrobenzene - d5 | 102 | | | % |
| solid | 95.96 | SW8270C | 2 - Fluorobiphenyl | 105 | | | % |
| solid | 95.96 | SW8270C | 2,4,6 - Tribromophenol | 1.5 | | X9 | % |
| solid | 95.96 | SW8270C | p - Terphenyl - d14 | 111 | | | % |
| solid | 95.96 | SW8270C | Phenol | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | bis(2-Chloroethyl)ether | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | 2-Chlorophenol | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | 1,3-Dichlorobenzene | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | 1,4-Dichlorobenzene | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | Benzyl Alcohol | ND | 130 | 65 | ug/kg |
| solid | 95.96 | SW8270C | 1,2-Dichlorobenzene | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | 2-Methylphenol | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | bis(2-Chloroisopropyl)ether | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | 3-&4-Methylphenol | ND | 208 | 104 | ug/kg |
| solid | 95.96 | SW8270C | N-nitroso-di-n-propylamine | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | Hexachloroethane | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | Nitrobenzene | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | Isophorone | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | 2-Nitrophenol | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | 2,4-Dimethylphenol | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | Benzoic Acid | ND | 520 | 260 | ug/kg |
| solid | 95.96 | SW8270C | bis(2-Chloroethoxy)methane | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | 2,4-Dichlorophenol | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | 1,2,4-Trichlorobenzene | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | Naphthalene | ND | 26 | 5.2 | ug/kg |
| solid | 95.96 | SW8270C | 4-Chloroaniline | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | Hexachlorobutadiene | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | 4-Chloro-3-methylphenol | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | 2-Methylnaphthalene | ND | 26 | 13 | ug/kg |

| | | | | | | | |
|-------|-------|---------|----------------------------|------|------|------|------------|
| solid | 95.96 | SW8270C | Hexachlorocyclopentadiene | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | 2,4,6-Trichlorophenol | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | 2,4,5-Trichlorophenol | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | 2-Chloronaphthalene | ND | 10.4 | 5.2 | ug/kg |
| solid | 95.96 | SW8270C | 2-Nitroaniline | ND | 26 | 13 | ug/kg |
| solid | 95.96 | SW8270C | Dimethylphthalate | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | Acenaphthylene | ND | 26 | 13 | ug/kg |
| solid | 95.96 | SW8270C | 2,6-Dinitrotoluene | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | 3-Nitroaniline | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | Acenaphthene | ND | 26 | 13 | ug/kg |
| solid | 95.96 | SW8270C | 2,4-Dinitrophenol | ND | 520 | 260 | ug/kg |
| solid | 95.96 | SW8270C | 4-Nitrophenol | ND | 663 | 332 | ug/kg |
| solid | 95.96 | SW8270C | Dibenzofuran | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | 2,4-Dinitrotoluene | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | Diethylphthalate | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | 4-Chlorophenylphenylether | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | Fluorene | ND | 26 | 13 | ug/kg |
| solid | 95.96 | SW8270C | 4-Nitroaniline | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | 4,6-Dinitro-2-methylphenol | ND | 520 | 260 | ug/kg |
| solid | 95.96 | SW8270C | N-Nitrosodiphenylamine | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | 4-Bromophenylphenylether | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | Hexachlorobenzene | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | Pentachlorophenol | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | Phenanthrene | ND | 26 | 13 | ug/kg |
| solid | 95.96 | SW8270C | Anthracene | ND | 26 | 13 | ug/kg |
| solid | 95.96 | SW8270C | Di-n-butylphthalate | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | Fluoranthene | ND | 26 | 13 | ug/kg |
| solid | 95.96 | SW8270C | Pyrene | ND | 26 | 13 | ug/kg |
| solid | 95.96 | SW8270C | Butylbenzylphthalate | ND | 130 | 65 | ug/kg |
| solid | 95.96 | SW8270C | 3,3'-Dichlorobenzidine | ND | 208 | 104 | ug/kg |
| solid | 95.96 | SW8270C | Benzo(a)anthracene | ND | 26 | 13 | ug/kg |
| solid | 95.96 | SW8270C | Chrysene | ND | 26 | 13 | ug/kg |
| solid | 95.96 | SW8270C | bis(2-Ethylhexyl)phthalate | 66 | 104 | 52 | J B1 ug/kg |
| solid | 95.96 | SW8270C | Di-n-octylphthalate | ND | 104 | 52 | ug/kg |
| solid | 95.96 | SW8270C | Benzofluoranthenes | ND | 52 | 26 | ug/kg |
| solid | 95.96 | SW8270C | Benzo(a)pyrene | ND | 13.7 | 6.83 | ug/kg |
| solid | 95.96 | SW8270C | Indeno(1,2,3-cd)pyrene | ND | 26 | 13 | ug/kg |
| solid | 95.96 | SW8270C | Dibenz(a,h)anthracene | ND | 26 | 13 | ug/kg |
| solid | 95.96 | SW8270C | Benzo(g,h,i)perylene | ND | 26 | 13 | ug/kg |
| solid | 93.39 | SW8270C | 2 - Fluorophenol | 59.1 | | | % |
| solid | 93.39 | SW8270C | Phenol - d5 | 67.7 | | | % |
| solid | 93.39 | SW8270C | Nitrobenzene - d5 | 97.5 | | | % |
| solid | 93.39 | SW8270C | 2 - Fluorobiphenyl | 103 | | | % |

