



ENVIRONMENTAL
SCIENCE CORP.

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Mt. Juliet, TN 37122
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Tax I.D. 62-0814289

Est. 1970

Carrie Gudorf
Buys and Associates, Inc - GJ, CO
838 Grand Avenue, Suite 100

Grand Junction, CO 81506

Report Summary

Thursday October 16, 2008

Report Number: L367019

Samples Received: 09/26/08

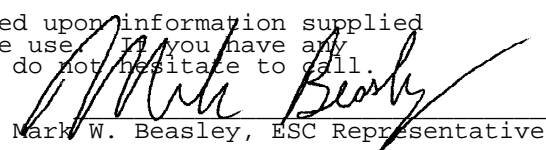
Client Project: 596-07

Description: Background Water Sampling

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Laboratory Certification Numbers


Mark W. Beasley, ESC Representative

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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Where applicable, sampling conducted by ESC is performed per guidance provided
in laboratory standard operating procedures: 060302, 060303, and 060304.



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REPORT OF ANALYSIS

Carrie Gudorf
Buys and Associates, Inc - GJ, CO
838 Grand Avenue, Suite 100
Grand Junction, CO 81506

October 16, 2008

Date Received : September 26, 2008
Description : Background Water Sampling

Sample ID : MOC 20

Collected By : Carrie Gudorf
Collection Date : 09/24/08 12:12

ESC Sample # : L367019-01

Site ID :

Project # : 596-07

| Parameter | Result | MDL | RDL | Units | Q | Method | Date | Dil. |
|----------------------------|--------|-------|-------|----------|----|---------|----------|------|
| Chloride | 2200 | 220 | 1000 | ug/l | P1 | 9056 | 09/26/08 | 1 |
| Fluoride | 88. | 32. | 100 | ug/l | J | 9056 | 09/26/08 | 1 |
| Nitrate | 98. | 15. | 100 | ug/l | J | 9056 | 09/26/08 | 1 |
| Nitrite | 65. | 17. | 100 | ug/l | J | 9056 | 09/26/08 | 1 |
| Sulfate | 34000 | 170 | 5000 | ug/l | | 9056 | 09/26/08 | 1 |
| Alkalinity | 200000 | 2600 | 10000 | ug/l | | 2320B | 10/02/08 | 1 |
| Alkalinity,Bicarbonate | 200000 | 1100 | 10000 | ug/l | | 2320B | 10/02/08 | 1 |
| Alkalinity,Carbonate | U | 1100 | 10000 | ug/l | | 2320B | 10/02/08 | 1 |
| Ammonia Nitrogen | U | 34. | 100 | ug/l | | 350.1 | 09/30/08 | 1 |
| pH | 8.6 | | | su | T8 | 9040C | 10/01/08 | 1 |
| Sulfide | U | 16. | 50. | ug/l | | 4500-S2 | 09/30/08 | 1 |
| Specific Conductance | 470 | | | umhos/cm | | 9050A | 09/30/08 | 1 |
| TOC (Total Organic Carbon) | 3900 | 310 | 1000 | ug/l | | 9060A | 10/04/08 | 1 |
| Dissolved Solids | 280000 | 3300 | 10000 | ug/l | | 2540C | 10/01/08 | 1 |
| Cadmium | U | 0.15 | 0.50 | ug/l | | 6020 | 10/04/08 | 1 |
| Chromium | U | 0.34 | 1.0 | ug/l | | 6020 | 10/04/08 | 1 |
| Copper | 0.65 | 0.48 | 1.0 | ug/l | J | 6020 | 10/04/08 | 1 |
| Lead | U | 0.13 | 1.0 | ug/l | | 6020 | 10/04/08 | 1 |
| Nickel | 2.1 | 0.22 | 1.0 | ug/l | | 6020 | 10/04/08 | 1 |
| Selenium | 0.41 | 0.32 | 1.0 | ug/l | J | 6020 | 10/04/08 | 1 |
| Silver | U | 0.13 | 0.50 | ug/l | | 6020 | 10/04/08 | 1 |
| Zinc | U | 3.3 | 10. | ug/l | | 6020 | 10/08/08 | 1 |
| Mercury | 0.060 | 0.044 | 0.20 | ug/l | J | 7470A | 09/29/08 | 1 |
| Barium | 65. | 1.1 | 5.0 | ug/l | | 6010B | 10/03/08 | 1 |
| Boron | 58. | 16. | 200 | ug/l | J | 6010B | 10/03/08 | 1 |
| Calcium | 44000 | 160 | 500 | ug/l | | 6010B | 10/03/08 | 1 |
| Magnesium | 20000 | 23. | 100 | ug/l | | 6010B | 10/03/08 | 1 |
| Manganese | 6.2 | 1.1 | 10. | ug/l | J | 6010B | 10/03/08 | 1 |
| Molybdenum | 9.4 | 1.8 | 5.0 | ug/l | | 6010B | 10/03/08 | 1 |
| Potassium | 1300 | 100 | 500 | ug/l | | 6010B | 10/05/08 | 1 |
| Sodium | 32000 | 120 | 500 | ug/l | | 6010B | 10/05/08 | 1 |
| Benzene | U | 0.29 | 1.0 | ug/l | | 8260B | 10/01/08 | 1 |

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL

MDL = Minimum Detection Limit = LOD = SQL(TRRP)

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Reported: 10/16/08 11:38 Printed: 10/16/08 11:38

L367019-01 (PH) - 8.6@17.8c

L367019-01 (SPCON) - 474@20.1c



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REPORT OF ANALYSIS

Carrie Gudorf
Buys and Associates, Inc - GJ, CO
838 Grand Avenue, Suite 100
Grand Junction, CO 81506

October 16, 2008

Date Received : September 26, 2008
Description : Background Water Sampling

Sample ID : MOC 20

Collected By : Carrie Gudorf
Collection Date : 09/24/08 12:12

ESC Sample # : L367019-01

Site ID :

Project # : 596-07

| Parameter | Result | MDL | RDL | Units | Q | Method | Date | Dil. |
|------------------------|--------|------|-----|--------|---|--------|----------|------|
| Toluene | U | 0.27 | 5.0 | ug/l | | 8260B | 10/01/08 | 1 |
| Ethylbenzene | U | 0.22 | 1.0 | ug/l | | 8260B | 10/01/08 | 1 |
| Total Xylenes | U | 0.86 | 3.0 | ug/l | | 8260B | 10/01/08 | 1 |
| Surrogate Recovery | | | | | | | | |
| Toluene-d8 | 102. | | | % Rec. | | 8260B | 10/01/08 | 1 |
| Dibromofluoromethane | 97.2 | | | % Rec. | | 8260B | 10/01/08 | 1 |
| a,a,a-Trifluorotoluene | 103. | | | % Rec. | | 8260B | 10/01/08 | 1 |
| 4-Bromofluorobenzene | 97.3 | | | % Rec. | | 8260B | 10/01/08 | 1 |

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L367019-01 (PH) - 8.6@17.8c

L367019-01 (SPCON) - 474@20.1c



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838 Grand Avenue, Suite 100
Grand Junction, CO 81506

October 16, 2008

Date Received : September 26, 2008
Description : Background Water Sampling

Sample ID : MOC 21

Collected By : Carrie Gudorf
Collection Date : 09/24/08 11:30

ESC Sample # : L367019-02

Site ID :

