

Paragon Analytics

INORGANICS CASE NARRATIVE

Cordilleran Compliance Services, Inc.

Rulison Area Well monitoring

Order Number - 0811110

1. This report consists of 2 water samples.
2. The samples were received cool and intact on 11/14/08.
3. The samples had been correctly preserved for the requested analyses.
4. The samples were prepared for analysis based on SW-846, 3rd Edition procedures, Methods for the Chemical Analysis of Waters and Wastes (MCAWW), May 1994 procedures, and Environmental Monitoring Systems Laboratory (EMSL) Rev 2.1 procedures.
5. The samples were analyzed following SW-846, MCAWW, and EMSL procedures for the following methods:

| <u>Analyte</u> | <u>Method</u> | <u>SOP #</u> |
|----------------------|---------------|--------------|
| Alkalinity | 310.1 | 1106 Rev 7 |
| Bicarbonate | 310.1 | 1106 Rev 7 |
| Carbonate | 310.1 | 1106 Rev 7 |
| Ammonia as N | 350.1 | 1129 Rev 6 |
| Nitrate/nitrite as N | 353.2 | 1127 Rev 7 |
| pH | 9040B | 1126 Rev 16 |
| Total phosphorus | 365.2 | 1119 Rev 6 |
| TDS | 160.1 | 1101 Rev 10 |
| Bromide | 300.0 | 1113 Rev 11 |
| Chloride | 300.0 | 1113 Rev 11 |
| Fluoride | 300.0 | 1113 Rev 11 |
| Sulfate | 300.0 | 1113 Rev 11 |

6. All standards and solutions were used within their recommended shelf life.
7. The samples were prepared and analyzed within the established hold time for each analysis except pH. The samples were analyzed out of the Paragon established holding time.

All in house quality control procedures were followed, as described below.

8. General quality control procedures.

- A preparation (method) blank and laboratory control sample (LCS) were prepared and analyzed with the samples in each applicable preparation batch. There were not more than 20 samples in each preparation batch.
- The method blank associated with each applicable batch was below the reporting limit for the requested analytes. This indicates that no contaminants were introduced to the samples during preparation and analysis.
- The LCS was within the acceptance limits for each applicable analysis.
- All initial and continuing calibration blanks (ICB/CCB) associated with each applicable analytical batch were below the reporting limit for the requested analytes.
- All initial and continuing calibration verifications (ICV/CCV) associated with each applicable analytical batch were within the acceptance criteria for the requested analytes with the exception of CCV1 for fluoride on 11/19/08 which failed high. The samples bracketed by this CCV were below the reporting limit. A Non-Conformance Report (NCR) has been included to document this occurrence.

9. Matrix specific quality control procedures.

Per method requirements, matrix QC was performed for each analysis. Since a sample from this order number was not the selected quality control (QC) sample, matrix specific QC results are not included in this report.

10. Electrical conductivity screening indicated that the concentration of dissolved salts was high in the samples. Therefore, it was necessary to dilute the samples prior to injection into the ion chromatograph in order to minimize the amount of salts loaded into the analytical column.

It was necessary to further dilute the samples in order to bring the chloride concentrations into the analytical range of the ion chromatograph (IC).

It was necessary to dilute the samples in order to bring the ammonia as N concentrations into the analytical range of the flow injection analyzer (FIA).

It was necessary to dilute the samples in order to bring the total phosphorus concentrations into the analytical range of the spectrophotometer.

Reduced aliquots were taken of the samples for the alkalinity, bicarbonate, and carbonate analysis. Reporting limits were elevated accordingly.

Reduced aliquots were taken of the samples for the TDS analysis. Reporting limits were elevated accordingly.

11. Manual integrations are performed when needed to provide consistent and defensible data following the guidelines in Paragon Analytics Standard Operating Procedure 939 Revision 3. Whenever manual integrations are performed, before and after chromatograms of the peak that were manually integrated are included in the report along with the reason why the re-integration was necessary.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, Paragon Analytics certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Megan Johnson
Megan Johnson
Inorganics Primary Data Reviewer

12/9/08
Date

C. Chen
Inorganics Final Data Reviewer

12/8/08
Date

Inorganic Data Reporting Qualifiers

The following qualifiers are used by the laboratory when reporting results of inorganic analyses.

- Concentration qualifier -- If the analyte was analyzed for but not detected a "U" is entered.
- QC qualifier -- Specified entries and their meanings are as follows:

N - Spiked sample recovery not within control limits.

* - Duplicate analysis (relative percent difference) not within control limits.

Z - Calibration spike recovery not within control limits.

Paragon Analytics

Sample Number(s) Cross-Reference Table

Paragon OrderNum: 0811110

Client Name: Cordilleran Compliance Services, Inc.

Client Project Name: Rulison Area Well monitoring

Client Project Number:

Client PO Number:

| Client Sample Number | Lab Sample Number | COC Number | Matrix | Date Collected | Time Collected |
|----------------------|-------------------|------------|--------|----------------|----------------|
| A11-15D | 0811110-1 | | WATER | 13-Nov-08 | 8:40 |
| A11-15B | 0811110-2 | | WATER | 13-Nov-08 | 8:30 |

Chain of Custody

Paragon Analytics
A Division of DataChem Laboratories, Inc.

225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1522 Fax



Project Name/No.: RUSSEN AREA WELL Monitor(s): TPD Accession Number (Lab ID) 084110 Chain-of-Custody Date 11/13/08 Page 1 of 1 Originator: Retain pink copy!

Report To: JAMES HIX
Phone: (303) 237.2072
Fax: (303) 237.2659
E-mail: JamesHix@cordcomp.com
Company: CordCompliance Services, Inc.
Address: 4610 TABLE MOUNTAIN DR. # 200
GOLDEN, CO 80403

Circle method (right); provide additional information as needed (comments).

Circle method (right); provide additional information as needed (comments).

| Sample ID | Date | Time * | Lab ID | Matrix | Preservative (Indicate type... HCl, etc.) | No. of Containers | Turnaround (circle one) Standard or Rush (Due) | | | Dispose: Date _____ | Return to Client |
|------------|----------|--------|--------|--------|--|-------------------|---|------|-----|---------------------|------------------|
| | | | | | | | Standard | Rush | Due | | |
| A11 - 15 D | 11/13/08 | 0840 | 1 | M | HCl | 17 | | | | | |
| A11 - 15 B | 11/13/08 | 0830 | 2 | M | " | 17 | | | | | |

* Time Zone: EST CST MST PST Matrix Key: O = oil, S = soil, NS = non-soil solid, W = water, L = liquid, E = extract, F = filter

Comments:

(2) Relinquished By:
Signature _____
Printed Name _____
Date _____ Time _____
Company _____

(1) Received By:
Signature _____
Printed Name _____
Date _____ Time _____
Company _____

(2) Received By:
Signature _____
Printed Name _____
Date _____ Time _____
Company _____

CONDITION OF SAMPLE UPON RECEIPT FORM

Paragon Analytics

Client: Cordilleran
Project Manager: LSWorkorder No: 0811 110
Initials: CH Date: 11-14-08

| | | | | |
|--|--|-----|-----------------|----|
| 1. Does this project require any special handling in addition to standard Paragon procedures? | YES | NO | | |
| 2. Are custody seals on shipping containers intact? | NONE | YES | NO | |
| 3. Are Custody seals on sample containers intact? | NONE | YES | NO | |
| 4. Is there a COC (Chain-of-Custody) present or other representative documents? | YES | NO | | |
| 5. Are the COC and bottle labels complete and legible? | YES | NO | | |
| 6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.) | YES | NO | | |
| 7. Were airbills / shipping documents present and/or removable? | DROP OFF | YES | NO | |
| 8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles) | N/A | YES | NO | |
| 9. Are all aqueous non-preserved samples pH 4-9? | N/A | YES | NO | |
| 10. Is there sufficient sample for the requested analyses? | YES | NO | | |
| 11. Were all samples placed in the proper containers for the requested analyses? | YES | NO | | |
| 12. Are all samples within holding times for the requested analyses? | YES | NO | | |
| 13. Were all sample containers received intact? (not broken or leaking, etc.) | YES | NO | | |
| 14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: <u>✓ < green pea</u> <u>> green pea</u> | N/A | YES | NO | |
| 15. Do perchlorate LCMS-MS samples have headspace? (at least 1/3 of container required) | N/A | YES | NO | |
| 16. Were samples checked for and free from the presence of residual chlorine? (Applicable when PM has indicated samples are from a chlorinated water source; note if field preservation with sodium thiosulfate was not observed.) | N/A | YES | NO | |
| 17. Were the samples shipped on ice? | YES | NO | | |
| 18. Were cooler temperatures measured at 0.1-6.0°C? | IR gun used*: #2 | #4 | RAD ONLY YES | NO |
| DOT Survey/ Acceptance Information | Cooler #: <u>1</u> Temperature (°C): <u>3.4</u> No. of custody seals on cooler: <u>1</u> External µR/hr reading: <u>14</u> Background µR/hr reading: <u>13</u> | | | |
| Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO / NA (If no, see Form 008.) | | | | |

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

Headspace Bottle # 1, 2, 3, 6, 7, 9
2 - 1, 2Slime layer in -1-15 • -1-16 (Organic?)If applicable, was the client contacted? YES / NO / NA Contact: J. Hix Date/Time: _____Project Manager Signature / Date: M. W/12/08

*IR Gun #2: Oakton. SN 29922500201-0066

*IR Gun #4: Oakton. SN 2372220101-0002

CONDITION OF SAMPLE UPON RECEIPT FORM

*Paragon Analytics*Client: Paragon Analytics
Project Manager: CSWorkorder No: 0811110
Initials: ao Date: 11-17-08

Additional Information:

Was the laboratory directed to proceed with the analysis of any samples yielding the presence of residual chlorine? YES / NO / NA

NOTE:

No pH adjustments shall be made without prior consent of Project Manager. After pH adjustments, hold metals and radchem samples ≥ 24 hrs. before analysis.

Was the pH of any sample adjusted by the laboratory? YES (See Table below) / NO

pH Excursion:

| Paragon Sample ID | Client Sample ID | Initial pH | Final pH | Reagent Used | Volume Added (mL) | Lot No. of Reagent | Requested Analysis | Initials / Date / Time |
|-------------------|------------------|------------|-----------|--------------|-------------------|--------------------|--------------------|------------------------|
| -1-12 | 7 | 1.6 | conc HNO3 | 1mL | | | | ao 11/17/08 10:30 |
| -1-15 | | | | | | | | |
| -1-16 | | | | | | | | |
| -1-17 | | | | | | | | |
| -2-12 | | | | | | | | |
| -2-15 | | | | | | | | |
| -2-16 | | | | | | | | |
| -2-17 | | ↓ | ↓ | ↓ | ↓ | | | ↓ |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

If applicable, was the client contacted? YES / NO / NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: ao 11/17/08

ORIGIN ID: GJTA (970) 270-2986
TIM DOBRANSKY
CORDILLERAN COMPLIANCE SERVICES, INC
B26 21 1/2 ROAD

Ship Date: 13NOV08
ActWgt: 20.0 LB MAN
System#: 390082/CAFE2358
Account: 5 235727234

GRAND JUNCTION, CO 81505
UNITED STATES US

TO

PARAGON ANALYTICS
225 COMMERCE DRIVE

(800) 443-1511

FedEx

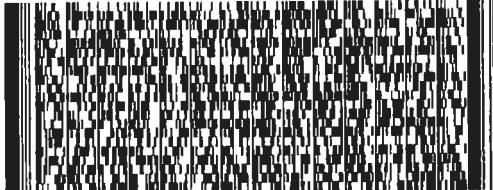
Express



CLS658107/22/23

FORT COLLINS, CO 80524

Ref: 8360



Delivery Address
Barcode

BILL SENDER

PRIORITY OVERNIGHT

FRI

Deliver By:
14NOV08

TRK# 9660 0451 2332 Form 0201

DEN AA

80524 -CO-US

72 FTCA



RT 611 A
FZ 2332
11.14

Sample Results

TOTAL ALKALINITY As CaCO₃

Method EPA310.1

Sample Results

Lab Name: Paragon Analytics

Client Name: Cordilleran Compliance Services, Inc.

Client Project ID: Rulison Area Well monitoring

Work Order Number: 0811110

Final Volume: 100 ml

Reporting Basis: As Received

Matrix: WATER

Prep Method: NONE

Result Units: MG/L

| Client Sample ID | Lab ID | Date Collected | Date Prepared | Date Analyzed | Percent Moisture | Dilution Factor | Result | Reporting Limit | Flag | Sample Aliquot |
|------------------|-----------|----------------|---------------|---------------|------------------|-----------------|--------|-----------------|------|----------------|
| A11-15D | 0811110-1 | 11/13/2008 | 11/18/2008 | 11/18/2008 | N/A | 1 | 1200 | 100 | | 5 ml |
| A11-15B | 0811110-2 | 11/13/2008 | 11/18/2008 | 11/18/2008 | N/A | 1 | 1300 | 100 | | 5 ml |

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: ak0811110-1

Date Printed: Wednesday, December 03, 2008

Paragon Analytics

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LIMS Version: 6.212A

AMMONIA AS N

Method EPA350.1

Sample Results

Lab Name: Paragon Analytics

Client Name: Cordilleran Compliance Services, Inc.

Client Project ID: Rulison Area Well monitoring

Work Order Number: 0811110

Final Volume: 5 ml

Reporting Basis: As Received

Matrix: WATER

Prep Method: NONE

Result Units: MG/L

| Client Sample ID | Lab ID | Date Collected | Date Prepared | Date Analyzed | Percent Moisture | Dilution Factor | Result | Reporting Limit | Flag | Sample Aliquot |
|------------------|-----------|----------------|---------------|---------------|------------------|-----------------|--------|-----------------|------|----------------|
| A11-15D | 0811110-1 | 11/13/2008 | 11/18/2008 | 11/18/2008 | N/A | 5 | 16 | 0.5 | | 5 ml |
| A11-15B | 0811110-2 | 11/13/2008 | 11/18/2008 | 11/18/2008 | N/A | 5 | 14 | 0.5 | | 5 ml |

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: nh0811110-1

Date Printed: Wednesday, December 03, 2008

Paragon Analytics

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LIMS Version: 6.212A

NITRATE/NITRITE AS N

Method EPA353.2 Revision 2.0

Sample Results

Lab Name: Paragon Analytics

Client Name: Cordilleran Compliance Services, Inc.

Client Project ID: Rulison Area Well monitoring

Work Order Number: 0811110

Final Volume: 5 ml

Reporting Basis: As Received

Matrix: WATER

Prep Method: NONE

Result Units: MG/L

| Client Sample ID | Lab ID | Date Collected | Date Prepared | Date Analyzed | Percent Moisture | Dilution Factor | Result | Reporting Limit | Flag | Sample Aliquot |
|------------------|-----------|----------------|---------------|---------------|------------------|-----------------|--------|-----------------|------|----------------|
| A11-15D | 0811110-1 | 11/13/2008 | 11/20/2008 | 11/20/2008 | N/A | 1 | 0.012 | 0.01 | | 5 ml |
| A11-15B | 0811110-2 | 11/13/2008 | 11/20/2008 | 11/20/2008 | N/A | 1 | 0.01 | 0.01 | U | 5 ml |

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: nn0811110-1

Date Printed: Wednesday, December 03, 2008

Paragon Analytics

LIMS Version: 6.212A

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pH in water @25 Degrees Celsius

Method SW9040B

Sample Results

Lab Name: Paragon Analytics

Client Name: Cordilleran Compliance Services, Inc.

Client Project ID: Rulison Area Well monitoring

Work Order Number: 0811110

Final Volume: 20 ml

Reporting Basis: As Received

Matrix: WATER

Prep Method: NONE

Result Units: pH

| Client Sample ID | Lab ID | Date Collected | Date Prepared | Date Analyzed | Percent Moisture | Dilution Factor | Result | Reporting Limit | Flag | Sample Aliquot |
|------------------|-----------|----------------|---------------|---------------|------------------|-----------------|--------|-----------------|------|----------------|
| A11-15D | 0811110-1 | 11/13/2008 | 11/18/2008 | 11/18/2008 | N/A | 1 | 6.61 | 0.1 | | 20 ml |
| A11-15B | 0811110-2 | 11/13/2008 | 11/18/2008 | 11/18/2008 | N/A | 1 | 6.77 | 0.1 | | 20 ml |

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: ph0811110-1

Date Printed: Wednesday, December 03, 2008

Paragon Analytics

LIMS Version: 6.212A

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TOTAL PHOSPHORUS

Method EPA365.2

Sample Results

Lab Name: Paragon Analytics

Client Name: Cordilleran Compliance Services, Inc.

Client Project ID: Rulison Area Well monitoring

Work Order Number: 0811110

Final Volume: 50 ml

Reporting Basis: As Received

Matrix: WATER

Prep Method: METHOD

Result Units: MG/L

| Client Sample ID | Lab ID | Date Collected | Date Prepared | Date Analyzed | Percent Moisture | Dilution Factor | Result | Reporting Limit | Flag | Sample Aliquot |
|------------------|-----------|----------------|---------------|---------------|------------------|-----------------|--------|-----------------|------|----------------|
| A11-15D | 0811110-1 | 11/13/2008 | 11/24/2008 | 11/24/2008 | N/A | 5 | 3.3 | 0.25 | | 50 ml |
| A11-15B | 0811110-2 | 11/13/2008 | 11/24/2008 | 11/24/2008 | N/A | 5 | 3.3 | 0.25 | | 50 ml |

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: po0811110-1

Date Printed: Wednesday, December 03, 2008

Paragon Analytics

LIMS Version: 6.212A

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TOTAL DISSOLVED SOLIDS

Method EPA160.1

Sample Results

Lab Name: Paragon Analytics

Client Name: Cordilleran Compliance Services, Inc.

Client Project ID: Rulison Area Well monitoring

Work Order Number: 0811110

Final Volume: 100 ml

Reporting Basis: As Received

Matrix: WATER

Prep Method: NONE

Result Units: MG/L

| Client Sample ID | Lab ID | Date Collected | Date Prepared | Date Analyzed | Percent Moisture | Dilution Factor | Result | Reporting Limit | Flag | Sample Aliquot |
|------------------|-----------|----------------|---------------|---------------|------------------|-----------------|--------|-----------------|------|----------------|
| A11-15D | 0811110-1 | 11/13/2008 | 11/17/2008 | 11/18/2008 | N/A | 1 | 19000 | 1000 | | 2 ml |
| A11-15B | 0811110-2 | 11/13/2008 | 11/17/2008 | 11/18/2008 | N/A | 1 | 20000 | 1000 | | 2 ml |

Comments:

-
1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: *td0811110-1*

Date Printed: Wednesday, December 03, 2008

Paragon Analytics

LIMS Version: 6.212A

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Ion Chromatography

Method EPA300.0 Revision 2.1 Sample Results

Lab Name: Paragon Analytics

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

ClientProject ID: Rulison Area Well monitoring

| | | | |
|--|--|---|---|
| Field ID: A11-15D Lab ID: 0811110-1 | Sample Matrix: WATER % Moisture: N/A Date Collected: 13-Nov-08 Date Extracted: 17-Nov-08 Date Analyzed: 19-Nov-08 Prep Method: NONE | Prep Batch: IC081117-1 QCBatchID: IC081117-1-1 Run ID: ic081119-1a Cleanup: NONE Basis: As Received File Name: 81119_012.DXD | Sample Aliquot: 5 ml Final Volume: 5 ml Result Units: MG/L Clean DF: 1 |
|--|--|---|---|

| CASNO | Target Analyte | Dilution Factor | Result | Reporting Limit | Result Qualifier | EPA Qualifier |
|------------|----------------|-----------------|--------|-----------------|------------------|---------------|
| 16984-48-8 | FLUORIDE | 50 | 5 | 5 | U | |
| 16887-00-6 | CHLORIDE | 1000 | 12000 | 200 | | |
| 24959-67-9 | BROMIDE | 50 | 93 | 10 | | |
| 14808-79-8 | SULFATE | 50 | 50 | 50 | U | |

Data Package ID: ic0811110-1

Date Printed: Wednesday, December 03, 2008

Paragon Analytics

LIMS Version: 6.212A

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Ion Chromatography

Method EPA300.0 Revision 2.1 Sample Results

Lab Name: Paragon Analytics

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

ClientProject ID: Rulison Area Well monitoring

| | | | |
|--|--|---|---|
| Field ID: A11-15B Lab ID: 0811110-2 | Sample Matrix: WATER % Moisture: N/A Date Collected: 13-Nov-08 Date Extracted: 17-Nov-08 Date Analyzed: 19-Nov-08 Prep Method: NONE | Prep Batch: IC081117-1 QCBatchID: IC081117-1-1 Run ID: ic081119-1a Cleanup: NONE Basis: As Received File Name: 81119_013.DXD | Sample Aliquot: 5 ml Final Volume: 5 ml Result Units: MG/L Clean DF: 1 |
|--|--|---|---|

| CASNO | Target Analyte | Dilution Factor | Result | Reporting Limit | Result Qualifier | EPA Qualifier |
|------------|----------------|-----------------|--------|-----------------|------------------|---------------|
| 16984-48-8 | FLUORIDE | 50 | 5 | 5 | U | |
| 16887-00-6 | CHLORIDE | 1000 | 13000 | 200 | | |
| 24959-67-9 | BROMIDE | 50 | 10 | 10 | U | |
| 14808-79-8 | SULFATE | 50 | 50 | 50 | U | |

Data Package ID: *ic0811110-1*

Date Printed: Wednesday, December 03, 2008

Paragon Analytics

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QC and Summary Report Forms

TOTAL ALKALINITY As CaCO₃

Method EPA310.1

Method Blank

Lab Name: Paragon Analytics

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

ClientProject ID: Rulison Area Well monitoring

Lab ID: AK081118-1MB

Sample Matrix: WATER
% Moisture: N/A

Prep Batch: AK081118-1
QCBatchID: AK081118-1-2
Run ID: ak081118-1a
Cleanup: NONE
Basis: N/A

Sample Aliquot: 100 ml
Final Volume: 100 ml
Result Units: MG/L

| Lab ID | Date Prepared | Date Analyzed | Percent Moisture | Dilution Factor | Result | Reporting Limit | Flag |
|--------------|---------------|---------------|------------------|-----------------|--------|-----------------|------|
| AK081118-1MB | 11/18/2008 | 11/18/2008 | N/A | 1 | 5 | 5 | U |

Comments:

- ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: ak0811110-1

Date Printed: Wednesday, December 03, 2008

Paragon Analytics

LIMS Version: 6.212A

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TOTAL ALKALINITY As CaCO₃

Method EPA310.1

Laboratory Control Sample

Lab Name: Paragon Analytics

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

ClientProject ID: Rulison Area Well monitoring

| | | | |
|-----------------------|---|---|--|
| Lab ID: AK081118-1LCS | Sample Matrix: WATER % Moisture: N/A Date Collected: N/A Date Extracted: 11/18/2008 Date Analyzed: 11/18/2008 | Prep Batch: AK081118-1 QCBatchID: AK081118-1-2 Run ID: ak081118-1a Cleanup: NONE Basis: N/A | Sample Aliquot: 100 ml Final Volume: 100 ml Result Units: MG/L |
|-----------------------|---|---|--|

| CASNO | Target Analyte | Spike Added | LCS Result | Reporting Limit | Result Qualifier | LCS % Rec. | Control Limits |
|---------|---------------------------------------|-------------|------------|-----------------|------------------|------------|----------------|
| 11-43-8 | TOTAL ALKALINITY As CaCO ₃ | 100 | 98.9 | 5 | | 99 | 85 - 115 |

Data Package ID: ak0811110-1

Date Printed: Wednesday, December 03, 2008

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TOTAL ALKALINITY AS CaCO₃

Method EPA310.1

Calibration Verifications

Lab Name: Paragon Analytics

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

ClientProject ID: Rulison Area Well monitoring

Run ID: AK081118-1A

Result Units: MG/L

| Lab ID | Verification Type | Date Analyzed | Time Analyzed | Spike Added | Result | Reporting Limit | Result Qualifier | % Rec. | Control Limits |
|--------|---------------------|---------------|---------------|-------------|--------|-----------------|------------------|--------|----------------|
| ICV | Initial Calibration | 11/18/2008 | | 100 | 99.4 | 5 | N/A | 99 | 85 - 115 |

Data Package ID: ak0811110-1

Date Printed: Wednesday, December 03, 2008

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TOTAL ALKALINITY AS CaCO₃

Method EPA310.1

Calibration Blanks

Lab Name: Paragon Analytics

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

Client Project ID: Rulison Area Well monitoring

Run ID: AK081118-1A

Result Units: MG/L

| Lab ID | Verification Type | Date Analyzed | Time Analyzed | Result | Reporting Limit | Flag |
|--------|---------------------|---------------|---------------|--------|-----------------|------|
| ICB | Initial Calibration | 11/18/2008 | | 5 | 5 | U |

Data Package ID: ak0811110-1

Date Printed: Wednesday, December 03, 2008

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LIMS Version: 6.212A

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Prep Batch ID: AK081118-1

Start Date: 11/18/08 End Date: 11/18/08 Concentration Method: NONE Batch Created By: JBM
Start Time: 12:30 End Time: 14:30 Extract Method: NONE Date Created: 11/18/08
Prep Analyst: Jason McNall Initial Volume Units: ml Time Created: 15:22
Comments: Final Volume Units: ml Validated By: JBM
Comments: ml Date Validated: 11/19/08
Time Validated: 16:32

QC Batch ID: AK081118-1-2

| Lab ID | QC Type | Field ID | Matrix | Date Collected | Initial Wt/Vol | Final Wt/Vol | Cleanup Method | Cleanup DF | Order Number |
|------------|---------|----------|--------|----------------|----------------|--------------|----------------|------------|--------------|
| AK081118-1 | MB | XXXXXX | WATER | XXXXXX | 100 | 100 | NONE | 1 | 0811099 |
| AK081118-1 | LCS | XXXXXX | WATER | XXXXXX | 100 | 100 | NONE | 1 | 0811099 |
| 0811099-3 | DUP | XXXXXX | WATER | XXXXXX | 1 | 100 | NONE | 1 | 0811099 |
| 0811099-3 | SMP | XXXXXX | WATER | XXXXXX | 1 | 100 | NONE | 1 | 0811099 |
| 0811110-1 | SMP | A11-15D | WATER | 11/13/2008 | 5 | 100 | NONE | 1 | 0811110 |
| 0811110-2 | SMP | A11-15B | WATER | 11/13/2008 | 5 | 100 | NONE | 1 | 0811110 |

QC Types

| | |
|-----|-----------------------------------|
| CAR | Carrier reference sample |
| LCS | Laboratory Control Sample |
| MB | Method Blank |
| MSD | Laboratory Matrix Spike Duplicate |
| SMP | Field Sample |

| | |
|------|------------------------------------|
| DUP | Laboratory Duplicate |
| LCSD | Laboratory Control Sample Duplicat |
| MS | Laboratory Matrix Spike |
| REP | Sample replicate |
| SYS | Sample Yield Spike |

AMMONIA AS N

Method EPA350.1

Method Blank

Lab Name: Paragon Analytics

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

ClientProject ID: Rulison Area Well monitoring

Lab ID: NH081118-1MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 18-Nov-08

Date Analyzed: 18-Nov-08

Prep Method: NONE

Prep Batch: NH081118-1

QCBatchID: NH081118-1-1

Run ID: nh081118-1a

Cleanup: NONE

Basis: N/A

File Name: 1118NH.FDT

Sample Aliquot: 5 ml

Final Volume: 5 ml

Result Units: MG/L

Clean DF: 1

| CASNO | Target Analyte | DF | Result | Reporting Limit | Result Qualifier | EPA Qualifier |
|-----------|----------------|----|--------|-----------------|------------------|---------------|
| 7664-41-7 | AMMONIA AS N | 1 | 0.1 | 0.1 | U | |

Data Package ID: nh0811110-1

Date Printed: Wednesday, December 03, 2008

Paragon Analytics

LIMS Version: 6.212A

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Ammonia as N
Method EPA350.1
Laboratory Control Sample

Lab Name: Paragon Analytics

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

ClientProject ID: Rulison Area Well monitoring

| Lab ID: NH081118-1LCS | Sample Matrix: WATER % Moisture: N/A Date Collected: N/A Date Extracted: 11/18/2008 Date Analyzed: 11/18/2008 Prep Method: NONE | Prep Batch: NH081118-1 QCBatchID: NH081118-1-1 Run ID: nh081118-1a Cleanup: NONE Basis: N/A File Name: 1118NH.FDT | Sample Aliquot: 5 ml Final Volume: 5 ml Result Units: MG/L Clean DF: 1 | | | | |
|------------------------------|---|---|---|-----------------|------------------|------------|----------------|
| <hr/> | | | | | | | |
| CASNO | Target Analyte | Spike Added | LCS Result | Reporting Limit | Result Qualifier | LCS % Rec. | Control Limits |
| 7664-41-7 | AMMONIA AS N | 1 | 0.983 | 0.1 | | 98 | 90 - 110% |

Data Package ID: nh0811110-1

Date Printed: Wednesday, December 03, 2008

Paragon Analytics
LIMS Version: 6.212A

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AMMONIA AS N

Method EPA350.1

Calibration Verifications

Lab Name: Paragon Analytics

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

ClientProject ID: Rulison Area Well monitoring

Run ID: nh081118-1a

Result Units: MG/L

| Lab ID | Verification Type | Date Analyzed | Time Analyzed | Spike Added | Result | Reporting Limit | Result Qualifier | % Rec. | Control Limits |
|--------|------------------------|---------------|---------------|-------------|--------|-----------------|------------------|--------|----------------|
| ICV | Initial Calibration | 11/18/2008 | 13:55 | 1 | 1.04 | 0.1 | N/A | 104 | 90 - 110 |
| CCV1 | Continuing Calibration | 11/18/2008 | 14:12 | 2 | 1.99 | 0.1 | N/A | 99 | 90 - 110 |

Data Package ID: nh0811110-1

Date Printed: Wednesday, December 03, 2008

Paragon Analytics

LIMS Version: 6.212A

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AMMONIA AS N

Method EPA350.1

Calibration Blanks

Lab Name: Paragon Analytics

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

Client Project ID: Rulison Area Well monitoring

Run ID: nh081118-1a

Result Units: MG/L

| Lab ID | Verification Type | Date Analyzed | Time Analyzed | Result | Reporting Limit | Flag |
|--------|------------------------|---------------|---------------|--------|-----------------|------|
| ICB | Initial Calibration | 11/18/2008 | 13:56 | 0.1 | 0.1 | U |
| CCB1 | Continuing Calibration | 11/18/2008 | 14:13 | 0.1 | 0.1 | U |

Data Package ID: nh0811110-1

Date Printed: Wednesday, December 03, 2008

Paragon Analytics
LIMS Version: 6.212A

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Prep Batch ID: NH081118-1

Start Date: 11/18/08

End Date: 11/18/08

Concentration Method: NONE

Batch Created By: PJW

Start Time: 10:00

End Time: 11:00

Extract Method: NONE

Date Created: 11/18/08

Prep Analyst: Peter Workman

Initial Volume Units: ml

Time Created: 13:47

Comments:

Final Volume Units: ml

Validated By: PJW

| |
|--|
| |
| |
| |

Date Validated: 11/18/08

Time Validated: 13:19

QC Batch ID: NH081118-1-1

| Lab ID | QC Type | Field ID | Matrix | Date Collected | Initial Wt/Vol | Final Wt/Vol | Cleanup Method | Cleanup DF | Order Number |
|------------|---------|----------|--------|----------------|----------------|--------------|----------------|------------|--------------|
| NH081118-1 | MB | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811129 |
| NH081118-1 | LCS | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811129 |
| 0811129-1 | MS | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811129 |
| 0811129-1 | MSD | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811129 |
| 0811110-1 | SMP | A11-15D | WATER | 11/13/2008 | 5 | 5 | NONE | 1 | 0811110 |
| 0811110-2 | SMP | A11-15B | WATER | 11/13/2008 | 5 | 5 | NONE | 1 | 0811110 |
| 0811129-1 | SMP | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811129 |

QC Types

| | |
|-----|-----------------------------------|
| CAR | Carrier reference sample |
| LCS | Laboratory Control Sample |
| MB | Method Blank |
| MSD | Laboratory Matrix Spike Duplicate |
| SMP | Field Sample |

| | |
|------|-------------------------------------|
| DUP | Laboratory Duplicate |
| LCSD | Laboratory Control Sample Duplicate |
| MS | Laboratory Matrix Spike |
| REP | Sample replicate |
| SYS | Sample Yield Spike |

Nitrate/Nitrite as N

Method EPA353.2 Revision 2.0

Method Blank

Lab Name: Paragon Analytics

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

ClientProject ID: Rulison Area Well monitoring

Lab ID: NN081120-1MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 20-Nov-08

Date Analyzed: 20-Nov-08

Prep Method: NONE

Prep Batch: NN081120-1

QCBatchID: NN081120-1-1

Run ID: nn081120-1a

Cleanup: NONE

Basis: N/A

File Name: 1120NOX.FDT

Sample Aliquot: 5 ml

Final Volume: 5 ml

Result Units: MG/L

Clean DF: 1

| CASNO | Target Analyte | DF | Result | Reporting Limit | Result Qualifier | EPA Qualifier |
|-------|----------------------|----|--------|-----------------|------------------|---------------|
| 1-005 | NITRATE/NITRITE AS N | 1 | 0.01 | 0.01 | U | |

Data Package ID: nn0811110-1

Date Printed: Wednesday, December 03, 2008

Paragon Analytics

LIMS Version: 6.212A

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Nitrate/Nitrite as N

Method EPA353.2 Revision 2.0 Laboratory Control Sample

Lab Name: Paragon Analytics

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

ClientProject ID: Rulison Area Well monitoring

| Lab ID: NN081120-1LCS | Sample Matrix: WATER % Moisture: N/A Date Collected: N/A Date Extracted: 11/20/2008 Date Analyzed: 11/20/2008 Prep Method: NONE | Prep Batch: NN081120-1 QCBatchID: NN081120-1-1 Run ID: nn081120-1a Cleanup: NONE Basis: N/A File Name: 1120NOX.FDT | Sample Aliquot: 5 ml Final Volume: 5 ml Result Units: MG/L Clean DF: 1 | | | | | | | | | | | | | | | | |
|--|--|---|---|-----------------|------------------|-------------|----------------|-----------------|------------------|------------|----------------|-------|----------------------|-----|-------|------|--|-----|-----------|
| <table border="1"><thead><tr><th>CASNO</th><th>Target Analyte</th><th>Spike Added</th><th>LCS Result</th><th>Reporting Limit</th><th>Result Qualifier</th><th>LCS % Rec.</th><th>Control Limits</th></tr></thead><tbody><tr><td>1-005</td><td>NITRATE/NITRITE AS N</td><td>0.5</td><td>0.525</td><td>0.01</td><td></td><td>105</td><td>90 - 110%</td></tr></tbody></table> | | | | CASNO | Target Analyte | Spike Added | LCS Result | Reporting Limit | Result Qualifier | LCS % Rec. | Control Limits | 1-005 | NITRATE/NITRITE AS N | 0.5 | 0.525 | 0.01 | | 105 | 90 - 110% |
| CASNO | Target Analyte | Spike Added | LCS Result | Reporting Limit | Result Qualifier | LCS % Rec. | Control Limits | | | | | | | | | | | | |
| 1-005 | NITRATE/NITRITE AS N | 0.5 | 0.525 | 0.01 | | 105 | 90 - 110% | | | | | | | | | | | | |

Data Package ID: nn0811110-1

Date Printed: Wednesday, December 03, 2008

Paragon Analytics

LIMS Version: 6.212A

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NITRATE/NITRITE AS N

Method EPA353.2

Calibration Verifications

Lab Name: Paragon Analytics

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

ClientProject ID: Rulison Area Well monitoring

Run ID: nn081120-1a

Result Units: MG/L

| Lab ID | Verification Type | Date Analyzed | Time Analyzed | Spike Added | Result | Reporting Limit | Result Qualifier | % Rec. | Control Limits |
|--------|------------------------|---------------|---------------|-------------|--------|-----------------|------------------|--------|----------------|
| ICV | Initial Calibration | 11/20/2008 | 14:48 | 0.5 | 0.528 | 0.01 | N/A | 106 | 90 - 110 |
| CCV1 | Continuing Calibration | 11/20/2008 | 15:00 | 1 | 1.01 | 0.01 | N/A | 101 | 90 - 110 |
| CCV2 | Continuing Calibration | 11/20/2008 | 15:11 | 1 | 1.01 | 0.01 | N/A | 101 | 90 - 110 |
| CCV3 | Continuing Calibration | 11/20/2008 | 15:26 | 1 | 1.02 | 0.01 | N/A | 102 | 90 - 110 |

Data Package ID: nn0811110-1

Date Printed: Wednesday, December 03, 2008

Paragon Analytics

LIMS Version: 6.212A

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NITRATE/NITRITE AS N

Method EPA353.2

Calibration Blanks

Lab Name: Paragon Analytics

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

ClientProject ID: Rulison Area Well monitoring

Run ID: nn081120-1a

Result Units: MG/L

| Lab ID | Verification Type | Date Analyzed | Time Analyzed | Result | Reporting Limit | Flag |
|--------|------------------------|---------------|---------------|--------|-----------------|------|
| ICB | Initial Calibration | 11/20/2008 | 14:49 | 0.01 | 0.01 | U |
| CCB1 | Continuing Calibration | 11/20/2008 | 15:00 | 0.01 | 0.01 | U |
| CCB2 | Continuing Calibration | 11/20/2008 | 15:12 | 0.01 | 0.01 | U |
| CCB3 | Continuing Calibration | 11/20/2008 | 15:27 | 0.01 | 0.01 | U |

Data Package ID: nn0811110-1

Date Printed: Wednesday, December 03, 2008

Paragon Analytics

LIMS Version: 6.212A

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Prep Batch ID: NN081120-1

Start Date: 11/20/08 End Date: 11/20/08 Concentration Method: NONE Batch Created By: PJW
 Start Time: 11:00 End Time: 12:00 Extract Method: NONE Date Created: 11/20/08
 Prep Analyst: Peter Workman Initial Volume Units: ml Time Created: 15:45
Comments: Final Volume Units: ml Validated By: PJW
 _____ Date Validated: 11/20/08
 _____ Time Validated: 14:53

QC Batch ID: NN081120-1-1

| Lab ID | QC Type | Field ID | Matrix | Date Collected | Initial Wt/Vol | Final Wt/Vol | Cleanup Method | Cleanup DF | Order Number |
|------------|---------|----------|--------|----------------|----------------|--------------|----------------|------------|--------------|
| NN081120-1 | MB | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811128 |
| NN081120-1 | LCS | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811128 |
| 0811128-1 | MS | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811128 |
| 0811128-1 | MSD | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811128 |
| 0811110-1 | SMP | A11-15D | WATER | 11/13/2008 | 5 | 5 | NONE | 1 | 0811110 |
| 0811110-2 | SMP | A11-15B | WATER | 11/13/2008 | 5 | 5 | NONE | 1 | 0811110 |
| 0811122-1 | SMP | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811122 |
| 0811122-10 | SMP | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811122 |
| 0811122-11 | SMP | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811122 |
| 0811122-12 | SMP | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811122 |
| 0811122-2 | SMP | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811122 |
| 0811122-3 | SMP | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811122 |
| 0811122-4 | SMP | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811122 |
| 0811122-5 | SMP | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811122 |
| 0811122-6 | SMP | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811122 |
| 0811122-7 | SMP | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811122 |
| 0811122-8 | SMP | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811122 |
| 0811122-9 | SMP | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811122 |
| 0811128-1 | SMP | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811128 |
| 0811132-1 | SMP | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811132 |
| 0811132-2 | SMP | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811132 |
| 0811132-3 | SMP | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811132 |

PH
Method SW9040
Calibration Verifications

Lab Name: Paragon Analytics

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

ClientProject ID: Rulison Area Well monitoring

Run ID: ph081118-1a

Result Units: pH

| Lab ID | Verification Type | Date Analyzed | Time Analyzed | Spike Added | Result | Reporting Limit | Result Qualifier | % Rec. | Control Limits |
|--------|------------------------|---------------|---------------|-------------|--------|-----------------|------------------|--------|----------------|
| ICV | Initial Calibration | 11/18/2008 | | 7 | 6.98 | 0.1 | N/A | | 6.95 - 7.05 |
| CCV1 | Continuing Calibration | 11/18/2008 | | 7 | 6.92 | 0.1 | N/A | | 6.9 - 7.1 |

Data Package ID: ph0811110-1

Date Printed: Wednesday, December 03, 2008

Paragon Analytics

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Prep Batch ID: PH081118-1

| | | | |
|----------------------------|--------------------|----------------------------|--------------------------|
| Start Date: 11/18/08 | End Date: 11/18/08 | Concentration Method: NONE | Batch Created By: JBM |
| Start Time: 9:00 | End Time: 13:30 | Extract Method: NONE | Date Created: 11/18/08 |
| Prep Analyst: Jason McNall | | Initial Volume Units: ml | Time Created: 10:53 |
| <u>Comments:</u> | | Final Volume Units: ml | Validated By: JBM |
| | | | Date Validated: 11/19/08 |
| | | | Time Validated: 16:32 |