| | | | | | | | |
|-------|-------|---------|-----------------------------|------|------|------|-------|
| solid | 93.39 | SW8270C | 2,4,6 - Tribromophenol | 62.8 | | | % |
| solid | 93.39 | SW8270C | p - Terphenyl - d14 | 111 | | | % |
| solid | 93.39 | SW8270C | Phenol | ND | 106 | 53.2 | ug/kg |
| solid | 93.39 | SW8270C | bis(2-Chloroethyl)ether | ND | 106 | 53.2 | ug/kg |
| solid | 93.39 | SW8270C | 2-Chlorophenol | ND | 106 | 53.2 | ug/kg |
| solid | 93.39 | SW8270C | 1,3-Dichlorobenzene | ND | 106 | 53.2 | ug/kg |
| solid | 93.39 | SW8270C | 1,4-Dichlorobenzene | ND | 106 | 53.2 | ug/kg |
| solid | 93.39 | SW8270C | Benzyl Alcohol | ND | 133 | 66.5 | ug/kg |
| solid | 93.39 | SW8270C | 1,2-Dichlorobenzene | ND | 106 | 53.2 | ug/kg |
| solid | 93.39 | SW8270C | 2-Methylphenol | ND | 106 | 53.2 | ug/kg |
| solid | 93.39 | SW8270C | bis(2-Chloroisopropyl)ether | ND | 106 | 53.2 | ug/kg |
| solid | 93.39 | SW8270C | 3-&4-Methylphenol | ND | 213 | 106 | ug/kg |
| solid | 93.39 | SW8270C | N-nitroso-di-n-propylamine | ND | 106 | 53.2 | ug/kg |
| solid | 93.39 | SW8270C | Hexachloroethane | ND | 106 | 53.2 | ug/kg |
| solid | 93.39 | SW8270C | Nitrobenzene | ND | 106 | 53.2 | ug/kg |
| solid | 93.39 | SW8270C | Isophorone | ND | 106 | 53.2 | ug/kg |
| solid | 93.39 | SW8270C | 2-Nitrophenol | ND | 106 | 53.2 | ug/kg |
| solid | 93.39 | SW8270C | 2,4-Dimethylphenol | ND | 106 | 53.2 | ug/kg |
| solid | 93.39 | SW8270C | Benzoic Acid | ND | 532 | 266 | ug/kg |
| solid | 93.39 | SW8270C | bis(2-Chloroethoxy)methane | ND | 106 | 53.2 | ug/kg |
| solid | 93.39 | SW8270C | 2,4-Dichlorophenol | ND | 106 | 53.2 | ug/kg |
| solid | 93.39 | SW8270C | 1,2,4-Trichlorobenzene | ND | 106 | 53.2 | ug/kg |
| solid | 93.39 | SW8270C | Naphthalene | ND | 26.6 | 5.32 | ug/kg |
| solid | 93.39 | SW8270C | 4-Chloroaniline | ND | 106 | 53.2 | ug/kg |
| solid | 93.39 | SW8270C | Hexachlorobutadiene | ND | 106 | 53.2 | ug/kg |
| solid | 93.39 | SW8270C | 4-Chloro-3-methylphenol | ND | 106 | 53.2 | ug/kg |
| solid | 93.39 | SW8270C | 2-Methylnaphthalene | ND | 26.6 | 13.3 | ug/kg |
| solid | 93.39 | SW8270C | Hexachlorocyclopentadiene | ND | 106 | 53.2 | ug/kg |
| solid | 93.39 | SW8270C | 2,4,6-Trichlorophenol | ND | 106 | 53.2 | ug/kg |
| solid | 93.39 | SW8270C | 2,4,5-Trichlorophenol | ND | 106 | 53.2 | ug/kg |
| solid | 93.39 | SW8270C | 2-Chloronaphthalene | ND | 10.6 | 5.32 | ug/kg |
| solid | 93.39 | SW8270C | 2-Nitroaniline | ND | 26.6 | 13.3 | ug/kg |
| solid | 93.39 | SW8270C | Dimethylphthalate | ND | 106 | 53.2 | ug/kg |
| solid | 93.39 | SW8270C | Acenaphthylene | ND | 26.6 | 13.3 | ug/kg |
| solid | 93.39 | SW8270C | 2,6-Dinitrotoluene | ND | 106 | 53.2 | ug/kg |
| solid | 93.39 | SW8270C | 3-Nitroaniline | ND | 106 | 53.2 | ug/kg |
| solid | 93.39 | SW8270C | Acenaphthene | ND | 26.6 | 13.3 | ug/kg |
| solid | 93.39 | SW8270C | 2,4-Dinitrophenol | ND | 532 | 266 | ug/kg |
| solid | 93.39 | SW8270C | 4-Nitrophenol | ND | 678 | 339 | ug/kg |
| solid | 93.39 | SW8270C | Dibenzofuran | ND | 106 | 53.2 | ug/kg |
| solid | 93.39 | SW8270C | 2,4-Dinitrotoluene | ND | 106 | 53.2 | ug/kg |
| solid | 93.39 | SW8270C | Diethylphthalate | ND | 106 | 53.2 | ug/kg |
| solid | 93.39 | SW8270C | 4-Chlorophenylphenylether | ND | 106 | 53.2 | ug/kg |

| | | | | | | | | | |
|-------|-------|---------|----------------------------|----|------|------|------|-------|-------|
| solid | 93.39 | SW8270C | Fluorene | ND | 26.6 | 13.3 | | ug/kg | |
| solid | 93.39 | SW8270C | 4-Nitroaniline | ND | 106 | 53.2 | | ug/kg | |
| solid | 93.39 | SW8270C | 4,6-Dinitro-2-methylphenol | ND | 532 | 266 | | ug/kg | |
| solid | 93.39 | SW8270C | N-Nitrosodiphenylamine | ND | 106 | 53.2 | | ug/kg | |
| solid | 93.39 | SW8270C | 4-Bromophenylphenylether | ND | 106 | 53.2 | | ug/kg | |
| solid | 93.39 | SW8270C | Hexachlorobenzene | ND | 106 | 53.2 | | ug/kg | |
| solid | 93.39 | SW8270C | Pentachlorophenol | ND | 106 | 53.2 | | ug/kg | |
| solid | 93.39 | SW8270C | Phenanthrene | ND | 26.6 | 13.3 | | ug/kg | |
| solid | 93.39 | SW8270C | Anthracene | ND | 26.6 | 13.3 | | ug/kg | |
| solid | 93.39 | SW8270C | Di-n-butylphthalate | ND | 106 | 53.2 | | ug/kg | |
| solid | 93.39 | SW8270C | Fluoranthene | ND | 26.6 | 13.3 | | ug/kg | |
| solid | 93.39 | SW8270C | Pyrene | ND | 26.6 | 13.3 | | ug/kg | |
| solid | 93.39 | SW8270C | Butylbenzylphthalate | ND | 133 | 66.5 | | ug/kg | |
| solid | 93.39 | SW8270C | 3,3'-Dichlorobenzidine | ND | 213 | 106 | | ug/kg | |
| solid | 93.39 | SW8270C | Benzo(a)anthracene | ND | 26.6 | 13.3 | | ug/kg | |
| solid | 93.39 | SW8270C | Chrysene | ND | 26.6 | 13.3 | | ug/kg | |
| solid | 93.39 | SW8270C | bis(2-Ethylhexyl)phthalate | | 104 | 106 | 53.2 | J B1 | ug/kg |
| solid | 93.39 | SW8270C | Di-n-octylphthalate | ND | 106 | 53.2 | | ug/kg | |
| solid | 93.39 | SW8270C | Benzofluoranthenes | ND | 53.2 | 26.6 | | ug/kg | |
| solid | 93.39 | SW8270C | Benzo(a)pyrene | ND | 14 | 6.98 | | ug/kg | |
| solid | 93.39 | SW8270C | Indeno(1,2,3-cd)pyrene | ND | 26.6 | 13.3 | | ug/kg | |
| solid | 93.39 | SW8270C | Dibenz(a,h)anthracene | ND | 26.6 | 13.3 | | ug/kg | |
| solid | 93.39 | SW8270C | Benzo(g,h,i)perylene | ND | 26.6 | 13.3 | | ug/kg | |
| solid | 95.96 | NWTPHDX | o-terphenyl | | 88.1 | | | % | |
| solid | 95.96 | NWTPHDX | #2 Diesel | ND | 24.9 | 12.5 | | mg/kg | |
| solid | 95.96 | NWTPHDX | Motor Oil | | 35.8 | 49.9 | 24.9 | J | mg/kg |
| solid | 93.39 | NWTPHDX | o-terphenyl | | 94.6 | | | % | |
| solid | 93.39 | NWTPHDX | #2 Diesel | ND | 25.9 | 12.9 | | mg/kg | |
| solid | 93.39 | NWTPHDX | Motor Oil | ND | 51.7 | 25.9 | | mg/kg | |

Appendix K

Quality Assurance/Quality Control Summary

APPENDIX K QUALITY ASSURANCE/QUALITY CONTROL SUMMARY

K.1 LABORATORY NARRATIVE REVIEW

A review of the laboratory narratives was completed and the following was determined.