Project # : 596-07

| Parameter | Result | MDL | RDL | Units | Q | Method | Date | Dil. |
|----------------------------|--------|-------|-------|----------|----|---------|----------|------|
| Chloride | 2000 | 220 | 1000 | ug/l | | 9056 | 09/26/08 | 1 |
| Fluoride | 94. | 32. | 100 | ug/l | J | 9056 | 09/26/08 | 1 |
| Nitrate | 300 | 15. | 100 | ug/l | | 9056 | 09/26/08 | 1 |
| Nitrite | 71. | 17. | 100 | ug/l | J | 9056 | 09/26/08 | 1 |
| Sulfate | 35000 | 170 | 5000 | ug/l | | 9056 | 09/26/08 | 1 |
| Alkalinity | 230000 | 2600 | 10000 | ug/l | | 2320B | 10/02/08 | 1 |
| Alkalinity,Bicarbonate | 230000 | 1100 | 10000 | ug/l | | 2320B | 10/02/08 | 1 |
| Alkalinity,Carbonate | U | 1100 | 10000 | ug/l | | 2320B | 10/02/08 | 1 |
| Ammonia Nitrogen | U | 34. | 100 | ug/l | | 350.1 | 09/30/08 | 1 |
| pH | 8.5 | | | su | T8 | 9040C | 09/30/08 | 1 |
| Sulfide | U | 16. | 50. | ug/l | | 4500-S2 | 09/30/08 | 1 |
| Specific Conductance | 520 | | | umhos/cm | | 9050A | 09/30/08 | 1 |
| TOC (Total Organic Carbon) | 3000 | 310 | 1000 | ug/l | | 9060A | 10/04/08 | 1 |
| Dissolved Solids | 310000 | 3300 | 10000 | ug/l | | 2540C | 10/01/08 | 1 |
| Cadmium | U | 0.15 | 0.50 | ug/l | | 6020 | 10/04/08 | 1 |
| Chromium | U | 0.34 | 1.0 | ug/l | | 6020 | 10/04/08 | 1 |
| Copper | 0.85 | 0.48 | 1.0 | ug/l | J | 6020 | 10/04/08 | 1 |
| Lead | U | 0.13 | 1.0 | ug/l | | 6020 | 10/04/08 | 1 |
| Nickel | 2.8 | 0.22 | 1.0 | ug/l | | 6020 | 10/04/08 | 1 |
| Selenium | 0.40 | 0.32 | 1.0 | ug/l | J | 6020 | 10/04/08 | 1 |
| Silver | U | 0.13 | 0.50 | ug/l | | 6020 | 10/04/08 | 1 |
| Zinc | 6.7 | 3.3 | 10. | ug/l | J | 6020 | 10/16/08 | 1 |
| Mercury | 0.060 | 0.044 | 0.20 | ug/l | J | 7470A | 09/29/08 | 1 |
| Barium | 120 | 1.1 | 5.0 | ug/l | | 6010B | 10/03/08 | 1 |
| Boron | 65. | 16. | 200 | ug/l | J | 6010B | 10/03/08 | 1 |
| Calcium | 55000 | 160 | 500 | ug/l | | 6010B | 10/03/08 | 1 |
| Magnesium | 21000 | 23. | 100 | ug/l | | 6010B | 10/03/08 | 1 |
| Manganese | 23. | 1.1 | 10. | ug/l | | 6010B | 10/03/08 | 1 |
| Molybdenum | 7.1 | 1.8 | 5.0 | ug/l | | 6010B | 10/03/08 | 1 |
| Potassium | 1600 | 100 | 500 | ug/l | | 6010B | 10/03/08 | 1 |
| Sodium | 31000 | 120 | 500 | ug/l | | 6010B | 10/03/08 | 1 |
| Benzene | U | 0.29 | 1.0 | ug/l | | 8260B | 10/01/08 | 1 |

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L367019-02 (SPCON) - 517@20.1c

L367019-02 (PH) - 8.5@20.0c



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REPORT OF ANALYSIS

Carrie Gudorf
Buys and Associates, Inc - GJ, CO
838 Grand Avenue, Suite 100
Grand Junction, CO 81506

October 16, 2008

Date Received : September 26, 2008
Description : Background Water Sampling

Sample ID : MOC 21

Collected By : Carrie Gudorf
Collection Date : 09/24/08 11:30

ESC Sample # : L367019-02

Site ID :

Project # : 596-07

| Parameter | Result | MDL | RDL | Units | Q | Method | Date | Dil. |
|------------------------|--------|------|-----|--------|---|--------|----------|------|
| Toluene | U | 0.27 | 5.0 | ug/l | | 8260B | 10/01/08 | 1 |
| Ethylbenzene | U | 0.22 | 1.0 | ug/l | | 8260B | 10/01/08 | 1 |
| Total Xylenes | U | 0.86 | 3.0 | ug/l | | 8260B | 10/01/08 | 1 |
| Surrogate Recovery | | | | | | | | |
| Toluene-d8 | 102. | | | % Rec. | | 8260B | 10/01/08 | 1 |
| Dibromofluoromethane | 97.1 | | | % Rec. | | 8260B | 10/01/08 | 1 |
| a,a,a-Trifluorotoluene | 103. | | | % Rec. | | 8260B | 10/01/08 | 1 |
| 4-Bromofluorobenzene | 96.3 | | | % Rec. | | 8260B | 10/01/08 | 1 |

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L367019-02 (SPCON) - 517@20.1c

L367019-02 (PH) - 8.5@20.0c



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838 Grand Avenue, Suite 100
Grand Junction, CO 81506

October 16, 2008

Date Received : September 26, 2008
Description : Background Water Sampling

Sample ID : MOC 30

Collected By : Carrie Gudorf
Collection Date : 09/24/08 15:18

ESC Sample # : L367019-03

Site ID :

Project # : 596-07

| Parameter | Result | MDL | RDL | Units | Q | Method | Date | Dil. |
|----------------------------|--------|-------|-------|----------|----|---------|----------|------|
| Chloride | 16000 | 220 | 1000 | ug/l | | 9056 | 09/26/08 | 1 |
| Fluoride | 110 | 32. | 100 | ug/l | | 9056 | 09/26/08 | 1 |
| Nitrate | 140 | 15. | 100 | ug/l | | 9056 | 09/26/08 | 1 |
| Nitrite | 69. | 17. | 100 | ug/l | J | 9056 | 09/26/08 | 1 |
| Sulfate | 66000 | 170 | 5000 | ug/l | | 9056 | 09/26/08 | 1 |
| Alkalinity | 270000 | 2600 | 10000 | ug/l | | 2320B | 10/02/08 | 1 |
| Alkalinity,Bicarbonate | 270000 | 1100 | 10000 | ug/l | | 2320B | 10/02/08 | 1 |
| Alkalinity,Carbonate | U | 1100 | 10000 | ug/l | | 2320B | 10/02/08 | 1 |
| Ammonia Nitrogen | U | 34. | 100 | ug/l | | 350.1 | 09/30/08 | 1 |
| pH | 8.1 | | | su | T8 | 9040C | 10/01/08 | 1 |
| Sulfide | U | 16. | 50. | ug/l | | 4500-S2 | 09/30/08 | 1 |
| Specific Conductance | 650 | | | umhos/cm | | 9050A | 09/30/08 | 1 |
| TOC (Total Organic Carbon) | 5100 | 310 | 1000 | ug/l | | 9060A | 10/04/08 | 1 |
| Dissolved Solids | 370000 | 3300 | 10000 | ug/l | | 2540C | 10/01/08 | 1 |
| Cadmium | U | 0.15 | 0.50 | ug/l | | 6020 | 10/04/08 | 1 |
| Chromium | U | 0.34 | 1.0 | ug/l | | 6020 | 10/04/08 | 1 |
| Copper | 0.65 | 0.48 | 1.0 | ug/l | J | 6020 | 10/04/08 | 1 |
| Lead | U | 0.13 | 1.0 | ug/l | | 6020 | 10/04/08 | 1 |
| Nickel | 2.6 | 0.22 | 1.0 | ug/l | | 6020 | 10/04/08 | 1 |
| Selenium | U | 0.32 | 1.0 | ug/l | | 6020 | 10/07/08 | 1 |
| Silver | U | 0.13 | 0.50 | ug/l | | 6020 | 10/04/08 | 1 |
| Zinc | 8.2 | 3.3 | 10. | ug/l | J | 6020 | 10/16/08 | 1 |
| Mercury | 0.060 | 0.044 | 0.20 | ug/l | J | 7470A | 09/29/08 | 1 |
| Barium | 99. | 1.1 | 5.0 | ug/l | | 6010B | 10/03/08 | 1 |
| Boron | 72. | 16. | 200 | ug/l | J | 6010B | 10/03/08 | 1 |
| Calcium | 54000 | 160 | 500 | ug/l | | 6010B | 10/03/08 | 1 |
| Magnesium | 28000 | 23. | 100 | ug/l | | 6010B | 10/03/08 | 1 |
| Manganese | 18. | 1.1 | 10. | ug/l | | 6010B | 10/03/08 | 1 |
| Molybdenum | 8.3 | 1.8 | 5.0 | ug/l | | 6010B | 10/03/08 | 1 |
| Potassium | 1800 | 100 | 500 | ug/l | | 6010B | 10/03/08 | 1 |
| Sodium | 47000 | 120 | 500 | ug/l | | 6010B | 10/03/08 | 1 |
| Benzene | U | 0.29 | 1.0 | ug/l | | 8260B | 10/01/08 | 1 |