QC Batch ID: PH081118-1-1

| Lab ID | QC Type | Field ID | Matrix | Date Collected | Initial Wt/Vol | Final Wt/Vol | Cleanup Method | Cleanup DF | Order Number |
|-----------|---------|----------|--------|----------------|----------------|--------------|----------------|------------|--------------|
| 0811129-1 | DUP | XXXXXX | WATER | XXXXXX | 20 | 20 | NONE | 1 | 0811129 |
| 0811110-1 | SMP | A11-15D | WATER | 11/13/2008 | 20 | 20 | NONE | 1 | 0811110 |
| 0811110-2 | SMP | A11-15B | WATER | 11/13/2008 | 20 | 20 | NONE | 1 | 0811110 |
| 0811129-1 | SMP | XXXXXX | WATER | XXXXXX | 20 | 20 | NONE | 1 | 0811129 |

QC Types

| | |
|-----|-----------------------------------|
| CAR | Carrier reference sample |
| LCS | Laboratory Control Sample |
| MB | Method Blank |
| MSD | Laboratory Matrix Spike Duplicate |
| SMP | Field Sample |

| | |
|------|------------------------------------|
| DUP | Laboratory Duplicate |
| LCSD | Laboratory Control Sample Duplicat |
| MS | Laboratory Matrix Spike |
| REP | Sample replicate |
| SYS | Sample Yield Spike |

Total Phosphorus as P

Method EPA365.2

Method Blank

Lab Name: Paragon Analytics

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

ClientProject ID: Rulison Area Well monitoring

Lab ID: PO081124-1MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 24-Nov-08

Date Analyzed: 24-Nov-08

Prep Method: METHOD

Prep Batch: PO081124-1

QCBatchID: PO081124-1-1

Run ID: po081124-1a

Cleanup: NONE

Basis: N/A

File Name: Manual Entry

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: MG/L

Clean DF: 1

| CASNO | Target Analyte | DF | Result | Reporting Limit | Result Qualifier | EPA Qualifier |
|-----------|------------------|----|--------|-----------------|------------------|---------------|
| 7723-14-0 | TOTAL PHOSPHORUS | 1 | 0.05 | 0.05 | U | |

Data Package ID: po0811110-1

Date Printed: Wednesday, December 03, 2008

Paragon Analytics

LIMS Version: 6.212A

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Total Phosphorus as P

Method EPA365.2

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: Paragon Analytics

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

ClientProject ID: Rulison Area Well monitoring

| | | | |
|-----------------------|--|--|---|
| Lab ID: PO081124-1LCS | Sample Matrix: WATER % Moisture: N/A Date Collected: N/A Date Extracted: 11/24/2008 Date Analyzed: 11/24/2008 Prep Method: METHOD | Prep Batch: PO081124-1 QCBatchID: PO081124-1-1 Run ID: po081124-1a Cleanup: NONE Basis: N/A File Name: Manual Entry | Sample Aliquot: 50 ml Final Volume: 50 ml Result Units: MG/L Clean DF: 1 |
|-----------------------|--|--|---|

| CASNO | Target Analyte | Spike Added | LCS Result | Reporting Limit | Result Qualifier | LCS % Rec. | Control Limits |
|-----------|------------------|-------------|------------|-----------------|------------------|------------|----------------|
| 7723-14-0 | TOTAL PHOSPHORUS | 0.5 | 0.551 | 0.05 | | 110 | 80 - 120% |

| | | | |
|------------------------|--|--|---|
| Lab ID: PO081124-1LCSD | Sample Matrix: WATER % Moisture: N/A Date Collected: N/A Date Extracted: 11/24/2008 Date Analyzed: 11/24/2008 Prep Method: METHOD | Prep Batch: PO081124-1 QCBatchID: PO081124-1-1 Run ID: po081124-1a Cleanup: NONE Basis: N/A File Name: Manual Entry | Sample Aliquot: 50 ml Final Volume: 50 ml Result Units: MG/L Clean DF: 1 |
|------------------------|--|--|---|

| CASNO | Target Analyte | Spike Added | LCSD Result | Reporting Limit | Result Qualifier | LCSD % Rec. | RPD Limit | RPD |
|-----------|------------------|-------------|-------------|-----------------|------------------|-------------|-----------|-----|
| 7723-14-0 | TOTAL PHOSPHORUS | 0.5 | 0.543 | 0.05 | | 109 | 20 | 1 |

Data Package ID: po0811110-1

Date Printed: Wednesday, December 03, 2008

Paragon Analytics

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TOTAL PHOSPHORUS

Method EPA365.2

Calibration Verifications

Lab Name: Paragon Analytics

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

ClientProject ID: Rulison Area Well monitoring

Run ID: PO081124-1A

Result Units: MG/L

| Lab ID | Verification Type | Date Analyzed | Time Analyzed | Spike Added | Result | Reporting Limit | Result Qualifier | % Rec. | Control Limits |
|--------|------------------------|---------------|---------------|-------------|--------|-----------------|------------------|--------|----------------|
| ICV | Initial Calibration | 11/24/2008 | | 0.25 | 0.258 | 0.05 | N/A | 103 | 90 - 110 |
| CCV1 | Continuing Calibration | 11/24/2008 | | 0.5 | 0.519 | 0.05 | N/A | 104 | 90 - 110 |

Data Package ID: po0811110-1

Date Printed: Wednesday, December 03, 2008

Paragon Analytics

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TOTAL PHOSPHORUS

Method EPA365.2

Calibration Blanks

Lab Name: Paragon Analytics

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

ClientProject ID: Rulison Area Well monitoring

Run ID: PO081124-1A

Result Units: MG/L

| Lab ID | Verification Type | Date Analyzed | Time Analyzed | Result | Reporting Limit | Flag |
|--------|------------------------|---------------|---------------|--------|-----------------|------|
| ICB | Initial Calibration | 11/24/2008 | | 0.05 | 0.05 | U |
| CCB1 | Continuing Calibration | 11/24/2008 | | 0.05 | 0.05 | U |

Data Package ID: po0811110-1

Date Printed: Wednesday, December 03, 2008

Paragon Analytics

LIMS Version: 6.212A

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Prep Batch ID: PO081124-1

| | | | |
|----------------------------|--------------------|----------------------------|--------------------------|
| Start Date: 11/24/08 | End Date: 11/24/08 | Concentration Method: NONE | Batch Created By: JBM |
| Start Time: 8:15 | End Time: 10:15 | Extract Method: METHOD | Date Created: 11/24/08 |
| Prep Analyst: Jason McNall | | Initial Volume Units: ml | Time Created: 9:16 |
| Comments: | | Final Volume Units: ml | Validated By: JBM |
| | | | Date Validated: 11/24/08 |
| | | | Time Validated: 8:18 |

QC Batch ID: PO081124-1-1

| Lab ID | QC Type | Field ID | Matrix | Date Collected | Initial Wt/Vol | Final Wt/Vol | Cleanup Method | Cleanup DF | Order Number |
|------------|---------|----------|--------|----------------|----------------|--------------|----------------|------------|--------------|
| PO081124-1 | MB | XXXXXX | WATER | XXXXXX | 50 | 50 | NONE | 1 | 0811110 |
| PO081124-1 | LCS | XXXXXX | WATER | XXXXXX | 50 | 50 | NONE | 1 | 0811110 |
| PO081124-1 | LCSD | XXXXXX | WATER | XXXXXX | 50 | 50 | NONE | 1 | 0811110 |
| 0811110-1 | SMP | A11-15D | WATER | 11/13/2008 | 50 | 50 | NONE | 1 | 0811110 |
| 0811110-2 | SMP | A11-15B | WATER | 11/13/2008 | 50 | 50 | NONE | 1 | 0811110 |

QC Types

| | |
|-----|-----------------------------------|
| CAR | Carrier reference sample |
| LCS | Laboratory Control Sample |
| MB | Method Blank |
| MSD | Laboratory Matrix Spike Duplicate |
| SMP | Field Sample |

| | |
|------|-------------------------------------|
| DUP | Laboratory Duplicate |
| LCSD | Laboratory Control Sample Duplicate |
| MS | Laboratory Matrix Spike |
| REP | Sample replicate |
| SYS | Sample Yield Spike |

Total Dissolved Solids

Method EPA160.1

Method Blank

Lab Name: Paragon Analytics

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

ClientProject ID: Rulison Area Well monitoring

Lab ID: TD081117-1MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 17-Nov-08

Date Analyzed: 18-Nov-08

Prep Method: NONE

Prep Batch: TD081117-1

QCBatchID: TD081117-1-1

Run ID: td081118-1a

Cleanup: NONE

Basis: N/A

File Name: Manual Entry

Sample Aliquot: 100 ml

Final Volume: 100 ml

Result Units: MG/L

Clean DF: 1

| CASNO | Target Analyte | DF | Result | Reporting Limit | Result Qualifier | EPA Qualifier |
|---------|------------------------|----|--------|-----------------|------------------|---------------|
| 10-33-3 | TOTAL DISSOLVED SOLIDS | 1 | 20 | 20 | U | |

Data Package ID: td0811110-1

Date Printed: Wednesday, December 03, 2008

Paragon Analytics

LIMS Version: 6.212A

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Total Dissolved Solids

Method EPA160.1 Laboratory Control Sample

Lab Name: Paragon Analytics

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

ClientProject ID: Rulison Area Well monitoring

| Lab ID: TD081117-1LCS | Sample Matrix: WATER % Moisture: N/A Date Collected: N/A Date Extracted: 11/17/2008 Date Analyzed: 11/18/2008 Prep Method: NONE | Prep Batch: TD081117-1 QCBatchID: TD081117-1-1 Run ID: td081118-1a Cleanup: NONE Basis: N/A File Name: Manual Entry | Sample Aliquot: 100 ml Final Volume: 100 ml Result Units: MG/L Clean DF: 1 | | | | | | | | | | | | | | | | |
|--|--|--|---|-----------------|------------------|-------------|----------------|-----------------|------------------|------------|----------------|---------|------------------------|-----|-----|----|--|-----|-----------|
| <table border="1"><thead><tr><th>CASNO</th><th>Target Analyte</th><th>Spike Added</th><th>LCS Result</th><th>Reporting Limit</th><th>Result Qualifier</th><th>LCS % Rec.</th><th>Control Limits</th></tr></thead><tbody><tr><td>10-33-3</td><td>TOTAL DISSOLVED SOLIDS</td><td>400</td><td>409</td><td>20</td><td></td><td>102</td><td>85 - 115%</td></tr></tbody></table> | | | | CASNO | Target Analyte | Spike Added | LCS Result | Reporting Limit | Result Qualifier | LCS % Rec. | Control Limits | 10-33-3 | TOTAL DISSOLVED SOLIDS | 400 | 409 | 20 | | 102 | 85 - 115% |
| CASNO | Target Analyte | Spike Added | LCS Result | Reporting Limit | Result Qualifier | LCS % Rec. | Control Limits | | | | | | | | | | | | |
| 10-33-3 | TOTAL DISSOLVED SOLIDS | 400 | 409 | 20 | | 102 | 85 - 115% | | | | | | | | | | | | |

Data Package ID: td0811110-1

Date Printed: Wednesday, December 03, 2008

Paragon Analytics

LIMS Version: 6.212A

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Prep Batch ID: TD081117-1

Start Date: 11/17/08 End Date: 11/17/08 Concentration Method: NONE Batch Created By: JBM
 Start Time: 10:30 End Time: 15:15 Extract Method: NONE Date Created: 11/17/08
 Prep Analyst: Jason McNall Initial Volume Units: ml Time Created: 12:15
Comments: Final Volume Units: ml Validated By: JBM
 _____ Date Validated: 11/17/08 Time Validated: 15:19

QC Batch ID: TD081117-1-1

| Lab ID | QC Type | Field ID | Matrix | Date Collected | Initial Wt/Vol | Final Wt/Vol | Cleanup Method | Cleanup DF | Order Number |
|------------|---------|----------|--------|----------------|----------------|--------------|----------------|------------|--------------|
| TD081117-1 | MB | XXXXXX | WATER | XXXXXX | 100 | 100 | NONE | 1 | 0811122 |
| TD081117-1 | LCS | XXXXXX | WATER | XXXXXX | 100 | 100 | NONE | 1 | 0811122 |
| 0811122-1 | DUP | XXXXXX | WATER | XXXXXX | 25 | 100 | NONE | 1 | 0811122 |
| 0811110-1 | SMP | A11-15D | WATER | 11/13/2008 | 2 | 100 | NONE | 1 | 0811110 |
| 0811110-2 | SMP | A11-15B | WATER | 11/13/2008 | 2 | 100 | NONE | 1 | 0811110 |
| 0811122-1 | SMP | XXXXXX | WATER | XXXXXX | 25 | 100 | NONE | 1 | 0811122 |
| 0811122-11 | SMP | XXXXXX | WATER | XXXXXX | 5 | 100 | NONE | 1 | 0811122 |
| 0811122-12 | SMP | XXXXXX | WATER | XXXXXX | 10 | 100 | NONE | 1 | 0811122 |
| 0811122-13 | SMP | XXXXXX | WATER | XXXXXX | 5 | 100 | NONE | 1 | 0811122 |
| 0811122-2 | SMP | XXXXXX | WATER | XXXXXX | 10 | 100 | NONE | 1 | 0811122 |
| 0811122-3 | SMP | XXXXXX | WATER | XXXXXX | 5 | 100 | NONE | 1 | 0811122 |
| 0811122-4 | SMP | XXXXXX | WATER | XXXXXX | 10 | 100 | NONE | 1 | 0811122 |
| 0811122-5 | SMP | XXXXXX | WATER | XXXXXX | 100 | 100 | NONE | 1 | 0811122 |
| 0811122-6 | SMP | XXXXXX | WATER | XXXXXX | 100 | 100 | NONE | 1 | 0811122 |
| 0811122-7 | SMP | XXXXXX | WATER | XXXXXX | 25 | 100 | NONE | 1 | 0811122 |
| 0811122-8 | SMP | XXXXXX | WATER | XXXXXX | 10 | 100 | NONE | 1 | 0811122 |
| 0811122-9 | SMP | XXXXXX | WATER | XXXXXX | 10 | 100 | NONE | 1 | 0811122 |
| 0811128-1 | SMP | XXXXXX | WATER | XXXXXX | 100 | 100 | NONE | 1 | 0811128 |
| 0811129-1 | SMP | XXXXXX | WATER | XXXXXX | 1 | 100 | NONE | 1 | 0811129 |

QC Types

| | | | |
|-----|-----------------------------------|------|------------------------------------|
| CAR | Carrier reference sample | DUP | Laboratory Duplicate |
| LCS | Laboratory Control Sample | LCSD | Laboratory Control Sample Duplicat |
| MB | Method Blank | MS | Laboratory Matrix Spike |
| MSD | Laboratory Matrix Spike Duplicate | REP | Sample replicate |
| SMP | Field Sample | SYS | Sample Yield Spike |

Ion Chromatography

Method EPA300.0 Revision 2.1

Method Blank

Lab Name: Paragon Analytics

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

ClientProject ID: Rulison Area Well monitoring

| | | | |
|----------------------|--|---|---|
| Lab ID: IC081117-1MB | Sample Matrix: WATER % Moisture: N/A Date Collected: N/A Date Extracted: 17-Nov-08 Date Analyzed: 17-Nov-08 Prep Method: NONE | Prep Batch: IC081117-1 QCBatchID: IC081117-1-1 Run ID: ic081117-1a Cleanup: NONE Basis: N/A File Name: 81117_011.DXD | Sample Aliquot: 5 ml Final Volume: 5 ml Result Units: MG/L Clean DF: 1 |
|----------------------|--|---|---|

| CASNO | Target Analyte | DF | Result | Reporting Limit | Result Qualifier | EPA Qualifier |
|------------|----------------|----|--------|-----------------|------------------|---------------|
| 16887-00-6 | CHLORIDE | 1 | 0.2 | 0.2 | U | |
| 24959-67-9 | BROMIDE | 1 | 0.2 | 0.2 | U | |
| 14808-79-8 | SULFATE | 1 | 1 | 1 | U | |

Data Package ID: ic0811110-1

Date Printed: Wednesday, December 03, 2008

Paragon Analytics

LIMS Version: 6.212A

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Ion Chromatography

Method EPA300.0 Revision 2.1

Method Blank

Lab Name: Paragon Analytics

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

ClientProject ID: Rulison Area Well monitoring

| | | | |
|----------------------|--|---|---|
| Lab ID: IC081117-1MB | Sample Matrix: WATER % Moisture: N/A Date Collected: N/A Date Extracted: 17-Nov-08 Date Analyzed: 19-Nov-08 Prep Method: NONE | Prep Batch: IC081117-1 QCBatchID: IC081117-1-1 Run ID: ic081119-1a Cleanup: NONE Basis: N/A File Name: 81119_009.DXD | Sample Aliquot: 5 ml Final Volume: 5 ml Result Units: MG/L Clean DF: 1 |
|----------------------|--|---|---|

| CASNO | Target Analyte | DF | Result | Reporting Limit | Result Qualifier | EPA Qualifier |
|------------|----------------|----|--------|-----------------|------------------|---------------|
| 16984-48-8 | FLUORIDE | 1 | 0.1 | 0.1 | U | |

Data Package ID: ic0811110-1

Date Printed: Wednesday, December 03, 2008

Paragon Analytics
LIMS Version: 6.212A

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Ion Chromatography

Method EPA300.0 Revision 2.1

Laboratory Control Sample

Lab Name: Paragon Analytics

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

ClientProject ID: Rulison Area Well monitoring

| Lab ID: IC081117-1LCS | Sample Matrix: WATER % Moisture: N/A | Prep Batch: IC081117-1 QCBatchID: IC081117-1-1 Run ID: ic081119-1a Cleanup: NONE Basis: N/A Prep Method: NONE | Sample Aliquot: 5 ml Final Volume: 5 ml Result Units: MG/L Clean DF: 1 File Name: 81119_016.DXD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|---|-----------------|------------------|-------------|----------------|-----------------|------------------|------------|----------------|------------|----------|-----|------|-----|--|-----|-----------|------------|----------|---|------|-----|--|-----|-----------|------------|---------|---|-----|-----|--|-----|-----------|------------|---------|----|------|---|--|-----|-----------|
| <table border="1"><thead><tr><th>CASNO</th><th>Target Analyte</th><th>Spike Added</th><th>LCS Result</th><th>Reporting Limit</th><th>Result Qualifier</th><th>LCS % Rec.</th><th>Control Limits</th></tr></thead><tbody><tr><td>16984-48-8</td><td>FLUORIDE</td><td>2.5</td><td>2.69</td><td>0.1</td><td></td><td>108</td><td>90 - 110%</td></tr><tr><td>16887-00-6</td><td>CHLORIDE</td><td>5</td><td>5.32</td><td>0.2</td><td></td><td>106</td><td>90 - 110%</td></tr><tr><td>24959-67-9</td><td>BROMIDE</td><td>5</td><td>5.4</td><td>0.2</td><td></td><td>108</td><td>90 - 110%</td></tr><tr><td>14808-79-8</td><td>SULFATE</td><td>25</td><td>26.7</td><td>1</td><td></td><td>107</td><td>90 - 110%</td></tr></tbody></table> | | | | CASNO | Target Analyte | Spike Added | LCS Result | Reporting Limit | Result Qualifier | LCS % Rec. | Control Limits | 16984-48-8 | FLUORIDE | 2.5 | 2.69 | 0.1 | | 108 | 90 - 110% | 16887-00-6 | CHLORIDE | 5 | 5.32 | 0.2 | | 106 | 90 - 110% | 24959-67-9 | BROMIDE | 5 | 5.4 | 0.2 | | 108 | 90 - 110% | 14808-79-8 | SULFATE | 25 | 26.7 | 1 | | 107 | 90 - 110% |
| CASNO | Target Analyte | Spike Added | LCS Result | Reporting Limit | Result Qualifier | LCS % Rec. | Control Limits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16984-48-8 | FLUORIDE | 2.5 | 2.69 | 0.1 | | 108 | 90 - 110% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16887-00-6 | CHLORIDE | 5 | 5.32 | 0.2 | | 106 | 90 - 110% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24959-67-9 | BROMIDE | 5 | 5.4 | 0.2 | | 108 | 90 - 110% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14808-79-8 | SULFATE | 25 | 26.7 | 1 | | 107 | 90 - 110% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Data Package ID: ic0811110-1

Date Printed: Wednesday, December 03, 2008

Paragon Analytics

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BROMIDE
Method EPA300.0
Calibration Verifications

Lab Name: Paragon Analytics
Work Order Number: 0811110
Client Name: Cordilleran Compliance Services, Inc.
ClientProject ID: Rulison Area Well monitoring

Run ID: ic081117-1a

Result Units: MG/L

| Lab ID | Verification Type | Date Analyzed | Time Analyzed | Spike Added | Result | Reporting Limit | Result Qualifier | % Rec. | Control Limits |
|--------|------------------------|---------------|---------------|-------------|--------|-----------------|------------------|--------|----------------|
| ICV | Initial Calibration | 11/13/2008 | 14:29 | 5 | 5.24 | 0.2 | N/A | 105 | 90 - 110 |
| CCV1 | Continuing Calibration | 11/17/2008 | 15:24 | 10 | 10.3 | 0.2 | N/A | 103 | 90 - 110 |
| CCV2 | Continuing Calibration | 11/17/2008 | 18:37 | 10 | 11 | 0.2 | N/A | 110 | 90 - 110 |
| CCV3 | Continuing Calibration | 11/17/2008 | 21:49 | 10 | 11 | 0.2 | N/A | 110 | 90 - 110 |
| CCV4 | Continuing Calibration | 11/17/2008 | 23:26 | 10 | 10.8 | 0.2 | N/A | 108 | 90 - 110 |

Data Package ID: *ic0811110-1*

Date Printed: Wednesday, December 03, 2008

Paragon Analytics
LIMS Version: 6.212A

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CHLORIDE
Method EPA300.0
Calibration Verifications

Lab Name: Paragon Analytics

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

ClientProject ID: Rulison Area Well monitoring

Run ID: ic081117-1a

Result Units: MG/L

| Lab ID | Verification Type | Date Analyzed | Time Analyzed | Spike Added | Result | Reporting Limit | Result Qualifier | % Rec. | Control Limits |
|--------|------------------------|---------------|---------------|-------------|--------|-----------------|------------------|--------|----------------|
| ICV | Initial Calibration | 11/13/2008 | 14:29 | 5 | 5.21 | 0.2 | N/A | 104 | 90 - 110 |
| CCV1 | Continuing Calibration | 11/17/2008 | 15:24 | 10 | 10.3 | 0.2 | N/A | 103 | 90 - 110 |
| CCV2 | Continuing Calibration | 11/17/2008 | 18:37 | 10 | 10.7 | 0.2 | N/A | 107 | 90 - 110 |
| CCV3 | Continuing Calibration | 11/17/2008 | 21:49 | 10 | 10.7 | 0.2 | N/A | 107 | 90 - 110 |
| CCV4 | Continuing Calibration | 11/17/2008 | 23:26 | 10 | 10.8 | 0.2 | N/A | 108 | 90 - 110 |

Data Package ID: *ic0811110-1*

Date Printed: Wednesday, December 03, 2008

Paragon Analytics
LIMS Version: 6.212A

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SULFATE

Method EPA300.0

Calibration Verifications

Lab Name: Paragon Analytics

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

ClientProject ID: Rulison Area Well monitoring

Run ID: ic081117-1a

Result Units: MG/L

| Lab ID | Verification Type | Date Analyzed | Time Analyzed | Spike Added | Result | Reporting Limit | Result Qualifier | % Rec. | Control Limits |
|--------|------------------------|---------------|---------------|-------------|--------|-----------------|------------------|--------|----------------|
| ICV | Initial Calibration | 11/13/2008 | 14:29 | 25 | 27.1 | 1 | N/A | 109 | 90 - 110 |
| CCV1 | Continuing Calibration | 11/17/2008 | 15:24 | 50 | 52 | 1 | N/A | 104 | 90 - 110 |
| CCV2 | Continuing Calibration | 11/17/2008 | 18:37 | 50 | 53.9 | 1 | N/A | 108 | 90 - 110 |
| CCV3 | Continuing Calibration | 11/17/2008 | 21:49 | 50 | 53.5 | 1 | N/A | 107 | 90 - 110 |
| CCV4 | Continuing Calibration | 11/17/2008 | 23:26 | 50 | 54.6 | 1 | N/A | 109 | 90 - 110 |

Data Package ID: ic0811110-1

Date Printed: Wednesday, December 03, 2008

Paragon Analytics

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FLUORIDE

Method EPA300.0

Calibration Verifications

Lab Name: Paragon Analytics

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

ClientProject ID: Rulison Area Well monitoring

Run ID: ic081119-1a

Result Units: MG/L

| Lab ID | Verification Type | Date Analyzed | Time Analyzed | Spike Added | Result | Reporting Limit | Result Qualifier | % Rec. | Control Limits |
|--------|------------------------|---------------|---------------|-------------|--------|-----------------|------------------|--------|----------------|
| ICV | Initial Calibration | 11/19/2008 | 13:39 | 2.5 | 2.67 | 0.1 | N/A | 107 | 90 - 110 |
| CCV1 | Continuing Calibration | 11/19/2008 | 17:16 | 5 | 5.54 | 0.1 | Z | 111 | 90 - 110 |

Data Package ID: *ic0811110-1*

Date Printed: Wednesday, December 03, 2008

Paragon Analytics

LIMS Version: 6.212A

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BROMIDE
Method EPA300.0
Calibration Blanks

Lab Name: Paragon Analytics

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

ClientProject ID: Rulison Area Well monitoring

Run ID: ic081117-1a

Result Units: MG/L

| Lab ID | Verification Type | Date Analyzed | Time Analyzed | Result | Reporting Limit | Flag |
|--------|------------------------|---------------|---------------|--------|-----------------|------|
| ICB | Initial Calibration | 11/13/2008 | 14:45 | 0.2 | 0.2 | U |
| CCB1 | Continuing Calibration | 11/17/2008 | 15:41 | 0.2 | 0.2 | U |
| CCB2 | Continuing Calibration | 11/17/2008 | 18:53 | 0.2 | 0.2 | U |
| CCB3 | Continuing Calibration | 11/17/2008 | 22:05 | 0.2 | 0.2 | U |
| CCB4 | Continuing Calibration | 11/17/2008 | 23:42 | 0.2 | 0.2 | U |

Data Package ID: ic0811110-1

Date Printed: Wednesday, December 03, 2008

Paragon Analytics

LIMS Version: 6.212A

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CHLORIDE
Method EPA300.0
Calibration Blanks

Lab Name: Paragon Analytics

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

Client Project ID: Rulison Area Well monitoring

Run ID: ic081117-1a

Result Units: MG/L

| Lab ID | Verification Type | Date Analyzed | Time Analyzed | Result | Reporting Limit | Flag |
|--------|------------------------|---------------|---------------|--------|-----------------|------|
| ICB | Initial Calibration | 11/13/2008 | 14:45 | 0.2 | 0.2 | U |
| CCB1 | Continuing Calibration | 11/17/2008 | 15:41 | 0.2 | 0.2 | U |
| CCB2 | Continuing Calibration | 11/17/2008 | 18:53 | 0.2 | 0.2 | U |
| CCB3 | Continuing Calibration | 11/17/2008 | 22:05 | 0.2 | 0.2 | U |
| CCB4 | Continuing Calibration | 11/17/2008 | 23:42 | 0.2 | 0.2 | U |

Data Package ID: ic0811110-1

Date Printed: Wednesday, December 03, 2008

Paragon Analytics
LIMS Version: 6.212A

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SULFATE
Method EPA300.0
Calibration Blanks

Lab Name: Paragon Analytics

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

ClientProject ID: Rulison Area Well monitoring

Run ID: ic081117-1a

Result Units: MG/L

| Lab ID | Verification Type | Date Analyzed | Time Analyzed | Result | Reporting Limit | Flag |
|--------|------------------------|---------------|---------------|--------|-----------------|------|
| ICB | Initial Calibration | 11/13/2008 | 14:45 | 1 | 1 | U |
| CCB1 | Continuing Calibration | 11/17/2008 | 15:41 | 1 | 1 | U |
| CCB2 | Continuing Calibration | 11/17/2008 | 18:53 | 1 | 1 | U |
| CCB3 | Continuing Calibration | 11/17/2008 | 22:05 | 1 | 1 | U |
| CCB4 | Continuing Calibration | 11/17/2008 | 23:42 | 1 | 1 | U |

Data Package ID: ic0811110-1

Date Printed: Wednesday, December 03, 2008

Paragon Analytics

LIMS Version: 6.212A

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FLUORIDE
Method EPA300.0
Calibration Blanks

Lab Name: Paragon Analytics

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

ClientProject ID: Rulison Area Well monitoring

Run ID: ic081119-1a

Result Units: MG/L

| Lab ID | Verification Type | Date Analyzed | Time Analyzed | Result | Reporting Limit | Flag |
|--------|------------------------|---------------|---------------|--------|-----------------|------|
| ICB | Initial Calibration | 11/19/2008 | 13:55 | 0.1 | 0.1 | U |
| CCB1 | Continuing Calibration | 11/19/2008 | 17:32 | 0.1 | 0.1 | U |

Data Package ID: *ic0811110-1*

Date Printed: Wednesday, December 03, 2008

Paragon Analytics

LIMS Version: 6.212A

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Prep Batch ID: IC081117-1

Start Date: 11/17/08 End Date: 11/17/08 Concentration Method: NONE Batch Created By: EAL
 Start Time: 10:00 End Time: 11:00 Extract Method: NONE Date Created: 11/17/08
 Prep Analyst: Eric Allen Lintner Initial Volume Units: ml Time Created: 10:23
Comments: Final Volume Units: ml Validated By: EAL
 _____ Date Validated: 11/17/08
 _____ Time Validated: 14:51

QC Batch ID: IC081117-1-1

| Lab ID | QC Type | Field ID | Matrix | Date Collected | Initial Wt/Vol | Final Wt/Vol | Cleanup Method | Cleanup DF | Order Number |
|------------|---------|----------|--------|----------------|----------------|--------------|----------------|------------|--------------|
| IC081117-1 | MB | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811122 |
| IC081117-1 | LCS | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811122 |
| 0811122-1 | MS | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811122 |
| 0811122-12 | MS | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811122 |
| 0811122-1 | MSD | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811122 |
| 0811110-1 | SMP | A11-15D | WATER | 11/13/2008 | 5 | 5 | NONE | 1 | 0811110 |
| 0811110-2 | SMP | A11-15B | WATER | 11/13/2008 | 5 | 5 | NONE | 1 | 0811110 |
| 0811122-1 | SMP | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811122 |
| 0811122-11 | SMP | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811122 |
| 0811122-12 | SMP | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811122 |
| 0811122-2 | SMP | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811122 |
| 0811122-3 | SMP | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811122 |
| 0811122-4 | SMP | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811122 |
| 0811122-5 | SMP | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811122 |
| 0811122-6 | SMP | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811122 |
| 0811122-7 | SMP | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811122 |
| 0811122-8 | SMP | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811122 |
| 0811122-9 | SMP | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811122 |
| 0811128-1 | SMP | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811128 |
| 0811129-1 | SMP | XXXXXX | WATER | XXXXXX | 5 | 5 | NONE | 1 | 0811129 |

QC Types

| | |
|-----|-----------------------------------|
| CAR | Carrier reference sample |
| LCS | Laboratory Control Sample |
| MB | Method Blank |
| MSD | Laboratory Matrix Spike Duplicate |
| SMP | Field Sample |

| | |
|------|-------------------------------------|
| DUP | Laboratory Duplicate |
| LCSD | Laboratory Control Sample Duplicate |
| MS | Laboratory Matrix Spike |
| REP | Sample replicate |
| SYS | Sample Yield Spike |

Supporting Raw Data

Alkalinity Raw Data Worksheet

Anal Run ID AK081118-1A

1230-1430

Anal Start Date 11/18/2008

JBM
11/18/08

Standardization Ref ID AlkalinityCAL081118-1

UNL 11/18/08

Standardization Of Alkalinity

| Rep Num | THAM Conc | Aliq Titrated (mL) | vol to pH 4.5(mL) | HCl Conc(N) | Conc Units | Avg HCl Conc |
|---------|-----------|--------------------|-------------------|-------------|------------|--------------|
| 1 | 0.2 | 1 | 10.19 | 0.0196271 | N | 0.0196271 |
| 2 | 0.2 | 1 | 10.2 | 0.0196078 | N | |
| 3 | 0.2 | 1 | 10.18 | 0.0196464 | N | |

| Num | Don't Use | ReRun Num | Lab ID | QC Type | Anal Dil | Aliq Titrated (mL) | vol to pH 8.3(mL) | vol to pH 4.5(mL) | total vol(mL) | HCO3 (mg/L as CaCO3) | CO3 (mg/L as CaCO3) | OH (mg/L as CaCO3) | Total Alk (mg/L as CaCO3) | Expected | %Rec |
|-----|--------------------------|-----------|------------|---------|----------|--------------------|-------------------|-------------------|---------------|----------------------|---------------------|--------------------|---------------------------|----------|------|
| 1 | <input type="checkbox"/> | 0 | ICV | ICV | 1 | 100 | 4.78 | 5.35 | 10.13 | 5.59372 | 93.81754 | 0 | 99.41125 | | |
| 2 | <input type="checkbox"/> | 0 | ICB | ICB | 1 | 100 | 0 | 0.27 | 0.27 | 2.649658 | 0 | 0 | 2.649658 | | |
| 3 | <input type="checkbox"/> | 0 | AK081118-1 | MB | 1 | 100 | 0 | 0.23 | 0.23 | 2.257116 | 0 | 0 | 2.257116 | | |
| 4 | <input type="checkbox"/> | 0 | AK081118-1 | LCS | 1 | 100 | 4.71 | 5.37 | 10.08 | 6.476941 | 92.44363 | 0 | 98.92058 | | |
| 5 | <input type="checkbox"/> | 0 | 0811088-1 | SMP | 1 | 25 | 0 | 3.73 | 3.73 | 146.4182 | 0 | 0 | 146.4182 | | |
| 6 | <input type="checkbox"/> | 0 | 0811088-2 | SMP | 1 | 25 | 0 | 5.92 | 5.92 | 232.3848 | 0 | 0 | 232.3848 | | |
| 7 | <input type="checkbox"/> | 0 | 0811088-3 | SMP | 1 | 25 | 0 | 5.11 | 5.11 | 200.5889 | 0 | 0 | 200.5889 | | |
| 8 | <input type="checkbox"/> | 0 | 0811088-5 | SMP | 1 | 25 | 0 | 9.69 | 9.69 | 380.3731 | 0 | 0 | 380.3731 | | |
| 9 | <input type="checkbox"/> | 0 | 0811088-6 | SMP | 1 | 25 | 0 | 12.2 | 12.2 | 478.9012 | 0 | 0 | 478.9012 | | |
| 10 | <input type="checkbox"/> | 0 | 0811099-2 | SMP | 1 | 5 | 0 | 9.07 | 9.07 | 1780.178 | 0 | 0 | 1780.178 | | |
| 11 | <input type="checkbox"/> | 0 | 0811099-3 | SMP | 1 | 1 | 0 | 4.81 | 4.81 | 4720.317 | 0 | 0 | 4720.317 | | |
| 12 | <input type="checkbox"/> | 0 | 0811099-3 | DUP | 1 | 1 | 0 | 4.87 | 4.87 | 4779.198 | 0 | 0 | 4779.198 | | |
| 13 | <input type="checkbox"/> | 0 | 0811099-4 | SMP | 1 | 10 | 0 | 4.75 | 4.75 | 466.1436 | 0 | 0 | 466.1436 | | |
| 14 | <input type="checkbox"/> | 0 | 0811099-5 | SMP | 1 | 10 | 0 | 4.8 | 4.8 | 471.0504 | 0 | 0 | 471.0504 | | |
| 15 | <input type="checkbox"/> | 0 | 0811110-1 | SMP | 1 | 5 | 0 | 6.33 | 6.33 | 1242.395 | 0 | 0 | 1242.395 | | |
| 16 | <input type="checkbox"/> | 0 | 0811110-2 | SMP | 1 | 5 | 0 | 6.7 | 6.7 | 1315.016 | 0 | 0 | 1315.016 | | |
| 17 | <input type="checkbox"/> | 0 | 0811122-6 | SMP | 1 | 25 | 0 | 9.37 | 9.37 | 367.8118 | 0 | 0 | 367.8118 | | |
| 18 | <input type="checkbox"/> | 0 | 0811122-7 | SMP | 1 | 25 | 0 | 7.01 | 7.01 | 275.1719 | 0 | 0 | 275.1719 | | |
| 19 | <input type="checkbox"/> | 0 | 0811122-8 | SMP | 1 | 25 | 0 | 6.19 | 6.19 | 242.9835 | 0 | 0 | 242.9835 | | |
| 20 | <input type="checkbox"/> | 0 | 0811122-11 | SMP | 1 | 25 | 0 | 9.21 | 9.21 | 361.5311 | 0 | 0 | 361.5311 | | |
| 21 | <input type="checkbox"/> | 0 | 0811122-12 | SMP | 1 | 25 | 0 | 2.74 | 2.74 | 107.5565 | 0 | 0 | 107.5565 | | |
| 22 | <input type="checkbox"/> | 0 | 0811128-1 | SMP | 1 | 25 | 0 | 3.43 | 3.43 | 134.6419 | 0 | 0 | 134.6419 | | |
| 23 | <input type="checkbox"/> | 0 | CCV1 | CCV | 1 | 100 | 4.82 | 5.37 | 10.19 | 5.397454 | 94.60262 | 0 | 100.0001 | | |
| 24 | <input type="checkbox"/> | 0 | CCB1 | CCB | 1 | 100 | 0 | 0.26 | 0.26 | 2.551522 | 0 | 0 | 2.551522 | | |
| 25 | <input type="checkbox"/> | 0 | 0811129-1 | SMP | 1 | 5 | 0 | 10.7 | 10.7 | 2100.099 | 0 | 0 | 2100.099 | | |
| 26 | <input type="checkbox"/> | 0 | 0811134-1 | SMP | 1 | 25 | 0 | 12.2 | 12.2 | 478.9012 | 0 | 0 | 478.9012 | | |

Comments:

| Standards, Batch QC, and Matrix Spike Information | | | | |
|---|------------|-------------|-------------|------------|
| ID | Parent ID | Parent Conc | Parent Vol. | Final Vol. |
| ICV | ST071128-4 | 10000 | 1 | 100 |
| CCV | ST071128-4 | 10000 | 1 | 100 |

Reagent List:

| | |
|---|------------|
| 0.020 N HCl Titrant | RG080912-2 |
| Phenolphthalein Indicator | RG080908-1 |
| Bromocresol Green Indicator | RG081117-3 |
| 0.20 N Std. THAM | ST071128-3 |
| 0.20 N NaCO3 (ICV, LCS, CCV's - 1.0 mL) | ST071128-4 |

JBM
11/18/08

Ammonia as N Daily Verification

Analysis Date: 11/18/08

Analyst: PJW

RW, 11/18/08

Ammonia as N - Method EPA350.1/SM4500 NH3-N H/QC10-107-06-1-C - SOP 1129

| Standards Information: | |
|--|---|
| Instrument : LACHAT Quickchem 8000 <i>VSW</i> 11/18/08 | 1st Source 50 ppm NH3-N: * ST080909-1 |
| | 2nd Source 50 ppm NH3-N: ** ST080909-2 |

Standards, Batch QC, and Matrix Spike Information

| I.D. | Prnt Std I.D. | Prnt Std. Conc. | Prnt Std. Vol. (mL) | Final Vol. (mL) |
|------------------------------|---------------|-----------------|---------------------|-----------------|
| 5.0 mg/L NH3-N | * | 50 mg/L NH3-N | 0.500 | 5.0 |
| 2.0 mg/L NH3-N | * | 50 mg/L NH3-N | 0.200 | 5.0 |
| 1.0 mg/L NH3-N | * | 50 mg/L NH3-N | 0.100 | 5.0 |
| 0.50 mg/L NH3-N | * | 50 mg/L NH3-N | 0.050 | 5.0 |
| 0.20 mg/L NH3-N | * | 50 mg/L NH3-N | 0.020 | 5.0 |
| 0.10 mg/L NH3-N | * | 50 mg/L NH3-N | 0.010 | 5.0 |
| ICV (1.0 mg/L NH3-N) | ** | 50 mg/L NH3-N | 0.100 | 5.0 |
| LCS (AQ)(1.0 mg/L NH3-N) | ** | 50 mg/L NH3-N | 0.100 | 5.0 |
| LCS (SOIL)(2.0 mg/L NH3-N) | ** | 50 mg/L NH3-N | 1.600 | 40.0 |
| MS/MSD(AQ) (1.0mg/L NH3-N) | * | 50 mg/L NH3-N | 0.100 | 5.0 |
| MS/MSD(SOIL) (1.0mg/L NH3-N) | * | 50 mg/L NH3-N | 0.800 | 40.0 |
| CCV (2.0 mg/L NH3-N) | * | 50 mg/L NH3-N | 0.200 | 5.0 |
| CRC (2.0 mg/L NH3-N) | * | 50 mg/L NH3-N | 0.500 | 5.0 |
| LLC (0.05 mg/L NH3-N) | * | 50 mg/L NH3-N | 0.010 | 5.0 |