1. STL Burlington noted in the narrative for Sample Delivery Group (SDG) GCD002 the following anomalies and following conclusions were made:
 - A) The serial dilution percent recovery for potassium in Sample GRAN-ST-RSD-53 (this is not a sample from Bluebird or Blackjack Mines but is part of this SDG) yielded a percent recovery marginally above the established control limit for potassium.
 - The results for potassium in 6 samples (BLUE-ST-PSD-05, BLUE-ST-PSD-05-100, BLUE-ST-PSD-06, BLUE-ST-PSD-07, BLUE-ST-PSD-08, and BLUE-ST-RSD-08) should be considered estimated.
 - B) The matrix spike (MS) percent recovery for antimony in Sample GRAN-ST-PSD-53 was below the laboratory control limits.
 - The results for antimony in 6 samples (BLUE-ST-PSD-05, BLUE-ST-PSD-05-100, BLUE-ST-PSD-06, BLUE-ST-PSD-07, BLUE-ST-PSD-08, and BLUE-ST-RSD-08) should be considered estimated.
 - C) The relative percent differences (RPDs) were outside the control limits for aluminum, barium, calcium, chromium, copper, iron, lead, magnesium, mercury, potassium, vanadium, and zinc in Sample GRAN-ST-PSD-53 (this is not a sample from Bluebird or Blackjack Mines, but is part of this SDG).
 - The results for aluminum, barium, calcium, chromium, copper, iron, lead, magnesium, mercury, vanadium, and zinc in 6 samples (BLUE-ST-PSD-05, BLUE-ST-PSD-05-100, BLUE-ST-PSD-06, BLUE-ST-PSD-07, BLUE-ST-PSD-08, and BLUE-ST-RSD-08) should be considered estimated.
 - The data user should note that the results for potassium were previously considered estimated due to the exceedance of the serial dilution recovery criteria.
 2. STL Burlington noted in the narrative for SDG GCD003 the following anomalies and following conclusions were made:
 - A) The RPD for Total Organic Carbon (TOC) by Lloyd Kahn was outside the control limit.
 - The results for TOC by Lloyd Kahn in 13 samples (BLAC-AD-SSD-11, BLAC-PD-SSD-10, BLAC-PD-SSD-41, BLAC-PD-SSD-43, BLAC-ST-PSD-01, BLAC-ST-PSD-02, BLAC-ST-PSD-03, BLAC-ST-PSD-04, BLAC-ST-PSD-42, BLAC-ST-RSD-02, BLAC-ST-RSD-04, BLAC-ST-RSD-42, and BLUE-PD-SSD-16) should be considered estimated.
-

- B) The MS recoveries for antimony, nickel, and selenium in Sample BLAC-ST-PSD-01 were outside the established control limits.
- The results for antimony and selenium in 13 samples (BLAC-AD-SSD-11, BLAC-PD-SSD-10, BLAC-PD-SSD-41, BLAC-PD-SSD-43, BLAC-ST-PSD-01, BLAC-ST-PSD-02, BLAC-ST-PSD-03, BLAC-ST-PSD-04, BLAC-ST-PSD-42, BLAC-ST-RSD-02, BLAC-ST-RSD-04, BLAC-ST-RSD-42, and BLUE-PD-SSD-16) should be considered estimated.
 - The results for nickel in 12 samples (BLAC-AD-SSD-11, BLAC-PD-SSD-41, BLAC-PD-SSD-43, BLAC-ST-PSD-01, BLAC-ST-PSD-02, BLAC-ST-PSD-03, BLAC-ST-PSD-04, BLAC-ST-PSD-42, BLAC-ST-RSD-02, BLAC-ST-RSD-04, BLAC-ST-RSD-42, and BLUE-PD-SSD-16) should be considered estimated.
- C) The RPDs for aluminum, arsenic, calcium, chromium, lead, magnesium, and vanadium in Sample BLAC-ST-PSD-01 were outside the control limits.
- The results for aluminum, arsenic, lead, and vanadium in 13 samples (BLAC-AD-SSD-11, BLAC-PD-SSD-10, BLAC-PD-SSD-41, BLAC-PD-SSD-43, BLAC-ST-PSD-01, BLAC-ST-PSD-02, BLAC-ST-PSD-03, BLAC-ST-PSD-04, BLAC-ST-PSD-42, BLAC-ST-RSD-02, BLAC-ST-RSD-04, BLAC-ST-RSD-42, and BLUE-PD-SSD-16) should be considered estimated.
 - The results for calcium and magnesium in 12 samples (BLAC-AD-SSD-11, BLAC-PD-SSD-41, BLAC-PD-SSD-43, BLAC-ST-PSD-01, BLAC-ST-PSD-02, BLAC-ST-PSD-03, BLAC-ST-PSD-04, BLAC-ST-PSD-42, BLAC-ST-RSD-02, BLAC-ST-RSD-04, BLAC-ST-RSD-42, and BLUE-PD-SSD-16) should be considered estimated.
 - The results for chromium in 12 samples (BLAC-PD-SSD-10, BLAC-PD-SSD-41, BLAC-PD-SSD-43, BLAC-ST-PSD-01, BLAC-ST-PSD-02, BLAC-ST-PSD-03, BLAC-ST-PSD-04, BLAC-ST-PSD-42, BLAC-ST-RSD-02, BLAC-ST-RSD-04, BLAC-ST-RSD-42, and BLUE-PD-SSD-16) should be considered estimated.
- D) The narrative states that “the following samples displayed a severe negative interference (greater negative than –20 ppb) for thallium: BLAC-PD-SSD-41 and BLUE-PD-SSD-16. BLUE-PD-SSD-16 also displayed a negative interference (-15.45 ppb) for silver.”
- The results for thallium in 2 samples (BLAC-PD-SSD-41 and BLUE-PD-SSD-16) should be considered estimated.
 - The result for silver in Sample BLUE-PD-SSD-16 should be considered estimated.
3. STL Burlington noted in the narrative for SDG GCD004 the following anomalies and following conclusions were made:
- A) The RPDs for arsenic and manganese in Sample BLAC-ST-PSD-02A were outside the control limits.
- The results for arsenic and manganese in 8 samples (BLAC-ST-PSD-01A, BLAC-ST-PSD-02A, BLAC-ST-PSD-02A (100), BLAC-ST-PSD-03A, BLAC-ST-RSD-01A, BLAC-ST-RSD-02A, BLAC-ST-RSD-03A, and BLUE-ST-PSD-05A) should be considered estimated.
-