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L367019-03 (SPCON) - 653@20.0c

L367019-03 (PH) - 8.1@18.8c



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REPORT OF ANALYSIS

Carrie Gudorf
Buys and Associates, Inc - GJ, CO
838 Grand Avenue, Suite 100
Grand Junction, CO 81506

October 16, 2008

Date Received : September 26, 2008
Description : Background Water Sampling

Sample ID : MOC 30

Collected By : Carrie Gudorf
Collection Date : 09/24/08 15:18

ESC Sample # : L367019-03

Site ID :

Project # : 596-07

| Parameter | Result | MDL | RDL | Units | Q | Method | Date | Dil. |
|------------------------|--------|------|-----|--------|---|--------|----------|------|
| Toluene | U | 0.27 | 5.0 | ug/l | | 8260B | 10/01/08 | 1 |
| Ethylbenzene | U | 0.22 | 1.0 | ug/l | | 8260B | 10/01/08 | 1 |
| Total Xylenes | U | 0.86 | 3.0 | ug/l | | 8260B | 10/01/08 | 1 |
| Surrogate Recovery | | | | | | | | |
| Toluene-d8 | 103. | | | % Rec. | | 8260B | 10/01/08 | 1 |
| Dibromofluoromethane | 100. | | | % Rec. | | 8260B | 10/01/08 | 1 |
| a,a,a-Trifluorotoluene | 103. | | | % Rec. | | 8260B | 10/01/08 | 1 |
| 4-Bromofluorobenzene | 99.5 | | | % Rec. | | 8260B | 10/01/08 | 1 |

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L367019-03 (SPCON) - 653@20.0c

L367019-03 (PH) - 8.1@18.8c



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October 16, 2008

Date Received : September 26, 2008
Description : Background Water Sampling

Sample ID : MOC 31

Collected By : Carrie Gudorf
Collection Date : 09/24/08 14:20

ESC Sample # : L367019-04

Site ID :

Project # : 596-07

| Parameter | Result | MDL | RDL | Units | Q | Method | Date | Dil. |
|----------------------------|--------|-------|-------|----------|----|---------|----------|------|
| Chloride | 26000 | 220 | 1000 | ug/l | | 9056 | 09/26/08 | 1 |
| Fluoride | 98. | 32. | 100 | ug/l | J | 9056 | 09/26/08 | 1 |
| Nitrate | 690 | 15. | 100 | ug/l | | 9056 | 09/26/08 | 1 |
| Nitrite | 41. | 17. | 100 | ug/l | J | 9056 | 09/26/08 | 1 |
| Sulfate | 66000 | 170 | 5000 | ug/l | | 9056 | 09/26/08 | 1 |
| Alkalinity | 240000 | 2600 | 10000 | ug/l | | 2320B | 10/02/08 | 1 |
| Alkalinity,Bicarbonate | 240000 | 1100 | 10000 | ug/l | | 2320B | 10/02/08 | 1 |
| Alkalinity,Carbonate | U | 1100 | 10000 | ug/l | | 2320B | 10/02/08 | 1 |
| Ammonia Nitrogen | U | 34. | 100 | ug/l | | 350.1 | 09/30/08 | 1 |
| pH | 8.4 | | | su | T8 | 9040C | 10/01/08 | 1 |
| Sulfide | U | 16. | 50. | ug/l | | 4500-S2 | 09/30/08 | 1 |
| Specific Conductance | 670 | | | umhos/cm | | 9050A | 09/30/08 | 1 |
| TOC (Total Organic Carbon) | 4500 | 310 | 1000 | ug/l | | 9060A | 10/04/08 | 1 |
| Dissolved Solids | 390000 | 3300 | 10000 | ug/l | | 2540C | 10/01/08 | 1 |
| Cadmium | U | 0.15 | 0.50 | ug/l | | 6020 | 10/04/08 | 1 |
| Chromium | 0.55 | 0.34 | 1.0 | ug/l | J | 6020 | 10/04/08 | 1 |
| Copper | 1.0 | 0.48 | 1.0 | ug/l | | 6020 | 10/04/08 | 1 |
| Lead | U | 0.13 | 1.0 | ug/l | | 6020 | 10/04/08 | 1 |
| Nickel | 3.1 | 0.22 | 1.0 | ug/l | | 6020 | 10/04/08 | 1 |
| Selenium | U | 0.32 | 1.0 | ug/l | | 6020 | 10/07/08 | 1 |
| Silver | U | 0.13 | 0.50 | ug/l | | 6020 | 10/04/08 | 1 |
| Zinc | 9.0 | 3.3 | 10. | ug/l | J | 6020 | 10/16/08 | 1 |
| Mercury | 0.060 | 0.044 | 0.20 | ug/l | J | 7470A | 09/29/08 | 1 |
| Barium | 130 | 1.1 | 5.0 | ug/l | | 6010B | 10/03/08 | 1 |
| Boron | 70. | 16. | 200 | ug/l | J | 6010B | 10/03/08 | 1 |
| Calcium | 57000 | 160 | 500 | ug/l | | 6010B | 10/03/08 | 1 |
| Magnesium | 28000 | 23. | 100 | ug/l | | 6010B | 10/03/08 | 1 |
| Manganese | 21. | 1.1 | 10. | ug/l | | 6010B | 10/03/08 | 1 |
| Molybdenum | 8.3 | 1.8 | 5.0 | ug/l | | 6010B | 10/03/08 | 1 |
| Potassium | 2100 | 100 | 500 | ug/l | | 6010B | 10/03/08 | 1 |
| Sodium | 48000 | 120 | 500 | ug/l | | 6010B | 10/03/08 | 1 |
| Benzene | U | 0.29 | 1.0 | ug/l | | 8260B | 10/01/08 | 1 |

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Reported: 10/16/08 11:38 Printed: 10/16/08 11:38

L367019-04 (SPCON) - 666@19.8c

L367019-04 (PH) - 8.4@18.6c



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REPORT OF ANALYSIS

Carrie Gudorf
Buys and Associates, Inc - GJ, CO
838 Grand Avenue, Suite 100
Grand Junction, CO 81506

October 16, 2008

Date Received : September 26, 2008
Description : Background Water Sampling

Sample ID : MOC 31

Collected By : Carrie Gudorf
Collection Date : 09/24/08 14:20

ESC Sample # : L367019-04

Site ID :

Project # : 596-07

| Parameter | Result | MDL | RDL | Units | Q | Method | Date | Dil. |
|------------------------|--------|------|-----|--------|---|--------|----------|------|
| Toluene | U | 0.27 | 5.0 | ug/l | | 8260B | 10/01/08 | 1 |
| Ethylbenzene | U | 0.22 | 1.0 | ug/l | | 8260B | 10/01/08 | 1 |
| Total Xylenes | U | 0.86 | 3.0 | ug/l | | 8260B | 10/01/08 | 1 |
| Surrogate Recovery | | | | | | | | |
| Toluene-d8 | 102. | | | % Rec. | | 8260B | 10/01/08 | 1 |
| Dibromofluoromethane | 98.6 | | | % Rec. | | 8260B | 10/01/08 | 1 |
| a,a,a-Trifluorotoluene | 103. | | | % Rec. | | 8260B | 10/01/08 | 1 |
| 4-Bromofluorobenzene | 100. | | | % Rec. | | 8260B | 10/01/08 | 1 |

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL

MDL = Minimum Detection Limit = LOD = SQL(TRRP)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

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L367019-04 (SPCON) - 666@19.8c