Creator: WETCHEM
Creation Date: Nov 18, 2008 13:42:42
Last Modified: Nov 18, 2008 14:15:48
Description: NH3-N(350.1);50PPM(1ST)NH3-N:ST080909-1;50PPM(2ND)NH3-N:ST080909-2;EDTABUFFER:RG08

PSW
11/18/08

Rev. C 11/18/08

| Cup # | Sample ID | Manual Dilution | Sample Type |
|-------|-----------------|-----------------|-------------|
| 1 | 5.00 mg/l NH3-N | 1.0000 | CalStd |
| 2 | 2.00 mg/l NH3-N | 1.0000 | CalStd |
| 3 | 1.00 mg/l NH3-N | 1.0000 | CalStd |
| 4 | 0.50 mg/l NH3-N | 1.0000 | CalStd |
| 5 | 0.20 mg/l NH3-N | 1.0000 | CalStd |
| 6 | 0.10 mg/l NH3-N | 1.0000 | CalStd |
| 7 | 0.00 mg/l NH3-N | 1.0000 | CalStd |
| 1 | ICV | 1.0000 | Unknown |
| 2 | ICB | 1.0000 | Unknown |
| 3 | NH081118-1MB | 1.0000 | Unknown |
| 4 | NH081118-1LCS | 1.0000 | Unknown |
| ⑤ | 0811129-1 | 1.0000 | Unknown |
| ⑥ | 0811129-1MS | 1.0000 | Unknown |
| ⑦ | 0811129-1MSD | 1.0000 | Unknown |
| ⑧ | 0811110-1 | 1.0000 | Unknown |
| ⑨ | 0811110-2 | 1.0000 | Unknown |
| 10 | 0811129-1 20X | 1.0000 | Unknown |
| 11 | 0811110-1 5X | 1.0000 | Unknown |
| 12 | 0811110-2 5X | 1.0000 | Unknown |
| 13 | CCV | 1.0000 | Unknown |
| 14 | CCB | 1.0000 | Unknown |

INSTRUMENT: Flow Injection Analysis
TRAY: 1118NH.TRA METHOD: 1118NH.MET DATAFILE: 1118NH.FDT
DATE/TIME: Tue Nov 18 13:47:31 2008 OPERATOR: WETCHEM

*** Begin Calibration ***

Cup# 1 Sample: 5.00 mg/l NH3-N Type: CalStd Level: 1 Rep# 1/1
Ch 2: Ammonia Peak Area = 59486296.0 μ V-s

Cup# 2 Sample: 2.00 mg/l NH3-N Type: CalStd Level: 2 Rep# 1/1
Ch 2: Ammonia Peak Area = 23925330.0 μ V-s

Cup# 3 Sample: 1.00 mg/l NH3-N Type: CalStd Level: 3 Rep# 1/1
Ch 2: Ammonia Peak Area = 11987313.0 μ V-s

Cup# 4 Sample: 0.50 mg/l NH3-N Type: CalStd Level: 4 Rep# 1/1
Ch 2: Ammonia Peak Area = 6032853.5 μ V-s

Cup# 5 Sample: 0.20 mg/l NH3-N Type: CalStd Level: 5 Rep# 1/1
Ch 2: Ammonia Peak Area = 2913859.5 μ V-s

Cup# 6 Sample: 0.10 mg/l NH3-N Type: CalStd Level: 6 Rep# 1/1
Ch 2: Ammonia Peak Area = 1843168.5 μ V-s

Cup# 7 Sample: 0.00 mg/l NH3-N Type: CalStd Level: 7 Rep# 1/1
Ch 2: Ammonia Peak Area = 235346.6 μ V-s

*** Updated Calibration ***

Ch 2: Ammonia

** 1st Order Poly Calibration **

C[0] = 8.46397e-008

C[1] = -0.0296722

r = 1.0000

*** End Calibration Block ***

*** Calibration Passed ***

Cup# 1 Sample: ICV Type: Unknown Rep# 1/1

Ch 2: Ammonia = 1.0440 mg/L

Cup# 2 Sample: ICB Type: Unknown Rep# 1/1

Ch 2: Ammonia = -0.0200 mg/L

Cup# 3 Sample: NH081118-1MB Type: Unknown Rep# 1/1

Ch 2: Ammonia = -0.0233 mg/L

Cup# 4 Sample: NH081118-1LCS Type: Unknown Rep# 1/1

Ch 2: Ammonia = 0.9830 mg/L

Cup# 5 Sample: 0811129-1 Type: Unknown Rep# 1/1

Ch 2: Ammonia = 11.2391 mg/L

Cup# 6 Sample: 0811129-1MS Type: Unknown Rep# 1/1

Ch 2: Ammonia = 13.5547 mg/L

Cup# 7 Sample: 0811129-1MSD Type: Unknown Rep# 1/1

Ch 2: Ammonia = 13.4054 mg/L

Cup# 8 Sample: 0811110-1 Type: Unknown Rep# 1/1

Ch 2: Ammonia = 5.5255 mg/L

Cup# 9 Sample: 0811110-2 Type: Unknown Rep# 1/1

Ch 2: Ammonia = 5.5676 mg/L

Cup# 10 Sample: 0811129-1 20X Type: Unknown Rep# 1/1

Ch 2: Ammonia = 2.0525 mg/L

Cup# 11 Sample: 0811110-1 5X Type: Unknown Rep# 1/1

Ch 2: Ammonia = 3.2388 mg/L

Cup# 12 Sample: 0811110-2 5X Type: Unknown Rep# 1/1

Ch 2: Ammonia = 2.8608 mg/L

Cup# 13 Sample: CCV Type: Unknown Rep# 1/1

Ch 2: Ammonia = 1.9867 mg/L

Cup# 14 Sample: CCB Type: Unknown Rep# 1/1

Ch 2: Ammonia = -0.0169 mg/L

***** Tray Run Complete *****

Nitrate+Nitrite as N Spike Information

Analysis Date: 11/20/2008

Analyst: PJW

Am Ch 11/20/08

| | | |
|--|-----------------|---|
| Nitrate + Nitrite as N - SOP 1127 | | Standards Information: |
| Method EPA353.2 | <i>PSW</i> | 1st Source 100 ppm NO ₃ -N* ST080722-8 |
| SM4500-NO3 F | <i>11/20/08</i> | 2nd Source 100 ppm NO ₃ -N** ST080225-1 |
| QC10-107-04-1-C | | 1st Source 50 ppm NO ₂ -N: *** ST081027-5 |

Standards, Batch QC, and Matrix Spike Information

| I.D. | Parent Std I.D. | Pmt Std. Conc. | Pmt Std. Vol. (mL) | Final Vol. (mL) |
|------------------------------------|-----------------|------------------------------|--------------------|-----------------|
| 2.0 mg/L NO ₃ -N | * | 100 mg/L NO ₃ -N | 0.100 | 5.0 |
| 1.0 mg/L NO ₃ -N | * | 100 mg/L NO ₃ -N | 0.050 | 5.0 |
| 0.50 mg/L NO ₃ -N | * | 100 mg/L NO ₃ -N | 0.025 | 5.0 |
| 0.20 mg/L NO ₃ -N | * | 2.0 mg/L NO ₃ -N | 0.500 | 5.0 |
| 0.10 mg/L NO ₃ -N | * | 1.0 mg/L NO ₃ -N | 0.500 | 5.0 |
| 0.05 mg/L NO ₃ -N | * | 0.50 mg/L NO ₃ -N | 0.500 | 5.0 |
| 0.01 mg/L NO ₃ -N | * | 0.10 mg/L NO ₃ -N | 0.500 | 5.0 |
| 1.0 mg/L NO ₂ -N | *** | 50 mg/L NO ₃ -N | 0.100 | 5.0 |
| ICV (0.50 mg/L NO ₃ -N) | ** | 100 mg/L NO ₃ -N | 0.025 | 5.0 |
| LCS (0.50 mg/L NO ₃ -N) | ** | 100 mg/L NO ₃ -N | 0.025 | 5.0 |
| LCS (10 mg/kg NO ₃ -N) | ** | 100 mg/L NO ₃ -N | 0.400 | 40.0 |
| MS/MSD (0.4 mg/L N) | * | 100 mg/L NO ₃ -N | 0.020 | 5.0 |
| MS/MSD (4.0 mg/kg N) | * | 100 mg/L NO ₃ -N | 0.160 | 40.0 |
| CCV (1.0 mg/L NO ₃ -N) | * | 100 mg/L NO ₃ -N | 0.050 | 5.0 |
| CRC (2.0 mg/L NO ₃ -N) | * | 100 mg/L NO ₃ -N | 0.100 | 5.0 |
| LLC (0.01 mg/L NO ₃ -N) | * | 0.10 mg/L NO ₃ -N | 0.500 | 5.0 |

Calibration for 1120NOX-DAT

NOX

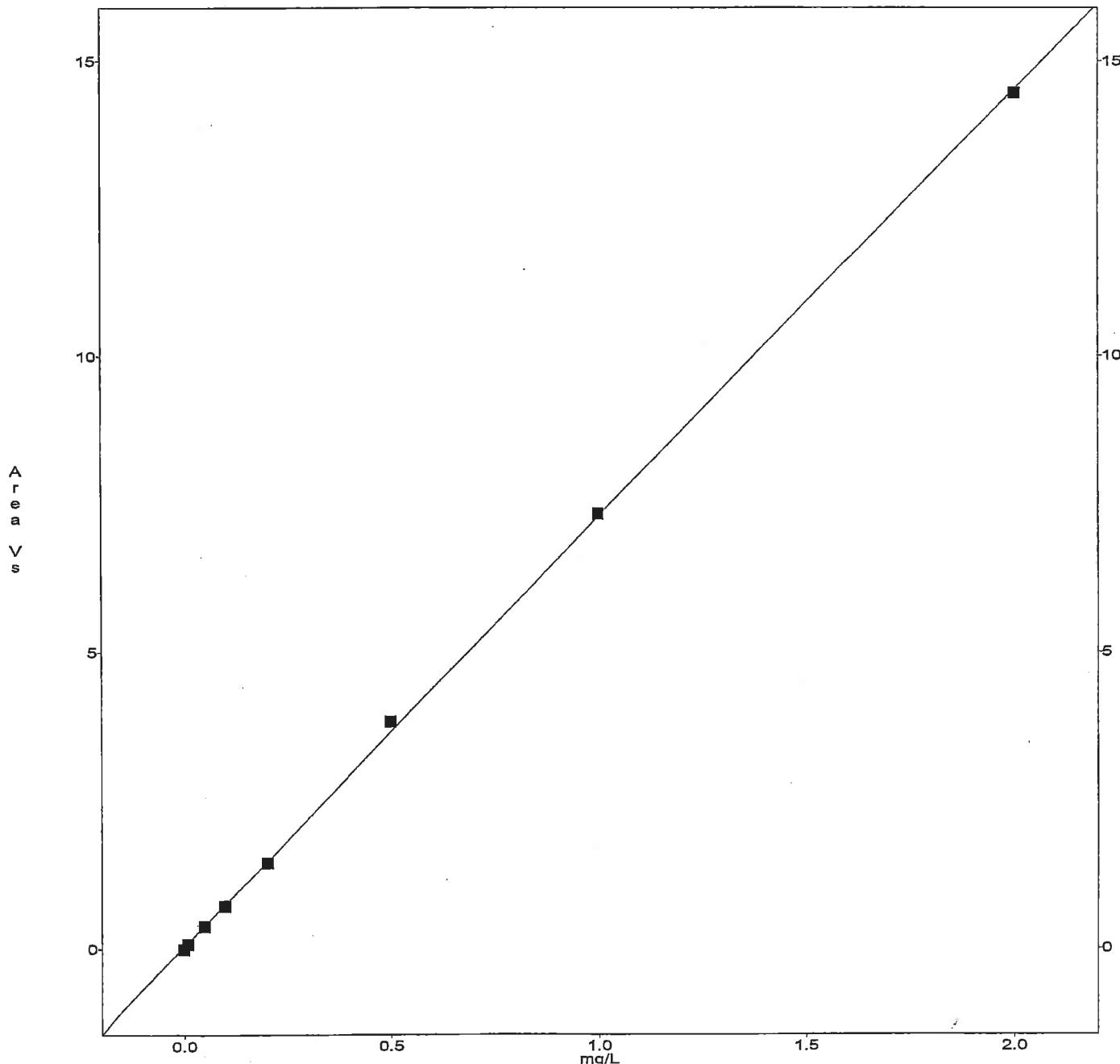
Flur 11/20/08

| Lvl | Area | mg/L | Rep 1 | Rep 2 | Rep 3 | Rep 4 | Rep 5 | Replic STD | Replic % RSD | Residual 1st Poly |
|-----|----------|------|----------|-------|-------|-------|-------|------------|--------------|-------------------|
| 1 | 14457950 | 2.00 | 14457950 | | | | | 0.0 | 0.0 | 0.4 |
| 2 | 7334469 | 1.00 | 7334469 | | | | | 0.0 | 0.0 | -0.7 |
| 3 | 3833617 | 0.50 | 3833617 | | | | | 0.0 | 0.0 | -4.6 |
| 4 | 1469502 | 0.20 | 1469502 | | | | | 0.0 | 0.0 | 1.7 |
| 5 | 736860 | 0.10 | 736860 | | | | | 0.0 | 0.0 | 4.6 |
| 6 | 391398 | 0.05 | 391398 | | | | | 0.0 | 0.0 | 4.7 |
| 7 | 87168 | 0.01 | 87168 | | | | | 0.0 | 0.0 | 43.7 |
| 8 | 0 | 0.00 | 0 | | | | | 0.0 | 0.0 | |
| 9 | | 0.00 | | | | | | 0.0 | 0.0 | |

1st Order Poly

Conc = 1.382e-007 Area - 6.412e-003
 $r = 0.9999$

Scaling: None - Weighting: None



Creator: WETCHEM
Creation Date: Nov 20, 2008 14:01:23
Last Modified: Nov 20, 2008 15:35:17
Description: NOX(353.2);100PPM NO3(1ST):ST080722-8;100PPM NO3(2ND):ST080225-1;50PPM NO2:ST081027-5;NH4CLBUFFER:RG081106-2;SULFANILAMIDE:RG081106-1;CD COLUMN:RG070827-1;10N NAOH:RG080115-3 (*=PEAK INTERFERENCE)

PSW
11/20/08

RwL 11/20/08

| Cup # | Sample ID | Manual Dilution | Sample Type |
|-------|----------------|-----------------|-------------|
| 1 | 2.000 NO3-N | 1.0000 | CalStd |
| 2 | 1.000 NO3-N | 1.0000 | CalStd |
| 3 | 0.500 NO3-N | 1.0000 | CalStd |
| 4 | 0.200 NO3-N | 1.0000 | CalStd |
| 5 | 0.100 NO3-N | 1.0000 | CalStd |
| 6 | 0.050 NO3-N | 1.0000 | CalStd |
| 7 | 0.010 NO3-N | 1.0000 | CalStd |
| 8 | 0.000 NO3-N | 1.0000 | CalStd |
| 1 | 1.000 NO2-N | 1.0000 | Unknown |
| 2 | ICV | 1.0000 | Unknown |
| 3 | ICB | 1.0000 | Unknown |
| 4 | NN081120-1MB | 1.0000 | Unknown |
| 5 | NN081120-1LCS | 1.0000 | Unknown |
| 6 | 0811128-1 | 1.0000 | Unknown |
| 7 | 0811128-1MS | 1.0000 | Unknown |
| 8 | 0811128-1MSD | 1.0000 | Unknown |
| 9 | 0811110-1 | 1.0000 | Unknown |
| 10 | 0811110-2 5X | 1.0000 | Unknown |
| 11 | 0811122-1 200X | 1.0000 | Unknown |
| 12 | 0811122-2 50X | 1.0000 | Unknown |
| 13 | 0811122-3 200X | 1.0000 | Unknown |
| 14 | CCV | 1.0000 | Unknown |
| 15 | CCB | 1.0000 | Unknown |
| 16 | 0811122-4 5X | 1.0000 | Unknown |
| 17 | 0811122-5 5X | 1.0000 | Unknown |
| 18 | 0811122-6 | 1.0000 | Unknown |
| 19 | 0811122-7 | 1.0000 | Unknown |
| 20 | 0811122-8 | 1.0000 | Unknown |
| 21 | 0811122-9 5X | 1.0000 | Unknown |
| 22 | 0811122-10 | 1.0000 | Unknown |
| 23 | 0811122-11 | 1.0000 | Unknown |
| 24 | 0811122-12 5X | 1.0000 | Unknown |
| 25 | 0811132-1 | 1.0000 | Unknown |
| 26 | CCV | 1.0000 | Unknown |
| 27 | CCB | 1.0000 | Unknown |
| 28 | 0811132-2 | 1.0000 | Unknown |
| 29 | 0811132-3 | 1.0000 | Unknown |
| 30 | 0811110-1 | 1.0000 | Unknown |
| 31 | 0811110-2 | 1.0000 | Unknown |
| 32 | 0811122-3 500X | 1.0000 | Unknown |
| 33 | 0811122-4 | 1.0000 | Unknown |
| 34 | 0811122-10 5X | 1.0000 | Unknown |

| Cup # | Sample ID | Manual Dilution | Sample Type | |
|-------|----------------|-----------------|-------------|--|
| 35 | 0811122-12 50X | 1.0000 | Unknown | |
| 36 | 0811132-2 10X | 1.0000 | Unknown | |
| 37 | CCV | 1.0000 | Unknown | |
| 38 | CCB | 1.0000 | Unknown | |

11/20/08

INSTRUMENT: Flow Injection Analysis**TRAY: 1120NOX.TRA METHOD: 1120NOX.MET DATAFILE: 1120NOX.FDT**
DATE/TIME: Thu Nov 20 14:47:22 2008 OPERATOR: WETCHEM

Cup# 1 Sample: 1.000 NO2-N Type: Unknown Rep# 1/1
Ch 1: NOX = 1.0803 mg/L
Cup# 2 Sample: ICV Type: Unknown Rep# 1/1
Ch 1: NOX = 0.5280 mg/L
Cup# 3 Sample: ICB Type: Unknown Rep# 1/1
Ch 1: NOX = -0.0064 mg/L
Cup# 4 Sample: NN081120-1MB Type: Unknown Rep# 1/1
Ch 1: NOX = -0.0064 mg/L
Cup# 5 Sample: NN081120-1LCS Type: Unknown Rep# 1/1
Ch 1: NOX = 0.5253 mg/L
Cup# 6 Sample: 0811128-1 Type: Unknown Rep# 1/1
Ch 1: NOX = 0.0022 mg/L
Cup# 7 Sample: 0811128-1MS Type: Unknown Rep# 1/1
Ch 1: NOX = 0.4234 mg/L
Cup# 8 Sample: 0811128-1MSD Type: Unknown Rep# 1/1
Ch 1: NOX = 0.4242 mg/L
Cup# 9 Sample: 0811110-1 Type: Unknown Rep# 1/1
Ch 1: NOX = 0.0118 mg/L
Cup# 10 Sample: 0811110-2 5X Type: Unknown Rep# 1/1
Ch 1: NOX = 0.0008 mg/L
Cup# 11 Sample: 0811122-1 200X Type: Unknown Rep# 1/1
Ch 1: NOX = 0.9572 mg/L
Cup# 12 Sample: 0811122-2 50X Type: Unknown Rep# 1/1
Ch 1: NOX = 0.6869 mg/L
Cup# 13 Sample: 0811122-3 200X Type: Unknown Rep# 1/1
Ch 1: NOX = 2.3059 mg/L
Cup# 14 Sample: CCV Type: Unknown Rep# 1/1
Ch 1: NOX = 1.0110 mg/L
Cup# 15 Sample: CCB Type: Unknown Rep# 1/1
Ch 1: NOX = -0.0064 mg/L
Cup# 16 Sample: 0811122-4 5X Type: Unknown Rep# 1/1
Ch 1: NOX = 0.0015 mg/L
Cup# 17 Sample: 0811122-5 5X Type: Unknown Rep# 1/1
Ch 1: NOX = 0.5389 mg/L
Cup# 18 Sample: 0811122-6 Type: Unknown Rep# 1/1
Ch 1: NOX = 0.2299 mg/L
Cup# 19 Sample: 0811122-7 Type: Unknown Rep# 1/1
Ch 1: NOX = 0.0568 mg/L
Cup# 20 Sample: 0811122-8 Type: Unknown Rep# 1/1
Ch 1: NOX = 0.0670 mg/L
Cup# 21 Sample: 0811122-9 5X Type: Unknown Rep# 1/1
Ch 1: NOX = 0.8168 mg/L
Cup# 22 Sample: 0811122-10 Type: Unknown Rep# 1/1
Ch 1: NOX = 3.5966 mg/L
Cup# 23 Sample: 0811122-11 Type: Unknown Rep# 1/1
Ch 1: NOX = 1.0197 mg/L
Cup# 24 Sample: 0811122-12 5X Type: Unknown Rep# 1/1
Ch 1: NOX = 5.5796 mg/L
Cup# 25 Sample: 0811132-1 Type: Unknown Rep# 1/1
Ch 1: NOX = 0.0464 mg/L
Cup# 26 Sample: CCV Type: Unknown Rep# 1/1
Ch 1: NOX = 1.0083 mg/L
Cup# 27 Sample: CCB Type: Unknown Rep# 1/1
Ch 1: NOX = -0.0064 mg/L
Cup# 28 Sample: 0811132-2 Type: Unknown Rep# 1/1
Ch 1: NOX = 6.0382 mg/L
Cup# 29 Sample: 0811132-3 Type: Unknown Rep# 1/1
Ch 1: NOX = 0.0074 mg/L
Cup# 30 Sample: 0811110-1 Type: Unknown Rep# 1/1
Ch 1: NOX = 0.0123 mg/L
Cup# 31 Sample: 0811110-2 Type: Unknown Rep# 1/1
Ch 1: NOX = 0.0095 mg/L
Cup# 32 Sample: 0811122-3 500X Type: Unknown Rep# 1/1
Ch 1: NOX = 0.8836 mg/L

Cup# 33 Sample: 0811122-4 Type: Unknown Rep# 1/1
Ch 1: NOX = 0.0219 mg/L
Cup# 34 Sample: 0811122-10 5X Type: Unknown Rep# 1/1
Ch 1: NOX = 0.9511 mg/L
Cup# 35 Sample: 0811122-12 50X Type: Unknown Rep# 1/1
Ch 1: NOX = 0.5063 mg/L
Cup# 36 Sample: 0811132-2 10X Type: Unknown Rep# 1/1
Ch 1: NOX = 0.8927 mg/L
Cup# 37 Sample: CCV Type: Unknown Rep# 1/1
Ch 1: NOX = 1.0182 mg/L
Cup# 38 Sample: CCB Type: Unknown Rep# 1/1
Ch 1: NOX = -0.0028 mg/L
***** Tray Run Complete *****

pH Calculations and Quality Control Results

Prep & Analysis Date: 11/18/2008

Prep & Analysis Time: 0900-1330

Analyst: JBM

JBM
11/18/08

Reagent List:

4.01:

10.01:

ST081013-1

ST081013-3

7.00 (CCV):

7.00 (ICV):

ST081013-2

ST081013-4

JBM
11/18/08

| ID | Temp. (°C) | Method | sample vol (g) | sample vol (mL) | pH Value | QC Acceptance Range (pH units) |
|-----------------|---------------|--------|----------------------|-----------------------|----------|---|
| pH 4.01 | 26.2 | NA | NA | NA | 4.01 | |
| pH 7.00 | 26.2 | NA | NA | NA | 7.00 | |
| pH 10.01 | 26.2 | NA | NA | NA | 10.01 | |
| ICV - pH 7.00 | 26.2 | NA | NA | NA | 6.98 | +/- 0.05 |
| 0811129-1 | 26.2 | SW9040 | NA | 20.0 | 7.28 | |
| 0811129-1DUP | 26.2 | SW9040 | NA | 20.0 | 7.24 | |
| 0811110-1 | 26.2 | SW9040 | NA | 20.0 | 6.61 | |
| 0811110-2 | 26.2 | SW9040 | NA | 20.0 | 6.77 | |
| 0811134-1 | 26.2 | 150.1 | NA | 20.0 | 7.57 | |
| 0810187-19 REP1 | 26.2 | SW9045 | 20.0 | 20.0 | 7.89 | |
| 0810187-19 REP2 | 26.2 | SW9045 | 20.0 | 20.0 | 7.87 | |
| 0810187-19 REP3 | 26.2 | SW9045 | 20.0 | 20.0 | 7.90 | |
| CCV- pH 7.00 | 26.2 | NA | NA | NA | 6.92 | +/- 0.10 |

DUPLICATE SUMMARY (Aq)

| ID | native pH Value | duplic pH Value | difference of native - dup | accept. limit |
|-----------|--------------------|--------------------|-------------------------------|------------------|
| 0811129-1 | 7.28 | 7.24 | 0.04 | 0.2 pH units |

JBM 11/18/08

pH INFORMATION:

SOP 1126 / EPA Method 150.1, 9040B and 9045C

Instrument : Fisher Scientific pH / mV meter model 50 (SN C0000643)

Electrode : Orion - Ross Sure-Flow Electrode Model 81-72BN

JBM
11/18/08

PROJECT Total Phosphorus Digestion

Notebook No. 3594

Continued From Page _____

Date: 11/24/08

Time: 0815-1015

Analyst: JBm

Sample Vol (ml) Final Vol (ml)

PO 081124-1 mB

50.0

50.0

- 1 CCS *

- 1 LCSO ↓

081110-1

-2



* = 0.25ml ST080225-1

Note: LCSO Performed due

Amon. Persulfate: R6080303-1

To lack of Sample Vol. for
ms 1m50.

10% N₂O₄: R6080115-3

Phthalophthalein: R6080908-1

11% H₂SO₄: R6080214-1

Added
Am 2-out

JBm
11/24/08

11/24/08

J BM
11/24/08

Continued on Page _____

Read and Understood By

JBm

Signed

11/24/08

Date

Signed

11/24/08

Date

PHOSPHATE AS P Raw Data Worksheet

Anal Run ID PO081124-1A

Anal Start Date 11/24/2008

Calib Ref ID PO4CAL081124-1

1015-1115

JBM
11/24/08

| Standard | Response | Soln Conc | Units |
|----------|----------|-------------|-------|
| 0 | 0 | -0.01133337 | mg/L |
| 0.05 | 0.049 | 0.05154267 | mg/L |
| 0.1 | 0.087 | 0.1003037 | mg/L |
| 0.25 | 0.208 | 0.255569 | mg/L |
| 0.5 | 0.412 | 0.5173388 | mg/L |
| 0.75 | 0.585 | 0.7393296 | mg/L |
| 1 | 0.786 | 0.9972498 | mg/L |

| | |
|-----------|-------------|
| Slope | 1.283185 |
| Intercept | -0.01133337 |
| RSQ | 0.9993396 |

Run 11/24/08

| Num | Don't Use | ReRun Num | Lab ID | QC Type | Anal Dil | Abs (650nm) | Calc PO4 Conc | Expected | %Rec |
|-----|-------------------------------------|-----------|------------|---------|----------|-------------|---------------|----------|------|
| 1 | <input type="checkbox"/> | 0 | ICV | ICV | 1 | 0.21 | 0.2581354 | 0.25 | 103 |
| 2 | <input type="checkbox"/> | 0 | ICB | ICB | 1 | 0 | -0.0113334 | | |
| 3 | <input type="checkbox"/> | 0 | PO081124-1 | MB | 1 | 0.004 | -0.0062006 | | |
| 4 | <input type="checkbox"/> | 0 | PO081124-1 | LCS | 1 | 0.438 | 0.5507015 | | |
| 5 | <input type="checkbox"/> | 0 | PO081124-1 | LCSD | 1 | 0.432 | 0.5430024 | | |
| 6 | <input checked="" type="checkbox"/> | 0 | 0811110-1 | SMP | 1 | 1.385 | 1.765877 | | |
| 7 | <input checked="" type="checkbox"/> | 0 | 0811110-2 | SMP | 1 | 1.801 | 2.299682 | | |
| 8 | <input type="checkbox"/> | 0 | 0811110-1 | SMP | 5 | 0.519 | 0.6546395 | | |
| 9 | <input type="checkbox"/> | 0 | 0811110-1 | SMP | 5 | 0.529 | 0.6674713 | | |
| 10 | <input type="checkbox"/> | 0 | CCV1 | CCV | 1 | 0.413 | 0.5186219 | 0.5 | 104 |
| 11 | <input type="checkbox"/> | 0 | CCB1 | CCB | 1 | 0 | -0.0113334 | | |

Comments: LCSD PERFORMED DUE TO LACK OF SAMPLE VOL. FOR MS/MSD.

Standards, Batch QC, and Matrix Spike Information

| ID | Parent ID | Parent Conc | Parent Vol. | Final Vol. |
|----------------------|-----------|----------------|-------------|------------|
| 1.00 mg/L PO4-P | * | 100 mg/L PO4-P | 0.200 | 20.0 |
| 0.75 mg/L PO4-P | * | 100 mg/L PO4-P | 0.150 | 20.0 |
| 0.50 mg/L PO4-P | * | 100 mg/L PO4-P | 0.100 | 20.0 |
| 0.25 mg/L PO4-P | * | 100 mg/L PO4-P | 0.050 | 20.0 |
| 0.10 mg/L PO4-P | * | 100 mg/L PO4-P | 0.020 | 20.0 |
| 0.05 mg/L PO4-P | * | 100 mg/L PO4-P | 0.010 | 20.0 |
| CS (0.25mg/L PO4-P) | ** | 100 mg/L PO4-P | 0.050 | 20.0 |
| MSD (0.25mg/L PO4-P) | * | 100 mg/L PO4-P | 0.050 | 20.0 |
| CV (0.25mg/L PO4-P) | ** | 100 mg/L PO4-P | 0.050 | 20.0 |
| CV (0.50mg/L PO4-P) | * | 100 mg/L PO4-P | 0.100 | 20.0 |
| TPHOS LCS | ** | 100 mg/L PO4-P | 0.25 | 50.0 |
| TPHOS MS/MSD | * | 100 mg/L PO4-P | 0.125 | 50.0 |

Reagent List:

PO4-P Prmt Standard 1st Source (*) ST080722-8

PO4-P 2nd Source (**) ST080225-1

Color Reagent RG081124-1

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11/24/08

TDS Raw Data Worksheet

Anal Run ID **TD081118-1A**

Anal Start Date **11/18/2008**

*Prep 11/17/08 1030 - 15/5
Analyses 11/18/08 0830 - 1500
JBM*

Run 11/20/08

| Num | Don't Use | ReRun Num | Lab ID | QC Type | Samp Vol (ml) | Empty Beaker (g) | A - Beaker + Residue gross (g) | A - Net mass (mg) | B - Beaker + Residue gross (g) | B - Net mass (mg) | gross A vs gross B (+/- 0.5mg) | % mass loss (<= 4%) | calculated conc (mg/L) | DL (mg/L) |
|-----|--------------------------|-----------|------------|---------|---------------|------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|---------------------|------------------------|-----------|
| 4 | <input type="checkbox"/> | 0 | TD081117-1 | MB | 100 | 76.5089 | 76.5098 | 0.9 | 76.51 | 1.1 | 0.2 | NA | 11 | 20 |
| 5 | <input type="checkbox"/> | 0 | TD081117-1 | LCS | 100 | 65.3631 | 65.4037 | 40.6 | 65.404 | 40.9 | 0.3 | 0.74% | 409 | 20 |
| 6 | <input type="checkbox"/> | 0 | 0811122-1 | SMP | 25 | 45.0167 | 45.1217 | 105 | 45.1178 | 101.1 | 3.9 | 3.78% | 4044 | 80 |
| 7 | <input type="checkbox"/> | 0 | 0811122-1 | DUP | 25 | 45.1764 | 45.2806 | 104.2 | 45.2769 | 100.5 | 3.7 | 3.62% | 4020 | 80 |
| 8 | <input type="checkbox"/> | 0 | 0811122-2 | SMP | 10 | 21.148 | 21.2186 | 70.6 | 21.2181 | 70.1 | 0.5 | 0.71% | 7010 | 200 |
| 9 | <input type="checkbox"/> | 0 | 0811122-3 | SMP | 5 | 21.772 | 21.8565 | 84.5 | 21.8547 | 82.7 | 1.8 | 2.15% | 16540 | 400 |
| 10 | <input type="checkbox"/> | 0 | 0811122-4 | SMP | 10 | 21.1056 | 21.1475 | 41.9 | 21.1468 | 41.2 | 0.7 | 1.68% | 4120 | 200 |
| 11 | <input type="checkbox"/> | 0 | 0811122-5 | SMP | 100 | 78.4457 | 78.5211 | 75.4 | 78.5216 | 75.9 | 0.5 | 0.66% | 759 | 20 |
| 12 | <input type="checkbox"/> | 0 | 0811122-6 | SMP | 100 | 78.0535 | 78.1149 | 61.4 | 78.1152 | 61.7 | 0.3 | 0.49% | 617 | 20 |
| 13 | <input type="checkbox"/> | 0 | 0811122-7 | SMP | 25 | 43.8003 | 43.8496 | 49.3 | 43.8492 | 48.9 | 0.4 | 0.81% | 1956 | 80 |
| 14 | <input type="checkbox"/> | 0 | 0811122-8 | SMP | 10 | 21.6298 | 21.6704 | 40.6 | 21.6699 | 40.1 | 0.5 | 1.24% | 4010 | 200 |
| 15 | <input type="checkbox"/> | 0 | 0811122-9 | SMP | 10 | 21.1823 | 21.2267 | 44.4 | 21.225 | 42.7 | 1.7 | 3.90% | 4270 | 200 |
| 16 | <input type="checkbox"/> | 0 | 0811122-11 | SMP | 5 | 21.7666 | 21.8107 | 44.1 | 21.8105 | 43.9 | 0.2 | 0.45% | 8780 | 400 |
| 17 | <input type="checkbox"/> | 0 | 0811122-12 | SMP | 10 | 21.2333 | 21.2836 | 50.3 | 21.283 | 49.7 | 0.6 | 1.20% | 4970 | 200 |
| 18 | <input type="checkbox"/> | 0 | 0811122-13 | SMP | 5 | 21.4638 | 21.5234 | 59.6 | 21.5231 | 59.3 | 0.3 | 0.50% | 11860 | 400 |
| 19 | <input type="checkbox"/> | 0 | 0811128-1 | SMP | 100 | 66.0317 | 66.0973 | 65.6 | 66.0975 | 65.8 | 0.2 | 0.30% | 658 | 20 |
| 20 | <input type="checkbox"/> | 0 | 0811129-1 | SMP | 1 | 21.5293 | 21.5597 | 30.4 | 21.5597 | 30.4 | 0 | 0.00% | 30400 | 2000 |
| 21 | <input type="checkbox"/> | 0 | 0811110-1 | SMP | 2 | 21.5059 | 21.5442 | 38.3 | 21.5443 | 38.4 | 0.1 | 0.26% | 19200 | 1000 |
| 22 | <input type="checkbox"/> | 0 | 0811110-2 | SMP | 2 | 21.1586 | 21.1982 | 39.6 | 21.1985 | 39.9 | 0.3 | 0.75% | 19950 | 1000 |

Comments:

Standards, Batch QC, and Matrix Spike Information

| ID | Parent ID | Parent Conc | Parent Vol. | Final Vol. |
|-----|------------|-------------|-------------|------------|
| LCS | ST080414-1 | 40000 | 1 | 100 |

Reagent List:

TDS Spike Solution: 40.0 mg NaCl/mL ST080414-1

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11/18/08*

| Line | Sample | Sample Type | Method | Data File | Comment |
|------|-------------------|-------------|------------|---------------------------------------|-------------------------------|
| 1 | 5X STD | Calibration | 081113.met | c:\peaknet\data\081113\081113_001.dxd | |
| 2 | 10X STD | Calibration | 081113.met | c:\peaknet\data\081113\081113_002.dxd | |
| 3 | 25X STD | Calibration | 081113.met | c:\peaknet\data\081113\081113_003.dxd | |
| 4 | 100X STD | Calibration | 081113.met | c:\peaknet\data\081113\081113_004.dxd | |
| 5 | 1000X STD | Calibration | 081113.met | c:\peaknet\data\081113\081113_005.dxd | |
| 6 | 0 STD | Calibration | 081113.met | c:\peaknet\data\081113\081113_006.dxd | |
| 7 | ICV | Sample | 081113.met | c:\peaknet\data\081113\081113_007.dxd | ICV |
| 8 | ICB | Sample | 081113.met | c:\peaknet\data\081113\081113_008.dxd | ICB |
| 9 | IC081113-1MB | Sample | 081113.met | c:\peaknet\data\081113\081113_009.dxd | WATER |
| 10 | IC081113-1LCS | Sample | 081113.met | c:\peaknet\data\081113\081113_010.dxd | WATER |
| 11 | IC081113-2MB | Sample | 081113.met | c:\peaknet\data\081113\081113_011.dxd | WATER |
| 12 | IC081113-2LCS | Sample | 081113.met | c:\peaknet\data\081113\081113_012.dxd | WATER |
| 13 | 0811099-2 5X | Sample | 081113.met | c:\peaknet\data\081113\081113_013.dxd | F,CL,NO2,BR,NO3,PO4,SO4-300.0 |
| 14 | 0811099-3 10X | Sample | 081113.met | c:\peaknet\data\081113\081113_014.dxd | F,CL,NO2,BR,NO3,PO4,SO4-300.0 |
| 15 | 0811099-3MS 10X | Sample | 081113.met | c:\peaknet\data\081113\081113_015.dxd | F,CL,NO2,BR,NO3,PO4,SO4-300.0 |
| 16 | 0811099-3MSD 10X | Sample | 081113.met | c:\peaknet\data\081113\081113_016.dxd | F,CL,NO2,BR,NO3,PO4,SO4-300.0 |
| 17 | 0811099-4 5X | Sample | 081113.met | c:\peaknet\data\081113\081113_017.dxd | F,CL,NO2,BR,NO3,PO4,SO4-300.0 |
| 18 | 0811099-5 5X | Sample | 081113.met | c:\peaknet\data\081113\081113_018.dxd | F,CL,NO2,BR,NO3,PO4,SO4-300.0 |
| 19 | CCV | Sample | 081113.met | c:\peaknet\data\081113\081113_019.dxd | CCV |
| 20 | CCB | Sample | 081113.met | c:\peaknet\data\081113\081113_020.dxd | CCB |
| 21 | 0811099-2 100X | Sample | 081113.met | c:\peaknet\data\081113\081113_021.dxd | F,CL,NO2,BR,NO3,PO4,SO4-300.0 |
| 22 | 0811099-3 100X | Sample | 081113.met | c:\peaknet\data\081113\081113_022.dxd | F,CL,NO2,BR,NO3,PO4,SO4-300.0 |
| 23 | 0811099-4 50X | Sample | 081113.met | c:\peaknet\data\081113\081113_023.dxd | F,CL,NO2,BR,NO3,PO4,SO4-300.0 |
| 24 | 0811099-5 50X | Sample | 081113.met | c:\peaknet\data\081113\081113_024.dxd | F,CL,NO2,BR,NO3,PO4,SO4-300.0 |
| 25 | 0811101-5 | Sample | 081113.met | c:\peaknet\data\081113\081113_025.dxd | F,CL,NO2,NO3,SO4-300.0 |
| 26 | 0811101-9 | Sample | 081113.met | c:\peaknet\data\081113\081113_026.dxd | F,CL,NO2,NO3,SO4-300.0 |
| 27 | 0811101-13 | Sample | 081113.met | c:\peaknet\data\081113\081113_027.dxd | F,CL,NO2,NO3,SO4-300.0 |
| 28 | 0811101-5 5X | Sample | 081113.met | c:\peaknet\data\081113\081113_028.dxd | F,CL,NO2,NO3,SO4-300.0 |
| 29 | 0811101-9 5X | Sample | 081113.met | c:\peaknet\data\081113\081113_029.dxd | F,CL,NO2,NO3,SO4-300.0 |
| 30 | 0811101-13 5X | Sample | 081113.met | c:\peaknet\data\081113\081113_030.dxd | F,CL,NO2,NO3,SO4-300.0 |
| 31 | CCV | Sample | 081113.met | c:\peaknet\data\081113\081113_031.dxd | CCV |
| 32 | CCB | Sample | 081113.met | c:\peaknet\data\081113\081113_032.dxd | CCB |
| 33 | IC081113-1LCSD | Sample | 081113.met | c:\peaknet\data\081113\081113_033.dxd | WATER |
| 34 | 0811088-1 20X | Sample | 081113.met | c:\peaknet\data\081113\081113_034.dxd | CL,SO4-300.0 |
| 35 | 0811088-1 500X | Sample | 081113.met | c:\peaknet\data\081113\081113_035.dxd | CL,SO4-300.0 |
| 36 | 0811088-2 5X | Sample | 081113.met | c:\peaknet\data\081113\081113_036.dxd | CL,SO4-300.0 |
| 37 | 0811088-3 5X | Sample | 081113.met | c:\peaknet\data\081113\081113_037.dxd | CL,SO4-300.0 |
| 38 | 0811088-4 5X | Sample | 081113.met | c:\peaknet\data\081113\081113_038.dxd | CL,SO4-300.0 |
| 39 | 0811088-5 10X | Sample | 081113.met | c:\peaknet\data\081113\081113_039.dxd | CL,SO4-300.0 |
| 40 | 0811088-6 20X | Sample | 081113.met | c:\peaknet\data\081113\081113_040.dxd | CL,SO4-300.0 |
| 41 | 0811088-7 5X | Sample | 081113.met | c:\peaknet\data\081113\081113_041.dxd | CL,SO4-300.0 |
| 42 | 0811088-8 50X | Sample | 081113.met | c:\peaknet\data\081113\081113_042.dxd | CL,SO4-300.0 |
| 43 | CCV | Sample | 081113.met | c:\peaknet\data\081113\081113_043.dxd | CCV |
| 44 | CCB | Sample | 081113.met | c:\peaknet\data\081113\081113_044.dxd | CCB |
| 45 | 0811088-9 20X | Sample | 081113.met | c:\peaknet\data\081113\081113_045.dxd | CL,SO4-300.0 |
| 46 | 0811088-10 50X | Sample | 081113.met | c:\peaknet\data\081113\081113_046.dxd | CL,SO4-300.0 |
| 47 | 0811088-11 50X | Sample | 081113.met | c:\peaknet\data\081113\081113_047.dxd | CL,SO4-300.0 |
| 48 | 0811088-12 20X | Sample | 081113.met | c:\peaknet\data\081113\081113_048.dxd | CL,SO4-300.0 |
| 49 | 0811088-12MS 20X | Sample | 081113.met | c:\peaknet\data\081113\081113_049.dxd | CL,SO4-300.0 |
| 50 | 0811088-12MSD 20X | Sample | 081113.met | c:\peaknet\data\081113\081113_050.dxd | CL,SO4-300.0 |
| 51 | 0811088-2MS 5X | Sample | 081113.met | c:\peaknet\data\081113\081113_051.dxd | CL,SO4-300.0 |
| 52 | 0811094-1 100X | Sample | 081113.met | c:\peaknet\data\081113\081113_052.dxd | CL,SO4-300.0 |
| 53 | 0811094-2 100X | Sample | 081113.met | c:\peaknet\data\081113\081113_053.dxd | CL,SO4-300.0 |
| 54 | 0811094-3 10X | Sample | 081113.met | c:\peaknet\data\081113\081113_054.dxd | CL,SO4-300.0 |
| 55 | CCV | Sample | 081113.met | c:\peaknet\data\081113\081113_055.dxd | CCV |
| 56 | CCB | Sample | 081113.met | c:\peaknet\data\081113\081113_056.dxd | CCB |
| 57 | 0811094-4 10X | Sample | 081113.met | c:\peaknet\data\081113\081113_057.dxd | CL,SO4-300.0 |
| 58 | 0811094-5 10X | Sample | 081113.met | c:\peaknet\data\081113\081113_058.dxd | CL,SO4-300.0 |
| 59 | 0811094-6 10X | Sample | 081113.met | c:\peaknet\data\081113\081113_059.dxd | CL,SO4-300.0 |
| 60 | 0811094-7 100X | Sample | 081113.met | c:\peaknet\data\081113\081113_060.dxd | CL,SO4-300.0 |
| 61 | 0811092-4 10000X | Sample | 081113.met | c:\peaknet\data\081113\081113_061.dxd | CL,SO4-300.0 |
| 62 | CCV | Sample | 081113.met | c:\peaknet\data\081113\081113_062.dxd | CCV |
| 63 | CCB | Sample | 081113.met | c:\peaknet\data\081113\081113_063.dxd | CCB |
| 64 | STOP.MET | Sample | stop.met | | |

Default Method Path: C:\PEAKNET\METHOD

Default Data Path: C:\PEAKNET\DATA\081104

Comment:

BatchDx created schedule.