- B) The MS percent recoveries for antimony, barium, and nickel in Sample BLAC-ST-PSD-02A were outside the control limit.
- The results for antimony, barium, and nickel in 8 samples (BLAC-ST-PSD-01A, BLAC-ST-PSD-02A, BLAC-ST-PSD-02A (100), BLAC-ST-PSD-03A, BLAC-ST-RSD-01A, BLAC-ST-RSD-02A, BLAC-ST-RSD-03A, and BLUE-ST-PSD-05A) should be considered estimated.
- C) The MS percent recoveries for silver and mercury in the Synthetic Precipitation Leachate Procedure (SPLP) extract sample BLAC-ST-PSD-02A were outside the control limits. The laboratory suspects that the sample was spiked incorrectly for silver and that is why there was such a high recovery for silver.
- The results for mercury in 5 SPLP extract samples (BLAC-ST-PSD-01A SPLP, BLAC-ST-PSD-02A (100) SPLP, BLAC-ST-PSD-02A SPLP, BLAC-ST-PSD-03A SPLP, and BLUE-ST-PSD-05 SPLP) should be considered estimated.
 - Silver was not detected in any of the SPLP extract samples, therefore, the high recovery does not effect the data. The results for silver are usable as reported.
- D) The analyses for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), and total petroleum hydrocarbons (TPH)] were subcontracted to STL Seattle for this SDG.
- There were no anomalies noted for VOCs; the data are usable as reported.
 - There were no anomalies noted for TPH; the data are usable as reported.
 - The following anomalies were noted for SVOCs and the following conclusions were made:
 - a. The surrogate recoveries for 2 – Fluorophenol, Phenol - d5, and 2,4,6–Tribromophenol for sample BLUE-TA-SUS-32(1.5) were outside the control limits.
 - All of the results for SVOCs in sample BLUE-TA-SUS-32(1.5) should be considered estimated with the exception of bis(2-Ethylhexyl)phthalate .
 - b) The method blank for SVOCs contained bis(2-Ethylhexyl)phthalate .
 - The results for bis(2-Ethylhexyl)phthalate in 2 samples (BLUE-TA-SUS-32(1.5) and BLUE-TA-SUS-33(2.0) should be considered false-positive.
4. STL Burlington noted in the narrative for SDG GCS003 the following anomalies and following conclusions were made:
- A) The serial dilution percent differences for arsenic, chromium, lead, magnesium, manganese, nickel, potassium, selenium, vanadium, and zinc in Sample BLUE-AD-SSS-19(0.5) were above the control criteria.
- The results for arsenic, chromium, lead, magnesium, manganese, nickel, potassium, selenium, vanadium, and zinc in 8 samples (BLUE-AD-SSS-19(0.5), BLUE-WP-SUS-22(1.5), BLUE-TA-SSS-23(0.2), BLUE-TA-SSS-27(0.5), BLUE-TA-SUS-24(1.0), BLUE-WP-SUS-29(1.0), BLUE-WP-SUS-20(2.5), and BLUE-WP-SUS-21(1.5)) should be considered estimated.
-

- B) Cadmium displayed a negative interference (greater negative than -20 ppb) in Samples BLUE-AD-SSS-19(0.5) and BLUE-TA-SSS-23(0.2).
- The results for cadmium in the 2 samples (BLUE-AD-SSS-19(0.5) and BLUE-TA-SSS-23(0.2)) should be considered estimated.
- C) The analysis for hexavalent chromium was subcontracted to STL Chicago for this SDG. The quality control (QC) performed for hexavalent chromium were within the control limits with the exception of the laboratory control sample (LCS) recovery.
- The results for solid hexavalent chromium in 8 samples (BLUE-AD-SSS-19(0.5), BLUE-WP-SUS-22(1.5), BLUE-TA-SSS-23(0.2), BLUE-TA-SSS-27(0.5), BLUE-WP-SUS-21(1.5), BLUE-TA-SUS-24(1.0), BLUE-WP-SUS-29(1.0), and BLUE-WP-SUS-20(2.5)) should be considered estimated.
- D) The analysis for acid base accounting (ABA) was subcontracted to BC Research Inc. for this SDG and SDG GCS004. There were no anomalies noted for this analysis; the data are usable as reported.
5. STL Burlington noted in the narrative for SDG GCS004 the following anomalies and following conclusions were made:
- A) The serial dilution percent difference for lead in Sample CLEA-BG-SSS- 25(0.5) was above the control criteria.
- The results for lead in 8 samples (BLAC-PD-SSS-10(0.4), BLAC-TA-SUS-14(1.5), BLAC-TA-SUS-30(0.75), BLAC-TA-SUS-31(0.9), BLAC-WP-SUS-12(1.0), BLAC-WP-SUS-13(1.5), BLUE-TA-SUS-32(1.5), and BLUE-TA-SUS-33(2.0)) should be considered estimated.
- B) The MS recoveries for antimony and selenium in Sample CLEA-BG-SSS- 25(0.5) were below the control limits.
- The results for antimony and selenium in 8 samples (BLAC-PD-SSS-10(0.4), BLAC-TA-SUS-14(1.5), BLAC-TA-SUS-30(0.75), BLAC-TA-SUS-31(0.9), BLAC-WP-SUS-12(1.0), BLAC-WP-SUS-13(1.5), BLUE-TA-SUS-32(1.5), and BLUE-TA-SUS-33(2.0)) should be considered estimated.
- C) The RPD for iron in Sample CLEA-BG-SSS- 25(0.5) was above the established control limit.
- The results for iron in 8 samples (BLAC-PD-SSS-10(0.4), BLAC-TA-SUS-14(1.5), BLAC-TA-SUS-30(0.75), BLAC-TA-SUS-31(0.9), BLAC-WP-SUS-12(1.0), BLAC-WP-SUS-13(1.5), BLUE-TA-SUS-32(1.5), and BLUE-TA-SUS-33(2.0)) should be considered estimated.
- D) The analysis for hexavalent chromium was subcontracted to STL Chicago for this SDG. The following QC were outside the control limits:
-

- The LCS recovery for hexavalent chromium was outside the control limits.
 - The results for solid hexavalent chromium in 8 samples (BLAC-PD-SSS-10(0.4), BLAC-TA-SUS-14(1.5), BLAC-TA-SUS-30(0.75), BLAC-TA-SUS-31(0.9), BLAC-WP-SUS-12(1.0), BLAC-WP-SUS-13(1.5), BLUE-TA-SUS-32(1.5), and BLUE-TA-SUS-33(2.0)) should be considered estimated.
 - The MS recovery for hexavalent chromium was outside the control limits.
 - The data user should note that the results for hexavalent chromium in 8 samples (BLAC-PD-SSS-10(0.4), BLAC-TA-SUS-14(1.5), BLAC-TA-SUS-30(0.75), BLAC-TA-SUS-31(0.9), BLAC-WP-SUS-12(1.0), BLAC-WP-SUS-13(1.5), BLUE-TA-SUS-32(1.5), and BLUE-TA-SUS-33(2.0)) were previously considered estimated due to LCS recovery criteria.
6. STL Burlington noted in the narrative for SDG GCV002 the following anomalies and following conclusions were made:
- A) The serial dilution percent differences for potassium and zinc in Sample CLEA-BG-PLT-26 were above the control criteria.
- The results for potassium and zinc in 2 samples (BLAC-AD-PLT-11 and BLAC-WP-PLT-12) should be considered estimated.
7. STL Burlington noted in the narrative for SDG GCW005 the following anomalies and the following conclusions were made:
- A) There were no QC anomalies noted for this SDG by STL Burlington.
- NOTE: The laboratory incorrectly logged in Sample BLUE-PD-SFW-17 as BLUE-PO-SFW-17 and Sample BLUE-PD-SWF-19 was mislabeled in the field as BLUE-PD-SFW-40.
- B) Arsenic speciation was subcontracted to STL North Canton. STL North Canton had no anomalies noted in the narrative for this SDG; the data are usable as reported.
8. STL Burlington noted in the narrative for SDG GCW006 the following anomalies and the following conclusions were made:
- A) There were no QC anomalies noted for this SDG by STL Burlington.
- B) Arsenic speciation was subcontracted to STL North Canton. STL North Canton had no anomalies noted in the narrative for this SDG; the data are usable as reported.
9. STL Burlington noted in the narrative for SDG GCW007 the following anomalies and the following conclusions were made:
- A) Continuing calibration standard recoveries were outside the control limits for Alkalinity.
- The results for alkalinity in 2 samples (BLAC-ST-SFW-01 (100) and BLAC-ST-SFW-01) should be considered estimated.
-

