

December 3, 2009

Attn: Document Control Desk
Deputy Director
Decommission and Uranium Recovery Licensing Directorate
Division of Waste Management and Environmental Protection
Office of Federal and State Materials and Environmental Management Programs
US Nuclear Regulatory Commission
Washington DC 20555
Mail Stop T8F5

Deputy Director
Decommission and Uranium Recovery Licensing Directorate
Division of Waste Management and Environmental Protection
Office of Federal and State Materials and Environmental Management Programs
US Nuclear Regulatory Commission
11545 Rockville Pike
Mail Stop T8F5
Rockville, Maryland 20852-2738

**RE: Source Material License SUA-56; Western Nuclear, Inc., Split Rock Uranium Mill Tailings Facility;
Surface Water and Groundwater Monitoring Report**

Dear Deputy Director:

Please find enclosed for Nuclear Regulatory Commission review, the surface water and groundwater sampling results for the second half of 2009 for the Split Rock Uranium mill tailings facility. This monitoring was performed as required by license conditions 24 and 74.

Figure 1 shows the location of the monitor wells and the surface water sample locations. The table presents the analytical results. Figures are also included in the enclosure, which show the temporal changes in water quality for key constituents. Some of the wells have more historic data as they were part of the previous monitoring network. The remaining wells have limited historic data since they were only sampled as part of the characterization study.

As noted in the previously monitoring report, monitor well maintenance has been recently performed due to sanding up of two existing monitor wells such that they drew insufficient water to provide a valid sample volume. Monitor wells SWAB-1 and SWAB-12 were replaced by monitor wells SWAB-1R and SWAB-12R, respectively. Water quality in SWAB-12R shows similar water quality to the previous values and has concentrations that are indicative of background water quality.

Water quality data from the replacement well SWAB-1R shows higher concentrations for some constituents, notably uranium and sulfate, than previous data measured from well SWAB-1. SWAB-1 has shown elevated levels of constituents indicative of tailings seepage and is in the groundwater plume. It is thought that the higher values in SWAB-1R are a result of higher concentrations of tailings derived constituents at a slightly deeper depth in SWAB-1R than were encountered in well SWAB-1 which was completed at a more shallow depth. The characterization data previously submitted indicates that there are variations in concentrations within the contaminate plume at different depths. While the data from SWAB-1R has higher concentrations for uranium and sulfate, these values are consistent with SWAB-2 which is nearby and up-gradient. Water quality data from SWAB-2 has remained constant. The next down-gradient well, SWAB-29 shows no change in concentrations and has values that are indicative of

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Deputy Director, NRC
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background water quality. Therefore, while some of the water quality values from SWAB-1R are greater than values from SWAB-1, it is believed they are reflective of expected variations in water quality with depth and not indicative of changing site conditions.

In all cases, including the new data from the replacement wells, the data indicate that surface water and groundwater quality are within expected ranges and that the system is behaving as predicted.

If you have any questions, please contact me at your convenience.

Sincerely,

A handwritten signature in black ink that reads "Louis Miller". The signature is written in a cursive style with a long horizontal flourish extending to the right.