Analyst: C 11/14/08

Instrument #1: DIONEX DX-120. ID Serial Number: 99060762

Analytical Column: Dionex IonPac AS14 S/N 022150

Methods: EPA 300.0 and SW9056. Paragon SOP 1113

Eluent: Made daily, 10mL of Eluent Concentrate ID: RG080610-2 to 1000mL of DI water.

| | Final | ID | Aliq |
|-------------------------|-------|------------------------|------|
| cal std level 1 (1000x) | 10.00 | ST080722-8, ST080926-8 | 0.01 |
| cal std level 2 (100x) | 5.00 | " | 0.05 |
| cal std level 3 (25x) | 5.00 | " | 0.20 |
| cal std level 4 (10x) | 5.00 | " | 0.50 |
| cal std level 5 (5x) | 5.00 | " | 1.00 |
| CCV | 5.00 | ST080722-8, ST081027-5 | 0.50 |
| ICV | 5.00 | ST080225-1 | 0.25 |
| | | ST080926-7 | 0.05 |
| LCS(aq) | 5.00 | ST080225-1 | 0.25 |
| | | ST081027-4 | 0.05 |
| MS/MSD (waters) | 5.00 | ST080219-9 | 0.05 |
| | | ST081027-3 | 0.05 |

Dilutions Table: All to 5mL Final Volume

10X 0.5mL

PeakNet 5.1

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5BM
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11/14/08 10:21:57 AM

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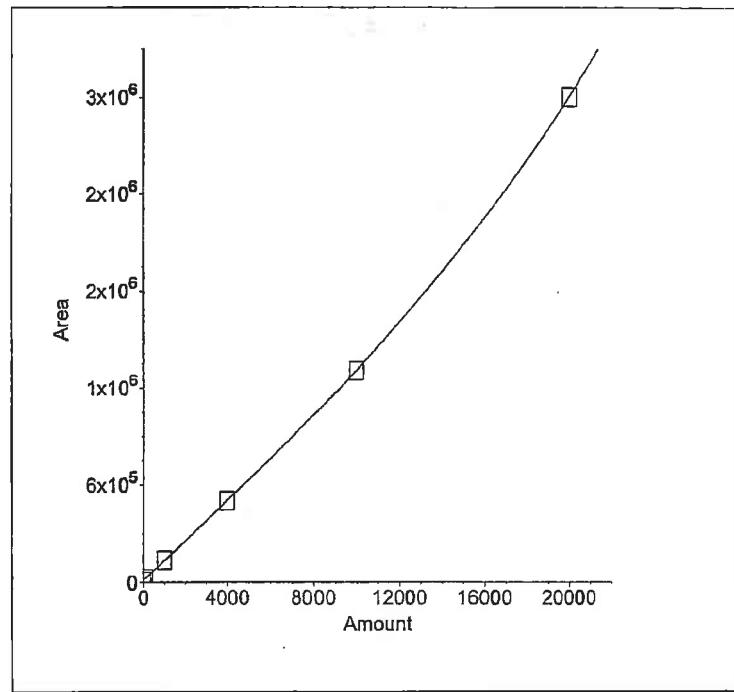
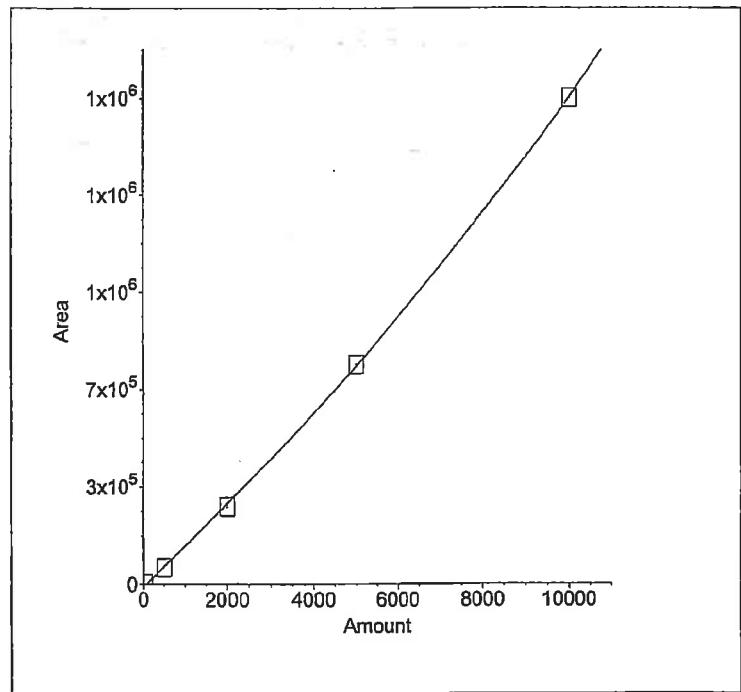
20X 0.25mL
25X 0.2mL
50X 0.1mL
100X 0.05mL
200X 0.025mL
500X 0.01mL

1. Component:Fluoride

Standard:External Fit Type:Quadratic
 Origin:Ignore Calibration:Area
 $r^2=0.999829$
 Amt=-5.650616e-010*Resp²+
 6.354572e-003*Resp+82.16

2. Component:Chloride

Standard:External Fit Type:Quadratic
 Origin:Ignore Calibration:Area
 $r^2=0.999989$
 Amt=-4.801237e-010*Resp²+
 7.579884e-003*Resp+109.3

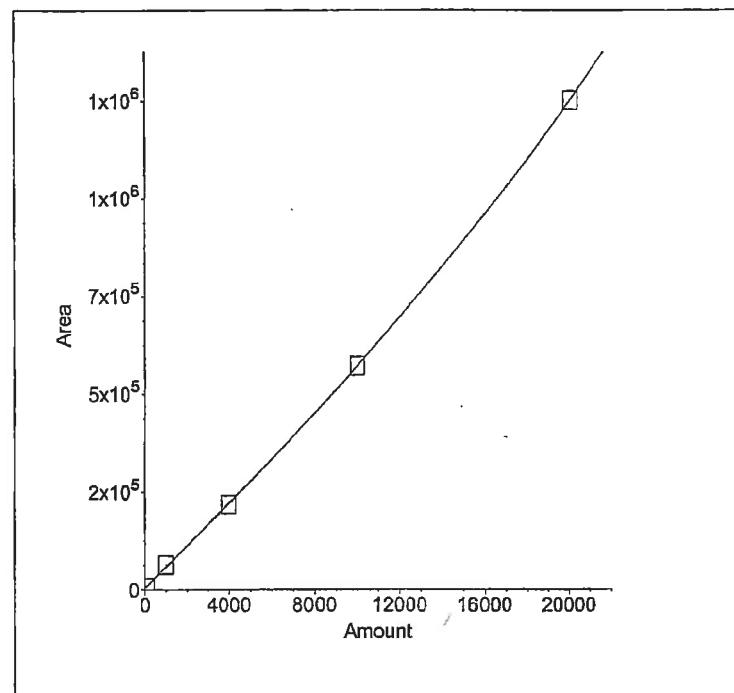
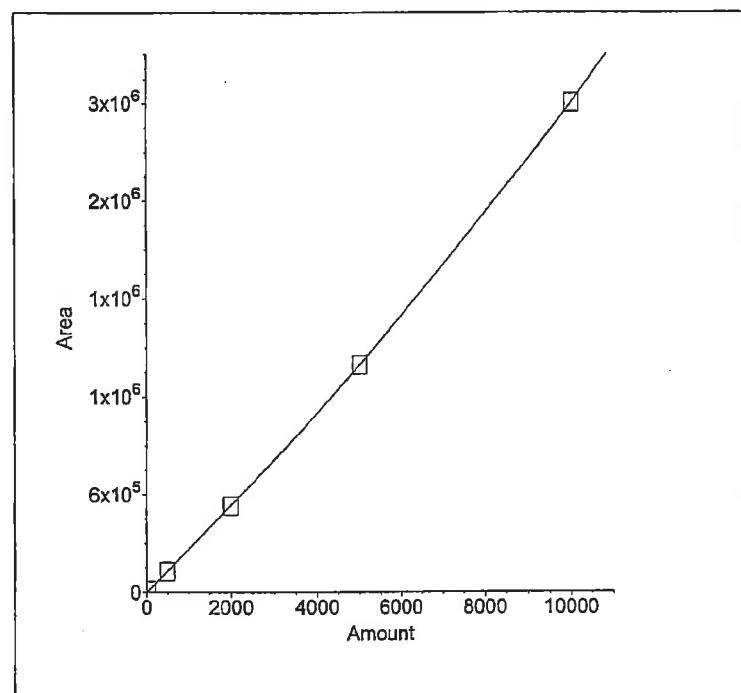
JBM
11/17/08

3. Component:Nitrite as N

Standard:External Fit Type:Quadratic
 Origin:Ignore Calibration:Area
 $r^2=0.999996$
 Amt=-1.442503e-010*Resp²+
 3.612962e-003*Resp+14.36

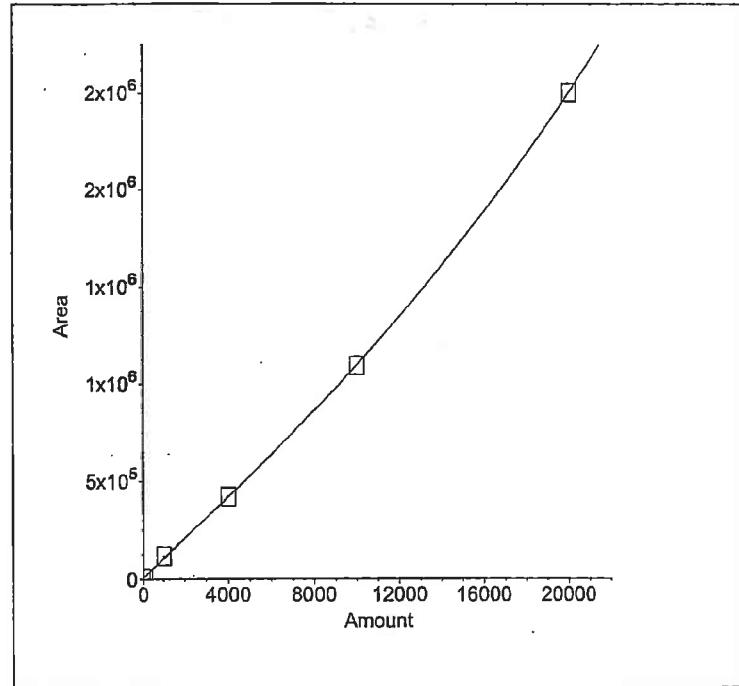
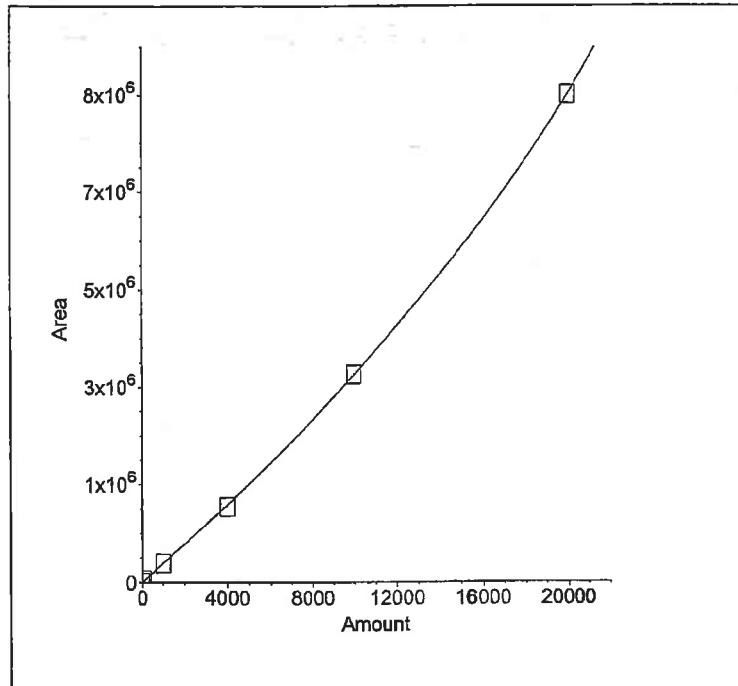
4. Component:Bromide

Standard:External Fit Type:Quadratic
 Origin:Ignore Calibration:Area
 $r^2=0.99992$
 Amt=-2.235463e-009*Resp²+
 1.839618e-002*Resp+85.12



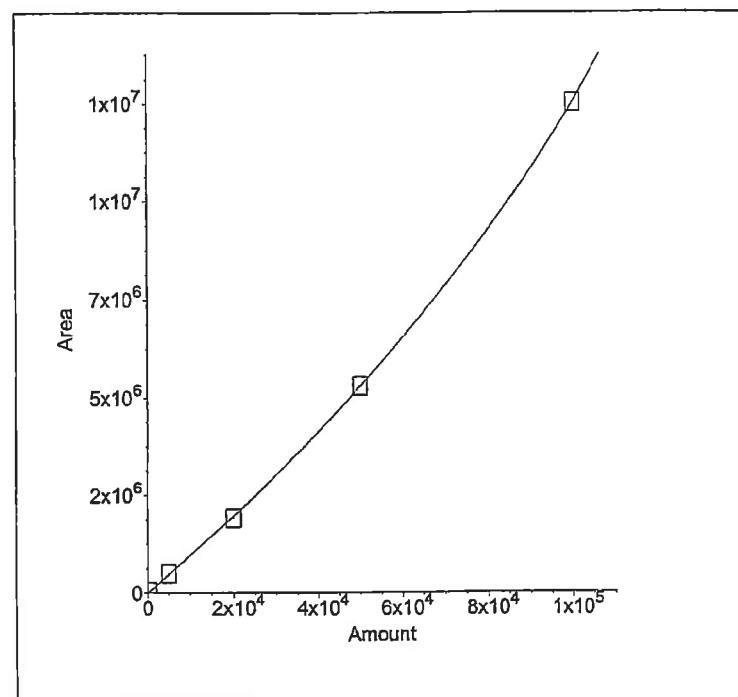
5. Component:Nitrate as N
Standard:External Fit Type:Quadratic
Origin:Ignore Calibration:Area
 $r^2=0.999955$
Amt=-7.888965e-011*Resp²+
2.949426e-003*Resp+15.72

6. Component:Orthophosphate as P
Standard:External Fit Type:Quadratic
Origin:Ignore Calibration:Area
 $r^2=0.999905$
Amt=-5.968082e-010*Resp²+
8.626242e-003*Resp+41.82



7. Component:Sulfate
Standard:External Fit Type:Quadratic
Origin:Ignore Calibration:Area
 $r^2=0.999944$
Amt=-1.801819e-010*Resp²+
9.929601e-003*Resp+221.1

8. Component:Nitrate/Nitrite as N
Standard:External Fit Type:
Origin:Ignore Calibration:Area



(No Levels Component)

Method Report - 081113.met

Method Information : Select Module(s)

System Name : DX120

System Number : 1

Method Type : Ion Chromatography

Column : AS14 4-MM

Analyst : SJL

Comment : Flow rate = 1.2 mL/min,
Eluent = 3.5mM Na₂CO₃ / 1.0 mM NaHCO₃

DX-120 Timed Events

Module Name :

Module Serial Number :

System Mode : Column

Column : A

Pump : On

SRS / Cell : On

Eluent Pressure : On

Pressure Unit : psi

TTL 1 Label : TTL 1

TTL 2 Label : TTL 2

Comment :

| Time | Offset | Valve | TTL1 | TTL2 | AC | Collect |
|-------|--------|--------|------|------|-----|---------|
| Init | * | Load | Low | Low | Off | |
| 0.00 | | Load | Low | Low | Off | Begin |
| 0.01 | | Inject | Low | Low | Off | |
| 0.40 | | Load | Low | Low | Off | |
| 13.80 | | Load | High | Low | Off | |
| 13.90 | | Load | Low | Low | Off | |

DX-120 Detector Parameters

Detector Type : DX-120

Data collection time (minutes) : 16.00

Data Collection Rate : 5.00

Real time plot scale maximum (μ S) : 40.000

Real time plot scale minimum (μ S) : -3.000

DX-120 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 8.00
Peak threshold : 0.50
Peak area reject (area counts) : 800.00
Reference peak area reject (area counts) : 800.00

DX-120 Smoothing Parameters

Filter Type : No filter

DX-120 Report Data

Report Format File : C:\PeakNet\method\Default2.rpt
Print Sample Analysis : Yes
Print Calibration Update : Yes
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

DX-120 Integration Data Events

| | |
|-------------|--------------------------------------|
| Time | Description |
| 0.00 | Stop peak detection |
| 0.05 | Force baseline at start of all peaks |
| 1.90 | Start peak detection |
| 2.20 | Void volume treatment for this peak |
| 3.00 | Void volume treatment for this peak |

DX-120 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units : ug/L
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

DX-120 Component Identification Table

| Component | Retention | Tolerance | Reference |
|----------------------|-----------|-----------|-----------|
| Fluoride | 3.51 min | 5.00 % | |
| Chloride | 5.13 min | 5.00 % | |
| Nitrite as N | 6.33 min | 4.90 % | |
| Bromide | 8.27 min | 7.30 % | |
| Nitrate as N | 9.77 min | 10.00 % | |
| Orthophosphate as P | 11.76 min | 4.10 % | |
| Sulfate | 14.13 min | 4.10 % | |
| Nitrate/Nitrite as N | 20.00 min | 5.00 % | |

DX-120 Component Quantitation Table

| Component | Retention | Low Limit | High Limit |
|----------------------|-----------|-----------|------------|
| Fluoride | 3.51 min | 100 | 10000 |
| Chloride | 5.13 min | 200 | 20000 |
| Nitrite as N | 6.33 min | 100 | 10000 |
| Bromide | 8.27 min | 200 | 20000 |
| Nitrate as N | 9.77 min | 200 | 20000 |
| Orthophosphate as P | 11.76 min | 300 | 20000 |
| Sulfate | 14.13 min | 500 | 100000 |
| Nitrate/Nitrite as N | 20.00 min | 0 | 0 |

DX-120 Component Calibration Table

| Component | Retention Time | Curve Fit | Origin | Cal. by | Response Component | Relative Factor |
|----------------------|----------------|-----------|--------|---------|--------------------|-----------------|
| Fluoride | 3.51 min | Quadratic | Ignore | Area | | 0.00 |
| Chloride | 5.13 min | Quadratic | Ignore | Area | | 0.00 |
| Nitrite as N | 6.33 min | Quadratic | Ignore | Area | | 0.00 |
| Bromide | 8.27 min | Quadratic | Ignore | Area | | 0.00 |
| Nitrate as N | 9.77 min | Quadratic | Ignore | Area | | 0.00 |
| Orthophosphate as P | 11.76 min | Quadratic | Ignore | Area | | 0.00 |
| Sulfate | 14.13 min | Quadratic | Ignore | Area | | 0.00 |
| Nitrate/Nitrite as N | 20.00 min | – | Ignore | Area | Fluoride | 0.00 |

DX-120 Component = Fluoride Levels Table

Retention Time : 3.51 min

Amount units : ug/L

Replicate unit type : Area

Number of levels : 6

Number of replicates : 1

| Level | Amount | Replicate 1 |
|--------------|---------------|--------------------|
| 1 | 50.00 | 3692.6 |
| 2 | 500.00 | 63996.2 |
| 3 | 2000.00 | 297178 |
| 4 | 5000.00 | 844230 |
| 5 | 10000.00 | 1.87089e + 006 |
| 6 | 0.00 | 0 |

DX-120 Component = Chloride Levels Table

Retention Time : 5.13 min

Amount units : ug/L

Replicate unit type : Area

Number of levels : 6

Number of replicates : 1

| Level | Amount | Replicate 1 |
|--------------|---------------|--------------------|
| 1 | 100.00 | 25142.4 |
| 2 | 1000.00 | 152698 |
| 3 | 4000.00 | 565628 |
| 4 | 10000.00 | 1.46754e + 006 |
| 5 | 20000.00 | 3.37477e + 006 |
| 6 | 0.00 | 10998.6 |

DX-120 Component = Nitrite as N Levels Table**Retention Time : 6.33 min****Amount units : ug/L****Replicate unit type : Area****Number of levels : 6****Number of replicates : 1**

| Level | Amount | Replicate 1 |
|-------|----------|--------------|
| 1 | 50.00 | 12176.8 |
| 2 | 500.00 | 134526 |
| 3 | 2000.00 | 558626 |
| 4 | 5000.00 | 1.46804e+006 |
| 5 | 10000.00 | 3.16292e+006 |
| 6 | 0.00 | 0 |

DX-120 Component = Bromide Levels Table**Retention Time : 8.27 min****Amount units : ug/L****Replicate unit type : Area****Number of levels : 6****Number of replicates : 1**

| Level | Amount | Replicate 1 |
|-------|----------|--------------|
| 1 | 100.00 | 5717.4 |
| 2 | 1000.00 | 65782.4 |
| 3 | 4000.00 | 226323 |
| 4 | 10000.00 | 590607 |
| 5 | 20000.00 | 1.29594e+006 |
| 6 | 0.00 | 0 |

DX-120 Component = Nitrate as N Levels Table

Retention Time : 9.77 min

Amount units : ug/L

Replicate unit type : Area

Number of levels : 6

Number of replicates : 1

| Level | Amount | Replicate 1 |
|--------------|---------------|--------------------|
| 1 | 100.00 | 35202.4 |
| 2 | 1000.00 | 342646 |
| 3 | 4000.00 | 1.36628e +006 |
| 4 | 10000.00 | 3.78591e +006 |
| 5 | 20000.00 | 8.88468e +006 |
| 6 | 0.00 | 1773.8 |

DX-120 Component = Orthophosphate as P Levels Table

Retention Time : 11.76 min

Amount units : ug/L

Replicate unit type : Area

Number of levels : 6

Number of replicates : 1

| Level | Amount | Replicate 1 |
|--------------|---------------|--------------------|
| 1 | 100.00 | 2770.4 |
| 2 | 1000.00 | 135395 |
| 3 | 4000.00 | 488636 |
| 4 | 10000.00 | 1.27159e +006 |
| 5 | 20000.00 | 2.90988e +006 |
| 6 | 0.00 | 5277.9 |

DX-120 Component = Sulfate Levels Table

Retention Time : 14.13 min

Amount units : ug/L

Replicate unit type : Area

Number of levels : 6

Number of replicates : 1

| Level | Amount | Replicate 1 |
|--------------|---------------|--------------------|
| 1 | 500.00 | 27819.7 |
| 2 | 5000.00 | 516993 |
| 3 | 20000.00 | 2.01657e+006 |
| 4 | 50000.00 | 5.60439e+006 |
| 5 | 100000.00 | 1.32147e+007 |
| 6 | 0.00 | 0 |

DX-120 Component = Nitrate/Nitrite as N Levels Table

Retention Time : 20.00 min

Amount units : ug/L

Replicate unit type : Area

Number of levels : 0

Number of replicates : 1

DX-120 XY Data Parameters

Calibration Update Report

Sample Name : 5X STD

Data File Name : c:\peaknet\data\081113\081113_001.DXD

Method File Name : c:\peaknet\method\081113.met
Schedule File Name : c:\peaknet\schedule\081113.sch
Date Time Acquired : 11/13/08 12:52:45 PM
Calibration Date : 11/13/08 1:08:46 PM

System Operator : WETCHEM
Datafile Updated : 11/13/08 1:08:46 PM
Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...

Peak Information : All Components

| Peak # | Analyte | Retention Time (min.) | Concentration (ug/L) | Peak Area |
|--------|----------------------|--------------------------|-------------------------|-----------|
| 2 | Fluoride | 3.48 | 10000 | 1870892 |
| 3 | Chloride | 5.07 | 20000 | 3374766 |
| 4 | Nitrite as N | 6.19 | 10000 | 3162921 |
| 5 | Bromide | 7.97 | 20000 | 1295936 |
| 6 | Nitrate as N | 9.25 | 20000 | 8884680 |
| 7 | Orthophosphate as P | 11.68 | 20000 | 2909883 |
| 8 | Sulfate | 14.04 | 100000 | 13214685 |
| | Nitrate/Nitrite as N | | | |

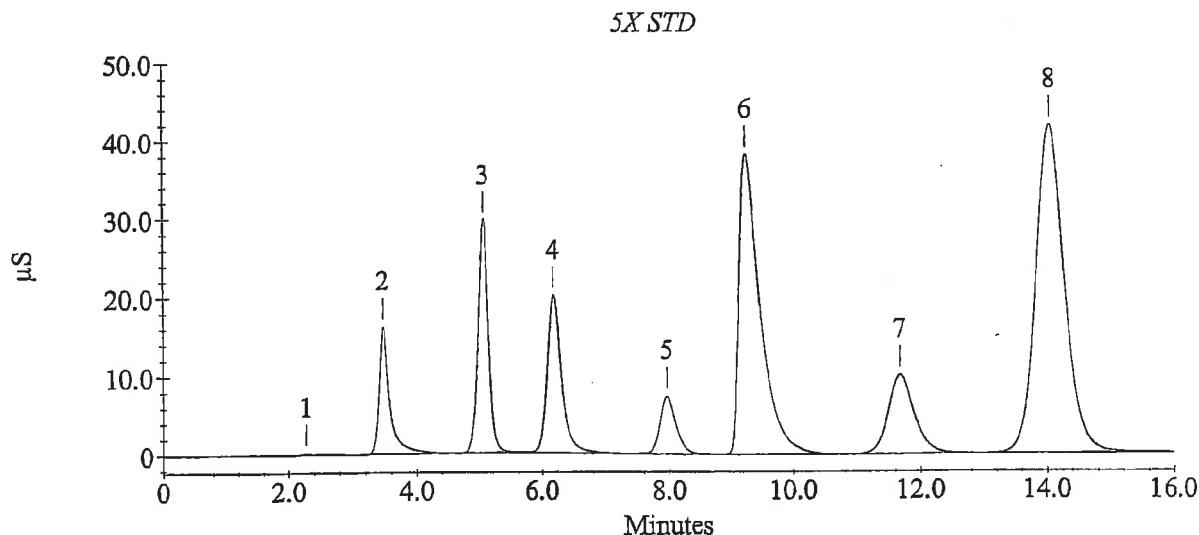
Calibration Update Report

Sample Name : 5X STD

Data File Name : c:\peaknet\data\081113\081113_001.DXD

Method File Name : c:\peaknet\method\081113.met
Schedule File Name : c:\peaknet\schedule\081113.sch
Date Time Acquired : 11/13/08 12:52:45 PM
Calibration Date : 11/13/08 1:08:46 PM

System Operator : WETCHEM
Datafile Updated : 11/13/08 1:08:46 PM
Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...



Calibration Update Report

Sample Name : 10X STD

Data File Name : c:\peaknet\data\081113\081113_002.DXD

Method File Name : c:\peaknet\method\081113.met
Schedule File Name : c:\peaknet\schedule\081113.sch
Date Time Acquired : 11/13/08 1:08:48 PM
Calibration Date : 11/13/08 1:24:48 PM

System Operator : WETCHEM
Datafile Updated : 11/13/08 1:24:48 PM
Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...

Peak Information : All Components

| Peak # | Analyte | Retention Time (min.) | Concentration (ug/L) | Peak Area |
|--------|----------------------|--------------------------|-------------------------|-----------|
| 2 | Fluoride | 3.48 | 5000 | 844230 |
| 3 | Chloride | 5.08 | 10000 | 1467538 |
| 4 | Nitrite as N | 6.24 | 5000 | 1468043 |
| 5 | Bromide | 8.07 | 10000 | 590607 |
| 6 | Nitrate as N | 9.44 | 10000 | 3785913 |
| 7 | Orthophosphate as P | 11.71 | 10000 | 1271585 |
| 8 | Sulfate | 14.09 | 50000 | 5604387 |
| | Nitrate/Nitrite as N | | | |

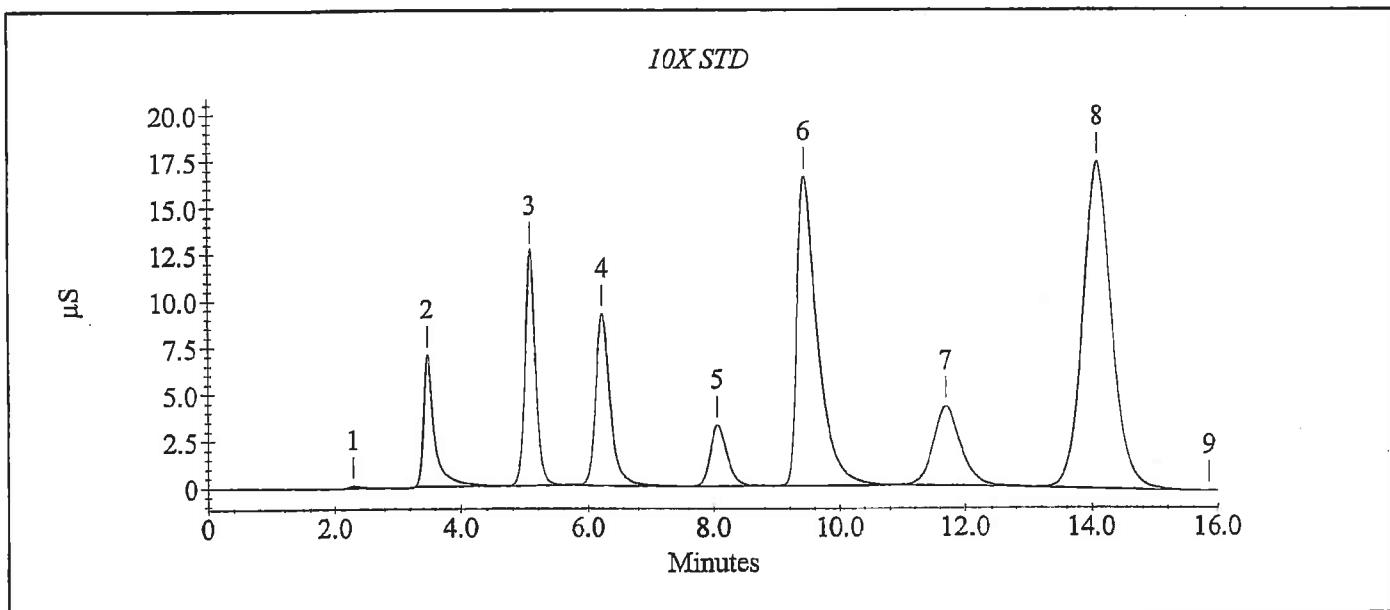
Calibration Update Report

Sample Name : 10X STD

Data File Name : c:\peaknet\data\081113\081113_002.DXD

Method File Name : c:\peaknet\method\081113.met
Schedule File Name : c:\peaknet\schedule\081113.sch
Date Time Acquired : 11/13/08 1:08:48 PM
Calibration Date : 11/13/08 1:24:48 PM

System Operator : WETCHEM
Datafile Updated : 11/13/08 1:24:48 PM
Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...



Calibration Update Report

Sample Name : 25X STD

Data File Name : c:\peaknet\data\081113\081113_003.DXD

Method File Name : c:\peaknet\method\081113.met
Schedule File Name : c:\peaknet\schedule\081113.sch
Date Time Acquired : 11/13/08 1:24:51 PM
Calibration Date : 11/13/08 1:40:51 PM

System Operator : WETCHEM
Datafile Updated : 11/13/08 1:40:51 PM
Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...

Peak Information : All Components

| Peak # | Analyte | Retention Time (min.) | Concentration (ug/L) | Peak Area |
|--------|----------------------|--------------------------|-------------------------|-----------|
| 2 | Fluoride | 3.51 | 2000 | 297178 |
| 3 | Chloride | 5.13 | 4000 | 565628 |
| 4 | Nitrite as N | 6.33 | 2000 | 558626 |
| 5 | Bromide | 8.27 | 4000 | 226323 |
| 6 | Nitrate as N | 9.77 | 4000 | 1366277 |
| 7 | Orthophosphate as P | 11.76 | 4000 | 488636 |
| 8 | Sulfate | 14.13 | 20000 | 2016572 |
| | Nitrate/Nitrite as N | | | |

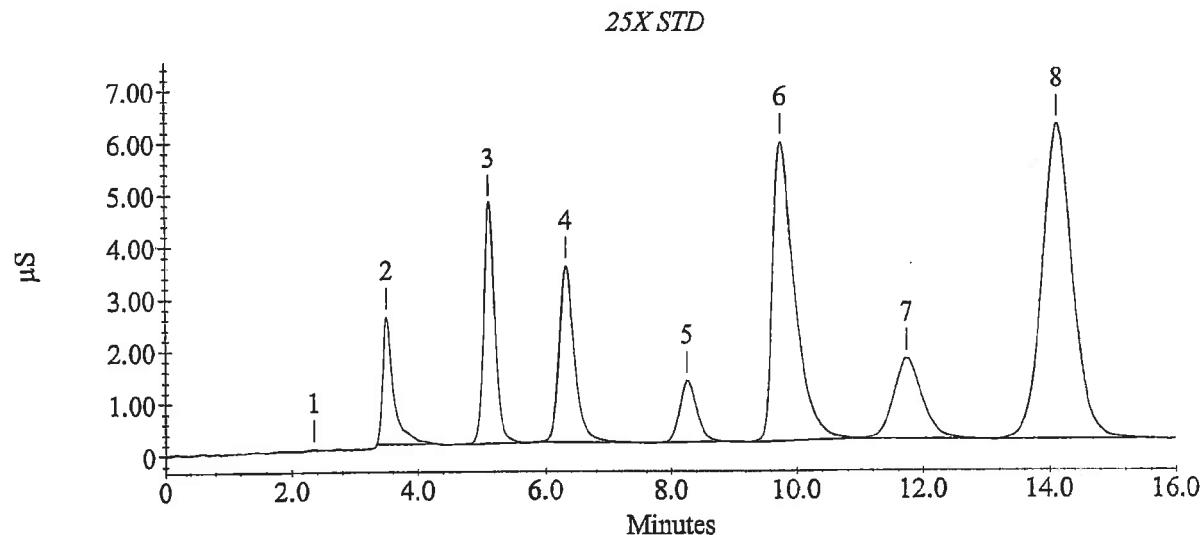
Calibration Update Report

Sample Name : 25X STD

Data File Name : c:\peaknet\data\081113\081113_003.DXD

Method File Name : c:\peaknet\method\081113.met
Schedule File Name : c:\peaknet\schedule\081113.sch
Date Time Acquired : 11/13/08 1:24:51 PM
Calibration Date : 11/13/08 1:40:51 PM

System Operator : WETCHEM
Datafile Updated : 11/13/08 1:40:51 PM
Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...



Calibration Update Report

Sample Name : 100X STD

Data File Name : c:\peaknet\data\081113\081113_004.DXD

Method File Name : c:\peaknet\method\081113.met
Schedule File Name : c:\peaknet\schedule\081113.sch
Date Time Acquired : 11/13/08 1:40:53 PM
Calibration Date : 11/13/08 1:56:53 PM

System Operator : WETCHEM
Datafile Updated : 11/13/08 1:56:53 PM
Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...