L367019-04 (PH) - 8.4@18.6c

Attachment A
List of Analytes with QC Qualifiers

| Sample Number | Work Group | Sample Type | Analyte | Run ID | Qualifier |
|---------------|------------|-------------|-----------|---------|-----------|
| L367019-01 | WG386377 | SAMP | pH | R484224 | T8 |
| | WG386239 | SAMP | Boron | R487529 | J |
| | WG386239 | SAMP | Manganese | R487529 | J |
| | WG386477 | SAMP | Copper | R488868 | J |
| | WG386477 | SAMP | Selenium | R488868 | J |
| | WG385909 | SAMP | Mercury | R481249 | J |
| | WG385591 | SAMP | Chloride | R479544 | P1 |
| | WG385591 | SAMP | Fluoride | R479544 | J |
| | WG385591 | SAMP | Nitrate | R479544 | J |
| | WG385591 | SAMP | Nitrite | R479544 | J |
| L367019-02 | WG386329 | SAMP | pH | R483427 | T8 |
| | WG386334 | SAMP | Boron | R488287 | J |
| | WG386237 | SAMP | Copper | R489084 | J |
| | WG386237 | SAMP | Selenium | R489084 | J |
| | WG387704 | SAMP | Zinc | R503060 | J |
| | WG385909 | SAMP | Mercury | R481249 | J |
| | WG385591 | SAMP | Fluoride | R479544 | J |
| | WG385591 | SAMP | Nitrite | R479544 | J |
| | WG386377 | SAMP | pH | R484224 | T8 |
| | WG386334 | SAMP | Boron | R488287 | J |
| L367019-03 | WG386237 | SAMP | Copper | R489084 | J |
| | WG387704 | SAMP | Zinc | R503060 | J |
| | WG385909 | SAMP | Mercury | R481249 | J |
| | WG385591 | SAMP | Nitrite | R479544 | J |
| | WG386377 | SAMP | pH | R484224 | T8 |
| | WG386334 | SAMP | Boron | R488287 | J |
| L367019-04 | WG386237 | SAMP | Chromium | R489084 | J |
| | WG387704 | SAMP | Zinc | R503060 | J |
| | WG385909 | SAMP | Mercury | R481249 | J |
| | WG385591 | SAMP | Fluoride | R479544 | J |
| | WG385591 | SAMP | Nitrite | R479544 | J |

Attachment B
Explanation of QC Qualifier Codes

| Qualifier | Meaning |
|-----------|---|
| J | (EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration. |
| P1 | RPD value not applicable for sample concentrations less than 5 times the reporting limit. |
| T8 | (ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration. |

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
10/16/08 at 11:38:51

TSR Signing Reports: 134
R5 - Desired TAT

Sample: L367019-01 Account: BUYSGJCO Received: 09/26/08 09:00 Due Date: 10/03/08 00:00 RPT Date: 10/16/08 11:38
Refer to L367020
Sample: L367019-02 Account: BUYSGJCO Received: 09/26/08 09:00 Due Date: 10/03/08 00:00 RPT Date: 10/16/08 11:38
Sample: L367019-03 Account: BUYSGJCO Received: 09/26/08 09:00 Due Date: 10/03/08 00:00 RPT Date: 10/16/08 11:38
Sample: L367019-04 Account: BUYSGJCO Received: 09/26/08 09:00 Due Date: 10/03/08 00:00 RPT Date: 10/16/08 11:38



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Quality Assurance Report Level II

L367019

October 16, 2008

| Analyte | Result | Laboratory Blank | | Limit | Batch | Date Analyzed |
|------------------------|---------|------------------|-------|--------|----------|----------------|
| | | Units | % Rec | | | |
| Chloride | < 1 | mg/l | | | WG385591 | 09/26/08 11:16 |
| Fluoride | < .1 | mg/l | | | WG385591 | 09/26/08 11:16 |
| Nitrate | < .1 | mg/l | | | WG385591 | 09/26/08 11:16 |
| Nitrite | < .1 | mg/l | | | WG385591 | 09/26/08 11:16 |
| Sulfate | < 5 | mg/l | | | WG385591 | 09/26/08 11:16 |
| Mercury | < .0002 | mg/l | | | WG385909 | 09/29/08 14:08 |
| Sulfide | < .05 | mg/l | | | WG386136 | 09/30/08 14:05 |
| Ammonia Nitrogen | < .1 | mg/l | | | WG386095 | 09/30/08 14:55 |
| Specific Conductance | 0.390 | umhos/cm | | | WG386137 | 09/30/08 15:45 |
| pH | 5.30 | su | | | WG386329 | 09/30/08 16:00 |
| Dissolved Solids | < 10 | mg/l | | | WG385868 | 10/01/08 12:55 |
| Dissolved Solids | < 10 | mg/l | | | WG385867 | 10/01/08 13:13 |
| pH | 6.80 | su | | | WG386377 | 10/01/08 12:45 |
| Benzene | < .001 | mg/l | | | WG386398 | 10/01/08 07:13 |
| Ethylbenzene | < .001 | mg/l | | | WG386398 | 10/01/08 07:13 |
| Toluene | < .005 | mg/l | | | WG386398 | 10/01/08 07:13 |
| Total Xylenes | < .003 | mg/l | | | WG386398 | 10/01/08 07:13 |
| 4-Bromofluorobenzene | | % Rec. | 96.39 | 75-128 | WG386398 | 10/01/08 07:13 |
| Dibromofluoromethane | | % Rec. | 96.53 | 79-125 | WG386398 | 10/01/08 07:13 |
| Toluene-d8 | | % Rec. | 101.7 | 87-114 | WG386398 | 10/01/08 07:13 |
| a,a,a-Trifluorotoluene | | % Rec. | 103.4 | 84-114 | WG386398 | 10/01/08 07:13 |
| Alkalinity | < 10 | mg/l | | | WG386465 | 10/02/08 10:24 |
| Barium | < .005 | mg/l | | | WG386239 | 10/01/08 23:26 |
| Boron | < .2 | mg/l | | | WG386239 | 10/01/08 23:26 |
| Calcium | < .5 | mg/l | | | WG386239 | 10/01/08 23:26 |
| Magnesium | < .1 | mg/l | | | WG386239 | 10/01/08 23:26 |
| Manganese | < .01 | mg/l | | | WG386239 | 10/01/08 23:26 |
| Molybdenum | < .005 | mg/l | | | WG386239 | 10/01/08 23:26 |
| Barium | < .005 | mg/l | | | WG386334 | 10/03/08 21:38 |
| Boron | < .2 | mg/l | | | WG386334 | 10/03/08 21:38 |
| Calcium | < .5 | mg/l | | | WG386334 | 10/03/08 21:38 |
| Magnesium | < .1 | mg/l | | | WG386334 | 10/03/08 21:38 |
| Manganese | < .01 | mg/l | | | WG386334 | 10/03/08 21:38 |
| Molybdenum | < .005 | mg/l | | | WG386334 | 10/03/08 21:38 |

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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Quality Assurance Report Level II

L367019

October 16, 2008

| Analyte | Result | Laboratory Blank | | Limit | Batch | Date Analyzed |
|----------------------------|---------|------------------|-------|-------|----------|----------------|
| | | Units | % Rec | | | |
| Potassium | < .5 | mg/l | | | WG386334 | 10/03/08 21:38 |
| Sodium | < .5 | mg/l | | | WG386334 | 10/03/08 21:38 |
| TOC (Total Organic Carbon) | < 1 | mg/l | | | WG386372 | 10/03/08 20:33 |
| Cadmium | < .0005 | mg/l | | | WG386477 | 10/04/08 19:50 |
| Chromium | < .001 | mg/l | | | WG386477 | 10/04/08 19:50 |
| Copper | < .001 | mg/l | | | WG386477 | 10/04/08 19:50 |
| Lead | < .001 | mg/l | | | WG386477 | 10/04/08 19:50 |
| Nickel | < .001 | mg/l | | | WG386477 | 10/04/08 19:50 |
| Selenium | < .001 | mg/l | | | WG386477 | 10/04/08 19:50 |
| Silver | < .0005 | mg/l | | | WG386477 | 10/04/08 19:50 |
| Cadmium | < .0005 | mg/l | | | WG386237 | 10/04/08 17:06 |
| Chromium | < .001 | mg/l | | | WG386237 | 10/04/08 17:06 |
| Copper | < .001 | mg/l | | | WG386237 | 10/04/08 17:06 |
| Lead | < .001 | mg/l | | | WG386237 | 10/04/08 17:06 |
| Nickel | < .001 | mg/l | | | WG386237 | 10/04/08 17:06 |
| Selenium | < .001 | mg/l | | | WG386237 | 10/04/08 17:06 |
| Silver | < .0005 | mg/l | | | WG386237 | 10/04/08 17:06 |
| Potassium | < .5 | mg/l | | | WG386239 | 10/05/08 14:20 |
| Sodium | < .5 | mg/l | | | WG386239 | 10/05/08 14:20 |
| Zinc | < .01 | mg/l | | | WG387241 | 10/08/08 00:32 |
| Zinc | < .01 | mg/l | | | WG387704 | 10/16/08 09:07 |