- B) Arsenic speciation (arsenic III and arsenic V) was subcontracted to STL North Canton. STL North Canton had no anomalies noted in the narrative for this SDG; the data are usable as reported.
10. STL Burlington noted in the narrative for SDG GCW008 the following anomalies and the following conclusions were made:
- A) There were no QC anomalies noted for this SDG by STL Burlington.
- B) Arsenic speciation (arsenic III and arsenic V) was subcontracted to STL North Canton. STL North Canton had no anomalies noted in the narrative for this SDG; the data are usable as reported.
11. STL Burlington noted in the narrative for SDG GCW009 the following anomalies and the following conclusions were made:
- A) There were no QC anomalies noted for this SDG by STL Burlington.
- B) Arsenic speciation (arsenic III and arsenic V) was subcontracted to STL North Canton. STL North Canton had no anomalies noted in the narrative for this SDG; the data are usable as reported.
12. STL Burlington noted in the narrative for SDG GCW010 the following anomalies and the following conclusions were made:
- A) The MS recovery for selenium in Sample BLAC-ST-SFW-2A was below the control limits.
- The results for selenium in 16 samples (BLAC-RS-02, BLAC-RS-03, BLAC-ST-PWP-1A-F, BLAC-ST-PWP-2A-F, BLAC-ST-PWP-3A-F, BLAC-ST-SFW-1A, BLAC-ST-SFW-1A-F, BLAC-ST-SFW-2A, BLAC-ST-SFW-2A (100), BLAC-ST-SFW-2A-F (100), BLAC-ST-SFW-2A-F, BLAC-ST-SFW-3A, BLAC-ST-SFW-3A-F, BLUE-ST-PWP-5A-F, BLUE-ST-SFW-5A-F, and BLUE-ST-SFW-5A) should be considered estimated.
- A) The MS recovery for sulfate in Sample BLAC-ST-SFW-2A was below the control limits.
- The results for sulfate in 5 samples (BLUE-ST-SFW-5A, BLAC-ST-SFW-5A, BLAC-ST-SFW-2A, BLAC-ST-SFW-2A (100), and BLAC-ST-SFW-1A) should be considered estimated.
- B) The RPD for total dissolved solids in Sample BLAC-ST-SFW-2A was above the established control limit.
- The results for total dissolved solids in 9 samples (BLUE-ST-SFW-5A, BLUE-ST-PWP-5A, BLAC-ST-SFW-3A, BLAC-ST-PWP-3A, BLAC-ST-SFW-2A, BLAC-ST-PWP-2A, BLAC-ST-SFW-2A (100), BLAC-ST-SFW-1A, and BLAC-ST-PWP-1A) should be considered estimated.

These samples were not analyzed for the following parameters:

- Samples BLUE-PD-SSS-16 (0.5) and BLUE-TA-SUS-28 (1.0) appeared to have taken on water during transport. The analyses for these two samples were cancelled.
-

- Dissolved solids analysis was not performed on the following samples due to insufficient volume: BLUE-PD-SFW-16, BLAC-PD-SFW-41, BLUE-PD-SFW-18, BLAC-ST-SFW-04, BLAC-ST-SFW-42, BLAC-ST-SFW-02, BLAC-ST-SFW-03, and BLUE-AD-SFW-40.
- Sample BLAC-ST-SFW-01 (100) was not analyzed for: total solids, total dissolved solids, total volatile solids, conductivity, sulfate, and oxidation reduction potential due to insufficient volume.
- One of the sample bottles for Sample BLUE-ST-PSD-08 was broken during shipment; therefore, grain size was not analyzed due to insufficient volume.

K.2 DATA USABILITY

The following additional QC was accessed for data usability.

K.2.1 Holding Times

Holding times (defined as from date of sample collection to date of sample preparation/analyses) were compared against the maximum holding times identified in the quality control requirements of the referenced analytical methods. The holding times were met for all methods and sample matrixes with the exception of the following: mercury were analyzed 28 days outside of holding time criteria in 13 samples (BLAC-AD-SSD-11, BLAC-PD-SSD-10, BLAC-PD-SSD-41, BLAC-PD-SSD-43, BLAC-ST-PSD-01, BLAC-ST-PSD-02, BLAC-ST-PSD-03, BLAC-ST-PSD-04, BLAC-ST-PSD-42, BLAC-ST-RSD-02, BLAC-ST-RSD-04, BLAC-ST-RSD-42, and BLUE-PD-SSD-16). The results for mercury in samples BLAC-AD-SSD-11, BLAC-PD-SSD-10, BLAC-PD-SSD-41, BLAC-PD-SSD-43, BLAC-ST-PSD-01, BLAC-ST-PSD-02, BLAC-ST-PSD-03, BLAC-ST-PSD-04, BLAC-ST-PSD-42, BLAC-ST-RSD-02, BLAC-ST-RSD-04, BLAC-ST-RSD-42, and BLUE-PD-SSD-16 should be considered estimated.

K.2.2 Field Duplicates

Field duplicates were collected to evaluate the precision of sampling procedures and laboratory analyses. Precision between primary and duplicate field environmental samples is a maximum RPD of ± 30 percent for aqueous samples and ± 50 percent for soil samples. The following tables present a sample collection summary of the duplicate samples collected at the Bluebird and Blackjack Mine sites.

The following table shows the field duplicate sample results associated with SDG GCD004:

| Compound/Analytes | Units | BLAC-ST-PSD-02A | BLAC-ST-PSD-02A (100) | RPD % |
|-------------------|-------|-----------------|-----------------------|-------|
| Aluminum | mg/kg | 11,500 | 12,500 | 8.3 |
| Antimony | mg/kg | 1.9B | 2.2B | 14.6 |
| Arsenic | mg/kg | 48.6 | 58.5 | 18.5 |
| Barium | mg/kg | 80.1 | 85.5 | 6.5 |
| Beryllium | mg/kg | 0.43B | 0.44B | 2.3 |
| Cadmium | mg/kg | 0.075U | 0.12B | NC |
| Calcium | mg/kg | 2,510 | 2,820 | 11.6 |
| Chromium | mg/kg | 111 | 152 | 31.2 |
| Cobalt | mg/kg | 26.2 | 26.8 | 2.3 |
| Copper | mg/kg | 32.8 | 32.9 | 0.3 |
| Iron | mg/kg | 28,200 | 31,100 | 9.8 |
| Lead | mg/kg | 3.8 | 4.2 | 10 |
| Magnesium | mg/kg | 17,900 | 15,900 | 11.8 |

| Compound/Analytes | Units | BLAC-ST-PSD-02A | BLAC-ST-PSD-02A (100) | RPD % |
|-------------------|-------|--|-----------------------|-------|
| Manganese | mg/kg | 798 | 934 | 15.7 |
| Nickel | mg/kg | 193 | 178 | 8.1 |
| Potassium | mg/kg | 796 | 914 | 13.8 |
| Selenium | mg/kg | 0.49B | 0.57B | 15.1 |
| Silver | mg/kg | 0.27U | 0.29U | NC |
| Sodium | mg/kg | 123B | 169B | 31.5 |
| Thallium | mg/kg | 1.7 | 1.6 | 6.1 |
| Vanadium | mg/kg | 50.6 | 58.6 | 14.7 |
| Zinc | mg/kg | 54.5 | 57.9 | 6.0 |
| Mercury | mg/kg | 0.044 | 0.032B | 31.6 |
| Cyanide | mg/kg | 0.61U | 0.66U | NC |
| NOTE: U | = | Not detected. Sample quantitation limits are shown as (<_U). | | |
| B | = | Analyte concentration is between the Instrument Detection Limit and the Contract Required Detection Limit. | | |
| NC | = | Not calculated. | | |

All precision requirements were met for the field duplicate analyses; the results are usable as reported.