Peak Information : All Components

| Peak # | Analyte | Retention Time (min.) | Concentration (ug/L) | Peak Area |
|--------|----------------------|--------------------------|-------------------------|-----------|
| 1 | Fluoride | 3.48 | 500 | 63996 |
| 3 | Chloride | 5.07 | 1000 | 152698 |
| 4 | Nitrite as N | 6.24 | 500 | 134526 |
| 7 | Bromide | 8.13 | 1000 | 65782 |
| 9 | Nitrate as N | 9.77 | 1000 | 342646 |
| 10 | Orthophosphate as P | 11.81 | 1000 | 135395 |
| 11 | Sulfate | 14.21 | 5000 | 516993 |
| | Nitrate/Nitrite as N | | | |

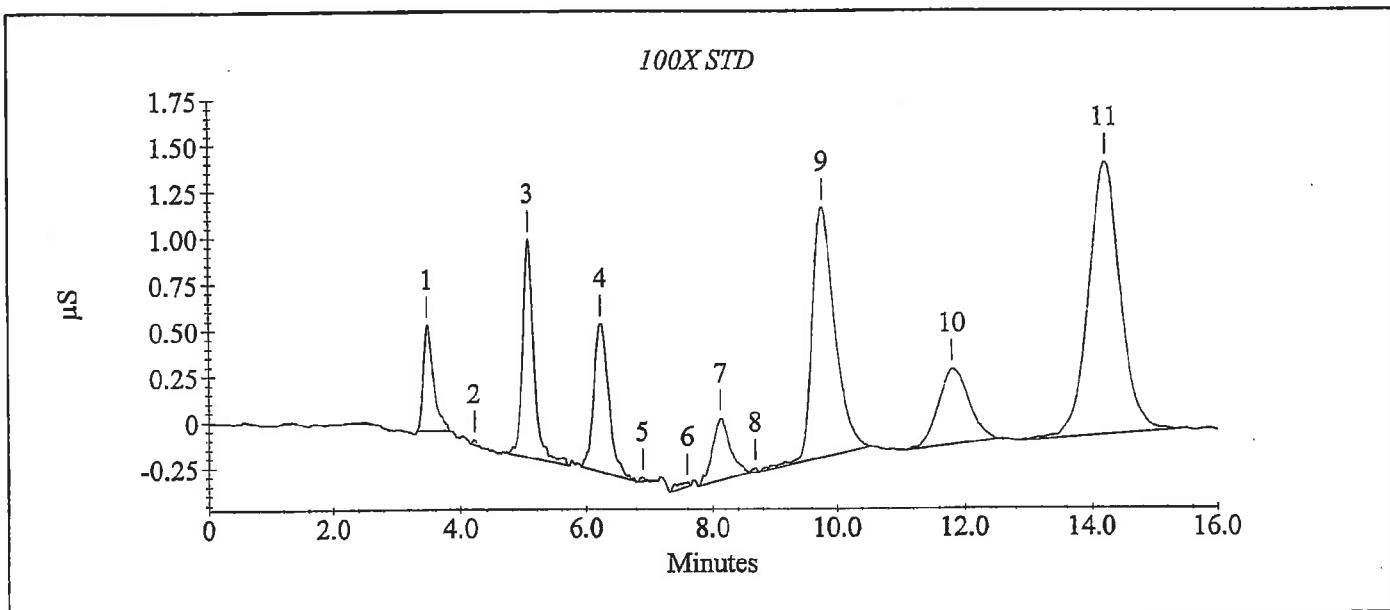
Calibration Update Report

Sample Name : 100X STD

Data File Name : c:\peaknet\data\081113\081113_004.DXD

Method File Name : c:\peaknet\method\081113.met
Schedule File Name : c:\peaknet\schedule\081113.sch
Date Time Acquired : 11/13/08 1:40:53 PM
Calibration Date : 11/13/08 1:56:53 PM

System Operator : WETCHEM
Datafile Updated : 11/13/08 1:56:53 PM
Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...



Calibration Update Report

Sample Name : 1000X STD

Data File Name : c:\peaknet\data\081113\081113_005.DXD

Method File Name : c:\peaknet\method\081113.met
Schedule File Name : c:\peaknet\schedule\081113.sch
Date Time Acquired : 11/13/08 1:56:55 PM
Calibration Date : 11/13/08 2:12:55 PM

System Operator : WETCHEM
Datafile Updated : 11/13/08 2:12:55 PM
Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...

Peak Information : All Components

| Peak # | Analyte | Retention Time (min.) | Concentration (ug/L) | Peak Area |
|--------|----------------------|--------------------------|-------------------------|-----------|
| 1 | Fluoride | 3.48 | 50 | 3693 |
| 2 | Chloride | 5.09 | 100 | 25142 |
| 3 | Nitrite as N | 6.28 | 50 | 12177 |
| 4 | Bromide | 8.12 | 100 | 5717 |
| 5 | Nitrate as N | 9.84 | 100 | 35202 |
| 7 | Orthophosphate as P | 11.77 | 100 | 2770 |
| 11 | Sulfate | 14.16 | 500 | 27820 |
| | Nitrate/Nitrite as N | | | |

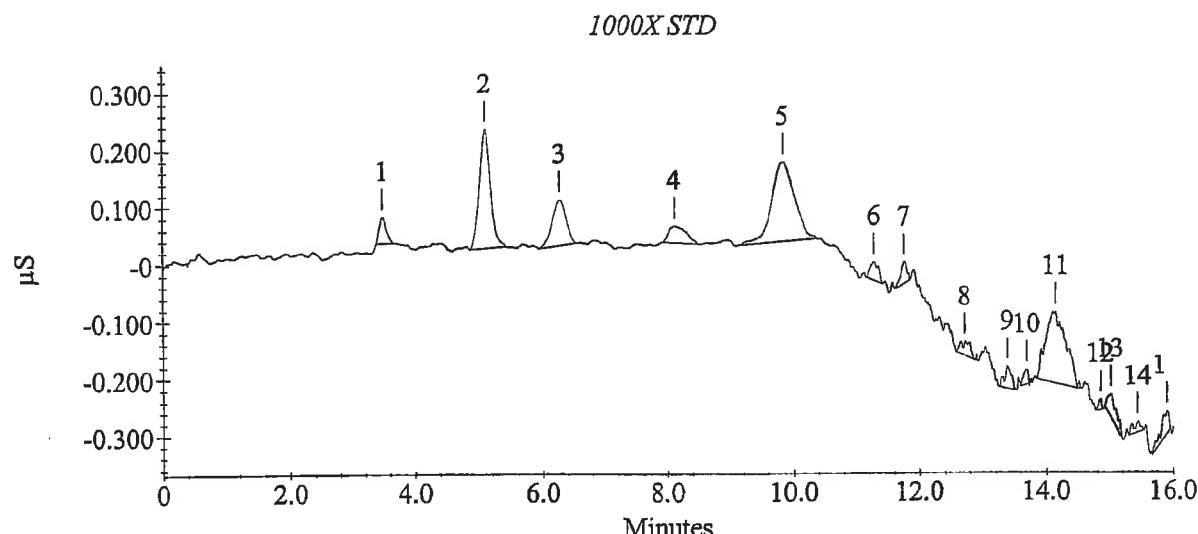
Calibration Update Report

Sample Name : 1000X STD

Data File Name : c:\peaknet\data\081113\081113_005.DXD

Method File Name : c:\peaknet\method\081113.met
Schedule File Name : c:\peaknet\schedule\081113.sch
Date Time Acquired : 11/13/08 1:56:55 PM
Calibration Date : 11/13/08 2:12:55 PM

System Operator : WETCHEM
Datafile Updated : 11/13/08 2:12:55 PM
Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...



Calibration Update Report

Sample Name : 0 STD

Data File Name : c:\peaknet\data\081113\081113_006.DXD

Method File Name : c:\peaknet\method\081113.met
Schedule File Name : c:\peaknet\schedule\081113.sch
Date Time Acquired : 11/13/08 2:12:57 PM
Calibration Date : 11/13/08 2:28:58 PM

System Operator : WETCHEM
Datafile Updated : 11/13/08 2:28:58 PM
Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...

Peak Information : All Components

| Peak # | Analyte | Retention Time (min.) | Concentration (ug/L) | Peak Area |
|--------|----------------------|--------------------------|-------------------------|-----------|
| 1 | | 2.00 | 0 | |
| 4 | Chloride | 5.20 | 0 | 10999 |
| | Nitrite as N | | | |
| | Bromide | | | |
| 6 | Nitrate as N | 9.49 | 0 | 1774 |
| 7 | Orthophosphate as P | 12.12 | 0 | 5278 |
| | Sulfate | | | |
| | Nitrate/Nitrite as N | | | |

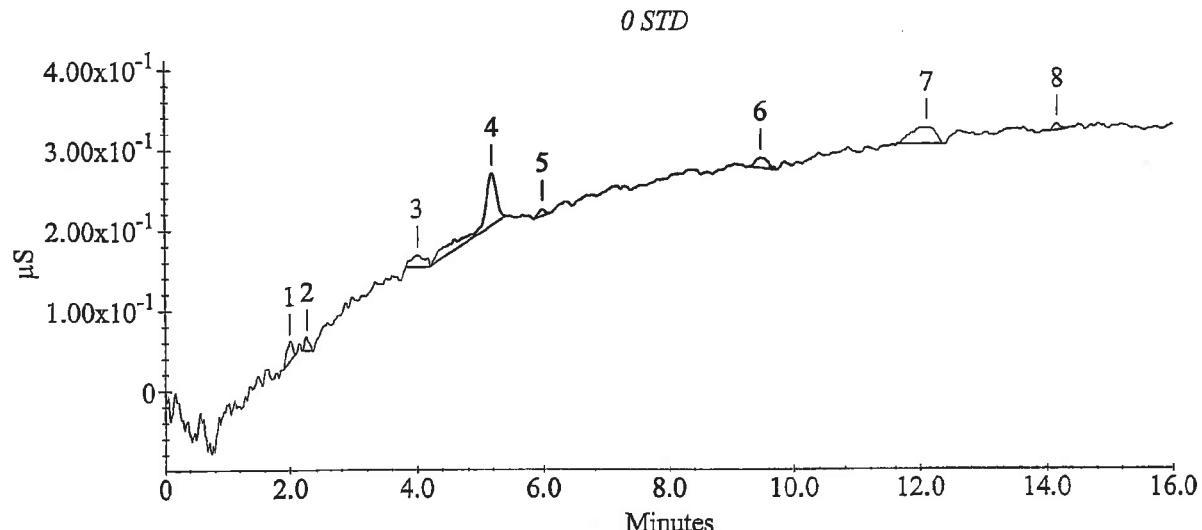
Calibration Update Report

Sample Name : 0 STD

Data File Name : c:\peaknet\data\081113\081113_006.DXD

Method File Name : c:\peaknet\method\081113.met
Schedule File Name : c:\peaknet\schedule\081113.sch
Date Time Acquired : 11/13/08 2:12:57 PM
Calibration Date : 11/13/08 2:28:58 PM

System Operator : WETCHEM
Datafile Updated : 11/13/08 2:28:58 PM
Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...



DAILY VERIFICATION FOR ION CHROMATOGRAPH
 (Used Internally for comparative check purposes)

JBM
 11/17/08

Analysis Date: 11/13/08
 Analyst Name: EAL
 Filename for CV: 081113/081113_007.DXD
 Calibration Date: 11/13/08
 Method ID: 081113.met
 Updated Method date: na

Calibration Equation Verification

| Analyte | calibration type: | 1st regression coefficient | 2nd regression coefficient | A | | A/B *100 agreement % |
|---------|-------------------|----------------------------|----------------------------|-----------|--|----------------------|
| | | | | intercept | conc reported by PeakNet observed peak area ug/L | |
| Cl | quad. incl. 0.0 | 1.801237E+00 | 5.9884E+03 | -109.300 | 736216 | 5211 100.0 |

Retention Time (RT) Verification

| Analyte | RT at calibration | RT in updated method (1st ICV or CCV) | deviation % (calibration vs. update) 10% tolerance | window width tolerance (NA) |
|---------|-------------------|---------------------------------------|---|-----------------------------|
| F | 3.51 | 3.48 | 0.9 | 5.00 % |
| Cl | 5.18 | 5.07 | 1.2 | 5.00 % |
| NO2-N | 6.33 | 6.21 | 1.9 | 4.90 % |
| Br | 8.27 | 8.03 | 2.9 | 7.30 % |
| NO3-N | 9.77 | 9.44 | 3.4 | 10.00 % |
| PO4-P | 11.76 | 11.77 | 0.1 | 4.10 % |
| SO4 | 14.18 | 14.16 | 0.2 | 4.10 % |

Sample Analysis Report

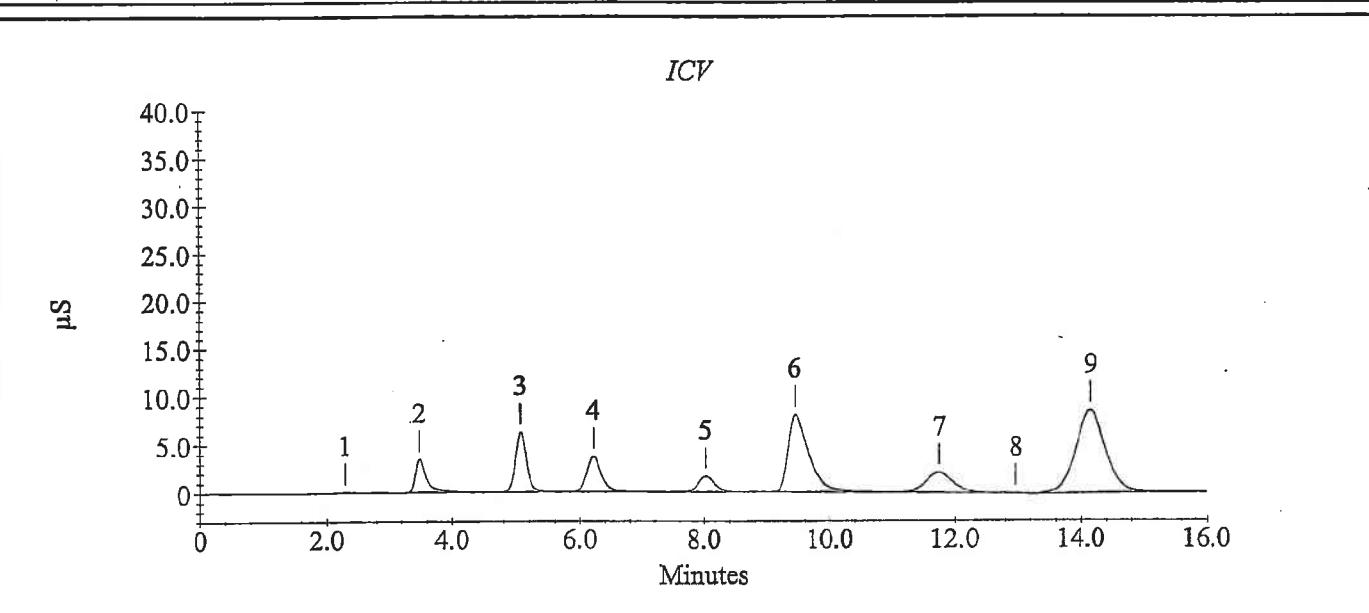
Sample Name : ICV

Data File Name : c:\peaknet\data\081113\081113_007.DXD

Method File Name : C:\PEAKNET\METHOD\081113.met Current Date : 11/13/08
Date, Time Analyzed : 11/13/08 2:29:00 PM Current Time : 2:47:17 PM
System Operator : WETCHEM Datafile Updated : 11/13/08 2:45:00 PM
Calibration Updated : 11/13/08 2:30:48 PM Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...

Peak Information : All Components

| Peak Number | Analyte | Retention Time (min.) | Concentration (ug/L) | Limit Exceeded | Peak Area |
|-------------|----------------------|--------------------------|----------------------|----------------|-----------|
| 2 | Fluoride | 3.48 | 2651.3 | | 419976 |
| 3 | Chloride | 5.07 | 5211.1 | | 736246 |
| 4 | Nitrite as N | 6.21 | 2073.1 | | 583416 |
| 5 | Bromide | 8.03 | 5238.7 | | 300363 |
| 6 | Nitrate as N | 9.44 | 5244.8 | | 1866038 |
| 7 | Orthophosphate as P | 11.77 | 5201.1 | | 635746 |
| 9 | Sulfate | 14.16 | 27135.2 | | 2858791 |
| | Nitrate/Nitrite as N | | | | |



Sample Analysis Report

Sample Name : ICB

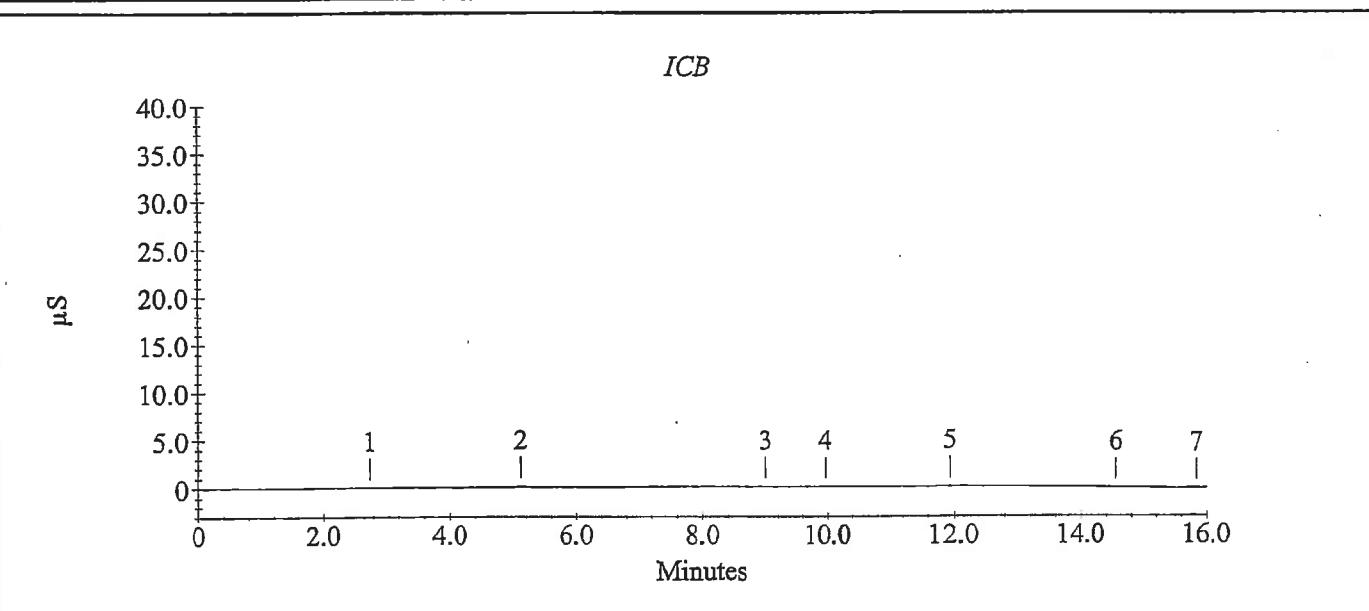
Data File Name : c:\peaknet\data\081113\081113_008.DXD

Method File Name : c:\peaknet\method\081113.met
Date, Time Analyzed : 11/13/08 2:45:02 PM
System Operator : WETCHEM
Calibration Updated : 11/13/08 2:30:48 PM

Current Date : 11/13/08
Current Time : 3:01:02 PM
Datafile Updated : 11/13/08 3:01:02 PM
Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...

Peak Information : All Components

| Peak Number | Analyte | Retention Time (min.) | Concentration (ug/L) | Limit Exceeded | Peak Area |
|-------------|----------------------|--------------------------|----------------------|-------------------|-----------|
| 1 | | 2.75 | 0.0 | - | 639 |
| 2 | Chloride | 5.12 | 5.6 | - | 15166 |
| | Nitrite as N | | | | |
| | Bromide | | | | |
| 4 | Nitrate as N | 9.97 | 18.2 | - | 833 |
| 5 | Orthophosphate as P | 11.95 | 77.8 | - | 13878 |
| 6 | Sulfate | 14.56 | 233.5 | - | 1241 |
| | Nitrate/Nitrite as N | | | | |



CONDUCTIVITY SCREENING WORKSHEET

Instrument ID: VWR Digital Conductivity Meter S/N A22036

| Workorder ID / Sample No. | | Estimated μS | Dilution(s) | Anion(s) | Date | Initials | Comments |
|---------------------------|----|-------------------------|-------------|--|----------|----------|----------|
| 0811094 | 1 | 2500 | 50 | Cl, SO ₄ | 11/12/08 | L | |
| | 2 | ↓ | 50 | | | | |
| | 3 | 600 | 5 | | | | |
| | 4 | 700 | 5 | | | | |
| | 5 | 400 | 5 | | | | |
| | 6 | 1500 | 20 | | | | |
| | 7 | 3500 | 50 | | | | |
| 0811099 | 2 | 4000 | 5 100 | SCAN | 11/13/08 | JBM | |
| | 3 | 6500 | 10 100 | | | | QC |
| | 4 | 2500 | 5 50 | | | | |
| | 5 | 2500 | 5 50 | | | | |
| 0811101 | 5 | 550 | 5 1X | F, Cl, NO ₂ , NO ₃ , SO ₄ | | | |
| | 9 | | | | | | |
| | 13 | ↓ | ↓ | | | | |
| 0811092 | 9 | >200,000 | 10,000 | Cl + SO ₄ | | | |
| 0811122 | 1 | 4400 | 50 | Cl, SO ₄ | 11/17/08 | JBM | |
| | 2 | 8000 | 100 | Cl, SO ₄ | | | |
| | 3 | 16000 | 200 | | | | |
| | 4 | 5100 | 100 | | | | |
| | 5 | 1000 | 20 | | | | |
| | 6 | 800 | 10 | | | | |
| | 7 | 2100 | 50 | | | | |
| | 8 | 4000 | 50 | | | | |
| | 9 | 5100 | 100 | | | | |
| | 11 | 11000 | 200 | | | | |
| | 12 | 5200 | 100 | | | | |
| | 13 | 13000 | 200 | | | | |
| 0811128 | 1 | 800 | 10 | | | | |
| 0811129 | 1 | 70,000 | 100,2000 | F, Cl, Br, Pd, SO ₄ | | | |
| 0811110 | 1 | 40,000 | 50 1000 | F, Br, Cl, Sh | | | |
| | 2 | ↓ | ↓ | ↓ | ↓ | | |
| 0811134 | 1 | 900 | 1 20 | F, Cl, Br, NO ₂ , NO ₃ , SO ₄ | 11/18/08 | JBM | |
| 0811116 | 1 | 5000 | 5 100 | SCAN | | L | SOI |
| | 2 | 3000 | ↓ | ↓ | ↓ | | |
| 0811132 | 1 | 7000 | 500 10 | Cl, SO ₄ | | | |
| | 2 | 25000 | 1 50 | | | | |
| | 3 | 120000 | ↓ 20 | | | | |
| 0811138 | 2 | 2400 | 5 50 | Cl, Sh, Na | | | |
| | 4 | 15000 | 2 50 | | | | |

Reviewed by / Date

11/18/08

Form 1116r4.frm (6/29/04)

| Line | Sample | Sample Type | Method | Data File | Comment |
|------|-------------------|-------------|------------|---------------------------------------|----------------------------------|
| 1 | 5X STD | Calibration | 081113.met | c:\peaknet\data\081113\081113_001.dxd | |
| 2 | 10X STD | Calibration | 081113.met | c:\peaknet\data\081113\081113_002.dxd | |
| 3 | 25X STD | Calibration | 081113.met | c:\peaknet\data\081113\081113_003.dxd | |
| 4 | 100X STD | Calibration | 081113.met | c:\peaknet\data\081113\081113_004.dxd | |
| 5 | 1000X STD | Calibration | 081113.met | c:\peaknet\data\081113\081113_005.dxd | |
| 6 | 0 STD | Calibration | 081113.met | c:\peaknet\data\081113\081113_006.dxd | |
| 7 | ICV | Sample | 081113.met | c:\peaknet\data\081113\081113_007.dxd | ICV |
| 8 | ICB | Sample | 081113.met | c:\peaknet\data\081113\081113_008.dxd | ICB |
| 9 | CCV | Sample | 081113.met | c:\peaknet\data\081117\081117_009.dxd | CCV |
| 10 | CCB | Sample | 081113.met | c:\peaknet\data\081117\081117_010.dxd | CCB |
| 11 | IC081117-1MB | Sample | 081113.met | c:\peaknet\data\081117\081117_011.dxd | WATER |
| 12 | IC081117-1LCS | Sample | 081113.met | c:\peaknet\data\081117\081117_012.dxd | WATER |
| 13 | 0811122-1 50X | Sample | 081113.met | c:\peaknet\data\081117\081117_013.dxd | CL,SO4-300.0 |
| 14 | 0811122-1MS 50X | Sample | 081113.met | c:\peaknet\data\081117\081117_014.dxd | CL,SO4-300.0 |
| 15 | 0811122-1MSD 50X | Sample | 081113.met | c:\peaknet\data\081117\081117_015.dxd | CL,SO4-300.0 |
| 16 | 0811122-2 100X | Sample | 081113.met | c:\peaknet\data\081117\081117_016.dxd | CL,SO4-300.0 |
| 17 | 0811122-3 200X | Sample | 081113.met | c:\peaknet\data\081117\081117_017.dxd | CL,SO4-300.0 |
| 18 | 0811122-4 100X | Sample | 081113.met | c:\peaknet\data\081117\081117_018.dxd | CL,SO4-300.0 |
| 19 | 0811122-5 20X | Sample | 081113.met | c:\peaknet\data\081117\081117_019.dxd | CL,SO4-300.0 |
| 20 | 0811122-6 10X | Sample | 081113.met | c:\peaknet\data\081117\081117_020.dxd | CL,SO4-300.0 |
| 21 | CCV | Sample | 081113.met | c:\peaknet\data\081117\081117_021.dxd | CCV ————— F = 113%; P6,7 = 112%. |
| 22 | CCB | Sample | 081113.met | c:\peaknet\data\081117\081117_022.dxd | CCB |
| 23 | 0811122-7 50X | Sample | 081113.met | c:\peaknet\data\081117\081117_023.dxd | CL,SO4-300.0 |
| 24 | 0811122-8 50X | Sample | 081113.met | c:\peaknet\data\081117\081117_024.dxd | CL,SO4-300.0 |
| 25 | 0811122-9 100X | Sample | 081113.met | c:\peaknet\data\081117\081117_025.dxd | CL,SO4-300.0 |
| 26 | 0811122-11 200X | Sample | 081113.met | c:\peaknet\data\081117\081117_026.dxd | CL,SO4-300.0 |
| 27 | 0811122-12 100X | Sample | 081113.met | c:\peaknet\data\081117\081117_027.dxd | CL,SO4-300.0 |
| 28 | 0811122-13 200X | Sample | 081113.met | c:\peaknet\data\081117\081117_028.dxd | CL,SO4-300.0 |
| 29 | 0811128-1 10X | Sample | 081113.met | c:\peaknet\data\081117\081117_029.dxd | CL,SO4-300.0 |
| 30 | 0811129-1 100X | Sample | 081113.met | c:\peaknet\data\081117\081117_030.dxd | NO, BR, PQ4, SO4-300.0 |
| 31 | 0811129-1 2000X | Sample | 081113.met | c:\peaknet\data\081117\081117_031.dxd | FCL, BR, PQ4, SO4-300.0 |
| 32 | 0811122-12MS 100X | Sample | 081113.met | c:\peaknet\data\081117\081117_032.dxd | CL,SO4-300.0 |
| 33 | CCV | Sample | 081113.met | c:\peaknet\data\081117\081117_033.dxd | CCV ————— F = 114%; |
| 34 | CCB | Sample | 081113.met | c:\peaknet\data\081117\081117_034.dxd | CCB |
| 35 | 0811110-1 50X | Sample | 081113.met | c:\peaknet\data\081117\081117_035.dxd | NO, CL, BR, SO4-300.0 |
| 36 | 0811110-2 50X | Sample | 081113.met | c:\peaknet\data\081117\081117_036.dxd | NO, CL, BR, SO4-300.0 |
| 37 | 0811110-1 1000X | Sample | 081113.met | c:\peaknet\data\081117\081117_037.dxd | +CL, BR, SO4-300.0 |
| 38 | 0811110-2 1000X | Sample | 081113.met | c:\peaknet\data\081117\081117_038.dxd | +CL, BR, SO4-300.0 |
| 39 | CCV | Sample | 081113.met | c:\peaknet\data\081117\081117_039.dxd | CCV ————— F = 114%, |
| 40 | CCB | Sample | 081113.met | c:\peaknet\data\081117\081117_040.dxd | CCB |
| 41 | STOP.MET | Sample | stop.met | | |

Default Method Path: C:\PEAKNET\METHOD

Default Data Path: C:\PEAKNET\DATA\081104

Comment:

BatchDx created schedule.

Analyst:

*L 11/18/08**JBM
11/20/08*

Instrument #: DIONEX DX-120, ID Serial Number: 99060762

Analytical Column: Dionex IonPac AS14 S/N 022150

Methods: EPA 300.0 and SW9056. Paragon SOP 1113

Eluent: Made daily, 10mL of Eluent Concentrate ID: RG080610-2 to 1000mL of DI water.

| | Final | ID | Aliq |
|-------------------------|-------|------------------------|------|
| cal std level 1 (1000x) | 10.00 | ST080722-8, ST080926-8 | 0.01 |
| cal std level 2 (100x) | 5.00 | " | 0.05 |
| cal std level 3 (25x) | 5.00 | " | 0.20 |
| cal std level 4 (10x) | 5.00 | " | 0.50 |
| cal std level 5 (5x) | 5.00 | " | 1.00 |
| CCV | 5.00 | ST080722-8, ST081027-5 | 0.50 |
| ICV | 5.00 | ST080225-1 | 0.25 |
| | | ST080926-7 | 0.05 |
| LCS(aq) | 5.00 | ST080225-1 | 0.25 |
| | | ST081027-4 | 0.05 |
| MS/MSD (waters) | 5.00 | ST080219-9 | 0.05 |
| | | ST081027-3 | 0.05 |

Dilutions Table: All to 5mL Final Volume

10X 0.5mL
 20X 0.25mL
 25X 0.2mL
 50X 0.1mL
 100X 0.05mL
 200X 0.025mL
 500X 0.01mL

081117V

5pm
11/20/08

DAILY VERIFICATION FOR ION CHROMATOGRAPH (Used internally for comparative check purposes)

Analysis Date: 11/17/08

Analyst Name: EAL

Filename for CV: 081117/081117_009.DXD

Calibration Date: 11/13/08

Method ID: 081113.met

Updated Method date: na

Calibration Equation Verification

| Analyte | calibration type: | 1st regression coefficient | 2nd regression coefficient | intercept | A conc reported by PeakNet observed peak area ug/L | B conc calc by spreadsheet ug/L | A/B *100 agreement % |
|---------|-------------------|----------------------------|----------------------------|-----------|--|---------------------------------|----------------------|
| Cl | quad, incl. 0.0 | 4.801237E-10 | 7.57988E-03 | 109300 | 103052 | 1520381 | 100.0 |

Retention Time (RT) Verification

| Analyte | RT at calibration | RT in updated method (1st ICV or CCV) | (calibration vs. update) deviation % 10% tolerance | window width tolerance (NA) |
|---------|-------------------|---------------------------------------|---|-----------------------------|
| F | 3.51 | 3.48 | 0.9 | 5.00 % |
| Cl | 5.13 | 5.07 | 1.2 | 5.00 % |
| NO2-N | 6.33 | 6.21 | 1.9 | 4.90 % |
| Br | 8.27 | 8.03 | 2.9 | 7.30 % |
| NO3-N | 9.77 | 9.21 | 3.4 | 10.00 % |
| PO4-P | 11.76 | 11.77 | 0.1 | 4.10 % |
| SO4 | 14.18 | 14.16 | 0.2 | 4.10 % |

Sample Analysis Report

Sample Name : CCV

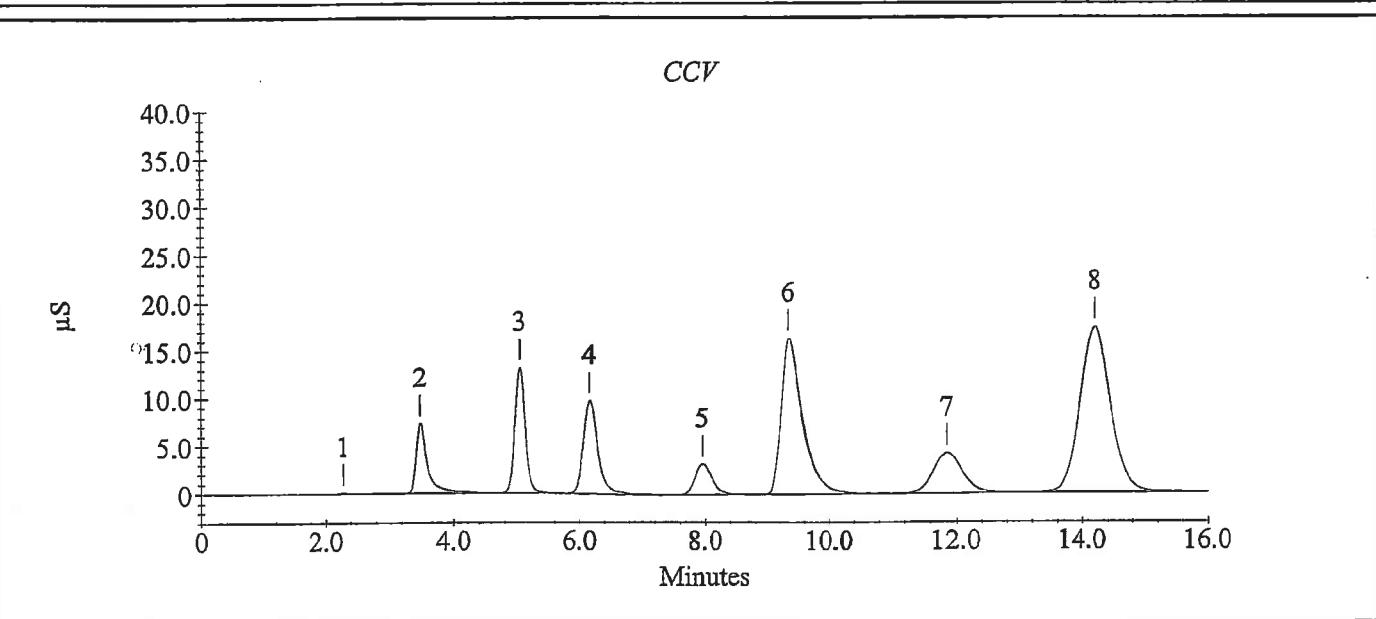
Data File Name : c:\peaknet\data\081117\081117_009.DXD

Method File Name : c:\peaknet\method\081113.met
Date, Time Analyzed : 11/17/08 3:24:56 PM
System Operator : WETCHEM
Calibration Updated : 11/14/08 11:14:50 AM

Current Date : 11/17/08
Current Time : 3:41:02 PM
Datafile Updated : 11/17/08 3:41:01 PM
Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...

Peak Information : All Components

| Peak Number | Analyte | Retention Time (min.) | Concentration (ug/L) | Limit Exceeded | Peak Area |
|-------------|----------------------|-----------------------|----------------------|----------------|-----------|
| 2 | Fluoride | 3.48 | 5326.5 | | 896797 |
| 3 | Chloride | 5.05 | 10305.2 | | 1520381 |
| 4 | Nitrite as N | 6.16 | 5344.2 | | 1574138 |
| 5 | Bromide | 7.96 | 10321.1 | | 611047 |
| 6 | Nitrate as N | 9.35 | 10519.8 | | 3986450 |
| 7 | Orthophosphate as P | 11.87 | 10435.2 | | 1338508 |
| 8 | Sulfate | 14.20 | 52012.7 | | 5833336 |
| | Nitrate/Nitrite as N | | | | |



Sample Analysis Report

Sample Name : CCB

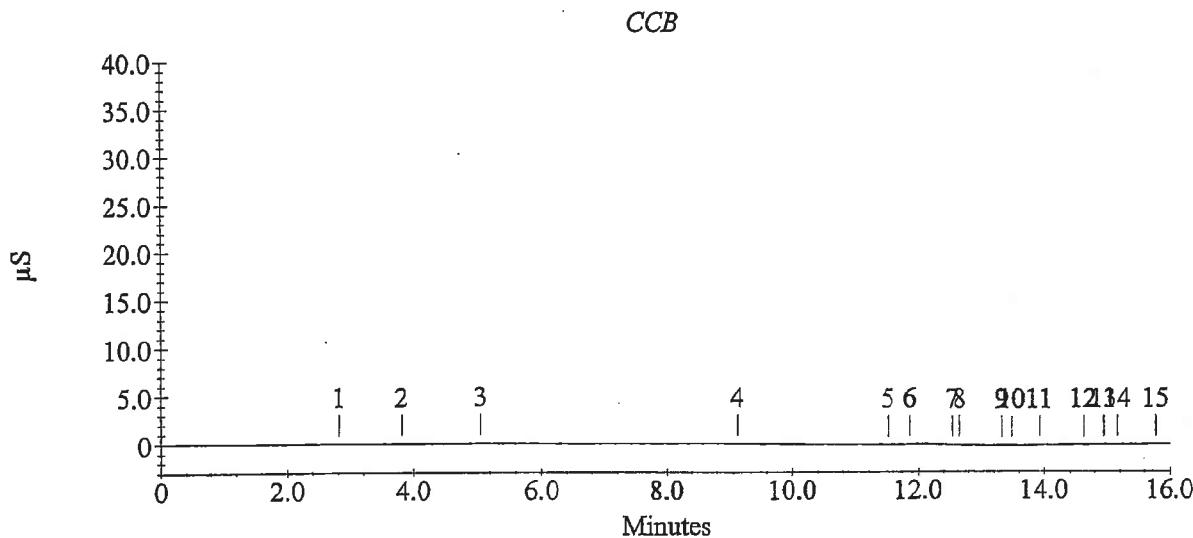
Data File Name : c:\peaknet\data\081117\081117_010.DXD

Method File Name : c:\peaknet\method\081113.met
Date, Time Analyzed : 11/17/08 3:41:04 PM
System Operator : WETCHEM
Calibration Updated : 11/14/08 11:14:50 AM

Current Date : 11/17/08
Current Time : 3:57:05 PM
Datafile Updated : 11/17/08 3:57:05 PM
Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...

Peak Information : All Components

| Peak Number | Analyte | Retention Time (min.) | Concentration (ug/L) | Limit Exceeded | Peak Area |
|-------------|----------------------|--------------------------|----------------------|-------------------|-----------|
| 1 | | 2.81 | 0.0 | - | 42 |
| 3 | Chloride | 5.07 | -28.3 | - | 10682 |
| | Nitrite as N | | | | |
| | Bromide | | | | |
| 4 | Nitrate as N | 9.15 | 31.2 | - | 5259 |
| 6 | Orthophosphate as P | 11.87 | -20.9 | - | 2429 |
| 11 | Sulfate | 13.92 | 248.9 | - | 2792 |
| | Nitrate/Nitrite as N | | | | |



Sample Analysis Report

Sample Name : IC081117-1MB

Data File Name : c:\peaknet\data\081117\081117_011.DXD

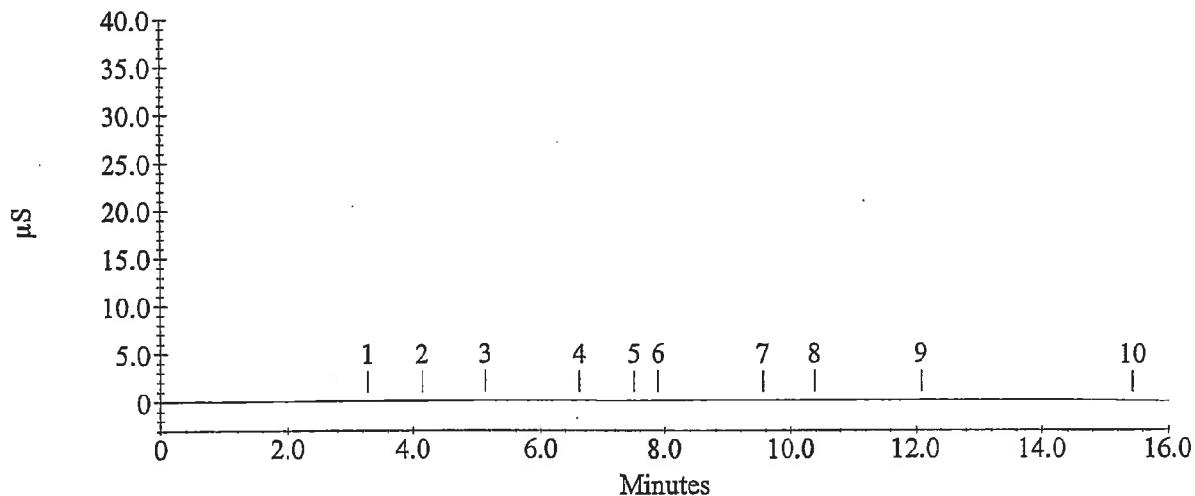
Method File Name : c:\peaknet\method\081113.met
Date, Time Analyzed : 11/17/08 3:57:07 PM
System Operator : WETCHEM
Calibration Updated : 11/14/08 11:14:50 AM

Current Date : 11/17/08
Current Time : 4:13:07 PM
Datafile Updated : 11/17/08 4:13:07 PM
Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...