| Analyte | Units | Duplicate | | | Limit | Ref Samp | Batch |
|----------------------|-------|-----------|-----------|-------|-------|------------|----------|
| | | Result | Duplicate | RPD | | | |
| Chloride | mg/l | 0.00 | 2.20 | NA* | 20 | L367019-01 | WG385591 |
| Fluoride | mg/l | 0.00 | 0.0880 | NA* | 20 | L367019-01 | WG385591 |
| Nitrate | mg/l | 0.00 | 0.0980 | NA* | 20 | L367019-01 | WG385591 |
| Nitrite | mg/l | 0.00 | 0.0650 | NA* | 20 | L367019-01 | WG385591 |
| Sulfate | mg/l | 34.0 | 34.0 | 0.00 | 20 | L367019-01 | WG385591 |
| Nitrate | mg/l | 25.9 | 26.0 | 0.385 | 20 | L367015-01 | WG385591 |
| Mercury | mg/l | 0.00 | 0.00 | 0.00 | 20 | L367026-01 | WG385909 |
| Sulfide | mg/l | 0.00 | 0.00 | 0.00 | 20 | L367019-04 | WG386136 |
| Sulfide | mg/l | 0.00 | 0.00 | 0.00 | 20 | L366537-01 | WG386136 |
| Ammonia Nitrogen | mg/l | 0.136 | 0.00 | NA* | 20 | L367002-01 | WG386095 |
| Ammonia Nitrogen | mg/l | 0.00 | 0.00 | 0.00 | 20 | L367089-02 | WG386095 |
| Specific Conductance | umhos | 600. | 600. | 0.00 | 20 | L365922-01 | WG386137 |
| Specific Conductance | umhos | 96.4 | 96.0 | 0.416 | 20 | L367286-01 | WG386137 |

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Quality Assurance Report Level II

L367019

October 16, 2008

| Analyte | Units | Duplicate | | RPD | Limit | Ref Samp | Batch |
|----------------------------|-------|-----------|-----------|-------|-------|------------|----------|
| | | Result | Duplicate | | | | |
| pH | su | 8.80 | 8.80 | 0.00 | 20 | L367213-25 | WG386329 |
| pH | su | 8.50 | 8.50 | 0.00 | 20 | L367019-02 | WG386329 |
| Dissolved Solids | mg/l | 23.0 | 25.0 | 8.33* | 5 | L366871-01 | WG385868 |
| Dissolved Solids | mg/l | 5060 | 5000 | 1.11 | 5 | L366801-01 | WG385867 |
| pH | su | 7.30 | 6.10 | 17.9 | 20 | L367294-02 | WG386377 |
| pH | su | 6.10 | 7.30 | 17.9 | 20 | L367056-03 | WG386377 |
| Alkalinity | mg/l | 442. | 440. | 0.454 | 20 | L367026-04 | WG386465 |
| Alkalinity | mg/l | 211. | 220. | 4.18 | 20 | L365922-01 | WG386465 |
| Barium | mg/l | 0.0431 | 0.0466 | 7.80 | 20 | L367011-04 | WG386239 |
| Boron | mg/l | 0.00 | 0.0490 | NA* | 20 | L367011-04 | WG386239 |
| Calcium | mg/l | 0.720 | 0.724 | 0.554 | 20 | L367011-04 | WG386239 |
| Magnesium | mg/l | 0.623 | 0.668 | 6.97 | 20 | L367011-04 | WG386239 |
| Manganese | mg/l | 0.0169 | 0.0217 | 24.9* | 20 | L367011-04 | WG386239 |
| Molybdenum | mg/l | 0.00 | 0.0131 | NA* | 20 | L367011-04 | WG386239 |
| Barium | mg/l | 0.237 | 0.240 | 1.26 | 20 | L367026-14 | WG386334 |
| Boron | mg/l | 0.00 | 0.00 | 0.00 | 20 | L367026-14 | WG386334 |
| Calcium | mg/l | 111. | 110. | 0.905 | 20 | L367026-14 | WG386334 |
| Magnesium | mg/l | 29.8 | 30.0 | 0.669 | 20 | L367026-14 | WG386334 |
| Manganese | mg/l | 0.00 | 0.00 | 0.00 | 20 | L367026-14 | WG386334 |
| Molybdenum | mg/l | 0.0116 | 0.0105 | 9.95 | 20 | L367026-14 | WG386334 |
| Potassium | mg/l | 1.13 | 1.20 | 6.01 | 20 | L367026-14 | WG386334 |
| Sodium | mg/l | 4.86 | 4.80 | 1.24 | 20 | L367026-14 | WG386334 |
| TOC (Total Organic Carbon) | mg/l | 2.52 | 2.50 | 0.797 | 20 | L366876-01 | WG386372 |
| TOC (Total Organic Carbon) | mg/l | 4.45 | 5.10 | 13.6 | 20 | L367019-03 | WG386372 |
| Cadmium | mg/l | 0.00 | 0.00 | 0.00 | 20 | L367627-05 | WG386477 |
| Chromium | mg/l | 0.00 | 0.00 | 0.00 | 20 | L367627-05 | WG386477 |
| Copper | mg/l | 0.00327 | 0.00347 | 5.93 | 20 | L367627-05 | WG386477 |
| Lead | mg/l | 0.00 | 0.00069 | NA* | 20 | L367627-05 | WG386477 |
| Nickel | mg/l | 0.00503 | 0.00481 | 4.47 | 20 | L367627-05 | WG386477 |
| Selenium | mg/l | 0.00336 | 0.00375 | 11.0 | 20 | L367627-05 | WG386477 |
| Silver | mg/l | 0.00 | 0.00016 | NA* | 20 | L367627-05 | WG386477 |
| Cadmium | mg/l | 0.00 | 0.00 | 0.00 | 20 | L367026-02 | WG386237 |
| Chromium | mg/l | 0.00 | 0.00 | 0.00 | 20 | L367026-02 | WG386237 |
| Copper | mg/l | 0.00 | 0.00090 | NA* | 20 | L367026-02 | WG386237 |
| Lead | mg/l | 0.00 | 0.00 | 0.00 | 20 | L367026-02 | WG386237 |
| Nickel | mg/l | 0.00898 | 0.00919 | 2.31 | 20 | L367026-02 | WG386237 |
| Selenium | mg/l | 0.0331 | 0.0347 | 4.72 | 20 | L367026-02 | WG386237 |
| Silver | mg/l | 0.00 | 0.00009 | NA* | 20 | L367026-02 | WG386237 |

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Quality Assurance Report Level II L367019