Louis Miller
Consulting Engineer

Enclosure

cc. Steve Hall, Stoller
Scott Surovchak, DOE
Mark Thiesse, WDEQ
Anne Thomas, WNI

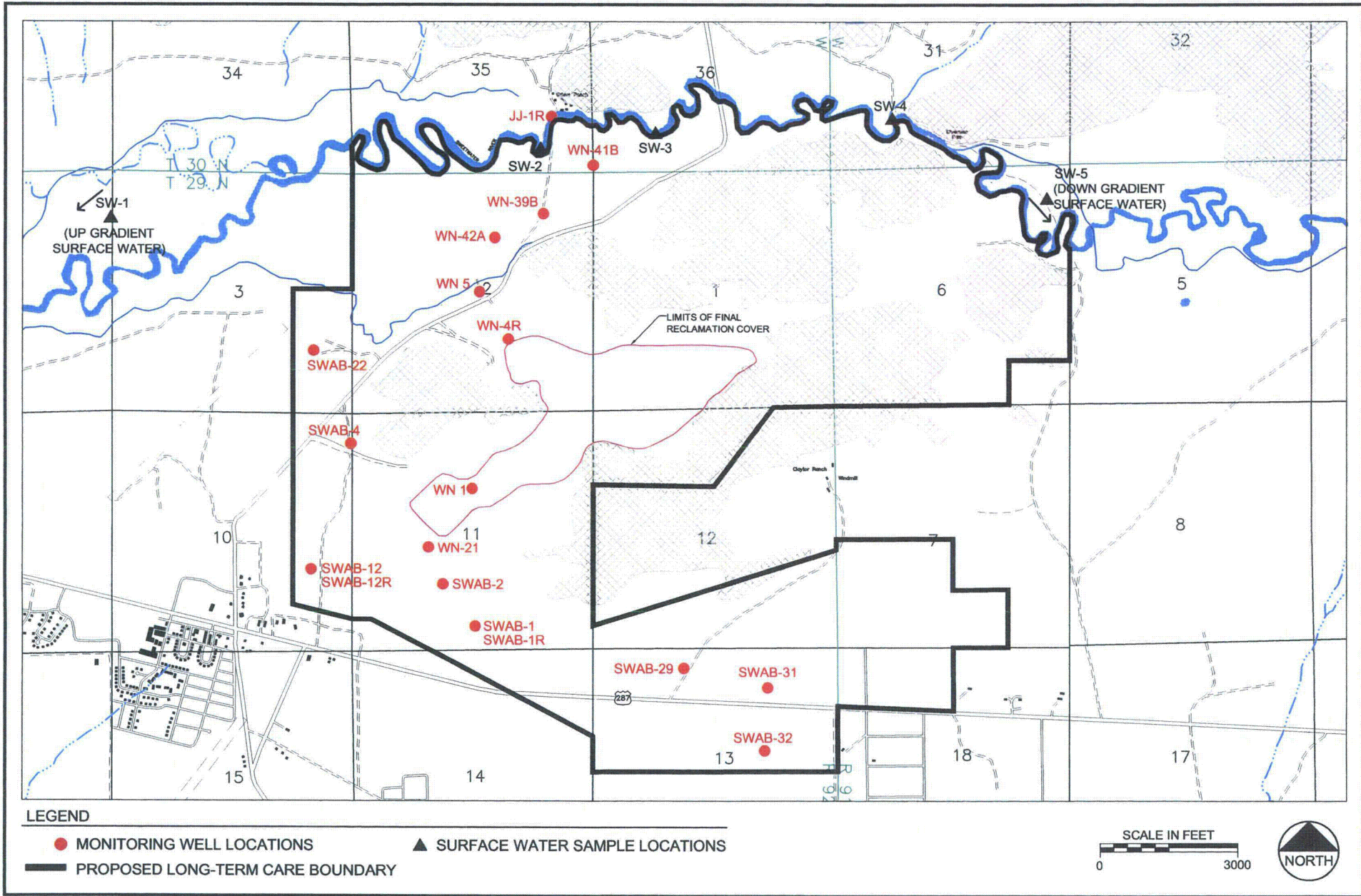



FIGURE 1
SURFACE WATER AND GROUND WATER MONITORING LOCATIONS

| | |
|----------|----------------|
| Date: | DECEMBER 2009 |
| Project: | 180888 |
| File: | SW-GW-MON-09-1 |



Semi-Annual Groundwater and Surface
Water Compliance Monitoring Results
Second Half of Year 2009