The following table shows the field duplicate sample results associated with the SPLP extract samples from SDG GCD004:

| Compound/Analytes | Units | BLAC-ST-PSD-02A SPLP | BLAC-ST-PSD-02A (100) SPLP | RPD % |
|-------------------|-------|----------------------|----------------------------|-------------|
| Aluminum | µg/L | 3,020 | 3,230 | 6.7 |
| Antimony | µg/L | 4.7U | 4.7U | NC |
| Arsenic | µg/L | 9.5B | 10.3 | 8.1 |
| Barium | µg/L | 168B | 102B | 48.9 |
| Beryllium | µg/L | 0.23B | 0.24B | 4.3 |
| Cadmium | µg/L | 0.6U | 0.6U | NC |
| Calcium | µg/L | 2,070B | 1,640B | 23.2 |
| Chromium | µg/L | 24.9 | 28.3 | 6.4 |
| Cobalt | µg/L | 3.7B | 4.4B | 17.3 |
| Copper | µg/L | 8.3B | 8.3B | 0 |
| Iron | µg/L | 4,910 | 5,490 | 11.2 |
| Lead | µg/L | 3.6 | 2.9B | 21.5 |
| Magnesium | µg/L | 3,310B | 3,170B | 4.3 |
| Manganese | µg/L | 149 | 161 | 7.7 |
| Nickel | µg/L | 36.1B | 39B | 7.7 |
| Potassium | µg/L | 393U | 393U | NC |
| Selenium | µg/L | 1.7U | 1.7U | NC |
| Silver | µg/L | 2.2U | 2.2U | NC |
| Sodium | µg/L | 12,200 | 35,800 | 98.3 |
| Thallium | µg/L | 6B | 5.7U | NC |
| Vanadium | µg/L | 9.7B | 10.2B | 5.0 |

| Compound/Analytes | Units | BLAC-ST-PSD-02A SPLP | BLAC-ST-PSD-02A (100) SPLP | RPD % |
|--|-------|----------------------|----------------------------|-------------|
| Zinc | µg/L | 86.2 | 37 | 79.9 |
| Mercury | µg/L | 10U | 10U | NC |
| NOTE: U = Not detected. Sample quantitation limits are shown as (<__U). | | | | |
| B = Analyte concentration is between the Instrument Detection Limit and the Contract Required Detection Limit. | | | | |
| NC = Not calculated. | | | | |
| Results in bold indicate an exceedance of the precision requirements. | | | | |

All precision requirements were met for the field duplicate analyses with the exception of barium, sodium, and zinc. The positive results for barium, sodium, and zinc should be considered estimated in samples BLAC-ST-PSD-02A SPLP and BLAC-ST-PSD-02A (100) SPLP.

The following table shows the field duplicate sample results associated with the filtered samples from SDG GCW007:

| Compound/Analytes | Units | BLAC-ST-SFW-01 | BLAC-ST-SFW-01 (100) | RPD % |
|--|-------|----------------|----------------------|-------|
| Aluminum | µg/L | 23.6U | 23.6U | NC |
| Antimony | µg/L | 4.7U | 4.7U | NC |
| Arsenic | µg/L | 4.9B | 4.8U | NC |
| Barium | µg/L | 13.5B | 13.4B | 0.7 |
| Beryllium | µg/L | 0.2U | 0.2U | NC |
| Cadmium | µg/L | 0.6U | 0.6U | NC |
| Calcium | µg/L | 11,400 | 11,300 | 0.9 |
| Chromium | µg/L | 1.4U | 1.4U | NC |
| Cobalt | µg/L | 2U | 2U | NC |
| Copper | µg/L | 2.4U | 2.4U | NC |
| Iron | µg/L | 33.3U | 33.3U | NC |
| Lead | µg/L | 1.3U | 1.3U | NC |
| Magnesium | µg/L | 6,920 | 6,860 | 0.87 |
| Manganese | µg/L | 1.9B | 2B | 5.1 |
| Nickel | µg/L | 2.1U | 2.1U | NC |
| Potassium | µg/L | 991B | 970B | 2.1 |
| Selenium | µg/L | 3.4U | 3.4U | NC |
| Silver | µg/L | 2.2U | 2.2U | NC |
| Sodium | µg/L | 2,290B | 1,990B | 14.0 |
| Thallium | µg/L | 5.7U | 5.7U | NC |
| Vanadium | µg/L | 2U | 2U | NC |
| Zinc | µg/L | 1.4B | 1U | NC |
| Mercury | µg/L | 0.1U | 0.1U | NC |
| NOTE: U = Not detected. Sample quantitation limits are shown as (<__U). | | | | |
| B = Analyte concentration is between the Instrument Detection Limit and the Contract Required Detection Limit. | | | | |
| NC = Not calculated. | | | | |

All precision requirements were met for the filtered field duplicate analyses; the results are usable as reported.

The following table shows the field duplicate sample results associated with the unfiltered samples from SDG GCW007:

| Compound/Analytes | Units | BLAC-ST-SFW-01 | BLAC-ST-SFW-01 (100) | RPD % |
|--|----------|----------------|----------------------|-------------|
| Aluminum | µg/L | 23.6U | 31.2B | NC |
| Antimony | µg/L | 4.7U | 4.7U | NC |
| Arsenic | µg/L | 4.8U | 4.8U | NC |
| Barium | µg/L | 13.7B | 14.1B | 2.9 |
| Beryllium | µg/L | 0.2U | 0.2U | NC |
| Cadmium | µg/L | 0.6U | 0.6U | NC |
| Calcium | µg/L | 11,200 | 11,500 | 2.6 |
| Chromium | µg/L | 1.4U | 1.4U | NC |
| Cobalt | µg/L | 2U | 2U | NC |
| Copper | µg/L | 2.4U | 2.4U | NC |
| Iron | µg/L | 39.6B | 54.4B | 31.5 |
| Lead | µg/L | 1.3U | 1.3U | NC |
| Magnesium | µg/L | 6,800 | 7,000 | 2.9 |
| Manganese | µg/L | 3.9B | 4.5B | 14.3 |
| Nickel | µg/L | 2.1U | 2.1U | NC |
| Potassium | µg/L | 1,010B | 1,130B | 11.2 |
| Selenium | µg/L | 3.4U | 3.4U | NC |
| Silver | µg/L | 2.2U | 2.2U | NC |
| Sodium | µg/L | 2,110B | 2,130B | 0.9 |
| Thallium | µg/L | 5.7U | 5.7U | NC |
| Vanadium | µg/L | 2U | 2U | NC |
| Zinc | µg/L | 1.5B | 1U | NC |
| Mercury | µg/L | 0.1U | 0.1U | NC |
| Cyanide | µg/L | 10U | 10U | NC |
| Arsenic (III) | µg/L | 2U | 2U | NC |
| Arsenic (V) | µg/L | 2.9 | 2.4 | 18.9 |
| Corrosivity by pH | pH Units | 7.8 | 7.8 | 0 |
| NOTE: U = Not detected. Sample quantitation limits are shown as (<__U). | | | | |
| B = Analyte concentration is between the Instrument Detection Limit and the Contract Required Detection Limit. | | | | |
| NC = Not calculated. | | | | |
| Results in bold indicate an exceedance of the precision requirements. | | | | |

All precision requirements were met for the field duplicate analyses with the exception of iron. The positive results for iron should be considered estimated in the unfiltered samples BLAC-ST-SFW- 01 and BLAC-ST-SFW-01 (100).