October 16, 2008

| Analyte | Units | Duplicate | | RPD | Limit | Ref Samp | Batch |
|-----------|-------|-----------|-----------|------|-------|------------|----------|
| | | Result | Duplicate | | | | |
| Potassium | mg/l | 0.956 | 1.01 | 5.49 | 20 | L367011-04 | WG386239 |
| Sodium | mg/l | 4.23 | 4.03 | 4.84 | 20 | L367011-04 | WG386239 |
| Zinc | mg/l | 0.0160 | 0.0180 | 11.8 | 20 | L367749-04 | WG387241 |

| Analyte | Units | Laboratory Control Sample | | % Rec | Limit | Batch |
|------------------------|----------|---------------------------|---------|-------|-----------|----------|
| | | Known Val | Result | | | |
| Chloride | mg/l | 40 | 37.8 | 94.5 | 90-110 | WG385591 |
| Fluoride | mg/l | 8 | 7.89 | 98.6 | 90-110 | WG385591 |
| Nitrate | mg/l | 8 | 7.95 | 99.4 | 90-110 | WG385591 |
| Nitrite | mg/l | 8 | 7.91 | 98.9 | 90-110 | WG385591 |
| Sulfate | mg/l | 40 | 38.2 | 95.5 | 90-110 | WG385591 |
| Mercury | mg/l | .003 | 0.00305 | 102. | 85-115 | WG385909 |
| Sulfide | mg/l | .5 | 0.498 | 99.6 | 90-110 | WG386136 |
| Ammonia Nitrogen | mg/l | 7.5 | 7.85 | 105. | 85-115 | WG386095 |
| Specific Conductance | umhos/cm | 519 | 540. | 104. | 85-115 | WG386137 |
| pH | su | 7.88 | 7.90 | 100. | 97.19-102 | WG386329 |
| Dissolved Solids | mg/l | 8800 | 8480 | 96.3 | 85-115 | WG385868 |
| Dissolved Solids | mg/l | 8800 | 8470 | 96.2 | 85-115 | WG385867 |
| pH | su | 7.88 | 8.00 | 102. | 97.19-102 | WG386377 |
| Benzene | mg/l | .05 | 0.0382 | 76.3 | 67-126 | WG386398 |
| Ethylbenzene | mg/l | .05 | 0.0449 | 89.7 | 76-129 | WG386398 |
| Toluene | mg/l | .05 | 0.0397 | 79.5 | 72-122 | WG386398 |
| Total Xylenes | mg/l | .15 | 0.136 | 90.8 | 75-128 | WG386398 |
| 4-Bromofluorobenzene | | | | 103.6 | 75-128 | WG386398 |
| Dibromofluoromethane | | | | 95.98 | 79-125 | WG386398 |
| Toluene-d8 | | | | 102.4 | 87-114 | WG386398 |
| a,a,a-Trifluorotoluene | | | | 103.5 | 84-114 | WG386398 |
| Alkalinity | mg/l | 40 | 41.4 | 104. | 85-115 | WG386465 |
| Barium | mg/l | 1.13 | 1.15 | 102. | 85-115 | WG386239 |
| Boron | mg/l | 1.13 | 1.10 | 97.3 | 85-115 | WG386239 |
| Calcium | mg/l | 11.3 | 11.4 | 101. | 85-115 | WG386239 |
| Magnesium | mg/l | 11.3 | 11.3 | 100. | 85-115 | WG386239 |
| Manganese | mg/l | 1.13 | 1.15 | 102. | 85-115 | WG386239 |

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Quality Assurance Report Level II

L367019

October 16, 2008

| Analyte | Laboratory Control | | Sample | % Rec | Limit | Batch |
|----------------------------|--------------------|-----------|--------|-------|--------|----------|
| | Units | Known Val | Result | | | |
| Molybdenum | mg/l | 1.13 | 1.17 | 104. | 85-115 | WG386239 |
| Barium | mg/l | 1.13 | 1.14 | 101. | 85-115 | WG386334 |
| Boron | mg/l | 1.13 | 1.03 | 91.2 | 85-115 | WG386334 |
| Calcium | mg/l | 11.3 | 11.1 | 98.2 | 85-115 | WG386334 |
| Magnesium | mg/l | 11.3 | 11.5 | 102. | 85-115 | WG386334 |
| Manganese | mg/l | 1.13 | 1.12 | 99.1 | 85-115 | WG386334 |
| Molybdenum | mg/l | 1.13 | 1.14 | 101. | 85-115 | WG386334 |
| Potassium | mg/l | 11.3 | 11.2 | 99.1 | 85-115 | WG386334 |
| Sodium | mg/l | 11.3 | 11.3 | 100. | 85-115 | WG386334 |
| TOC (Total Organic Carbon) | mg/l | 75 | 76.0 | 101. | 85-115 | WG386372 |
| Cadmium | mg/l | .0567 | 0.0501 | 88.4 | 85-115 | WG386477 |
| Chromium | mg/l | .0567 | 0.0512 | 90.3 | 85-115 | WG386477 |
| Copper | mg/l | .0567 | 0.0531 | 93.7 | 85-115 | WG386477 |
| Lead | mg/l | .0567 | 0.0503 | 88.7 | 85-115 | WG386477 |
| Nickel | mg/l | .0567 | 0.0520 | 91.7 | 85-115 | WG386477 |
| Selenium | mg/l | .0567 | 0.0487 | 85.9 | 85-115 | WG386477 |
| Silver | mg/l | .0567 | 0.0508 | 89.6 | 85-115 | WG386477 |
| Cadmium | mg/l | .0567 | 0.0502 | 88.5 | 85-115 | WG386237 |
| Chromium | mg/l | .0567 | 0.0509 | 89.8 | 85-115 | WG386237 |
| Copper | mg/l | .0567 | 0.0517 | 91.2 | 85-115 | WG386237 |
| Lead | mg/l | .0567 | 0.0503 | 88.7 | 85-115 | WG386237 |
| Nickel | mg/l | .0567 | 0.0518 | 91.4 | 85-115 | WG386237 |
| Selenium | mg/l | .0567 | 0.0485 | 85.5 | 85-115 | WG386237 |
| Silver | mg/l | .0567 | 0.0512 | 90.3 | 85-115 | WG386237 |
| Potassium | mg/l | 11.3 | 10.6 | 93.8 | 85-115 | WG386239 |
| Sodium | mg/l | 11.3 | 11.2 | 99.1 | 85-115 | WG386239 |
| Zinc | mg/l | .0567 | 0.0546 | 96.3 | 85-115 | WG387241 |
| Zinc | mg/l | .0567 | 0.0515 | 90.8 | 85-115 | WG387704 |

| Analyte | Laboratory Control | | Sample | Duplicate | Limit | RPD | Limit | Batch |
|------------------|--------------------|--------|--------|-----------|--------|-------|-------|----------|
| | Units | Result | Ref | %Rec | | | | |
| Chloride | mg/l | 38.0 | 37.8 | 95.0 | 90-110 | 0.528 | 20 | WG385591 |
| Fluoride | mg/l | 7.98 | 7.89 | 100. | 90-110 | 1.13 | 20 | WG385591 |
| Nitrate | mg/l | 7.95 | 7.95 | 99.0 | 90-110 | 0.00 | 20 | WG385591 |
| Nitrite | mg/l | 7.92 | 7.91 | 99.0 | 90-110 | 0.126 | 20 | WG385591 |
| Sulfate | mg/l | 38.7 | 38.2 | 97.0 | 90-110 | 1.30 | 20 | WG385591 |
| Sulfide | mg/l | 0.489 | 0.498 | 98.0 | 90-110 | 1.82 | 20 | WG386136 |
| Ammonia Nitrogen | mg/l | 7.80 | 7.85 | 104. | 85-115 | 0.639 | 20 | WG386095 |

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Quality Assurance Report Level II

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| Analyte | Laboratory Control Sample Duplicate | | | | RPD | Limit | Batch |
|----------------------------|-------------------------------------|--------|-------|-------|---------|-------|----------|
| | Units | Result | Ref | %Rec | | | |
| Specific Conductance | umhos | 540. | 540. | 104. | 85-115 | 0.00 | WG386137 |
| Specific Conductance | umhos | 540. | 540. | 104. | 85-115 | 0.00 | WG386137 |
| pH | su | 7.90 | 7.90 | 100. | 97.19-1 | 0.00 | WG386329 |
| Dissolved Solids | mg/l | 8480 | 8480 | 96.0 | 85-115 | 0.00 | WG385868 |
| Dissolved Solids | mg/l | 8490 | 8470 | 96.0 | 85-115 | 0.236 | WG385867 |
| pH | su | 8.00 | 8.00 | 102. | 97.19-1 | 0.00 | WG386377 |
| Benzene | mg/l | 0.037 | 0.038 | 76.0 | 67-126 | 0.858 | WG386398 |
| Ethylbenzene | mg/l | 0.045 | 0.044 | 90.0 | 76-129 | 0.317 | WG386398 |
| Toluene | mg/l | 0.039 | 0.039 | 79.0 | 72-122 | 0.016 | WG386398 |
| Total Xylenes | mg/l | 0.135 | 0.136 | 90.0 | 75-128 | 0.604 | WG386398 |
| 4-Bromofluorobenzene | | | | 101.0 | 75-128 | | WG386398 |
| Dibromofluoromethane | | | | 94.45 | 79-125 | | WG386398 |
| Toluene-d8 | | | | 102.2 | 87-114 | | WG386398 |
| a,a,a-Trifluorotoluene | | | | 105.0 | 84-114 | | WG386398 |
| Alkalinity | mg/l | 42.4 | 41.4 | 106. | 85-115 | 2.39 | WG386465 |
| TOC (Total Organic Carbon) | mg/l | 75.6 | 76.0 | 101. | 85-115 | 0.475 | WG386372 |