WNI Split Rock Mill Groundwater and Surface Water Semi-Annual Report

2nd Half 2009

(Sampled 9/28/09 to 9/30/09)

| Parameter ¹ | JJ-1R | SWAB-1R ³ | SWAB-2 | SWAB-12R ⁴ | SWAB-4 | SWAB-22 | SWAB-29 | SWAB-31 | SWAB-32 | WELL-1 |
|----------------------------------|---------|----------------------|---------|-----------------------|---------|---------|---------|---------|---------|--------|
| Aluminum (mg/L) | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.2 |
| Ammonia as N (mg/L) ² | <0.0002 | 0.00036 | 0.016 | 0.0005 | 0.015 | 0.002 | 0.0005 | <0.0011 | <0.001 | 0.046 |
| Antimony (mg/L) | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 |
| Arsenic (mg/L) | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Beryllium (mg/L) | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 |
| Cadmium (mg/L) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.004 |
| Chloride (mg/L) | 13 | 34 | 39 | 15 | 34 | 14 | 6 | 8 | 11 | 35 |
| Conductivity Field (µS/cm) | 740 | 3670 | 5360 | 683 | 1830 | 689 | 510 | 418 | 512 | 4690 |
| Fluoride (mg/L) | 0.5 | 0.1 | 0.4 | 0.2 | 0.3 | 0.4 | 0.2 | 0.3 | 0.4 | 1.1 |
| Lead (mg/L) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Manganese (mg/L) | 0.1 | <0.05 | 4.11 | <0.05 | 0.24 | 0.13 | 0.09 | <0.05 | <0.05 | 21.2 |
| Molybdenum (mg/L) | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Nickel (mg/L) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.11 |
| Nitrate + Nitrite as N (mg/L) | <0.2 | 123 | 330 | 0.5 | 32.2 | <0.2 | <0.2 | 1.5 | 1.4 | 64.4 |
| pH Field (std units) | 6.95 | 6.95 | 6.49 | 7.31 | 7.11 | 7.1 | 6.82 | 7.67 | 7.63 | 5.88 |
| pH Lab (std units) | 7.48 | 7.53 | 7.27 | 7.87 | 7.51 | 7.53 | 7.32 | 8.04 | 7.86 | 6.5 |
| Radium-226 (pCi/L) | <0.1 | <-0.02 | <-0.04 | <0.1 | 0.59 | <0.006 | 0.11 | 0.17 | <0.08 | 0.58 |
| Radium-228 (pCi/L) | 1.6 | <0.5 | <1 | <0.6 | 2.6 | <0.08 | <0.1 | <0.9 | <0.1 | 2.2 |
| Selenium (mg/L) | <0.005 | <0.005 | 0.006 | <0.005 | 0.008 | <0.005 | <0.005 | 0.01 | 0.01 | 0.017 |
| Sulfate (mg/L) | 44 | 1200 | 1470 | 77 | 486 | 35 | 38 | 27 | 47 | 2150 |
| TDS (mg/L) | 333 | 2520 | 4110 | 310 | 1160 | 299 | 289 | 228 | 290 | 3060 |
| Temperature Field (C) | 12.9 | 13.2 | 19.6 | 12.3 | 18.9 | 14.1 | 12.6 | 11.7 | 11.9 | 11.1 |
| Thallium (mg/L) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.016 |
| Thorium-230 (pCi/L) | <-0.005 | <0.05 | <0.1 | <0.05 | <0.08 | <0.02 | <0.1 | <0.04 | <0.02 | <0.02 |
| Uranium (mg/L) | 0.009 | 2.46 | 1.32 | 0.032 | 1.01 | 0.013 | 0.021 | 0.03 | 0.122 | 1.79 |
| Water Level (ft) | NA | 6296.27 | 6293.82 | 6299.34 | 6291.77 | 6288.38 | 6278.8 | 6271.55 | 6273.52 | 6295.3 |

Notes:

- (1) All metals are dissolved analyte concentrations
 - (2) NH3-N is the free ammonia concentration, calculated from the laboratory reported total ammonia concentration and field measured pH, consistent with the method used to determine the ACL for ammonia
 - (3) Well SWAB-1R installed as replacement for SWAB-1. Water Elevation taken at SWAB-1
 - (4) Well SWAB-12R installed as replacement for SWAB-12. Water Elevation taken at SWAB-12
- < indicates analyte result less than Laboratory Reporting Limit