The following table shows the field duplicate sample results associated with the filtered samples from SDG GCW010:

| Compound/Analytes | Units | BLAC-ST-SFW-02A | BLAC-ST-SFW-02A (100) | RPD % |
|-------------------|-------|-----------------|-----------------------|-------|
| Aluminum | µg/L | 23.6U | 23.6U | NC |
| Antimony | µg/L | 4.7U | 4.7U | NC |
| Arsenic | µg/L | 4.8U | 4.8U | NC |
| Barium | µg/L | 16B | 15.2B | 5.1 |
| Beryllium | µg/L | 0.2U | 0.2U | NC |
| Cadmium | µg/L | 0.6U | 0.6U | NC |
| Calcium | µg/L | 13,400 | 13,100 | 2.3 |
| Chromium | µg/L | 1.4U | 1.4U | NC |

| Compound/Analytes | Units | BLAC-ST-SFW-02A | BLAC-ST-SFW-02A (100) | RPD % |
|--|-------|-----------------|-----------------------|-------------|
| Cobalt | µg/L | 2U | 2U | NC |
| Copper | µg/L | 2.4U | 2.4U | NC |
| Iron | µg/L | 33.3U | 33.3U | NC |
| Lead | µg/L | 1.3U | 1.3U | NC |
| Magnesium | µg/L | 7,710 | 7,560 | 2.0 |
| Manganese | µg/L | 4.2B | 4.1B | 2.4 |
| Nickel | µg/L | 2.1U | 2.1U | NC |
| Potassium | µg/L | 1,220B | 1,210B | 0.8 |
| Selenium | µg/L | 3.4U | 3.4U | NC |
| Silver | µg/L | 2.2U | 2.2U | NC |
| Sodium | µg/L | 2,720B | 2,600B | 4.5 |
| Thallium | µg/L | 5.7U | 5.7U | NC |
| Vanadium | µg/L | 2U | 2U | NC |
| Zinc | µg/L | 3.9B | 2.5B | 43.7 |
| Mercury | µg/L | 0.1U | 0.1U | NC |
| NOTE: U = Not detected. Sample quantitation limits are shown as (<_U). | | | | |
| B = Analyte concentration is between the Instrument Detection Limit and the Contract Required Detection Limit. | | | | |
| NC = Not calculated. | | | | |
| Results in bold indicate an exceedance of the precision requirements. | | | | |

All precision requirements were met for the filtered field duplicate analyses with the exception of zinc. The positive results for zinc should be considered estimated in filtered samples BLAC-ST-SFW-02A and BLAC-ST-SFW-02A (100).

The following table shows the field duplicate sample results associated with the unfiltered samples from SDG GCW010:

| Compound/Analytes | Units | BLAC-ST-SFW-02A | BLAC-ST-SFW-02A (100) | RPD % |
|-------------------|-------|-----------------|-----------------------|-------------|
| Aluminum | µg/L | 23.6U | 23.6U | NC |
| Antimony | µg/L | 4.7U | 4.7U | NC |
| Arsenic | µg/L | 4.8U | 4.8U | NC |
| Barium | µg/L | 15.7B | 16.2B | 3.1 |
| Beryllium | µg/L | 0.2U | 0.2U | NC |
| Cadmium | µg/L | 0.6U | 0.6U | NC |
| Calcium | µg/L | 13,200 | 13,600 | 3.0 |
| Chromium | µg/L | 1.4U | 1.4U | NC |
| Cobalt | µg/L | 2U | 2U | NC |
| Copper | µg/L | 2.4U | 2.5B | NC |
| Iron | µg/L | 34.1B | 54.5B | 46.0 |
| Lead | µg/L | 1.3U | 1.3U | NC |
| Magnesium | µg/L | 7,620 | 7,860 | 3.1 |
| Manganese | µg/L | 6B | 6.5B | 8 |
| Nickel | µg/L | 2.1U | 2.1U | NC |
| Potassium | µg/L | 1,200B | 1,270B | 5.7 |
| Selenium | µg/L | 4.5B | 3.4U | NC |
| Silver | µg/L | 2.2U | 2.2U | NC |
| Sodium | µg/L | 2730B | 2870B | 5 |
| Thallium | µg/L | 5.7U | 5.7U | NC |

| Compound/Analytes | Units | BLAC-ST-SFW-02A | BLAC-ST-SFW-02A (100) | RPD % |
|--|----------|-----------------|-----------------------|--------------|
| Vanadium | µg/L | 2U | 2U | NC |
| Zinc | µg/L | 2.4B | 9.7B | 120.7 |
| Mercury | µg/L | 0.1U | 0.1U | NC |
| Cyanide | µg/L | 10U | 10U | NC |
| Arsenic (III) | µg/L | 2U | 2U | NC |
| Arsenic (V) | µg/L | 2.3 | 2.7 | 16 |
| Corrosivity by pH | pH Units | 8.2 | 8.3 | 1.2 |
| NOTE: U = Not detected. Sample quantitation limits are shown as (<_U). | | | | |
| B = Analyte concentration is between the Instrument Detection Limit and the Contract Required Detection Limit. | | | | |
| NC = Not calculated. | | | | |
| Results in bold indicate an exceedance of the precision requirements. | | | | |

All precision requirements were met for the unfiltered field duplicate analyses with the exception of iron and zinc. The positive results for iron and zinc should be considered estimated in the unfiltered samples BLAC-ST-SFW-02A and BLAC-ST-SFW-02A (100).

The following table shows the field duplicate sample results associated with SDG GCD002:

| Compound/Analytes | Units | BLUE-ST-PSD-05 | BLUE-ST-PSD-05 (100) | RPD % |
|--|-------|----------------|----------------------|-------------|
| Aluminum | mg/kg | 14,900 | 14,200 | 4.8 |
| Antimony | mg/kg | 1.2B | 1.2B | 0 |
| Arsenic | mg/kg | 19.4 | 22.7 | 15.7 |
| Barium | mg/kg | 73.1 | 73.4 | 0.4 |
| Beryllium | mg/kg | 0.36B | 0.38B | 5.4 |
| Cadmium | mg/kg | 0.059U | 0.059U | NC |
| Calcium | mg/kg | 4,180 | 2,710 | 42.7 |
| Chromium | mg/kg | 86.1 | 101 | 15.9 |
| Cobalt | mg/kg | 20.7 | 15.9 | 26.2 |
| Copper | mg/kg | 28.8 | 36.5 | 23.6 |
| Iron | mg/kg | 28,100 | 28,500 | 1.4 |
| Lead | mg/kg | 3.6 | 4.9 | 30.6 |
| Magnesium | mg/kg | 11,500 | 11,200 | 2.6 |
| Manganese | mg/kg | 665 | 531 | 22.4 |
| Nickel | mg/kg | 111 | 107 | 3.7 |
| Potassium | mg/kg | 808 | 949 | 16.1 |
| Selenium | mg/kg | 0.52 | 0.49 | 5.9 |
| Silver | mg/kg | 0.22U | 0.22U | NC |
| Sodium | mg/kg | 226B | 254B | 11.7 |
| Thallium | mg/kg | 0.93B | 0.84B | 10.2 |
| Vanadium | mg/kg | 52.2 | 49.3 | 5.7 |
| Zinc | mg/kg | 56.2 | 62.4 | 10.5 |
| Mercury | mg/kg | 0.38 | 0.13 | 98.0 |
| Cyanide | mg/kg | 0.52 | 0.5U | NC |
| NOTE: U = Not detected. Sample quantitation limits are shown as (<_U). | | | | |
| B = Analyte concentration is between the Instrument Detection Limit and the Contract Required Detection Limit. | | | | |
| NC = Not calculated. | | | | |
| Results in bold indicate an exceedance of the precision requirements. | | | | |

All precision requirements were met for the field duplicate analyses with the exception of mercury. The positive results for mercury should be considered estimated in samples BLUE-ST-PSD-05 and BLUE-ST-PSD-05 (100).