| Analyte | Units | Matrix Spike | | | | % Rec | Limit | Ref Samp | Batch |
|----------------------|-------|--------------|---------|------|-------|--------|------------|----------|-------|
| | | MS Res | Ref Res | TV | | | | | |
| Chloride | mg/l | 68.3 | 16.0 | 50 | 105. | 80-120 | L367019-03 | WG385591 | |
| Fluoride | mg/l | 4.71 | 0.110 | 5 | 92.0 | 80-120 | L367019-03 | WG385591 | |
| Nitrate | mg/l | 5.05 | 0.140 | 5 | 98.2 | 80-120 | L367019-03 | WG385591 | |
| Nitrite | mg/l | 4.94 | 0.069 | 5 | 97.4 | 80-120 | L367019-03 | WG385591 | |
| Sulfate | mg/l | 116. | 66.0 | 50 | 100. | 80-120 | L367019-03 | WG385591 | |
| Mercury | mg/l | 0.002 | 0.00 | .003 | 86.0 | 70-130 | L367026-01 | WG385909 | |
| Sulfide | mg/l | 0.941 | 0.00 | 1 | 94.1 | 90-110 | L367356-01 | WG386136 | |
| Ammonia Nitrogen | mg/l | 5.18 | 0.00 | 5 | 104. | 80-120 | L366911-03 | WG386095 | |
| Benzene | mg/l | 0.038 | 0.00 | .05 | 76.0 | 16-158 | L366984-03 | WG386398 | |
| Ethylbenzene | mg/l | 0.045 | 0.00 | .05 | 90.3 | 29-150 | L366984-03 | WG386398 | |
| Toluene | mg/l | 0.039 | 0.00 | .05 | 79.6 | 22-152 | L366984-03 | WG386398 | |
| Total Xylenes | mg/l | 0.136 | 0.00 | .15 | 90.9 | 27-151 | L366984-03 | WG386398 | |
| 4-Bromofluorobenzene | | | | | 102.6 | 75-128 | | WG386398 | |
| Dibromofluoromethane | | | | | 95.83 | 79-125 | | WG386398 | |
| Toluene-d8 | | | | | 102.4 | 87-114 | | WG386398 | |

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| Analyte | Units | Matrix Spike | | | | % Rec | Limit | Ref Samp | Batch |
|----------------------------|-------|--------------|-----|-------|------|-------|--------|------------|----------|
| | | MS | Res | Ref | Res | | | | |
| a,a,a-Trifluorotoluene | | | | | | 104.6 | 84-114 | | |
| Alkalinity | mg/l | 388. | | 180. | | 200 | 104. | L365922-02 | WG386465 |
| Barium | mg/l | 1.19 | | 0.046 | 1.13 | 101. | 75-125 | L367011-04 | WG386239 |
| Boron | mg/l | 1.20 | | 0.049 | 1.13 | 102. | 75-125 | L367011-04 | WG386239 |
| Calcium | mg/l | 11.7 | | 0.724 | 11.3 | 97.1 | 75-125 | L367011-04 | WG386239 |
| Magnesium | mg/l | 11.8 | | 0.668 | 11.3 | 98.5 | 75-125 | L367011-04 | WG386239 |
| Manganese | mg/l | 1.14 | | 0.021 | 1.13 | 99.0 | 75-125 | L367011-04 | WG386239 |
| Molybdenum | mg/l | 1.15 | | 0.013 | 1.13 | 101. | 75-125 | L367011-04 | WG386239 |
| Barium | mg/l | 1.36 | | 0.240 | 1.13 | 99.1 | 75-125 | L367026-14 | WG386334 |
| Boron | mg/l | 1.12 | | 0.00 | 1.13 | 99.1 | 75-125 | L367026-14 | WG386334 |
| Calcium | mg/l | 121. | | 110. | 11.3 | 97.3 | 75-125 | L367026-14 | WG386334 |
| Magnesium | mg/l | 40.7 | | 30.0 | 11.3 | 94.7 | 75-125 | L367026-14 | WG386334 |
| Manganese | mg/l | 1.13 | | 0.00 | 1.13 | 100. | 75-125 | L367026-14 | WG386334 |
| Molybdenum | mg/l | 1.15 | | 0.010 | 1.13 | 101. | 75-125 | L367026-14 | WG386334 |
| Potassium | mg/l | 11.9 | | 1.20 | 11.3 | 94.7 | 75-125 | L367026-14 | WG386334 |
| Sodium | mg/l | 15.9 | | 4.80 | 11.3 | 98.2 | 75-125 | L367026-14 | WG386334 |
| TOC (Total Organic Carbon) | mg/l | 50.7 | | 2.30 | 50 | 96.8 | 80-120 | L366876-02 | WG386372 |
| Cadmium | mg/l | 0.052 | | 0.00 | .056 | 91.9 | 75-125 | L367627-05 | WG386477 |
| Chromium | mg/l | 0.051 | | 0.00 | .056 | 89.9 | 75-125 | L367627-05 | WG386477 |
| Copper | mg/l | 0.053 | | 0.003 | .056 | 88.1 | 75-125 | L367627-05 | WG386477 |
| Lead | mg/l | 0.050 | | 0.000 | .056 | 87.0 | 75-125 | L367627-05 | WG386477 |
| Nickel | mg/l | 0.055 | | 0.004 | .056 | 89.9 | 75-125 | L367627-05 | WG386477 |
| Selenium | mg/l | 0.051 | | 0.003 | .056 | 84.0 | 75-125 | L367627-05 | WG386477 |
| Silver | mg/l | 0.047 | | 0.000 | .056 | 83.1 | 75-125 | L367627-05 | WG386477 |
| Cadmium | mg/l | 0.054 | | 0.00 | .056 | 96.5 | 75-125 | L367026-02 | WG386237 |
| Chromium | mg/l | 0.052 | | 0.00 | .056 | 93.1 | 75-125 | L367026-02 | WG386237 |
| Copper | mg/l | 0.053 | | 0.000 | .056 | 92.2 | 75-125 | L367026-02 | WG386237 |
| Lead | mg/l | 0.051 | | 0.00 | .056 | 90.7 | 75-125 | L367026-02 | WG386237 |
| Nickel | mg/l | 0.062 | | 0.009 | .056 | 93.3 | 75-125 | L367026-02 | WG386237 |
| Selenium | mg/l | 0.085 | | 0.034 | .056 | 88.9 | 75-125 | L367026-02 | WG386237 |
| Silver | mg/l | 0.052 | | 0.000 | .056 | 91.9 | 75-125 | L367026-02 | WG386237 |
| Potassium | mg/l | 11.1 | | 1.01 | 11.3 | 89.3 | 75-125 | L367011-04 | WG386239 |
| Sodium | mg/l | 14.9 | | 4.03 | 11.3 | 96.2 | 75-125 | L367011-04 | WG386239 |
| Zinc | mg/l | 0.071 | | 0.018 | .056 | 94.0 | 75-125 | L367749-04 | WG387241 |

| Analyte | Units | Matrix Spike Duplicate | | | | RPD | Limit | Ref Samp | Batch |
|----------|-------|------------------------|------|------|--------|------|-------|------------|----------|
| | | MSD | Ref | %Rec | Limit | | | | |
| Chloride | mg/l | 67.7 | 68.3 | 103. | 80-120 | 0.88 | 20 | L367019-03 | WG385591 |
| Fluoride | mg/l | 4.89 | 4.71 | 95.6 | 80-120 | 3.75 | 20 | L367019-03 | WG385591 |
| Nitrate | mg/l | 5.11 | 5.05 | 99.4 | 80-120 | 1.18 | 20 | L367019-03 | WG385591 |
| Nitrite | mg/l | 4.95 | 4.94 | 97.6 | 80-120 | 0.20 | 20 | L367019-03 | WG385591 |
| Sulfate | mg/l | 117. | 116. | 102. | 80-120 | 0.85 | 20 | L367019-03 | WG385591 |