WNI Split Rock Mill Groundwater and Surface Water Semi-Annual Report

2nd Half 2009

(Sampled 9/28/09 to 9/30/09)

| Parameter ¹ | WELL-4R | WELL-5 | WN-21 | WN-39B | WN-41B | WN-42A | SW-1 | SW-2 | SW-3 | SW-4 | SW-5 |
|----------------------------------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|--------|
| Aluminum (mg/L) | 1.8 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Ammonia as N (mg/L) ² | 0.13 | 0.0063 | 0.023 | <0.0008 | <0.002 | <0.0008 | <0.0035 | <0.002 | <0.0013 | <0.0024 | <0.003 |
| Antimony (mg/L) | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 |
| Arsenic (mg/L) | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Beryllium (mg/L) | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 |
| Cadmium (mg/L) | 0.024 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Chloride (mg/L) | 108 | 101 | 9 | 23 | 419 | 42 | 8 | 8 | 10 | 11 | 11 |
| Conductivity Field (µS/cm) | 8190 | 4640 | 734 | 1030 | 2860 | 4910 | 430 | 435 | 447 | 469 | 487 |
| Fluoride (mg/L) | 6 | <0.1 | 0.2 | 0.2 | 1.2 | <0.1 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| Lead (mg/L) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Manganese (mg/L) | 90.9 | 0.48 | 0.28 | <0.05 | <0.05 | 0.16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Molybdenum (mg/L) | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Nickel (mg/L) | 0.53 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Nitrate + Nitrite as N (mg/L) | 264 | 72.3 | 3.2 | 7 | <0.2 | 41 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| pH Field (std units) | 6.01 | 6.68 | 7.35 | 7.5 | 7.92 | 6.75 | 8.18 | 7.91 | 7.74 | 8.01 | 8.1 |
| pH Lab (std units) | 6.26 | 6.89 | 7.75 | 7.77 | 8.12 | 7.09 | 8.25 | 8.27 | 8.26 | 8.34 | 8.4 |
| Radium-226 (pCi/L) | <-0.1 | <-0.2 | <-0.2 | <-0.2 | <-0.04 | <-0.2 | <-0.1 | <-0.1 | <-0.1 | <-0.1 | <-0.08 |
| Radium-228 (pCi/L) | <1.2 | <1.2 | <0.2 | <0.6 | <0.4 | <0.7 | <0.5 | <0.8 | <0.5 | <-0.3 | <0.08 |
| Selenium (mg/L) | 0.032 | 0.018 | <0.005 | <0.005 | <0.005 | 0.03 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Sulfate (mg/L) | 3160 | 1710 | 80 | 164 | 389 | 1880 | 32 | 32 | 34 | 36 | 37 |
| TDS (mg/L) | 4730 | 3480 | 322 | 530 | 1390 | 3980 | 190 | 188 | 213 | 229 | 214 |
| Temperature Field (C) | 10.6 | 10.2 | 11.5 | 9.2 | 8.7 | 9.6 | 10.4 | 10.3 | 10.3 | 10.7 | 10.9 |
| Thallium (mg/L) | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Thorium-230 (pCi/L) | <0.004 | <0.05 | <0.04 | <0.001 | <0.03 | <0.2 | <0.03 | <0.1 | <0.02 | <0.04 | <-0.06 |
| Uranium (mg/L) | 0.276 | 1.79 | 0.07 | 0.284 | 0.01 | 1.1 | 0.003 | 0.003 | 0.004 | 0.006 | 0.005 |
| Water Level (ft) | 6286.28 | 6280.92 | 6295.92 | 6272.87 | 6271.17 | 6275.85 | | | | | |