The following table shows the field duplicate sample results associated with the filtered samples from SDG GCW006:

| Compound/Analytes | Units | BLUE-ST-SFW-05 | BLUE-ST-SFW-05 (100) | RPD % |
|--|-------|----------------|----------------------|--------------|
| Aluminum | µg/L | 20.9B | 64.9B | 102.6 |
| Antimony | µg/L | 4.7B | 3.8U | NC |
| Arsenic | µg/L | 2.4U | 2.4U | NC |
| Barium | µg/L | 14.6B | 14.9B | 2.0 |
| Beryllium | µg/L | 0.2U | 0.2U | NC |
| Cadmium | µg/L | 0.3U | 0.3U | NC |
| Calcium | µg/L | 11,500 | 11,900 | 3.4 |
| Chromium | µg/L | 0.6U | 0.6U | NC |
| Cobalt | µg/L | 1.8U | 1.8U | NC |
| Copper | µg/L | 1.4U | 1.4U | NC |
| Iron | µg/L | 16.8U | 16.8U | NC |
| Lead | µg/L | 1.5U | 1.5U | NC |
| Magnesium | µg/L | 6,520 | 6,760 | 3.6 |
| Manganese | µg/L | 11.8B | 11.8B | 0 |
| Nickel | µg/L | 2U | 2U | NC |
| Potassium | µg/L | 1,170B | 1,040B | 11.8 |
| Selenium | µg/L | 1.7U | 1.7U | NC |
| Silver | µg/L | 0.9U | 0.9U | NC |
| Sodium | µg/L | 2,660B | 2,650B | 0.4 |
| Thallium | µg/L | 2.8U | 2.8U | NC |
| Vanadium | µg/L | 2.2U | 2.6B | NC |
| Zinc | µg/L | 5.7U | 5.7U | NC |
| Mercury | µg/L | 0.1U | 0.11B | NC |
| NOTE: U = Not detected. Sample quantitation limits are shown as (<_U). | | | | |
| B = Analyte concentration is between the Instrument Detection Limit and the Contract Required Detection Limit. | | | | |
| NC = Not calculated. | | | | |
| Results in bold indicate an exceedance of the precision requirements. | | | | |

All precision requirements were met for the filtered field duplicate analyses with the exception of aluminum. The positive results for aluminum should be considered estimated in filtered samples BLUE-ST-SFW-05 and BLUE-ST-SFW-05 (100).

The following table shows the field duplicate sample results associated with the unfiltered samples from SDG GCW006:

| Compound/Analytes | Units | BLUE-ST-SFW-05 | BLUE-ST-SFW-05 (100) | RPD % |
|-------------------|-------|----------------|----------------------|-------------|
| Aluminum | µg/L | 49.6B | 51.6B | 3.9 |
| Antimony | µg/L | 6.1B | 4.3B | 34.6 |
| Arsenic | µg/L | 2.4U | 2.5B | NC |
| Barium | µg/L | 15.3B | 15.5B | 1.3 |
| Beryllium | µg/L | 0.28B | 0.2U | NC |

| Compound/Analytes | Units | BLUE-ST-SFW-05 | BLUE-ST-SFW-05 (100) | RPD % |
|---|----------|----------------|----------------------|-------|
| Cadmium | µg/L | 0.3U | 0.3U | NC |
| Calcium | µg/L | 11,900 | 12,200 | 2.5 |
| Chromium | µg/L | 0.6U | 0.6U | NC |
| Cobalt | µg/L | 1.8U | 1.8U | NC |
| Copper | µg/L | 1.4U | 1.4U | NC |
| Iron | µg/L | 53.2B | 43.3B | 20.5 |
| Lead | µg/L | 1.5U | 1.5U | NC |
| Magnesium | µg/L | 6,740 | 6,910 | 2.5 |
| Manganese | µg/L | 15.3 | 15.8 | 3.2 |
| Nickel | µg/L | 2U | 2U | NC |
| Potassium | µg/L | 1,150B | 1,150B | 0 |
| Selenium | µg/L | 1.7U | 1.7U | NC |
| Silver | µg/L | 0.9U | 0.9U | NC |
| Sodium | µg/L | 2,820B | 2,640B | 6.6 |
| Thallium | µg/L | 2.8U | 2.8U | NC |
| Vanadium | µg/L | 2.2U | 2.2U | NC |
| Zinc | µg/L | 5.7U | 5.7U | NC |
| Mercury | µg/L | 0.1U | 0.1U | NC |
| Cyanide | µg/L | 10U | 10U | NC |
| Arsenic (III) | µg/L | 2U | 2U | NC |
| Arsenic (V) | µg/L | 2U | 2 | NC |
| Corrosivity by pH | pH Units | 7.7 | 7.9 | 2.6 |
| NOTE: U = Not detected. Sample quantitation limits are shown as (<_U). B = Analyte concentration is between the Instrument Detection Limit and the Contract Required Detection Limit. NC = Not calculated. Results in bold indicate an exceedance of the precision requirements. | | | | |

All precision requirements were met for the unfiltered field duplicate analyses with the exception of antimony. The positive results for antimony should be considered estimated in the unfiltered samples BLUE-ST-SFW-05 and BLUE-ST-SFW-05 (100).

K.2.3 Equipment Rinsate Blanks

The following equipment rinsate blanks were collected:

- BLAC-RS-02: rinsate blank for the two pore water pushpoint samplers used during the Blackjack Spill Response.
- BLAC-RS-03: rinsate blank for the sediment sampling equipment used during the Blackjack Spill Response.
- GRAN-RS-01: associated with all non-dedicated equipment used during the Granite Creek field investigation.

The analytical results of the equipment rinsate blanks indicate very low levels of metals detected in 2 out of the 3 rinsate blanks (BLAC-RS-03 and GRAN-RS-01). BLAC-RS-03 contained copper (3.4B µg/L), lead (1.6B µg/L) and zinc (3.9B µg/L) and GRAN-RS-01 contained copper (3.8B µg/L), manganese (8.7B µg/L) and zinc (1.9B µg/L).

- Metals were also detected in BLAC-RS-02 at higher concentrations. This sample contained chromium (16.3 µg/L), copper (46.8 µg/L), iron (303 µg/L), manganese (10.3B µg/L), mercury (0.12B µg/L), nickel (32.1B µg/L), silver (2.8B µg/L), and zinc (45.1 µg/L).
 - The results for chromium, manganese, nickel, and zinc in filtered sample BLAC-ST-PWP-2A, nickel and zinc in filtered sample BLAC-ST-PWP-3A; iron, manganese, and zinc in filtered sample BLAC-ST-PWP-1A; and manganese and zinc in filtered sample BLUE-ST-PWP-5A should be considered false-positives due to the contaminants identified in the rinsate blank.
-