Peak Information : All Components

| Peak Number | Analyte | Retention Time (min.) | Concentration (ug/L) | Limit Exceeded | Peak Area |
|-------------|----------------------|--------------------------|----------------------|-------------------|-----------|
| 1 | | 3.28 | 0.0 | - | 1154 |
| 3 | Chloride | 5.13 | -63.9 | - | 5982 |
| 4 | Nitrite as N | 6.64 | 18.6 | - | 1171 |
| 6 | Bromide | 7.91 | -60.9 | - | 1316 |
| 7 | Nitrate as N | 9.56 | 18.9 | - | 1084 |
| 9 | Orthophosphate as P | 12.08 | -24.0 | - | 2064 |
| | Sulfate | | | | |
| | Nitrate/Nitrite as N | | | | |

IC081117-1MB



Sample Analysis Report

Sample Name : IC081117-1LCS

Data File Name : c:\peaknet\data\081117\081117_012.DXD

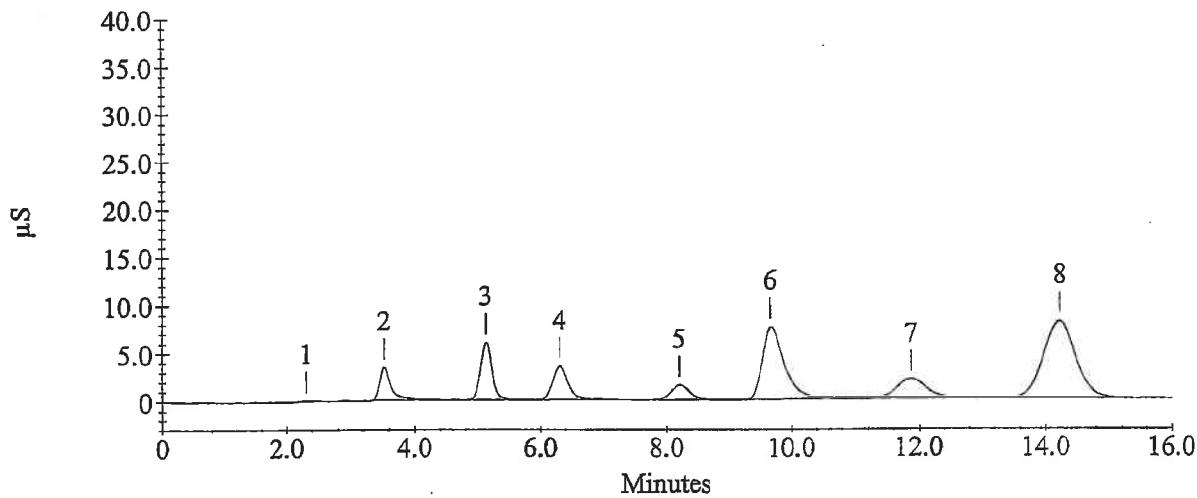
Method File Name : c:\peaknet\method\081113.met
Date, Time Analyzed : 11/17/08 4:13:09 PM
System Operator : WETCHEM
Calibration Updated : 11/14/08 11:14:50 AM

Current Date : 11/17/08
Current Time : 4:29:09 PM
Datafile Updated : 11/17/08 4:29:09 PM
Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...

Peak Information : All Components

| Peak Number | Analyte | Retention Time (min.) | Concentration (ug/L) | Limit Exceeded | Peak Area |
|-------------|----------------------|-----------------------|----------------------|----------------|-----------|
| 2 | Fluoride | 3.52 | 2697.0 | | 427767 |
| 3 | Chloride | 5.13 | 5318.0 | | 751804 |
| 4 | Nitrite as N | 6.31 | 2068.5 | | 582064 |
| 5 | Bromide | 8.20 | 5396.1 | | 309605 |
| 6 | Nitrate as N | 9.67 | 5219.6 | | 1856578 |
| 7 | Orthophosphate as P | 11.88 | 5353.0 | | 655093 |
| 8 | Sulfate | 14.23 | 26718.4 | | 2811992 |
| | Nitrate/Nitrite as N | | | | |

IC081117-1LCS



Sample Analysis Report

Sample Name : CCV

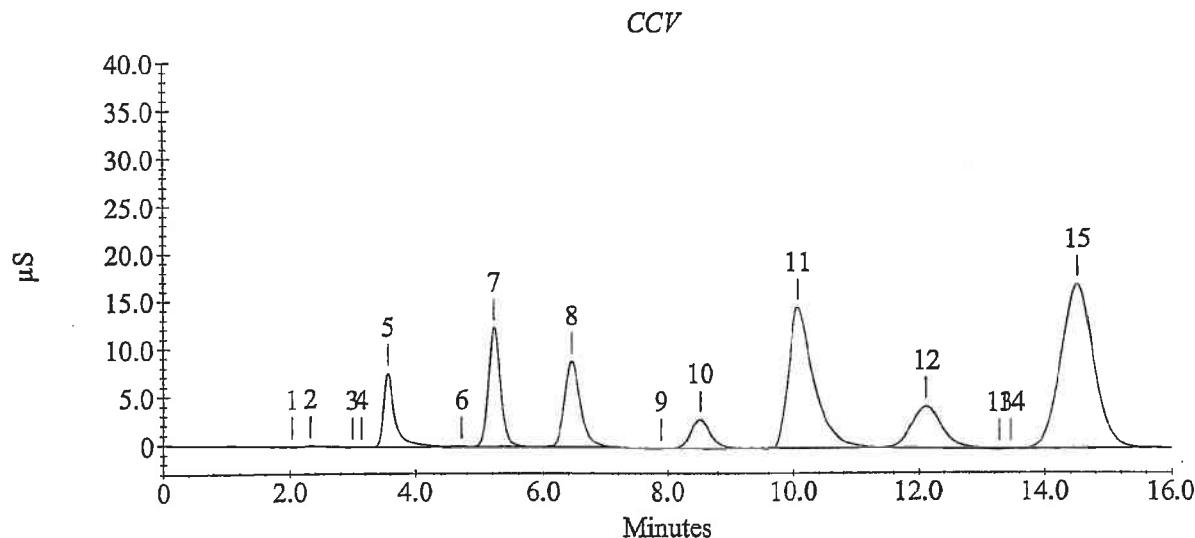
Data File Name : c:\peaknet\data\081117\081117_021.DXD

Method File Name : c:\peaknet\method\081113.met
Date, Time Analyzed : 11/17/08 6:37:27 PM
System Operator : WETCHEM
Calibration Updated : 11/14/08 11:14:50 AM

Current Date : 11/17/08
Current Time : 6:53:28 PM
Datafile Updated : 11/17/08 6:53:28 PM
Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...

Peak Information : All Components

| Peak Number | Analyte | Retention Time (min.) | Concentration (ug/L) | Limit Exceeded | Peak Area |
|-------------|----------------------|--------------------------|----------------------|-------------------|-----------|
| 5 | Fluoride | 3.57 | 5661.5 | | 959949 |
| 7 | Chloride | 5.24 | 10726.5 | | 1589588 |
| 8 | Nitrite as N | 6.47 | 5303.0 | | 1561103 |
| 10 | Bromide | 8.53 | 11047.1 | | 657703 |
| 11 | Nitrate as N | 10.08 | 10729.0 | | 4076912 |
| 12 | Orthophosphate as P | 12.13 | 11193.0 | | 1447325 |
| 15 | Sulfate | 14.52 | 53876.7 | | 6072794 |
| | Nitrate/Nitrite as N | | | | |



Sample Analysis Report

Sample Name : CCB

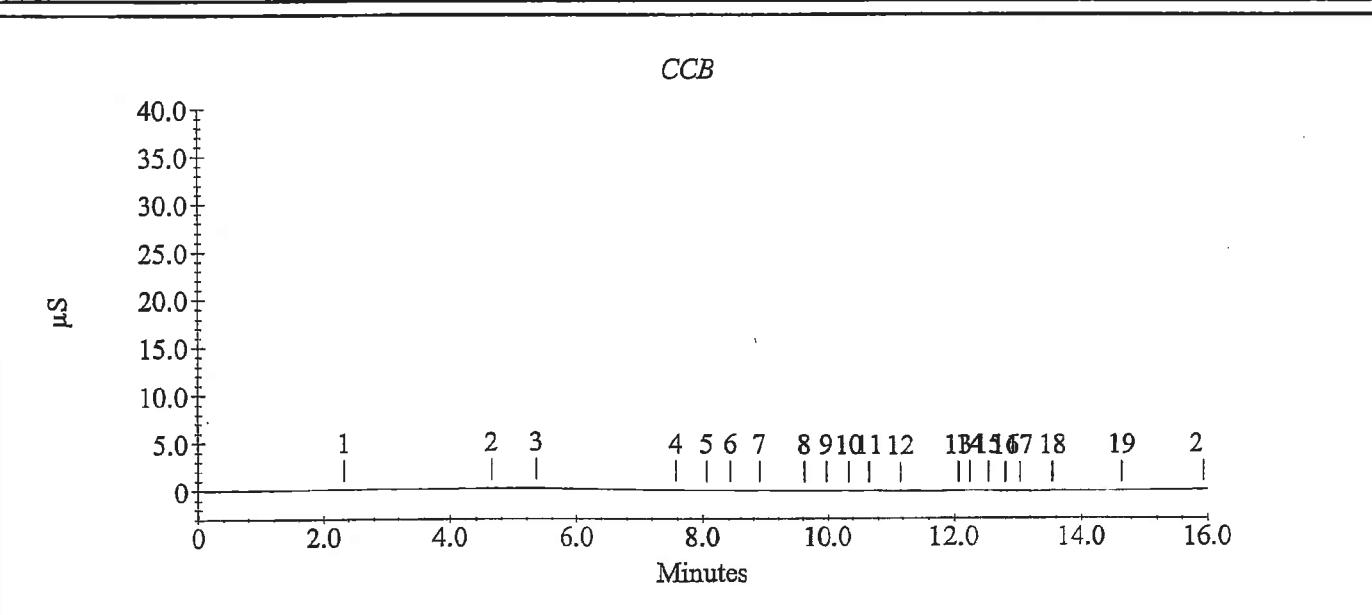
Data File Name : c:\peaknet\data\081117\081117_022.DXD

Method File Name : c:\peaknet\method\081113.met
Date, Time Analyzed : 11/17/08 6:53:29 PM
System Operator : WETCHEM
Calibration Updated : 11/14/08 11:14:50 AM

Current Date : 11/17/08
Current Time : 7:09:30 PM
Datafile Updated : 11/17/08 7:09:30 PM
Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...

Peak Information : All Components

| Peak Number | Analyte | Retention Time (min.) | Concentration (ug/L) | Limit Exceeded | Peak Area |
|-------------|----------------------|--------------------------|----------------------|-------------------|-----------|
| 1 | | 2.32 | 0.0 | - | 702 |
| 3 | Chloride | 5.36 | -0.0 | - | 14422 |
| | Nitrite as N | | | | |
| 6 | Bromide | 8.44 | -33.1 | - | 2830 |
| 8 | Nitrate as N | 9.63 | 22.3 | - | 2215 |
| 13 | Orthophosphate as P | 12.07 | -33.4 | - | 982 |
| 19 | Sulfate | 14.64 | 240.9 | - | 1989 |
| | Nitrate/Nitrite as N | | | | |



Sample Analysis Report

Sample Name : CCV

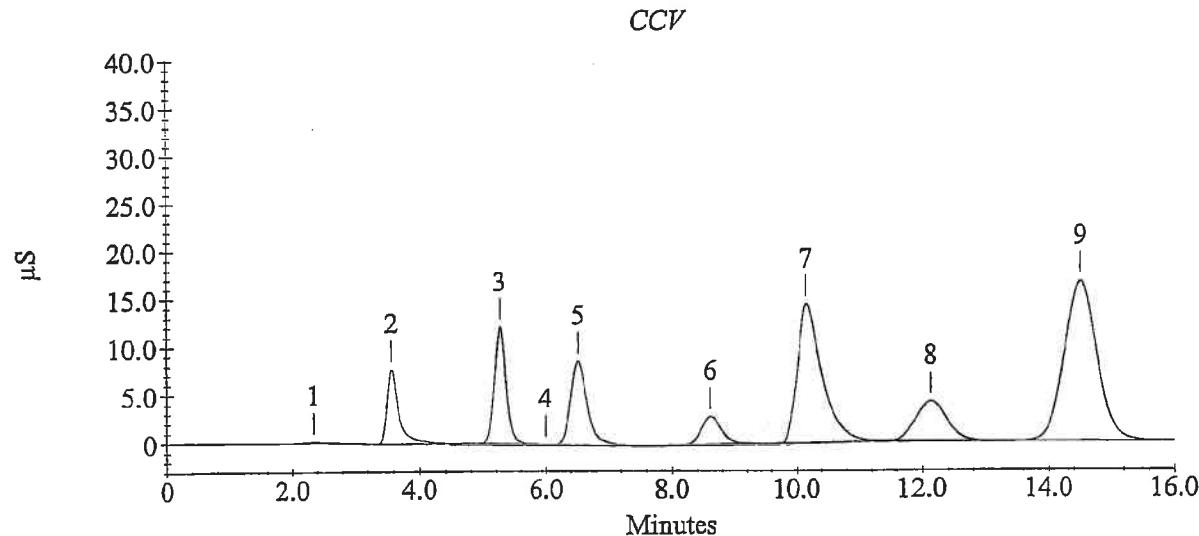
Data File Name : c:\peaknet\data\081117\081117_033.DXD

Method File Name : c:\peaknet\method\081113.met
Date, Time Analyzed : 11/17/08 9:49:53 PM
System Operator : WETCHEM
Calibration Updated : 11/14/08 11:14:50 AM

Current Date : 11/17/08
Current Time : 10:05:53 PM
Datafile Updated : 11/17/08 10:05:53 PM
Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...

Peak Information : All Components

| Peak Number | Analyte | Retention Time (min.) | Concentration (ug/L) | Limit Exceeded | Peak Area |
|-------------|----------------------|--------------------------|----------------------|----------------|-----------|
| 2 | Fluoride | 3.57 | 5703.3 | | 967888 |
| 3 | Chloride | 5.27 | 10703.1 | | 1585726 |
| 5 | Nitrite as N | 6.52 | 5443.7 | | 1605680 |
| 6 | Bromide | 8.61 | 11035.9 | | 656981 |
| 7 | Nitrate as N | 10.16 | 10590.7 | | 4017038 |
| 8 | Orthophosphate as P | 12.13 | 10892.7 | | 1403965 |
| 9 | Sulfate | 14.51 | 53512.9 | | 6025856 |
| | Nitrate/Nitrite as N | | | | |



Sample Analysis Report

Sample Name : CCB

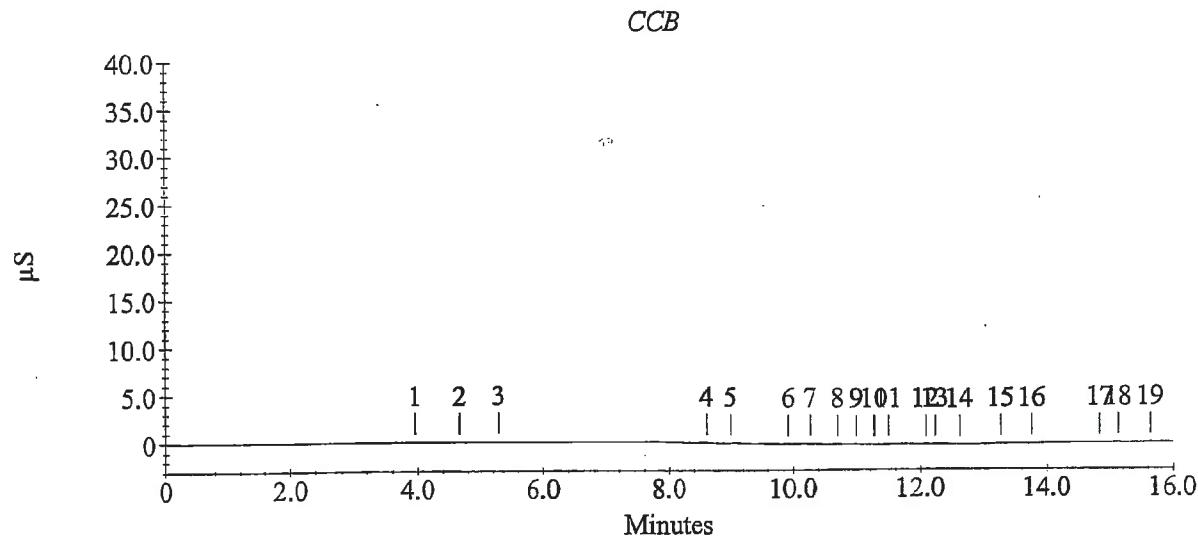
Data File Name : c:\peaknet\data\081117\081117_034.DXD

Method File Name : c:\peaknet\method\081113.met
Date, Time Analyzed : 11/17/08 10:05:55 PM
System Operator : WETCHEM
Calibration Updated : 11/14/08 11:14:50 AM

Current Date : 11/17/08
Current Time : 10:21:55 PM
Datafile Updated : 11/17/08 10:21:55 PM
Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...

Peak Information : All Components

| Peak Number | Analyte | Retention Time (min.) | Concentration (ug/L) | Limit Exceeded | Peak Area |
|-------------|----------------------|--------------------------|----------------------|-------------------|-----------|
| 1 | | 3.96 | 0.0 | - | 2783 |
| 3 | Chloride | 5.29 | -48.7 | - | 7994 |
| | Nitrite as N | | | | |
| 4 | Bromide | 8.61 | -28.3 | - | 3088 |
| 6 | Nitrate as N | 9.92 | 18.2 | - | 826 |
| 11 | Orthophosphate as P | 11.49 | -10.3 | - | 3657 |
| 16 | Sulfate | 13.76 | 232.4 | - | 1138 |
| | Nitrate/Nitrite as N | | | | |



Sample Analysis Report

Sample Name : 0811110-1 50X

Data File Name : c:\peaknet\data\0811117\0811117_035.DXD

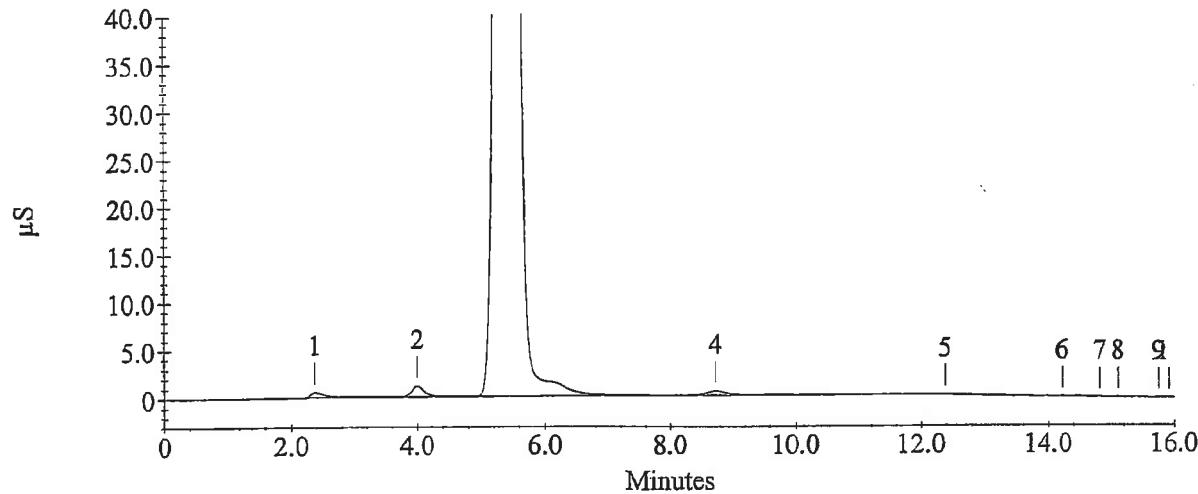
Method File Name : c:\peaknet\method\081113.met
Date, Time Analyzed : 11/17/08 10:21:57 PM
System Operator : WETCHEM
Calibration Updated : 11/14/08 11:14:50 AM

Current Date : 11/17/08
Current Time : 10:37:57 PM
Datafile Updated : 11/17/08 10:37:57 PM
Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...

Peak Information : All Components

| Peak Number | Analyte | Retention Time (min.) | Concentration (ug/L) | Limit Exceeded | Peak Area |
|-------------|----------------------|--------------------------|----------------------|-------------------|-----------|
| 1 | | 2.37 | 0.0 | | 86797 |
| | Chloride | | | | |
| | Nitrite as N | | | | |
| 4 | Bromide | 8.73 | 1863.3 | | 107314 |
| | Nitrate as N | | | | |
| | Orthophosphate as P | | | | |
| 6 | Sulfate | 14.21 | 241.3 | - | 2027 |
| | Nitrate/Nitrite as N | | | | |

0811110-1 50X



Sample Analysis Report

Sample Name : 0811110-2 50X

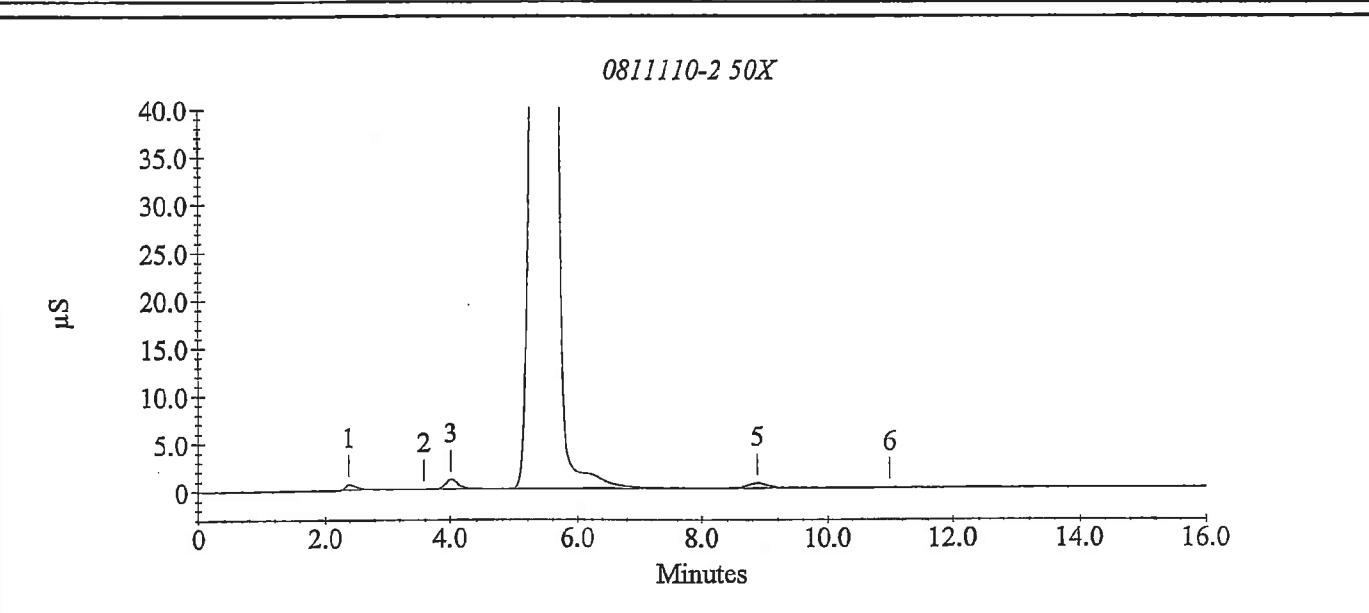
Data File Name : c:\peaknet\data\081117\081117_036.DXD

Method File Name : c:\peaknet\method\081113.met
Date, Time Analyzed : 11/17/08 10:37:59 PM
System Operator : WETCHEM
Calibration Updated : 11/14/08 11:14:50 AM

Current Date : 11/17/08
Current Time : 10:53:59 PM
Datafile Updated : 11/17/08 10:53:59 PM
Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...

Peak Information : All Components

| Peak Number | Analyte | Retention Time (min.) | Concentration (ug/L) | Limit Exceeded | Peak Area |
|-------------|----------------------|--------------------------|----------------------|-------------------|-----------|
| 2 | Fluoride | 3.59 | 90.2 | - | 1263 |
| | Chloride | | | | |
| | Nitrite as N | | | | |
| | Bromide | | | | |
| 5 | Nitrate as N | 8.88 | 347.5 | | 112817 |
| | Orthophosphate as P | | | | |
| | Sulfate | | | | |
| | Nitrate/Nitrite as N | | | | |



Sample Analysis Report

Sample Name : 0811110-1 1000X

Data File Name : c:\peaknet\data\0811117\0811117_037.DXD

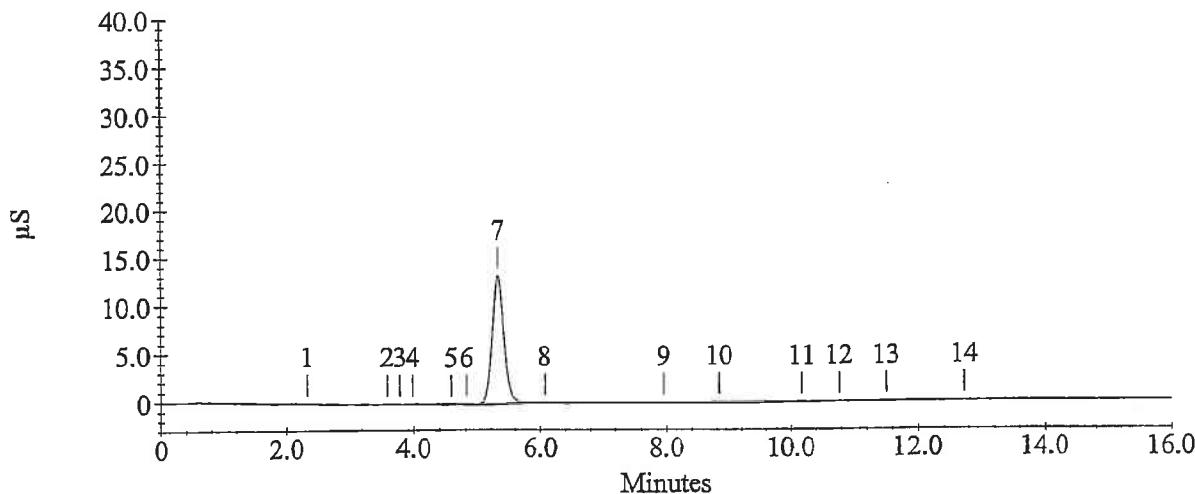
Method File Name : c:\peaknet\method\081113.met
Date, Time Analyzed : 11/17/08 10:54:01 PM
System Operator : WETCHEM
Calibration Updated : 11/14/08 11:14:50 AM

Current Date : 11/17/08
Current Time : 11:10:01 PM
Datafile Updated : 11/17/08 11:10:01 PM
Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...

Peak Information : All Components

| Peak Number | Analyte | Retention Time (min.) | Concentration (ug/L) | Limit Exceeded | Peak Area |
|-------------|----------------------|--------------------------|----------------------|-------------------|-----------|
| 2 | Fluoride | 3.59 | 110.7 | | 4495 |
| 7 | Chloride | 5.33 | 11894.6 | | 1785599 |
| 8 | Nitrite as N | 6.08 | 19.5 | - | 1436 |
| 9 | Bromide | 7.96 | -0.8 | - | 4585 |
| 11 | Nitrate as N | 10.19 | 28.0 | - | 4149 |
| 13 | Orthophosphate as P | 11.52 | -31.1 | - | 1239 |
| | Sulfate | | | | |
| | Nitrate/Nitrite as N | | | | |

0811110-1 1000X



Sample Analysis Report

Sample Name : 0811110-2 1000X

Data File Name : c:\peaknet\data\081117\081117_038.DXD

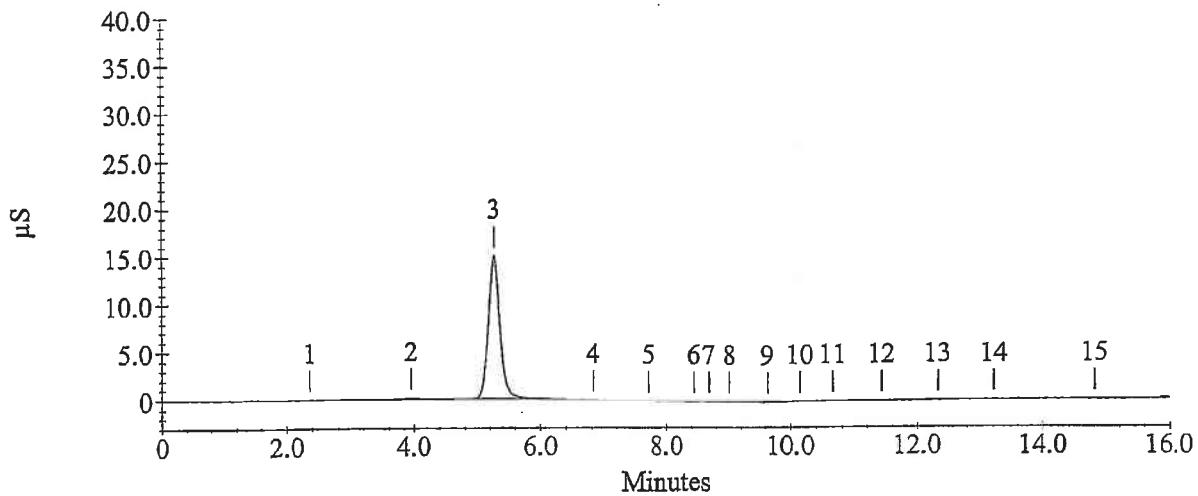
Method File Name : c:\peaknet\method\081113.met
Date, Time Analyzed : 11/17/08 11:10:03 PM
System Operator : WETCHEM
Calibration Updated : 11/14/08 11:14:50 AM

Current Date : 11/17/08
Current Time : 11:26:03 PM
Datafile Updated : 11/17/08 11:26:03 PM
Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...

Peak Information : All Components

| Peak Number | Analyte | Retention Time (min.) | Concentration (ug/L) | Limit Exceeded | Peak Area |
|-------------|----------------------|--------------------------|----------------------|-------------------|-----------|
| 1 | | 2.36 | 0.0 | | 536 |
| 3 | Chloride | 5.28 | 12704.8 | | 1925335 |
| | Nitrite as N | | | | |
| 6 | Bromide | 8.45 | -22.8 | - | 3391 |
| 9 | Nitrate as N | 9.64 | 20.7 | - | 1687 |
| 12 | Orthophosphate as P | 11.44 | 20.4 | - | 7220 |
| | Sulfate | | | | |
| | Nitrate/Nitrite as N | | | | |

0811110-2 1000X



Sample Analysis Report

Sample Name : CCV

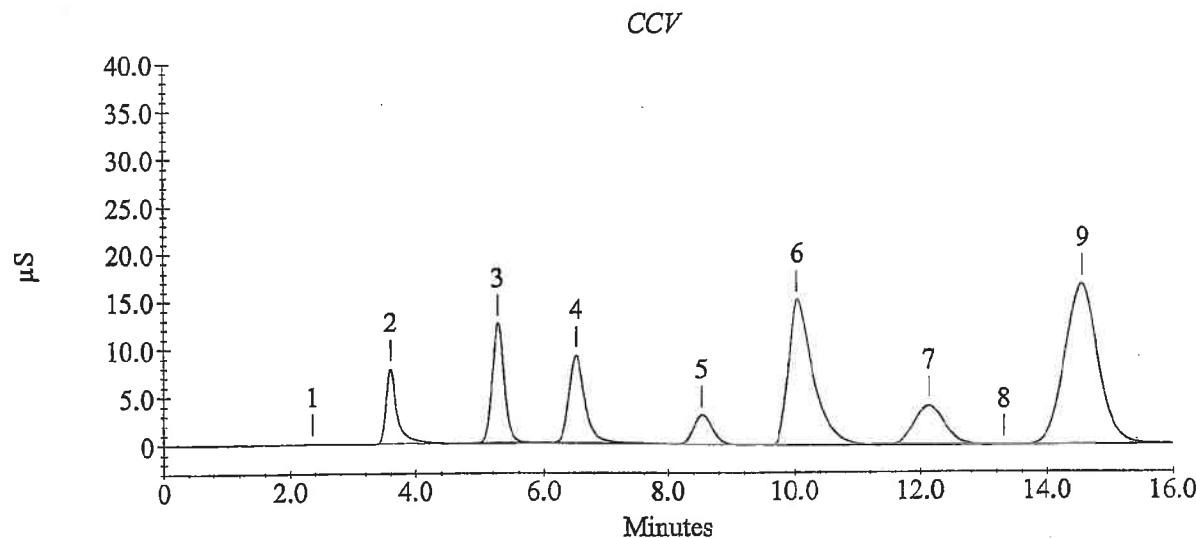
Data File Name : c:\peaknet\data\081117\081117_039.DXD

Method File Name : c:\peaknet\method\081113.met
Date, Time Analyzed : 11/17/08 11:26:05 PM
System Operator : WETCHEM
Calibration Updated : 11/14/08 11:14:50 AM

Current Date : 11/17/08
Current Time : 11:42:05 PM
Datafile Updated : 11/17/08 11:42:05 PM
Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...

Peak Information : All Components

| Peak Number | Analyte | Retention Time (min.) | Concentration (ug/L) | Limit Exceeded | Peak Area |
|-------------|----------------------|--------------------------|----------------------|-------------------|-----------|
| 2 | Fluoride | 3.60 | 5680.9 | | 963626 |
| 3 | Chloride | 5.29 | 10754.4 | | 1594204 |
| 4 | Nitrite as N | 6.53 | 5561.3 | | 1643069 |
| 5 | Bromide | 8.55 | 10815.6 | | 642758 |
| 6 | Nitrate as N | 10.05 | 10770.7 | | 4095006 |
| 7 | Orthophosphate as P | 12.15 | 10759.6 | | 1384848 |
| 9 | Sulfate | 14.56 | 54580.4 | | 6163899 |
| | Nitrate/Nitrite as N | | | | |



Sample Analysis Report

Sample Name : CCB

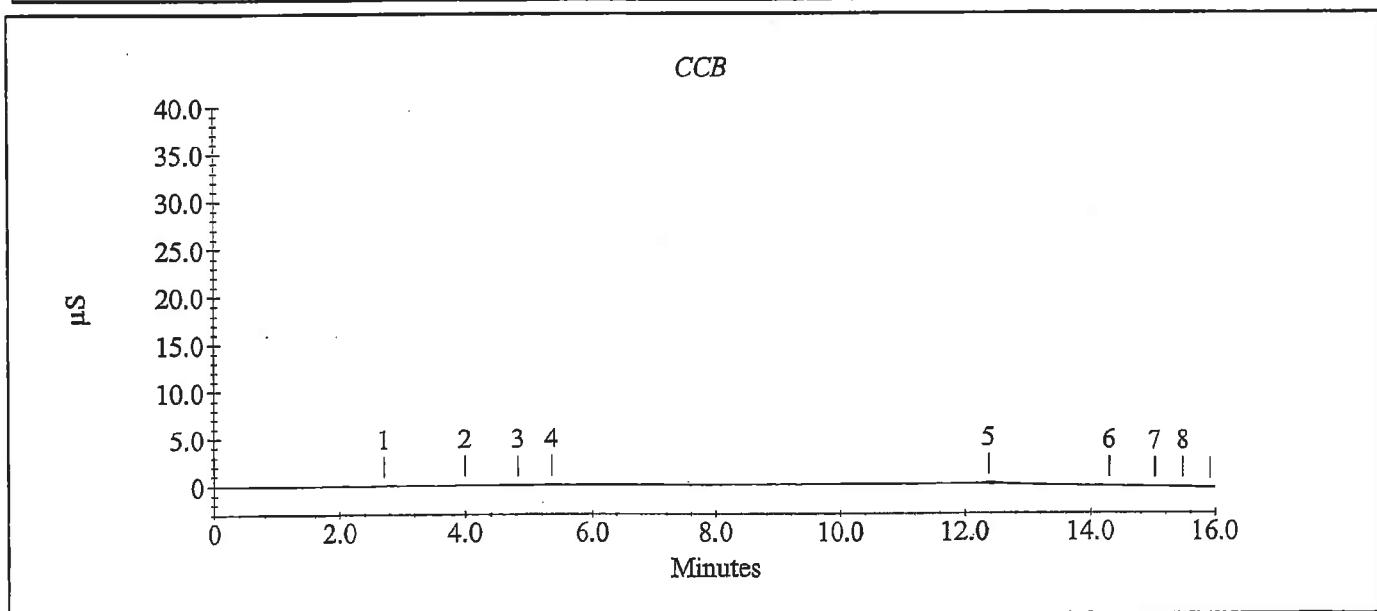
Data File Name : c:\peaknet\data\081117\081117_040.DXD

Method File Name : c:\peaknet\method\081113.met
Date, Time Analyzed : 11/17/08 11:42:07 PM
System Operator : WETCHEM
Calibration Updated : 11/14/08 11:14:50 AM

Current Date : 11/17/08
Current Time : 11:58:07 PM
Datafile Updated : 11/17/08 11:58:07 PM
Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...

Peak Information : All Components

| Peak Number | Analyte | Retention Time (min.) | Concentration (ug/L) | Limit Exceeded | Peak Area |
|-------------|----------------------|--------------------------|----------------------|-------------------|-----------|
| 1 | | 2.71 | 0.0 | - | 408 |
| 4 | Chloride | 5.36 | -27.1 | - | 10845 |
| | Nitrite as N | | | | |
| | Bromide | | | | |
| | Nitrate as N | | | | |
| | Orthophosphate as P | | | | |
| 6 | Sulfate | 14.29 | 231.7 | - | 1063 |
| | Nitrate/Nitrite as N | | | | |



| Line | Sample | Sample Type | Method | Data File | Comment |
|------|-----------------|-------------|------------|---------------------------------------|--|
| 1 | 5X STD | Calibration | 081119.met | c:\peaknet\data\081119\081119_001.dxd | |
| 2 | 10X STD | Calibration | 081119.met | c:\peaknet\data\081119\081119_002.dxd | |
| 3 | 25X STD | Calibration | 081119.met | c:\peaknet\data\081119\081119_003.dxd | |
| 4 | 100X STD | Calibration | 081119.met | c:\peaknet\data\081119\081119_004.dxd | |
| 5 | 1000X STD | Calibration | 081119.met | c:\peaknet\data\081119\081119_005.dxd | |
| 6 | 0 STD | Calibration | 081119.met | c:\peaknet\data\081119\081119_006.dxd | |
| 7 | ICV | Sample | 081119.met | c:\peaknet\data\081119\081119_007.dxd | ICV |
| 8 | ICB | Sample | 081119.met | c:\peaknet\data\081119\081119_007.dxd | ICB |
| 9 | IC081117-1MB | Sample | 081119.met | c:\peaknet\data\081119\081119_009.dxd | WATER (F) |
| 10 | IC081117-1LCS | Sample | 081119.met | c:\peaknet\data\081119\081119_010.dxd | WATER (F) |
| 11 | 0811129-1 100X | Sample | 081119.met | c:\peaknet\data\081119\081119_011.dxd | F-300.0 |
| 12 | 0811110-1 50X | Sample | 081119.met | c:\peaknet\data\081119\081119_012.dxd | F-300.0 |
| 13 | 0811110-2 50X | Sample | 081119.met | c:\peaknet\data\081119\081119_013.dxd | F-300.0 |
| 14 | 0811122-8 200X | Sample | 081119.met | c:\peaknet\data\081119\081119_014.dxd | CL-300.0 |
| 15 | 0811122-13 500X | Sample | 081119.met | c:\peaknet\data\081119\081119_015.dxd | CL-300.0 |
| 16 | IC081117-1LCS | Sample | 081119.met | c:\peaknet\data\081119\081119_016.dxd | WATER (F,PO4) |
| 17 | IC081118-1MB | Sample | 081119.met | c:\peaknet\data\081119\081119_017.dxd | WATER (F) |
| 18 | IC081118-1LCS | Sample | 081119.met | c:\peaknet\data\081119\081119_018.dxd | WATER (F,BR) |
| 19 | CCV | Sample | 081119.met | c:\peaknet\data\081119\081119_019.dxd | CCV |
| 20 | CCB | Sample | 081119.met | c:\peaknet\data\081119\081119_020.dxd | CCB |
| 21 | 0811134-1 | Sample | 081119.met | c:\peaknet\data\081119\081119_021.dxd | F-300.0 |
| 22 | 0811134-1MS | Sample | 081119.met | c:\peaknet\data\081119\081119_022.dxd | F-300.0 |
| 23 | 0811134-1MSD | Sample | 081119.met | c:\peaknet\data\081119\081119_023.dxd | F-300.0 |
| 24 | 0811132-2 1000X | Sample | 081119.met | c:\peaknet\data\081119\081119_024.dxd | CL-300.0 |
| 25 | 0811187-2 | Sample | 081119.met | c:\peaknet\data\081119\081119_025.dxd | F,CL,NO2,BR,NO3,PO4,SO4-300.0 |
| 26 | 0811187-2 | Sample | 081119.met | c:\peaknet\data\081119\081119_026.dxd | F,CL,NO2,BR,NO3,PO4,SO4-300.0 |
| 27 | 0811187-2 | Sample | 081119.met | c:\peaknet\data\081119\081119_027.dxd | F,CL,NO2,BR,NO3,PO4,SO4-300.0 |
| 28 | 0811187-2 5X | Sample | 081119.met | c:\peaknet\data\081119\081119_028.dxd | F,CL,NO2,BR,NO3,PO4,SO4-300.0 |
| 29 | 0811187-2 5X | Sample | 081119.met | c:\peaknet\data\081119\081119_029.dxd | F,CL,NO2,BR,NO3,PO4,SO4-300.0 |
| 30 | 0811187-2 5X | Sample | 081119.met | c:\peaknet\data\081119\081119_030.dxd | F,CL,NO2,BR,NO3,PO4,SO4-300.0 |
| 31 | CCV | Sample | 081119.met | c:\peaknet\data\081119\081119_031.dxd | CCV |
| 32 | CCB | Sample | 081119.met | c:\peaknet\data\081119\081119_032.dxd | CCB |
| 33 | WC081118-1MB | Sample | 081119.met | c:\peaknet\data\081119\081119_033.dxd | SOLID |
| 34 | WC081118-1LCS | Sample | 081119.met | c:\peaknet\data\081119\081119_034.dxd | SOLID |
| 35 | 0811116-1 5X | Sample | 081119.met | c:\peaknet\data\081119\081119_035.dxd | F,CL,NO2,BR,NO3,PO4,SO4-300.0 |
| 36 | 0811116-1MS 5X | Sample | 081119.met | c:\peaknet\data\081119\081119_036.dxd | F,CL,NO2,BR,NO3,PO4,SO4-300.0 |
| 37 | 0811116-1MSD 5X | Sample | 081119.met | c:\peaknet\data\081119\081119_037.dxd | F,CL,NO2,BR,NO3,PO4,SO4-300.0 |
| 38 | 0811116-2 5X | Sample | 081119.met | c:\peaknet\data\081119\081119_038.dxd | F,CL,NO2,BR,NO3,PO4,SO4-300.0 |
| 39 | 0811116-1 100X | Sample | 081119.met | c:\peaknet\data\081119\081119_039.dxd | F,CL,NO2,BR,NO3,PO4,SO4-300.0 |
| 40 | 0811116-2 100X | Sample | 081119.met | c:\peaknet\data\081119\081119_040.dxd | F,CL,NO2,BR,NO3,PO4,SO4-300.0 |
| 41 | CCV | Sample | 081119.met | c:\peaknet\data\081119\081119_041.dxd | CCV |
| 42 | CCB | Sample | 081119.met | c:\peaknet\data\081119\081119_042.dxd | CCB |
| 43 | 0811187-15 | Sample | 081119.met | c:\peaknet\data\081119\081119_043.dxd | F,CL,NO2,BR,NO3,PO4,SO4-9056 |
| 44 | 0811187-15 | Sample | 081119.met | c:\peaknet\data\081119\081119_044.dxd | F,CL,NO2,BR,NO3,PO4,SO4-9056 |
| 45 | 0811187-15 | Sample | 081119.met | c:\peaknet\data\081119\081119_045.dxd | F,CL,NO2,BR,NO3,PO4,SO4-9056 |
| 46 | 0811187-15 5X | Sample | 081119.met | c:\peaknet\data\081119\081119_046.dxd | F,CL,NO2,BR,NO3,PO4,SO4-9056 |
| 47 | 0811187-15 5X | Sample | 081119.met | c:\peaknet\data\081119\081119_047.dxd | F,CL,NO2,BR,NO3,PO4,SO4-9056 |
| 48 | 0811187-15 5X | Sample | 081119.met | c:\peaknet\data\081119\081119_048.dxd | F,CL,NO2,BR,NO3,PO4,SO4-9056 |
| 49 | CCV | Sample | 081119.met | c:\peaknet\data\081119\081119_049.dxd | CCV |
| 50 | CCB | Sample | 081119.met | c:\peaknet\data\081119\081119_050.dxd | CCB |
| 51 | stop.met | Sample | stop.met | | |

Default Method Path: C:\PEAKNET\METHOD
Default Data Path: C:\PEAKNET\DATA\081104

Comment:

BatchDx created schedule.