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| Analyte | Matrix Spike Duplicate | | | | Limit | RPD | Limit | Ref | Samp | Batch |
|----------------------------|------------------------|------|------|-------|--------|-------|-------|------------|----------|-------|
| | Units | MSD | Ref | %Rec | | | | | | |
| Mercury | mg/l | 0.00 | 0.00 | 91.3 | 70-130 | 6.02 | 20 | L367026-01 | WG385909 | |
| Sulfide | mg/l | 0.94 | 0.94 | 94.7 | 90-110 | 0.63 | 20 | L367356-01 | WG386136 | |
| Ammonia Nitrogen | mg/l | 3.96 | 5.18 | 79.2* | 80-120 | 26.7* | 20 | L366911-03 | WG386095 | |
| Benzene | mg/l | 0.03 | 0.03 | 72.0 | 16-158 | 5.38 | 21 | L366984-03 | WG386398 | |
| Ethylbenzene | mg/l | 0.04 | 0.04 | 86.2 | 29-150 | 4.59 | 24 | L366984-03 | WG386398 | |
| Toluene | mg/l | 0.03 | 0.03 | 74.3 | 22-152 | 6.89 | 22 | L366984-03 | WG386398 | |
| Total Xylenes | mg/l | 0.12 | 0.13 | 86.3 | 27-151 | 5.22 | 23 | L366984-03 | WG386398 | |
| 4-Bromofluorobenzene | | | | 102.2 | 75-128 | | | | WG386398 | |
| Dibromofluoromethane | | | | 95.3 | 79-125 | | | | WG386398 | |
| Toluene-d8 | | | | 101.2 | 87-114 | | | | WG386398 | |
| a,a,a-Trifluorotoluene | | | | 103.9 | 84-114 | | | | WG386398 | |
| Alkalinity | mg/l | 406. | 388. | 113. | 80-120 | 4.53 | 20 | L365922-02 | WG386465 | |
| Barium | mg/l | 1.20 | 1.19 | 102. | 75-125 | 0.83 | 20 | L367011-04 | WG386239 | |
| Boron | mg/l | 1.22 | 1.20 | 104. | 75-125 | 1.65 | 20 | L367011-04 | WG386239 | |
| Calcium | mg/l | 11.7 | 11.7 | 97.1 | 75-125 | 0.00 | 20 | L367011-04 | WG386239 | |
| Magnesium | mg/l | 11.9 | 11.8 | 99.4 | 75-125 | 0.84 | 20 | L367011-04 | WG386239 | |
| Manganese | mg/l | 1.14 | 1.14 | 99.0 | 75-125 | 0.00 | 20 | L367011-04 | WG386239 | |
| Molybdenum | mg/l | 1.17 | 1.15 | 102. | 75-125 | 1.72 | 20 | L367011-04 | WG386239 | |
| Barium | mg/l | 1.35 | 1.36 | 98.2 | 75-125 | 0.73 | 20 | L367026-14 | WG386334 | |
| Boron | mg/l | 1.12 | 1.12 | 99.1 | 75-125 | 0.00 | 20 | L367026-14 | WG386334 | |
| Calcium | mg/l | 122. | 121. | 106. | 75-125 | 0.82 | 20 | L367026-14 | WG386334 | |
| Magnesium | mg/l | 40.4 | 40.7 | 92.0 | 75-125 | 0.74 | 20 | L367026-14 | WG386334 | |
| Manganese | mg/l | 1.12 | 1.13 | 99.1 | 75-125 | 0.88 | 20 | L367026-14 | WG386334 | |
| Molybdenum | mg/l | 1.15 | 1.15 | 101. | 75-125 | 0.00 | 20 | L367026-14 | WG386334 | |
| Potassium | mg/l | 12.2 | 11.9 | 97.3 | 75-125 | 2.49 | 20 | L367026-14 | WG386334 | |
| Sodium | mg/l | 16.1 | 15.9 | 100. | 75-125 | 1.25 | 20 | L367026-14 | WG386334 | |
| TOC (Total Organic Carbon) | mg/l | 50.7 | 50.7 | 96.7 | 80-120 | 0.05 | 20 | L366876-02 | WG386372 | |
| Cadmium | mg/l | 0.05 | 0.05 | 91.4 | 75-125 | 0.57 | 20 | L367627-05 | WG386477 | |
| Chromium | mg/l | 0.05 | 0.05 | 90.8 | 75-125 | 0.97 | 20 | L367627-05 | WG386477 | |
| Copper | mg/l | 0.05 | 0.05 | 89.3 | 75-125 | 1.30 | 20 | L367627-05 | WG386477 | |
| Lead | mg/l | 0.05 | 0.05 | 87.7 | 75-125 | 0.79 | 20 | L367627-05 | WG386477 | |
| Nickel | mg/l | 0.05 | 0.05 | 89.6 | 75-125 | 0.35 | 20 | L367627-05 | WG386477 | |
| Selenium | mg/l | 0.05 | 0.05 | 85.6 | 75-125 | 1.74 | 20 | L367627-05 | WG386477 | |
| Silver | mg/l | 0.04 | 0.04 | 75.2 | 75-125 | 9.99 | 20 | L367627-05 | WG386477 | |
| Cadmium | mg/l | 0.05 | 0.05 | 96.5 | 75-125 | 0.00 | 20 | L367026-02 | WG386237 | |
| Chromium | mg/l | 0.05 | 0.05 | 91.7 | 75-125 | 1.53 | 20 | L367026-02 | WG386237 | |
| Copper | mg/l | 0.05 | 0.05 | 90.5 | 75-125 | 1.90 | 20 | L367026-02 | WG386237 | |
| Lead | mg/l | 0.05 | 0.05 | 91.4 | 75-125 | 0.77 | 20 | L367026-02 | WG386237 | |
| Nickel | mg/l | 0.06 | 0.06 | 91.7 | 75-125 | 1.46 | 20 | L367026-02 | WG386237 | |

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| Analyte | Units | Matrix Spike Duplicate | | | Limit | RPD | Limit | Ref | Samp | Batch |
|-----------|-------|------------------------|------|------|--------|------|-------|------------|----------|-------|
| | | MSD | Ref | %Rec | | | | | | |
| Selenium | mg/l | 0.08 | 0.08 | 89.9 | 75-125 | 0.70 | 20 | L367026-02 | WG386237 | |
| Silver | mg/l | 0.05 | 0.05 | 92.1 | 75-125 | 0.19 | 20 | L367026-02 | WG386237 | |
| Potassium | mg/l | 11.2 | 11.1 | 90.2 | 75-125 | 0.89 | 20 | L367011-04 | WG386239 | |
| Sodium | mg/l | 15.0 | 14.9 | 97.1 | 75-125 | 0.66 | 20 | L367011-04 | WG386239 | |
| Zinc | mg/l | 0.07 | 0.07 | 94.4 | 75-125 | 0.28 | 20 | L367749-04 | WG387241 | |

Batch number /Run number / Sample number cross reference

WG385591: R479544: L367019-01 02 03 04
WG385909: R481249: L367019-01 02 03 04
WG386136: R482327: L367019-01 02 03 04
WG386095: R482665: L367019-01 02 03 04
WG386137: R482708: L367019-01 02 03 04
WG386329: R483427: L367019-02
WG385868: R483704: L367019-03 04
WG385867: R483724: L367019-01 02
WG386377: R484224: L367019-01 03 04
WG386398: R484984: L367019-01 02 03 04
WG386465: R485124: L367019-01 02 03 04
WG386239: R487529: L367019-01
WG386334: R488287: L367019-02 03 04
WG386372: R488824: L367019-01 02 03 04
WG386477: R488868: L367019-01
WG386237: R489084: L367019-02 03 04
WG387241: R492624: L367019-01
WG387704: R503060: L367019-02 03 04

* * Calculations are performed prior to rounding of reported values .
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The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.