Analyst:

C 11/20/08

JBM
11/20/08

Instrument #1: DIONEX DX-120, ID Serial Number: 99060762

Analytical Column: Dionex IonPac AS14 S/N 022150

Methods: EPA 300.0 and SW9056. Paragon SOP 1113

Eluent: Made daily, 10mL of Eluent Concentrate ID: RG080610-2 to 1000mL of DI water.

| | Final | ID | Ald |
|-------------------------|-------|------------------------|------|
| cal std level 1 (1000x) | 10.00 | ST080722-8, ST080926-8 | 0.01 |
| cal std level 2 (100x) | 5.00 | " | 0.05 |
| cal std level 3 (25x) | 5.00 | " | 0.20 |
| cal std level 4 (10x) | 5.00 | " | 0.50 |
| cal std level 5 (5x) | 5.00 | " | 1.00 |
| CCV | 5.00 | ST080722-8, ST081027-5 | 0.50 |
| ICV | 5.00 | ST080225-1 | 0.25 |
| | | ST080926-7 | 0.05 |
| LCS(aq) | 5.00 | ST080225-1 | 0.25 |
| | | ST081027-4 | 0.05 |
| MS/MSD (waters) | 5.00 | ST080219-9 | 0.05 |
| | | ST081027-3 | 0.05 |

Dilutions Table: All to 5mL Final Volume

10X 0.5mL

20X 0.25mL

25X 0.2mL

50X 0.1mL

100X 0.05mL

200X 0.025mL

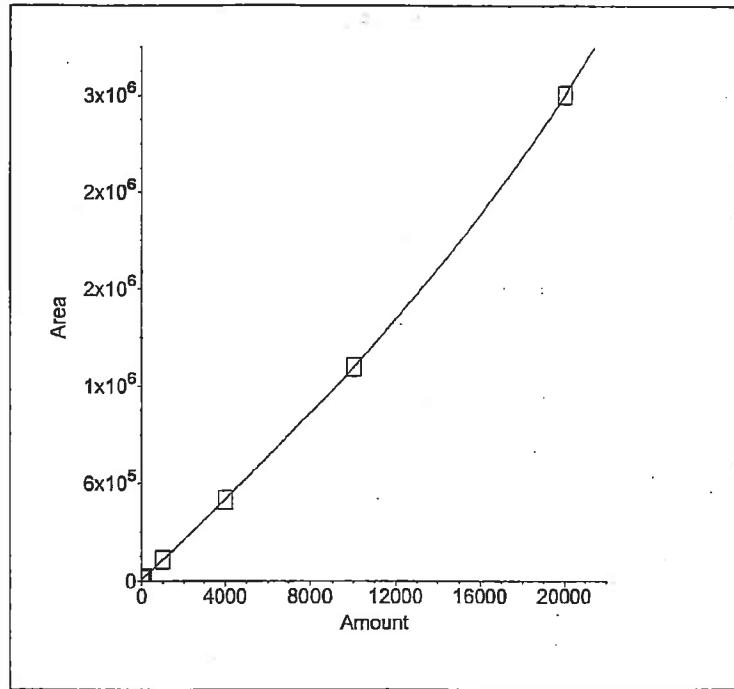
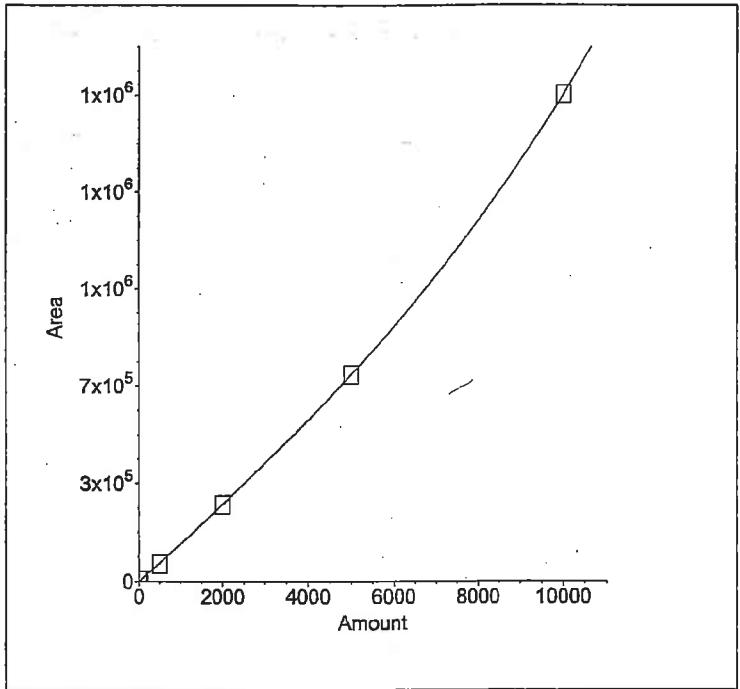
500X 0.01mL

1. Component:Fluoride

Standard:External Fit Type:Quadratic
 Origin:Ignore Calibration:Area
 $r^2=0.999975$
 Amt=-9.150258e-010*Resp²+
 7.079464e-003*Resp+17.3

2. Component:Chloride

Standard:External Fit Type:Quadratic
 Origin:Ignore Calibration:Area
 $r^2=0.999994$
 Amt=-4.646622e-010*Resp²+
 7.552340e-003*Resp+70.08

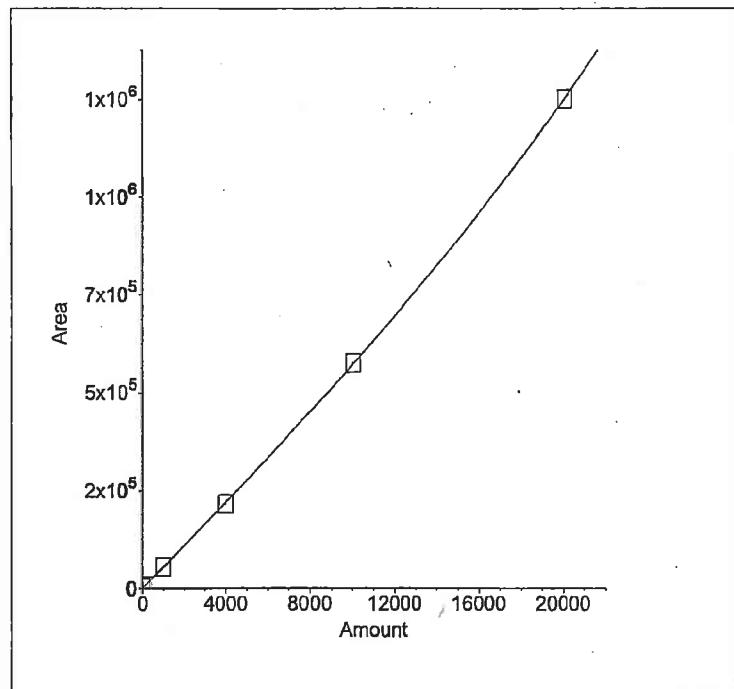
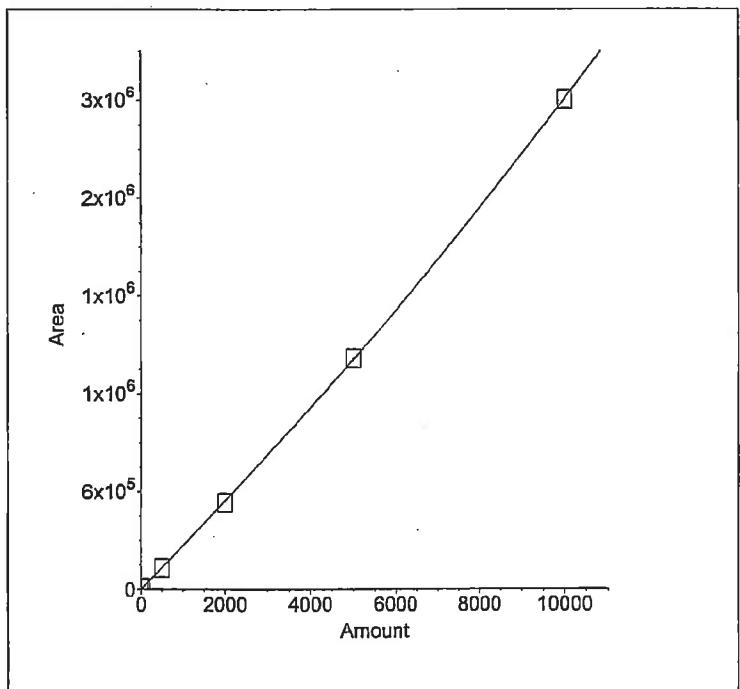
JBM
11/20/08

3. Component:Nitrite as N

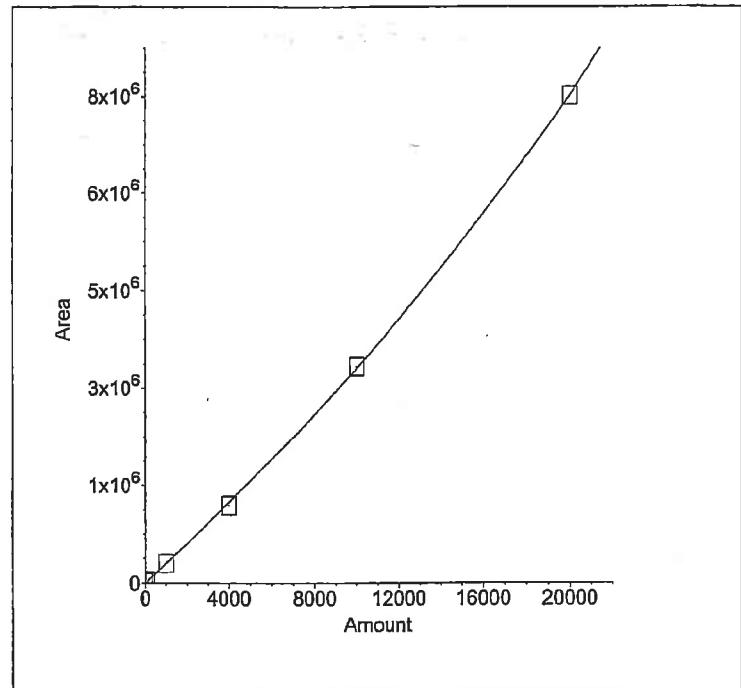
Standard:External Fit Type:Quadratic
 Origin:Ignore Calibration:Area
 $r^2=0.999965$
 Amt=-1.255736e-010*Resp²+
 3.534018e-003*Resp+10.23

4. Component:Bromide

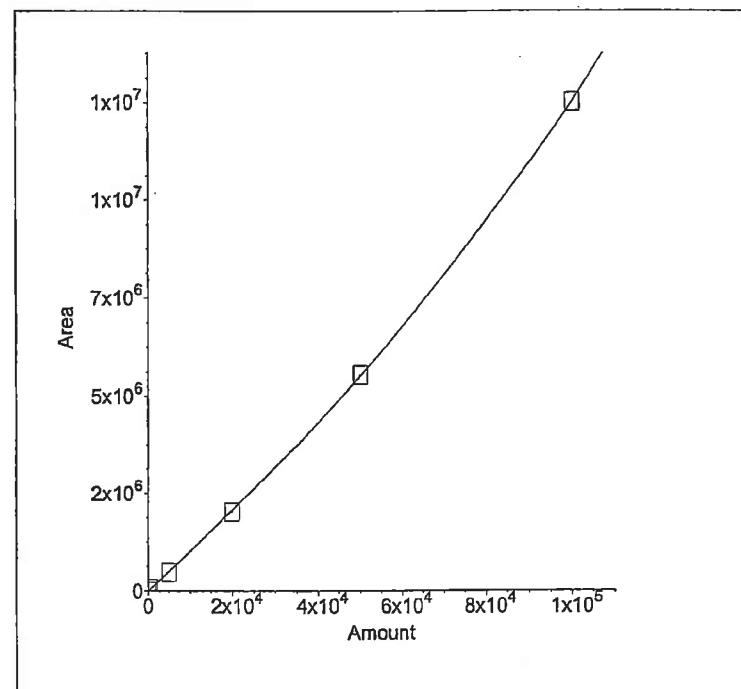
Standard:External Fit Type:Quadratic
 Origin:Ignore Calibration:Area
 $r^2=0.999969$
 Amt=-2.210713e-009*Resp²+
 1.854037e-002*Resp+21.64



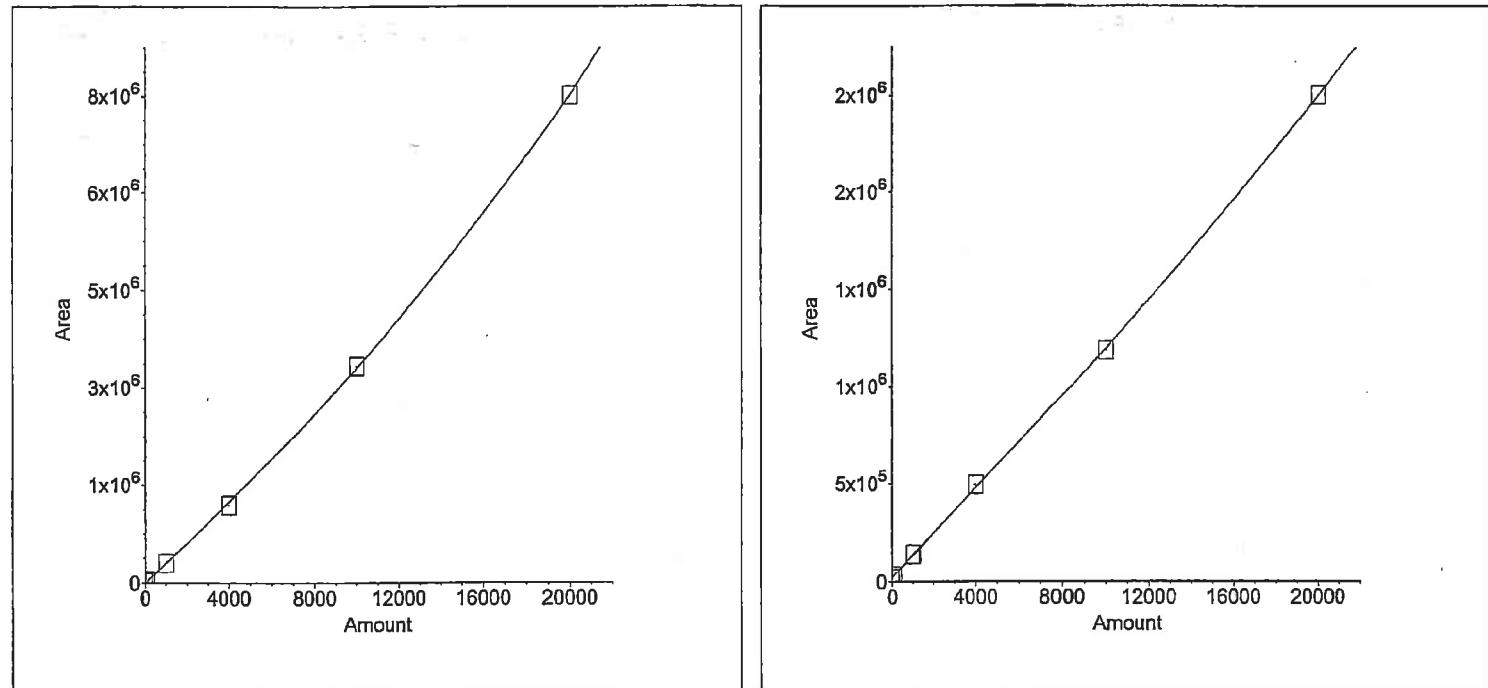
5. Component:Nitrate as N
Standard:External Fit Type:Quadratic
Origin:Ignore Calibration:Area
 $r^2=0.999883$
Amt=-6.570383e-011*Resp²+
2.884125e-003*Resp+34.04



7. Component:Sulfate
Standard:External Fit Type:Quadratic
Origin:Ignore Calibration:Area
 $r^2=0.999950$
Amt=-1.507375e-010*Resp²+
9.799130e-003*Resp+184.8



6. Component:Orthophosphate as P
Standard:External Fit Type:Quadratic
Origin:Ignore Calibration:Area
 $r^2=0.999886$
Amt=-2.287900e-010*Resp²+
7.443265e-003*Resp+179.9



8. Component:Nitrate/Nitrite as N
Standard:External Fit Type:
Origin:Ignore Calibration:Area

(No Levels Component)

Method Report - 081119.met

Method Information : Select Module(s)

System Name : DX120

System Number : 1

Method Type : Ion Chromatography

Column : AS14 4-MM

Analyst : SJL

Comment: Flow rate = 1.2 mL/min,
Eluent = 3.5mM Na₂CO₃ / 1.0 mM NaHCO₃

DX-120 Timed Events

Module Name :

Module Serial Number :

System Mode : Column

Column : A

Pump : On

SRS / Cell : On

Eluent Pressure : On

Pressure Unit : psi

TTL 1 Label : TTL 1

TTL 2 Label : TTL 2

Comment :

| Time | Offset | Valve | TTL1 | TTL2 | AC | Collect |
|-------|--------|--------|------|------|-----|---------|
| Init | * | Load | Low | Low | Off | |
| 0.00 | | Load | Low | Low | Off | Begin |
| 0.01 | | Inject | Low | Low | Off | |
| 0.40 | | Load | Low | Low | Off | |
| 13.80 | | Load | High | Low | Off | |
| 13.90 | | Load | Low | Low | Off | |

DX-120 Detector Parameters

Detector Type : DX-120

Data collection time (minutes) : 16.00

Data Collection Rate : 5.00

Real time plot scale maximum (μ S) : 40.000

Real time plot scale minimum (μ S) : -3.000

DX-120 Integration Parameters

Peak detection algorithm : Standard
Starting peak width (seconds) : 8.00
Peak threshold : 1.00
Peak area reject (area counts) : 800.00
Reference peak area reject (area counts) : 800.00

DX-120 Smoothing Parameters

Filter Type : No filter

DX-120 Report Data

Report Format File : C:\PeakNet\method\Default2.rpt
Print Sample Analysis : Yes
Print Calibration Update : Yes
Print Check Standard : No
System Suitability Tests :
No system suitability tests selected.

DX-120 Integration Data Events

| Time | Description |
|------|--------------------------------------|
| 0.00 | Stop peak detection |
| 0.05 | Force baseline at start of all peaks |
| 1.90 | Start peak detection |
| 2.20 | Void volume treatment for this peak |
| 3.00 | Void volume treatment for this peak |

DX-120 Calibration Parameters

External or internal calibration : EXTERNAL
Number of replicates for calibration : 1
Rejection : Manual
Level Weighting : Equal
Calibration standard volume : 1.00
Default sample volume : 1.00
Amount units : ug/L
Replace retention time : Yes
Update response : Yes
Default dilution factor : 1.00
Default response factor for unknown peaks : 0.00
Calculate unknowns by area or height : Area

DX-120 Component Identification Table

| Component | Retention | Tolerance | Reference |
|----------------------|-----------|-----------|-----------|
| Fluoride | 3.45 min | 5.00 % | |
| Chloride | 5.01 min | 5.00 % | |
| Nitrite as N | 6.15 min | 4.90 % | |
| Bromide | 7.96 min | 7.30 % | |
| Nitrate as N | 9.44 min | 10.00 % | |
| Orthophosphate as P | 11.79 min | 4.10 % | |
| Sulfate | 14.07 min | 4.10 % | |
| Nitrate/Nitrite as N | 20.00 min | 5.00 % | |

DX-120 Component Quantitation Table

| Component | Retention | Low Limit | High Limit |
|----------------------|-----------|-----------|------------|
| Fluoride | 3.45 min | 100 | 10000 |
| Chloride | 5.01 min | 200 | 20000 |
| Nitrite as N | 6.15 min | 100 | 10000 |
| Bromide | 7.96 min | 200 | 20000 |
| Nitrate as N | 9.44 min | 200 | 20000 |
| Orthophosphate as P | 11.79 min | 300 | 20000 |
| Sulfate | 14.07 min | 500 | 100000 |
| Nitrate/Nitrite as N | 20.00 min | 0 | 0 |

DX-120 Component Calibration Table

| Component | Retention Time | Curve Fit | Origin | Cal. by | Response Component | Relative Factor |
|----------------------|----------------|-----------|--------|---------|--------------------|-----------------|
| Fluoride | 3.45 min | Quadratic | Ignore | Area | | 0.00 |
| Chloride | 5.01 min | Quadratic | Ignore | Area | | 0.00 |
| Nitrite as N | 6.15 min | Quadratic | Ignore | Area | | 0.00 |
| Bromide | 7.96 min | Quadratic | Ignore | Area | | 0.00 |
| Nitrate as N | 9.44 min | Quadratic | Ignore | Area | | 0.00 |
| Orthophosphate as P | 11.79 min | Quadratic | Ignore | Area | | 0.00 |
| Sulfate | 14.07 min | Quadratic | Ignore | Area | | 0.00 |
| Nitrate/Nitrite as N | 20.00 min | - | Ignore | Area | Fluoride | 0.00 |

DX-120 Component = Fluoride Levels Table

Retention Time : 3.45 min

Amount units : ug/L

Replicate unit type : Area

Number of levels : 6

Number of replicates : 1

| Level | Amount | Replicate 1 |
|--------------|---------------|--------------------|
| 1 | 50.00 | 3879.7 |
| 2 | 500.00 | 64776.2 |
| 3 | 2000.00 | 290262 |
| 4 | 5000.00 | 784216 |
| 5 | 10000.00 | 1.85444e +006 |
| 6 | 0.00 | 2173.3 |

DX-120 Component = Chloride Levels Table

Retention Time : 5.01 min

Amount units : ug/L

Replicate unit type : Area

Number of levels : 6

Number of replicates : 1

| Level | Amount | Replicate 1 |
|--------------|---------------|--------------------|
| 1 | 100.00 | 21693.4 |
| 2 | 1000.00 | 147122 |
| 3 | 4000.00 | 554057 |
| 4 | 10000.00 | 1.46726e +006 |
| 5 | 20000.00 | 3.34618e +006 |
| 6 | 0.00 | 8533.5 |

DX-120 Component = Nitrite as N Levels Table

Retention Time : 6.15 min

Amount units : ug/L

Replicate unit type : Area

Number of levels : 6

Number of replicates : 1

| Level | Amount | Replicate 1 |
|--------------|---------------|--------------------|
| 1 | 50.00 | 11029.3 |
| 2 | 500.00 | 140348 |
| 3 | 2000.00 | 562412 |
| 4 | 5000.00 | 1.49843e+006 |
| 5 | 10000.00 | 3.18639e+006 |
| 6 | 0.00 | 2523.8 |

DX-120 Component = Bromide Levels Table

Retention Time : 7.96 min

Amount units : ug/L

Replicate unit type : Area

Number of levels : 6

Number of replicates : 1

| Level | Amount | Replicate 1 |
|--------------|---------------|--------------------|
| 1 | 100.00 | 5959.8 |
| 2 | 1000.00 | 56528 |
| 3 | 4000.00 | 218375 |
| 4 | 10000.00 | 583339 |
| 5 | 20000.00 | 1.27268e+006 |
| 6 | 0.00 | 3068.4 |

DX-120 Component = Nitrate as N Levels Table

Retention Time : 9.44 min

Amount units : ug/L

Replicate unit type : Area

Number of levels : 6

Number of replicates : 1

| Level | Amount | Replicate 1 |
|--------------|---------------|--------------------|
| 1 | 100.00 | 33077.8 |
| 2 | 1000.00 | 343120 |
| 3 | 4000.00 | 1.36133e+006 |
| 4 | 10000.00 | 3.81644e+006 |
| 5 | 20000.00 | 8.60536e+006 |
| 6 | 0.00 | 3661.9 |

DX-120 Component = Orthophosphate as P Levels Table

Retention Time : 11.79 min

Amount units : ug/L

Replicate unit type : Area

Number of levels : 6

Number of replicates : 1

| Level | Amount | Replicate 1 |
|--------------|---------------|--------------------|
| 1 | 100.00 | 31800.4 |
| 2 | 1000.00 | 163998 |
| 3 | 4000.00 | 591478 |
| 4 | 10000.00 | 1.41658e+006 |
| 5 | 20000.00 | 2.98762e+006 |
| 6 | 0.00 | 16834.9 |

DX-120 Component = Sulfate Levels Table**Retention Time : 14.07 min****Amount units : ug/L****Replicate unit type : Area****Number of levels : 6****Number of replicates : 1**

| Level | Amount | Replicate 1 |
|-------|-----------|--------------|
| 1 | 500.00 | 51688.4 |
| 2 | 5000.00 | 478615 |
| 3 | 20000.00 | 2.03923e+006 |
| 4 | 50000.00 | 5.59253e+006 |
| 5 | 100000.00 | 1.26394e+007 |
| 6 | 0.00 | 1229.6 |

DX-120 Component = Nitrate/Nitrite as N Levels Table**Retention Time : 20.00 min****Amount units : ug/L****Replicate unit type : Area****Number of levels : 0****Number of replicates : 1**

DX-120 XY Data Parameters

Calibration Update Report

Sample Name : 5X STD

Data File Name : c:\PeakNet\data\081119\081119_001.DXD

Method File Name : C:\PEAKNET\METHOD\081119.met System Operator : WETCHEM
Schedule File Name : c:\peaknet\schedule\081119.sch Datafile Updated : 11/20/08 10:18:35 AM
Date Time Acquired : 11/19/08 12:03:00 PM Method Comment : Flow rate = 1.2 mL/min,
Calibration Date : 11/20/08 10:14:50 AM Eluent = ...

Peak Information : All Components

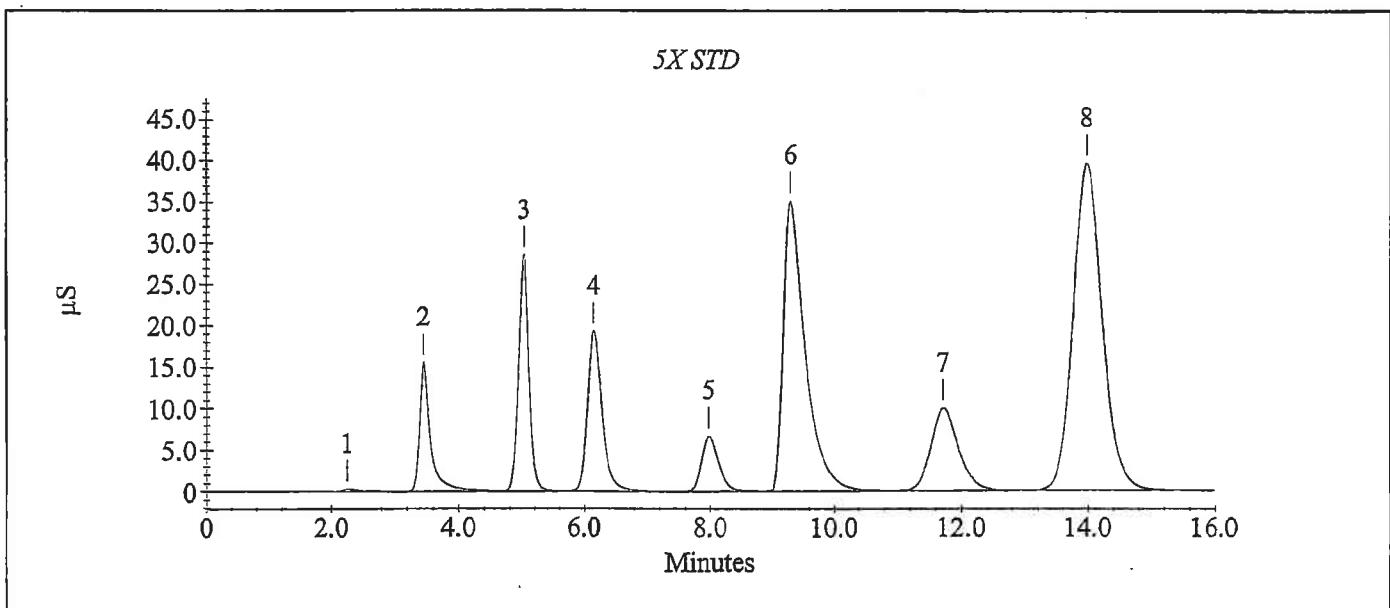
| Peak # | Analyte | Retention Time (min.) | Concentration (ug/L) | Peak Area |
|--------|----------------------|--------------------------|-------------------------|-----------|
| 2 | Fluoride | 3.45 | 10000 | 1854438 |
| 3 | Chloride | 5.04 | 20000 | 3346183 |
| 4 | Nitrite as N | 6.16 | 10000 | 3186393 |
| 5 | Bromide | 7.99 | 20000 | 1272679 |
| 6 | Nitrate as N | 9.31 | 20000 | 8605364 |
| 7 | Orthophosphate as P | 11.72 | 20000 | 2987624 |
| 8 | Sulfate | 13.97 | 100000 | 12639383 |
| | Nitrate/Nitrite as N | | | |

Calibration Update Report

Sample Name : 5X STD

Data File Name : c:\PeakNet\data\081119\081119_001.DXD

Method File Name : C:\PEAKNET\METHOD\081119.met System Operator : WETCHEM
Schedule File Name : c:\peaknet\schedule\081119.sch Datafile Updated : 11/20/08 10:18:35 AM
Date Time Acquired : 11/19/08 12:03:00 PM Method Comment : Flow rate = 1.2 mL/min,
Calibration Date : 11/20/08 10:14:50 AM Eluent = ...



Calibration Update Report

Sample Name : 10X STD

Data File Name : c:\PeakNet\data\081119\081119_002.DXD

Method File Name : C:\PEAKNET\METHOD\081119.met System Operator : WETCHEM
Schedule File Name : c:\peaknetschedule\081119.sch Datafile Updated : 11/20/08 10:18:36 AM
Date Time Acquired : 11/19/08 12:19:06 PM Method Comment : Flow rate = 1.2 mL/min,
Calibration Date : 11/20/08 10:14:50 AM Eluent = ...

Peak Information : All Components

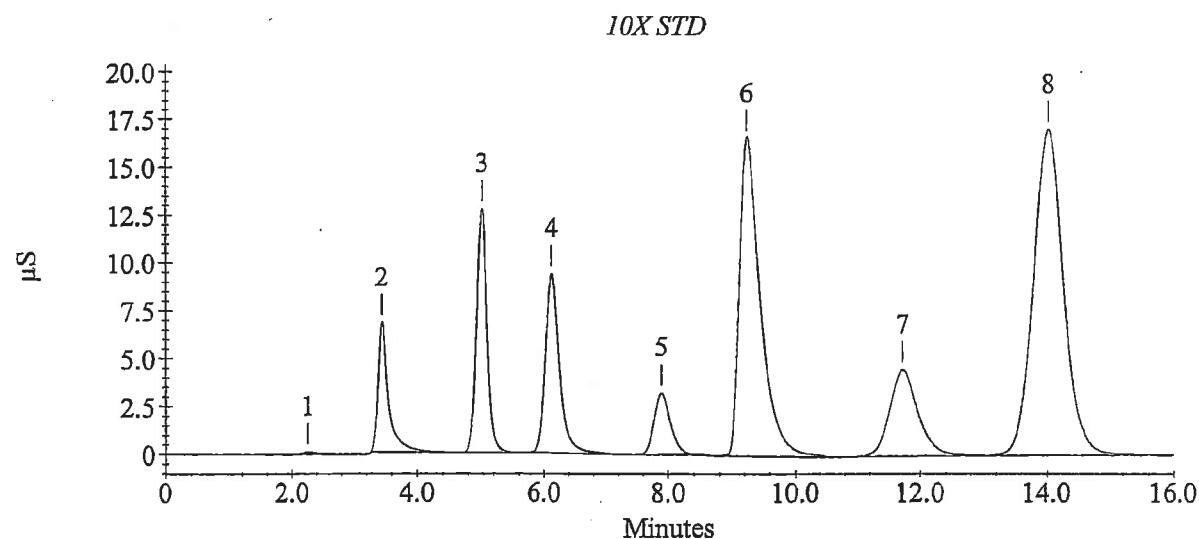
| Peak # | Analyte | Retention Time (min.) | Concentration (ug/L) | Peak Area |
|--------|----------------------|--------------------------|-------------------------|-----------|
| 2 | Fluoride | 3.44 | 5000 | 784216 |
| 3 | Chloride | 5.01 | 10000 | 1467260 |
| 4 | Nitrite as N | 6.12 | 5000 | 1498433 |
| 5 | Bromide | 7.89 | 10000 | 583339 |
| 6 | Nitrate as N | 9.23 | 10000 | 3816436 |
| 7 | Orthophosphate as P | 11.73 | 10000 | 1416579 |
| 8 | Sulfate | 14.01 | 50000 | 5592534 |
| | Nitrate/Nitrite as N | | | |

Calibration Update Report

Sample Name : 10X STD

Data File Name : c:\PeakNet\data\081119\081119_002.DXD

Method File Name : C:\PEAKNET\METHOD\081119.met System Operator : WETCHEM
Schedule File Name : c:\peaknet\schedule\081119.sch Datafile Updated : 11/20/08 10:18:36 AM
Date Time Acquired : 11/19/08 12:19:06 PM Method Comment : Flow rate = 1.2 mL/min,
Calibration Date : 11/20/08 10:14:50 AM Eluent = ...



Calibration Update Report

Sample Name : 25X STD

Data File Name : c:\PeakNet\data\081119\081119_003.DXD

| | |
|--|--|
| Method File Name : C:\PEAKNET\METHOD\081119.met | System Operator : WETCHEM |
| Schedule File Name : c:\peaknetschedule\081119.sch | Datafile Updated : 11/20/08 10:18:36 AM |
| Date Time Acquired : 11/19/08 12:35:10 PM | Method Comment : Flow rate = 1.2 mL/min, |
| Calibration Date : 11/20/08 10:14:50 AM | Eluent = ... |

Peak Information : All Components

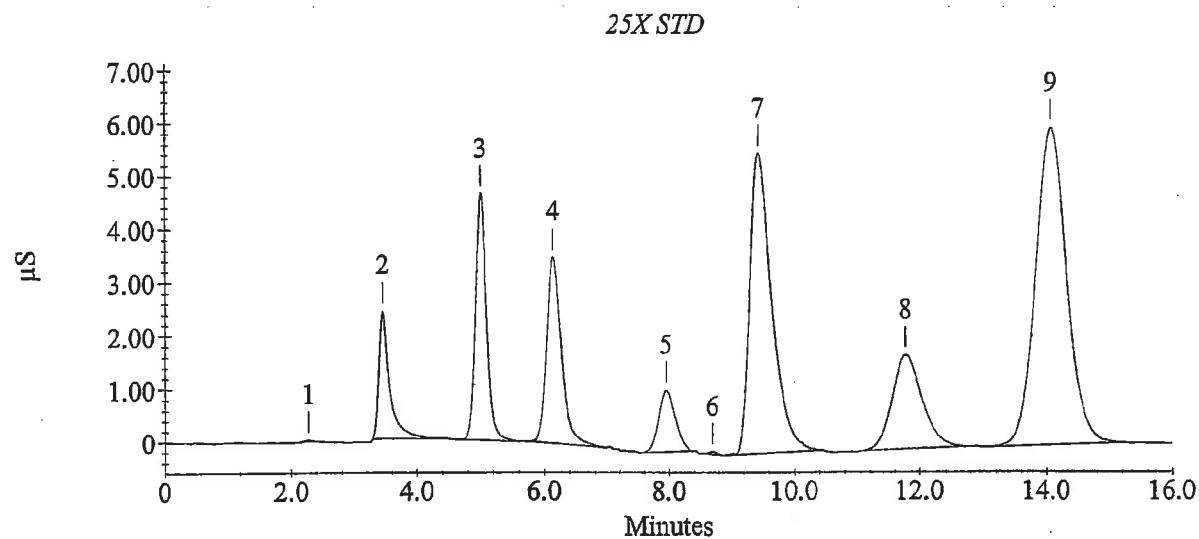
| Peak # | Analyte | Retention Time (min.) | Concentration (ug/L) | Peak Area |
|--------|----------------------|--------------------------|-------------------------|-----------|
| 2 | Fluoride | 3.45 | 2000 | 290262 |
| 3 | Chloride | 5.01 | 4000 | 554057 |
| 4 | Nitrite as N | 6.15 | 2000 | 562412 |
| 5 | Bromide | 7.96 | 4000 | 218375 |
| 7 | Nitrate as N | 9.44 | 4000 | 1361326 |
| 8 | Orthophosphate as P | 11.79 | 4000 | 591478 |
| 9 | Sulfate | 14.07 | 20000 | 2039232 |
| | Nitrate/Nitrite as N | | | |

Calibration Update Report

Sample Name : 25X STD

Data File Name : c:\PeakNet\data\081119\081119_003.DXD

Method File Name : C:\PEAKNET\METHOD\081119.met System Operator : WETCHEM
Schedule File Name : c:\peaknet\schedule\081119.sch Datafile Updated : 11/20/08 10:18:36 AM
Date Time Acquired : 11/19/08 12:35:10 PM Method Comment : Flow rate = 1.2 mL/min,
Calibration Date : 11/20/08 10:14:50 AM Eluent = ...



Calibration Update Report

Sample Name : 100X STD

Data File Name : c:\PeakNet\data\081119\081119_004.DXD

Method File Name : C:\PEAKNET\METHOD\081119.met System Operator : WETCHEM
Schedule File Name : c:\peaknet\schedule\081119.sch Datafile Updated : 11/20/08 10:18:36 AM
Date Time Acquired : 11/19/08 12:51:12 PM Method Comment : Flow rate = 1.2 mL/min,
Calibration Date : 11/20/08 10:14:50 AM Eluent = ...

Peak Information : All Components

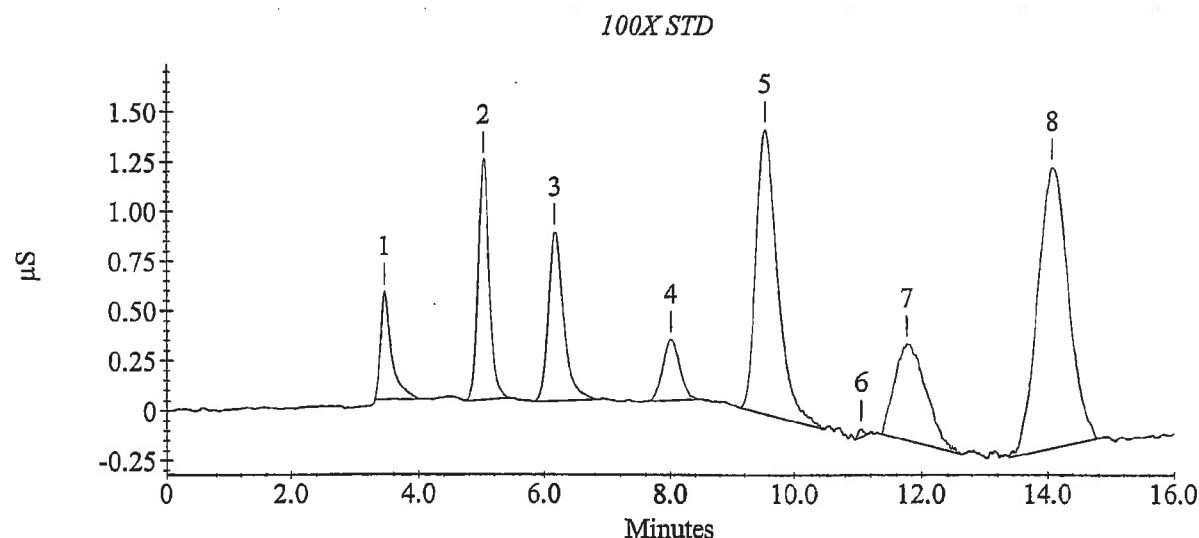
| Peak # | Analyte | Retention Time (min.) | Concentration (ug/L) | Peak Area |
|--------|----------------------|--------------------------|-------------------------|-----------|
| 1 | Fluoride | 3.45 | 500 | 64776 |
| 2 | Chloride | 5.03 | 1000 | 147122 |
| 3 | Nitrite as N | 6.17 | 500 | 140348 |
| 4 | Bromide | 8.01 | 1000 | 56528 |
| 5 | Nitrate as N | 9.53 | 1000 | 343120 |
| 7 | Orthophosphate as P | 11.77 | 1000 | 163998 |
| 8 | Sulfate | 14.07 | 5000 | 478615 |
| | Nitrate/Nitrite as N | | | |

Calibration Update Report

Sample Name : 100X STD

Data File Name : c:\PeakNet\data\081119\081119_004.DXD

| | |
|---|--|
| Method File Name : C:\PEAKNET\METHOD\081119.met | System Operator : WETCHEM |
| Schedule File Name : c:\peaknet\schedule\081119.sch | Datafile Updated : 11/20/08 10:18:36 AM |
| Date Time Acquired : 11/19/08 12:51:12 PM | Method Comment : Flow rate = 1.2 mL/min, |
| Calibration Date : 11/20/08 10:14:50 AM | Eluent = ... |



Calibration Update Report

Sample Name : 1000X STD

Data File Name : c:\peaknet\data\081119\081119_005.DXD

Method File Name : C:\PEAKNET\METHOD\081119.met System Operator : WETCHEM
Schedule File Name : c:\peaknet\schedule\081119.sch Datafile Updated : 11/20/08 10:18:36 AM
Date Time Acquired : 11/19/08 1:07:14 PM Method Comment : Flow rate = 1.2 mL/min,
Calibration Date : 11/20/08 10:14:50 AM Eluent = ...

Peak Information : All Components

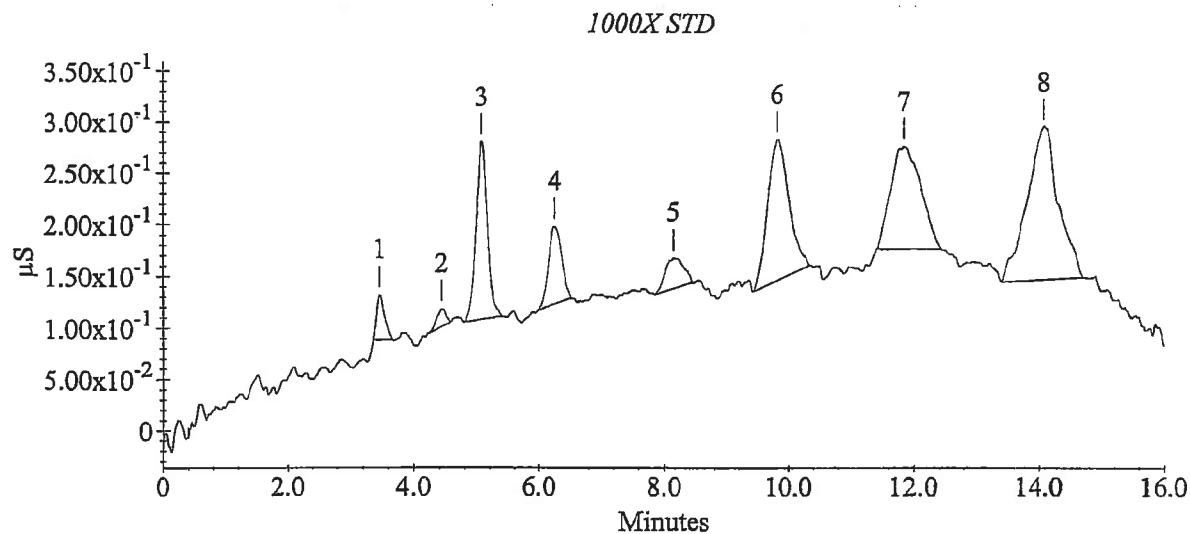
| Peak # | Analyte | Retention Time (min.) | Concentration (ug/L) | Peak Area |
|--------|----------------------|--------------------------|-------------------------|-----------|
| 1 | Fluoride | 3.47 | 50 | 3880 |
| 3 | Chloride | 5.07 | 100 | 21693 |
| 4 | Nitrite as N | 6.25 | 50 | 11029 |
| 5 | Bromide | 8.15 | 100 | 5960 |
| 6 | Nitrate as N | 9.81 | 100 | 33078 |
| 7 | Orthophosphate as P | 11.85 | 100 | 31800 |
| 8 | Sulfate | 14.07 | 500 | 51688 |
| | Nitrate/Nitrite as N | | | |

Calibration Update Report

Sample Name : 1000X STD

Data File Name : c:\peaknet\data\081119\081119_005.DXD

Method File Name : C:\PEAKNET\METHOD\081119.met System Operator : WETCHEM
Schedule File Name : c:\peaknet\schedule\081119.sch Datafile Updated : 11/20/08 10:18:36 AM
Date Time Acquired : 11/19/08 1:07:14 PM Method Comment : Flow rate = 1.2 mL/min,
Calibration Date : 11/20/08 10:14:50 AM Eluent = ...



Calibration Update Report

Sample Name : 0 STD

Data File Name : c:\peaknet\data\081119\081119_006.DXD

Method File Name : C:\PEAKNET\METHOD\081119.met System Operator : WETCHEM
Schedule File Name : c:\peaknet\schedule\081119.sch Datafile Updated : 11/20/08 10:18:36 AM
Date Time Acquired : 11/19/08 1:23:16 PM Method Comment : Flow rate = 1.2 mL/min,
Calibration Date : 11/20/08 10:14:50 AM Eluent = ...

Peak Information : All Components

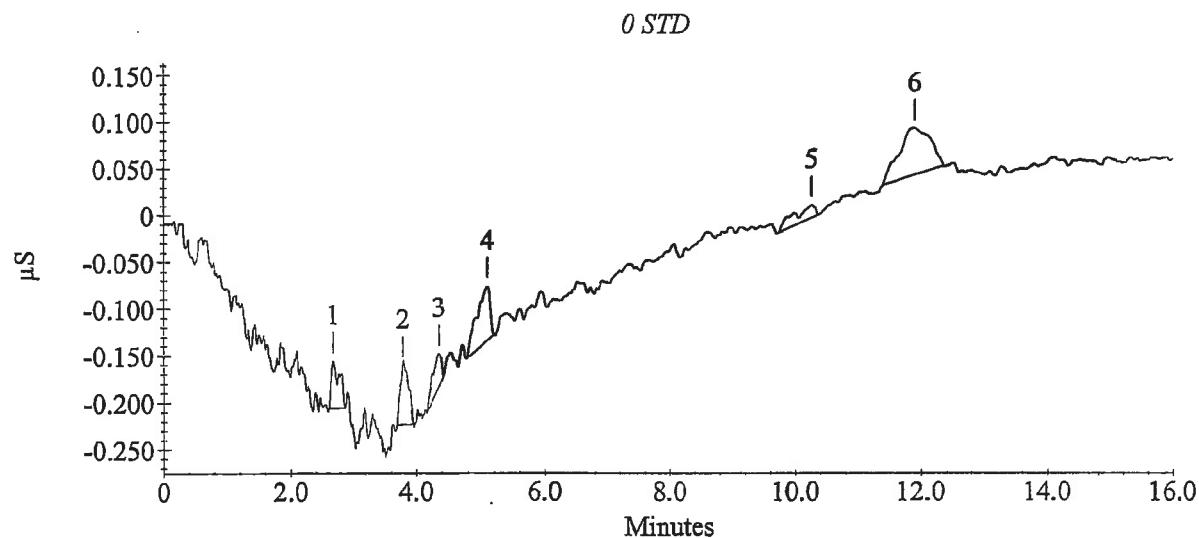
| Peak # | Analyte | Retention Time (min.) | Concentration (ug/L) | Peak Area |
|--------|----------------------|--------------------------|-------------------------|-----------|
| 1 | | 2.68 | 0 | |
| 4 | Chloride | 5.11 | 0 | 8533 |
| | Nitrite as N | | | |
| | Bromide | | | |
| 5 | Nitrate as N | 10.27 | 0 | 3662 |
| 6 | Orthophosphate as P | 11.92 | 0 | 16835 |
| | Sulfate | | | |
| | Nitrate/Nitrite as N | | | |

Calibration Update Report

Sample Name : 0 STD

Data File Name : c:\peaknet\data\081119\081119_006.DXD

Method File Name : C:\PEAKNET\METHOD\081119.met System Operator : WETCHEM
Schedule File Name : c:\peaknet\schedule\081119.sch Datafile Updated : 11/20/08 10:18:36 AM
Date Time Acquired : 11/19/08 1:23:16 PM Method Comment : Flow rate = 1.2 mL/min,
Calibration Date : 11/20/08 10:14:50 AM Eluent = ...



DAILY VERIFICATION FOR ION CHROMATOGRAPH
 (Used internally for comparative check purposes)

Analysis Date: 11/19/08

Analyst Name: EAL

Filename for CV: 081119/081119_007.DXD

Calibration Date: 11/19/08

Method ID: 081119.met

Updated Method date: na

JBM
11/24/08

Calibration Equation Verification

| Analyte | calibration type: | 1st regression coefficient | 2nd regression coefficient | A conc reported by PeakNet ug/L | B conc calc by spreadsheet ug/L | A/B *100 agreement % |
|---------|-------------------|----------------------------|----------------------------|---------------------------------|---------------------------------|----------------------|
| Cl | quad. incl. 0.0 | 64622E+00 | 75234E+00 | 70.080 | 73.448 | 5246.7 |

Retention Time (RT) Verification

| Analyte | RT at calibration | RT in updated method (1st ICV or CCV) | (calibration vs. update) deviation % 10% tolerance | window width tolerance (NA) |
|---------|-------------------|---------------------------------------|---|-----------------------------|
| F | 3.45 | 3.42 | 0.3 | 5.00 % |
| Cl | 5.01 | 5.00 | 0.2 | 5.00 % |
| NO2-N | 6.15 | 6.13 | 0.3 | 4.90 % |
| Br | 7.96 | 7.99 | 0.4 | 7.30 % |
| NO3-N | 9.44 | 9.47 | 0.3 | 10.00% |
| PO4-P | 11.79 | 11.77 | 0.2 | 4.10 % |
| SO4 | 14.07 | 14.05 | 0.1 | 4.10 % |

Sample Analysis Report

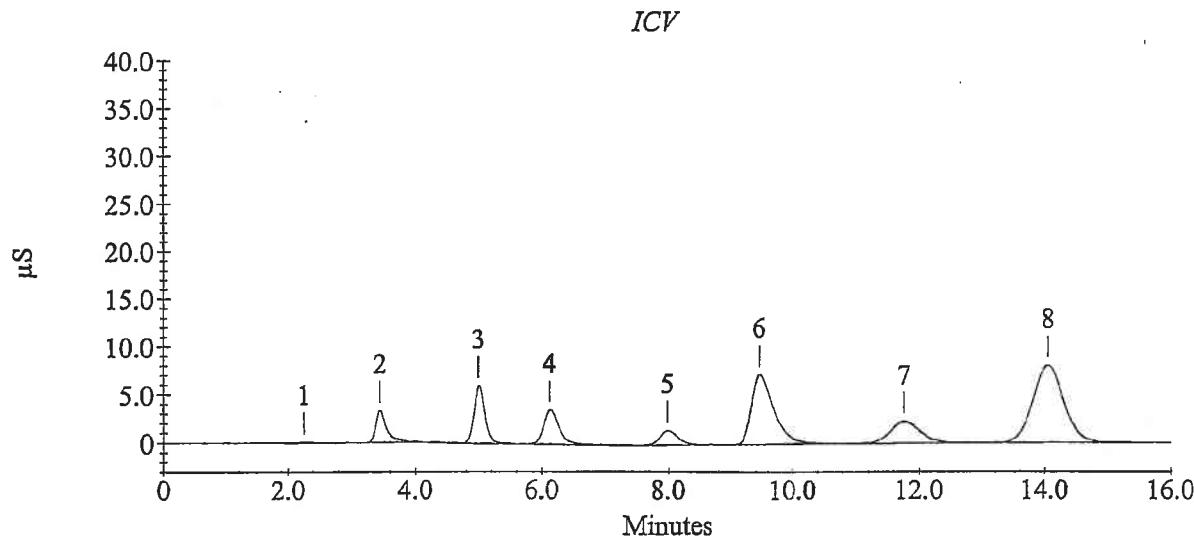
Sample Name : ICV

Data File Name : c:\peaknet\data\081119\081119_007.DXD

Method File Name : C:\PEAKNET\METHOD\081119.met Current Date : 11/20/08
Date, Time Analyzed : 11/19/08 1:39:18 PM Current Time : 11:35:30 AM
System Operator : WETCHEM Datafile Updated : 11/19/08 2:28:02 PM
Calibration Updated : 11/20/08 11:34:04 AM Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...

Peak Information : All Components

| Peak Number | Analyte | Retention Time (min.) | Concentration (ug/L) | Limit Exceeded | Peak Area |
|-------------|----------------------|--------------------------|----------------------|----------------|-----------|
| 2 | Fluoride | 3.44 | 2673.1 | | 395341 |
| 3 | Chloride | 5.00 | 5246.7 | | 737448 |
| 4 | Nitrite as N | 6.13 | 2093.1 | | 602262 |
| 5 | Bromide | 7.99 | 5409.7 | | 303962 |
| 6 | Nitrate as N | 9.47 | 5030.3 | | 1806681 |
| 7 | Orthophosphate as P | 11.77 | 5169.8 | | 735349 |
| 8 | Sulfate | 14.05 | 25781.7 | | 2726510 |
| | Nitrate/Nitrite as N | | | | |



Sample Analysis Report

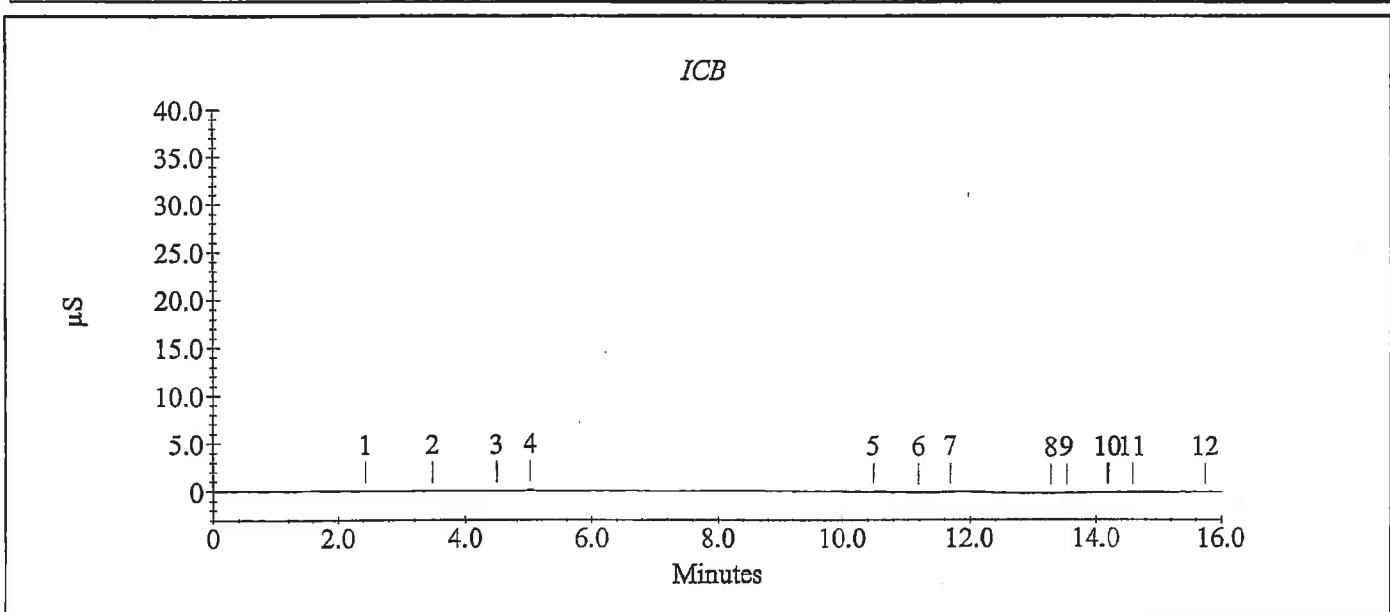
Sample Name : ICB

Data File Name : C:\PEAKNET\DATA\081119\081119_008.DXD

Method File Name : C:\PEAKNET\METHOD\081119.met Current Date : 11/20/08
Date, Time Analyzed : 11/19/08 1:55:19 PM Current Time : 3:28:38 PM
System Operator : WETCHEM Datafile Updated : 11/19/08 2:28:03 PM
Calibration Updated : 11/19/08 2:28:02 PM Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...

Peak Information : All Components

| Peak Number | Analyte | Retention Time (min.) | Concentration (ug/L) | Limit Exceeded | Peak Area |
|-------------|----------------------|--------------------------|----------------------|----------------|-----------|
| 1 | | 2.44 | 0.0 | - | 948 |
| 4 | Chloride | 5.03 | 10.4 | - | 10967 |
| | Nitrite as N | | | | |
| | Bromide | | | | |
| 5 | Nitrate as N | 10.49 | 1083.5 | - | 1335 |
| 7 | Orthophosphate as P | 11.69 | -178.6 | - | 935 |
| 10 | Sulfate | 14.19 | 319.6 | - | 6291 |
| | Nitrate/Nitrite as N | | | | |



Sample Analysis Report

Sample Name : IC081117-1MB

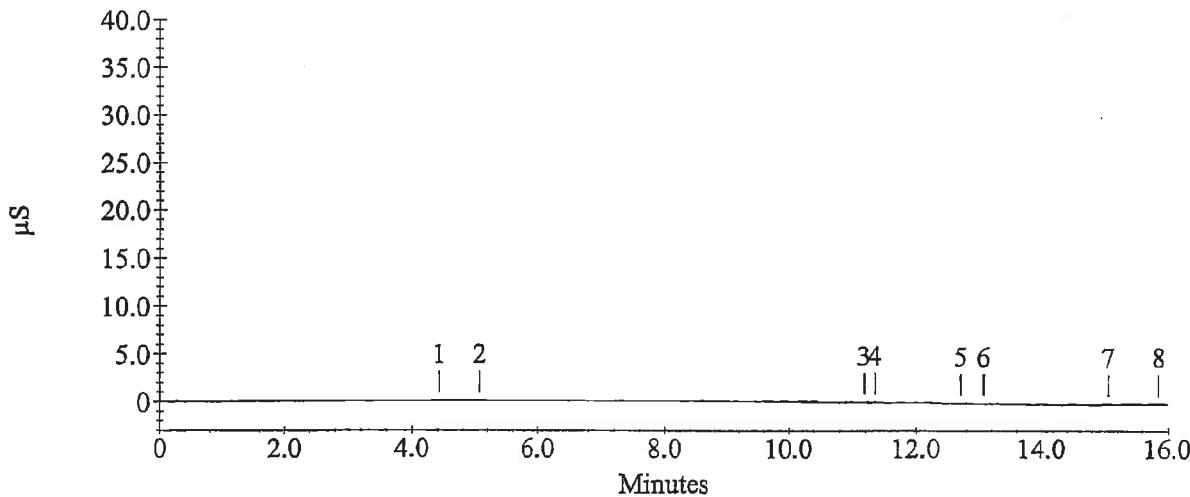
Data File Name : c:\peaknet\data\081119\081119_009.DXD

Method File Name : C:\PEAKNET\METHOD\081119.met Current Date : 11/20/08
Date, Time Analyzed : 11/19/08 2:35:51 PM Current Time : 11:35:31 AM
System Operator : WETCHEM Datafile Updated : 11/19/08 2:51:51 PM
Calibration Updated : 11/20/08 11:34:04 AM Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...

Peak Information : All Components

| Peak Number | Analyte | Retention Time (min.) | Concentration (ug/L) | Limit Exceeded | Peak Area |
|-------------|----------------------|--------------------------|----------------------|----------------|-----------|
| 1 | | 4.43 | 0.0 | - | 1633 |
| 2 | Chloride | 5.08 | -41.8 | - | 3744 |
| | Nitrite as N | | | | |
| | Bromide | | | | |
| | Nitrate as N | | | | |
| 4 | Orthophosphate as P | 11.36 | -145.0 | - | 4682 |
| | Sulfate | | | | |
| | Nitrate/Nitrite as N | | | | |

IC081117-1MB



Sample Analysis Report

Sample Name : 0811110-1 50X

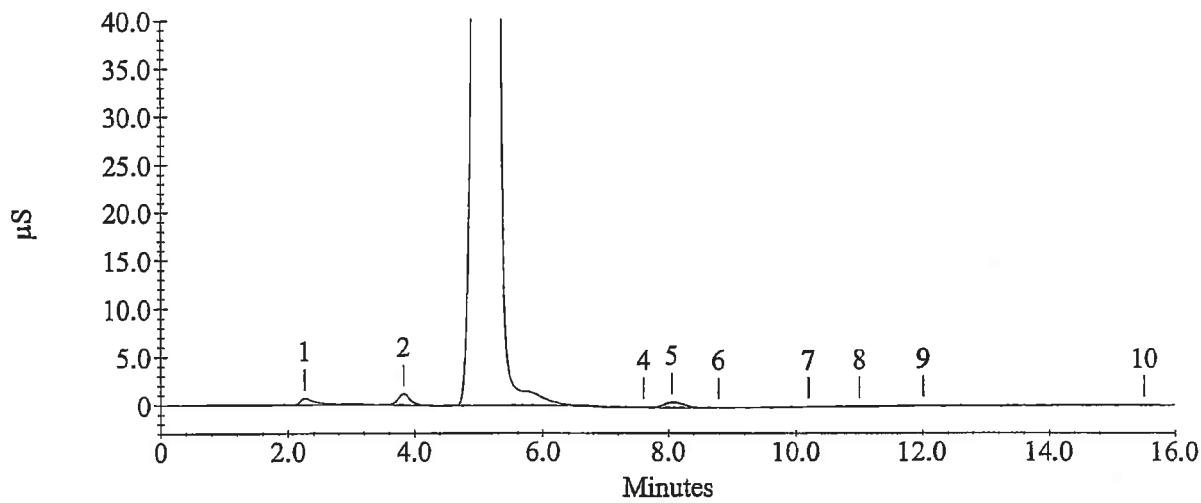
Data File Name : c:\peaknet\data\0811119\0811119_012.DXD

Method File Name : C:\PEAKNET\METHOD\0811119.met Current Date : 11/20/08
Date, Time Analyzed : 11/19/08 3:23:57 PM Current Time : 11:35:34 AM
System Operator : WETCHEM Datafile Updated : 11/19/08 3:39:57 PM
Calibration Updated : 11/20/08 11:34:04 AM Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...

Peak Information : All Components

| Peak Number | Analyte | Retention Time (min.) | Concentration (ug/L) | Limit Exceeded | Peak Area |
|-------------|----------------------|--------------------------|----------------------|----------------|-----------|
| 1 | | 2.25 | 0.0 | - | 117454 |
| 3 | Chloride | 5.21 | -812338.7 | - | 50719277 |
| | Nitrite as N | | | | |
| 5 | Bromide | 8.05 | 2215.5 | - | 122452 |
| 6 | Nitrate as N | 8.79 | 55.8 | - | 7554 |
| 9 | Orthophosphate as P | 12.01 | 45.2 | - | 30268 |
| | Sulfate | | | | |
| | Nitrate/Nitrite as N | | | | |

0811110-1 50X



Sample Analysis Report

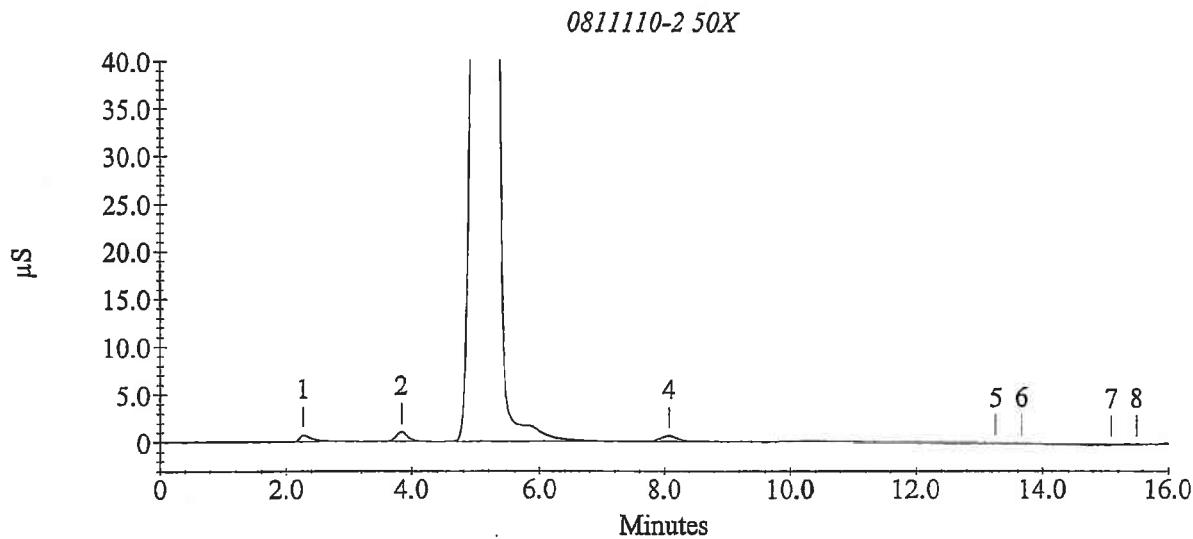
Sample Name : 0811110-2 50X

Data File Name : c:\peaknet\data\081119\081119_013.DXD

Method File Name : C:\PEAKNET\METHOD\081119.met Current Date : 11/20/08
Date, Time Analyzed : 11/19/08 3:39:59 PM Current Time : 11:35:35 AM
System Operator : WETCHEM Datafile Updated : 11/19/08 3:55:59 PM
Calibration Updated : 11/20/08 11:34:04 AM Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...

Peak Information : All Components

| Peak Number | Analyte | Retention Time (min.) | Concentration (ug/L) | Limit Exceeded | Peak Area |
|-------------|----------------------|--------------------------|----------------------|-------------------|-----------|
| 1 | | 2.27 | 0.0 | - | 98433 |
| 3 | Chloride | 5.24 | -968063.5 | - | 54486845 |
| | Nitrite as N | | | | |
| 4 | Bromide | 8.08 | 2119.3 | | 117109 |
| | Nitrate as N | | | | |
| | Orthophosphate as P | | | | |
| 6 | Sulfate | 13.68 | 251.3 | - | 6779 |
| | Nitrate/Nitrite as N | | | | |



Sample Analysis Report

Sample Name : IC081117-1LCS

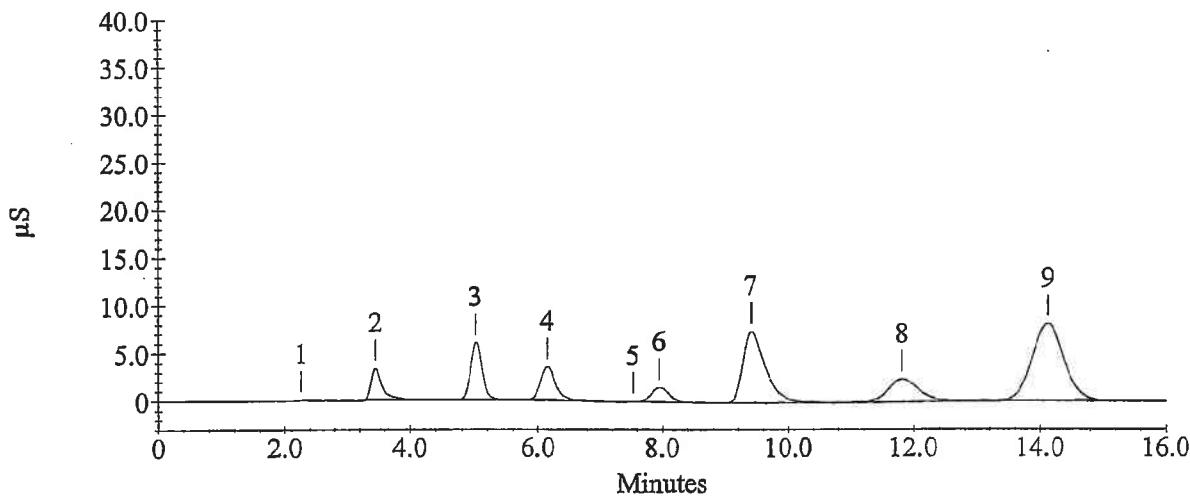
Data File Name : c:\peaknet\data\081119\081119_016.DXD

Method File Name : C:\PEAKNET\METHOD\081119.met Current Date : 11/20/08
Date, Time Analyzed : 11/19/08 4:28:05 PM Current Time : 11:35:38 AM
System Operator : WETCHEM Datafile Updated : 11/19/08 4:44:05 PM
Calibration Updated : 11/20/08 11:34:04 AM Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...

Peak Information : All Components

| Peak Number | Analyte | Retention Time (min.) | Concentration (ug/L) | Limit Exceeded | Peak Area |
|-------------|----------------------|--------------------------|----------------------|----------------|-----------|
| 2 | Fluoride | 3.45 | 2687.7 | | 397647 |
| 3 | Chloride | 5.01 | 5267.9 | | 740533 |
| 4 | Nitrite as N | 6.15 | 2104.7 | | 605681 |
| 6 | Bromide | 7.95 | 5292.8 | | 297174 |
| 7 | Nitrate as N | 9.40 | 5120.6 | | 1840844 |
| 8 | Orthophosphate as P | 11.83 | 5623.0 | | 799240 |
| 9 | Sulfate | 14.12 | 26778.2 | | 2837724 |
| | Nitrate/Nitrite as N | | | | |

IC081117-1LCS



Sample Analysis Report

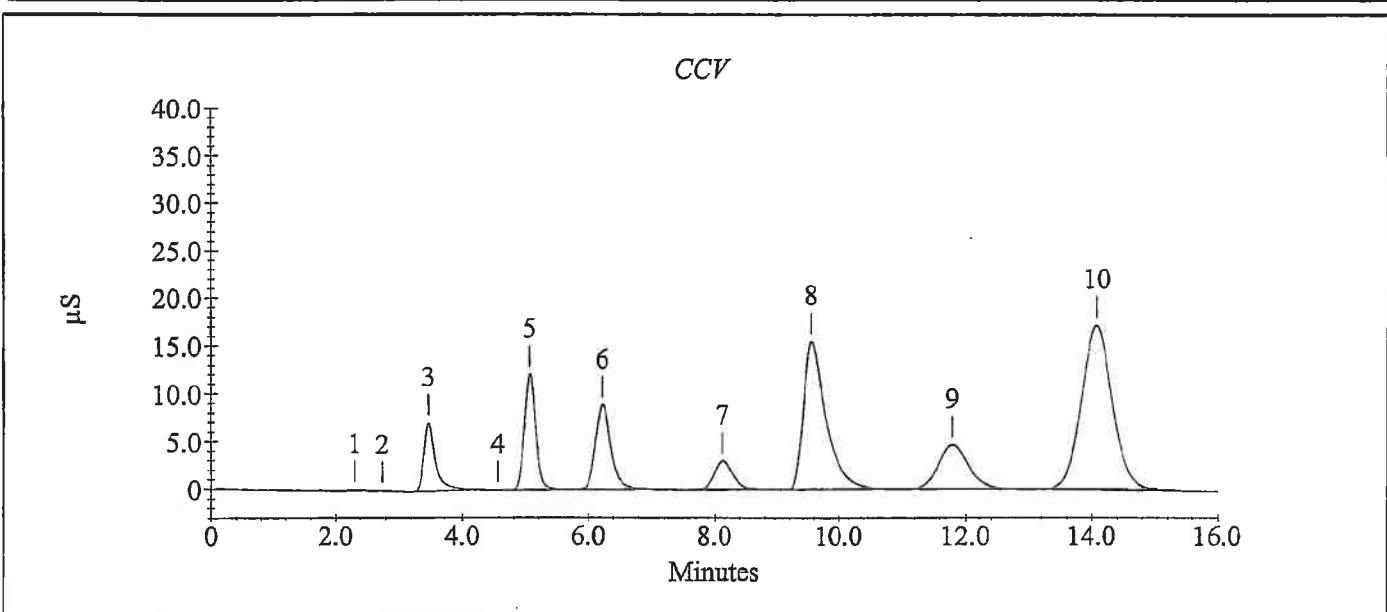
Sample Name : CCV

Data File Name : c:\peaknet\data\081119\081119_019.DXD

Method File Name : C:\PEAKNET\METHOD\081119.met Current Date : 11/20/08
Date, Time Analyzed : 11/19/08 5:16:11 PM Current Time : 11:35:40 AM
System Operator : WETCHEM Datafile Updated : 11/19/08 5:32:11 PM
Calibration Updated : 11/20/08 11:34:04 AM Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...

Peak Information : All Components

| Peak Number | Analyte | Retention Time (min.) | Concentration (ug/L) | Limit Exceeded | Peak Area |
|-------------|----------------------|--------------------------|----------------------|----------------|-----------|
| 3 | Fluoride | 3.47 | 5543.3 | | 880858 |
| 5 | Chloride | 5.07 | 10512.1 | | 1548761 |
| 6 | Nitrite as N | 6.23 | 5188.9 | | 1550822 |
| 7 | Bromide | 8.13 | 10689.3 | | 624162 |
| 8 | Nitrate as N | 9.56 | 10396.1 | | 3947835 |
| 9 | Orthophosphate as P | 11.80 | 10559.9 | | 1513269 |
| 10 | Sulfate | 14.08 | 52343.8 | | 5849083 |
| | Nitrate/Nitrite as N | | | | |



Sample Analysis Report

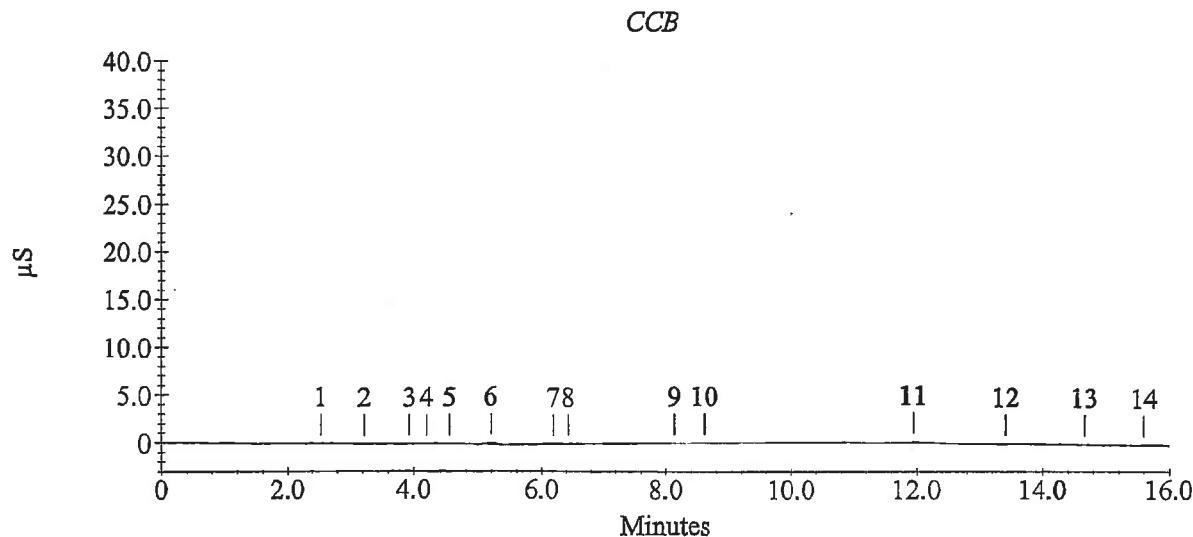
Sample Name : CCB

Data File Name : c:\peaknet\data\081119\081119_020.DXD

Method File Name : C:\PEAKNET\METHOD\081119.met Current Date : 11/20/08
Date, Time Analyzed : 11/19/08 5:32:13 PM Current Time : 11:35:40 AM
System Operator : WETCHEM Datafile Updated : 11/19/08 5:48:13 PM
Calibration Updated : 11/20/08 11:34:04 AM Method Comment : Flow rate = 1.2 mL/min,
Eluent = ...

Peak Information : All Components

| Peak Number | Analyte | Retention Time (min.) | Concentration (ug/L) | Limit Exceeded | Peak Area |
|-------------|--------------------------------|--------------------------|----------------------|----------------|-----------|
| 1 | | 2.53 | 0.0 | - | 3627 |
| 6 | Chloride | 5.19 | 108.0 | - | 23617 |
| 7 | Nitrite as N | 6.19 | 33.7 | - | 6637 |
| 9 | Bromide | 8.13 | 79.6 | - | 5466 |
| 10 | Nitrate as N | 8.61 | 38.9 | - | 1669 |
| 11 | Orthophosphate as P Sulfate | 11.95 | -136.0 | - | 5894 |
| | Nitrate/Nitrite as N | | | | |





PARAGON ANALYTICS

225 Commerce Drive ♦ Fort Collins, CO 80524 ♦ (800) 443-1511 ♦ (970) 490-1511 ♦ FAX (970) 490-1522

NCR #: 11020

CONTROLLED NON-CONFORMANCE REPORT

Non-Conformance

Initiated By: Eric A. Lintner on 11/20/2008

Event Type: Method Requirements Not Met -- CCV

Event Explanation: The closing CCV on 11/19/08 for samples 0811129-1 and 0811110-1 and -2, IC0811117-1MB and -LCS was high at 111% for fluoride. The MB and LCS are within control and the samples are non detect.

Action To

Prevent Recurrence: N/A - Random marginal exceedance

Corrective Action

Corrective Action: Document in Narrative

Department Manager Approval: Eric A. Lintner

Approval Date: 11/21/2008

Corrective Action Comments:

Workorders Affected

| Workorder -- Procedure | | Approved By | Approval Date |
|------------------------|--|-----------------|---------------|
| 0811129 – EPA300.0 | Sheri O Connor was contacted on 11/20/2008 | Debbie J. Fazio | 11/20/2008 |
| 0811110 – EPA300.0 | No client contact information. | Lance R. Steere | 11/21/2008 |

There Are No Associated Batches

NCR Approval

Project Manager Approval: DJF on 11/21/2008

LRS on 11/21/2008

Department Manager Approval: Eric A. Lintner on 11/21/2008

QA Manager Approval: Deb Scheib on 11/21/2008