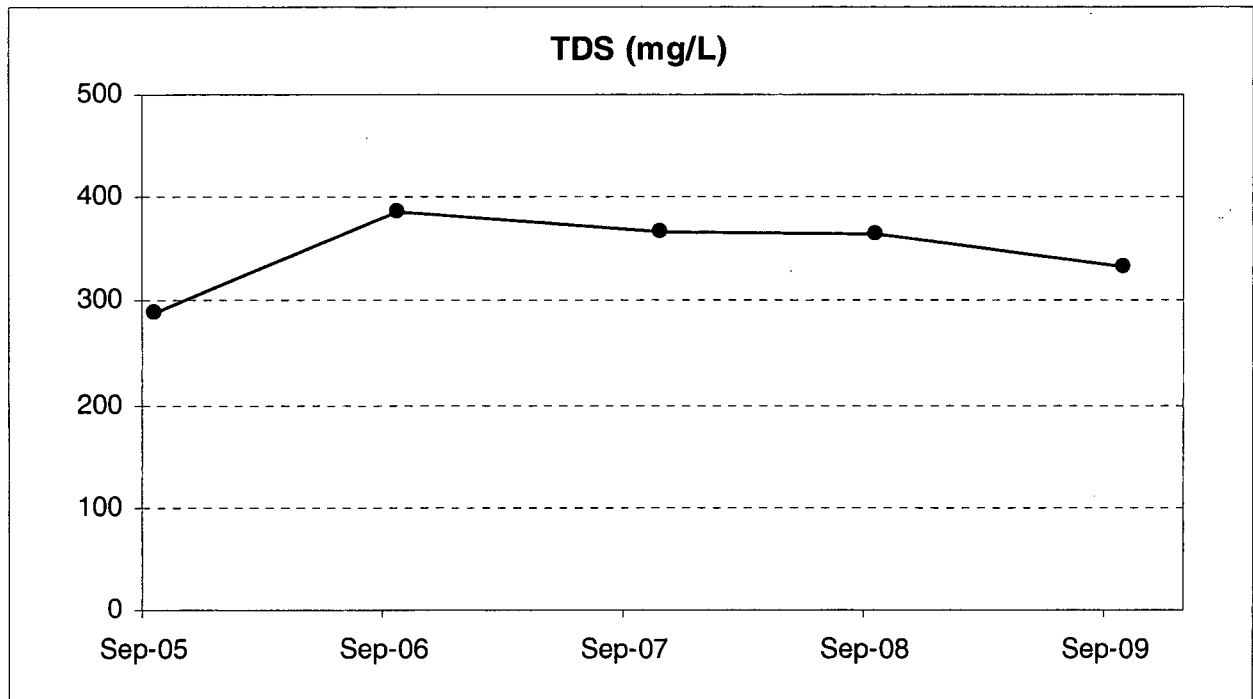
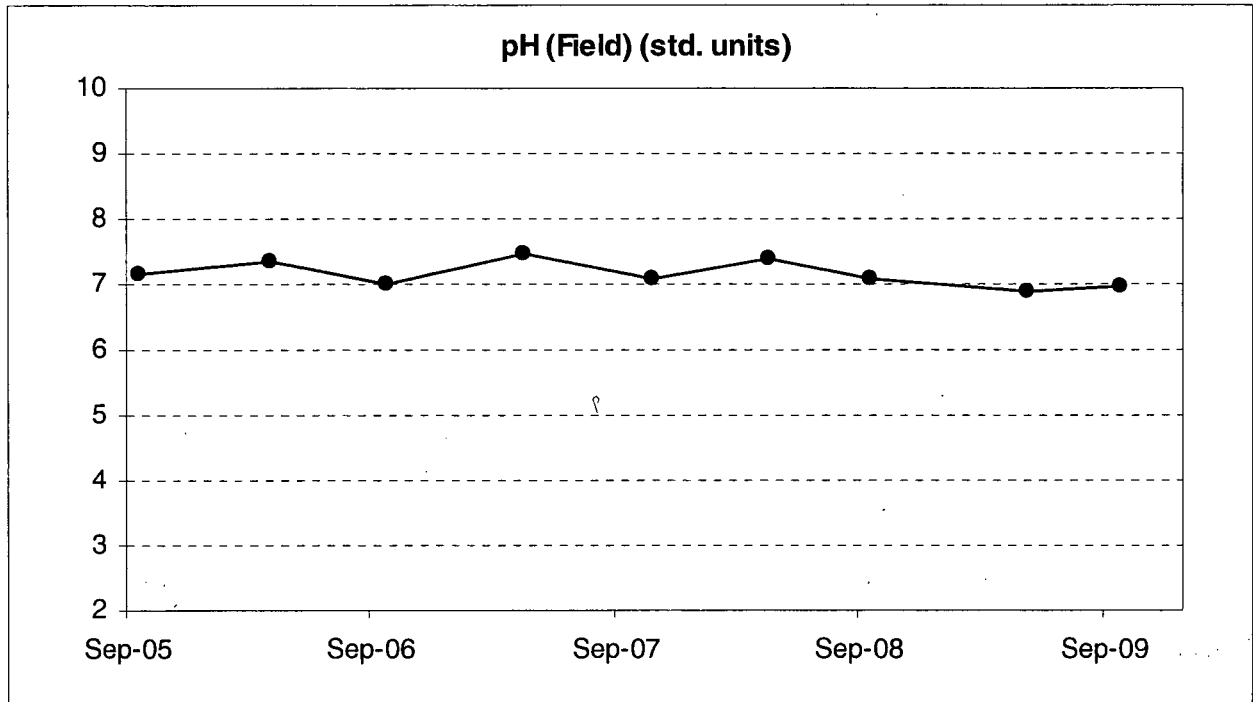
Notes:

- (1) All metals are dissolved analyte concentrations
 - (2) NH3-N is the free ammonia concentration, calculated from the laboratory reported total ammonia concentration and field measured pH, consistent with the method used to determine the ACL for ammonia
 - (3) Well SWAB-1R installed as replacement for SWAB-1. Water Elevation taken at SWAB-1
 - (4) Well SWAB-12R installed as replacement for SWAB-12. Water Elevation taken at SWAB-12
- < indicates analyte result less than Laboratory Reporting Limit

GROUNDWATER

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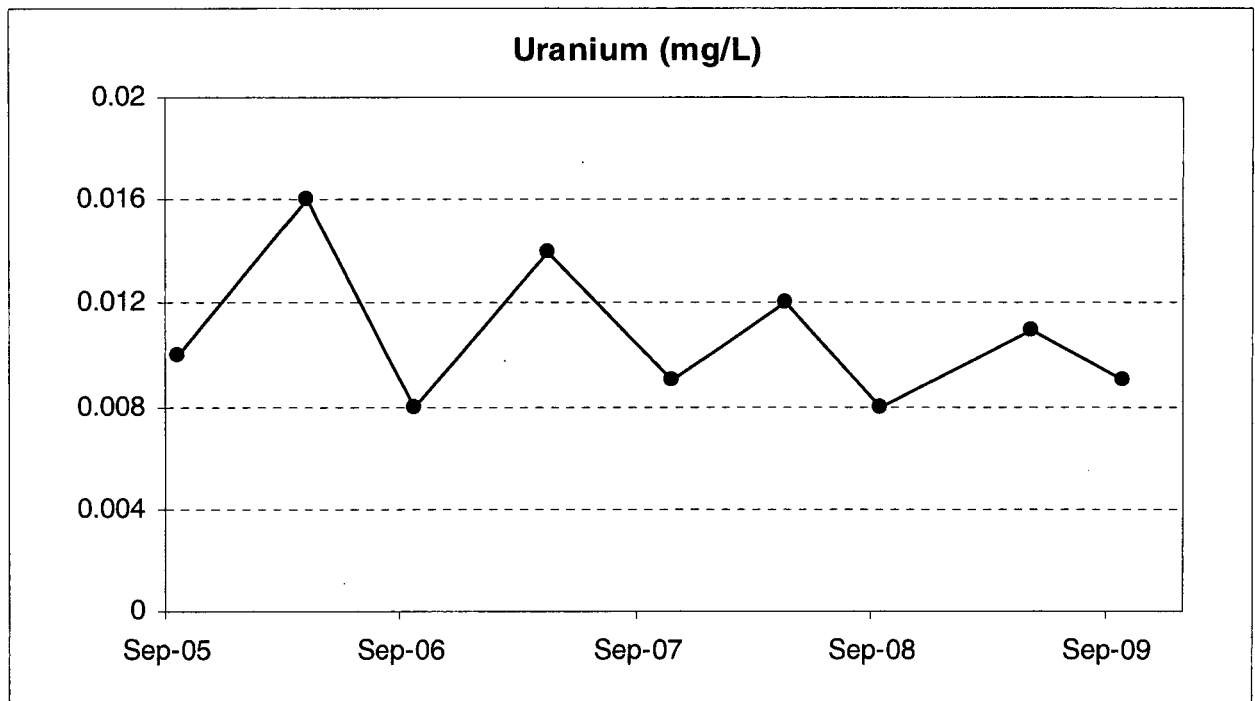
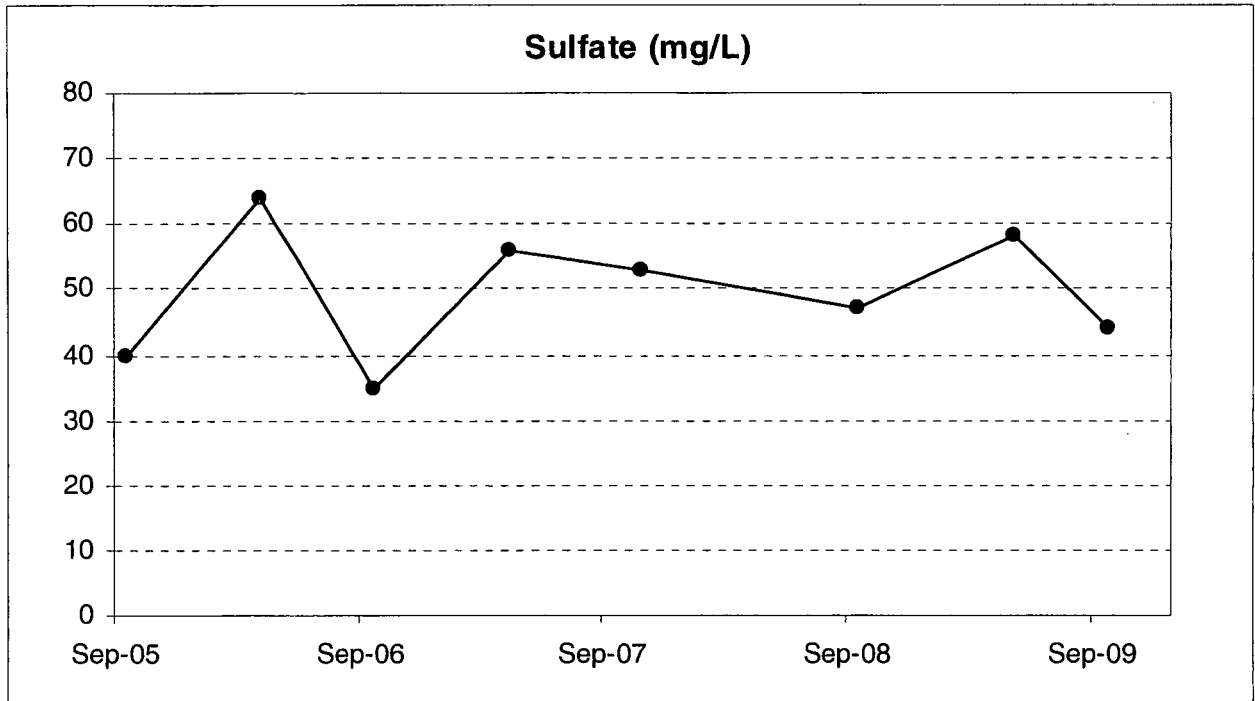
JJ-1R



Open symbols indicate value below detection limit

Jeffrey City

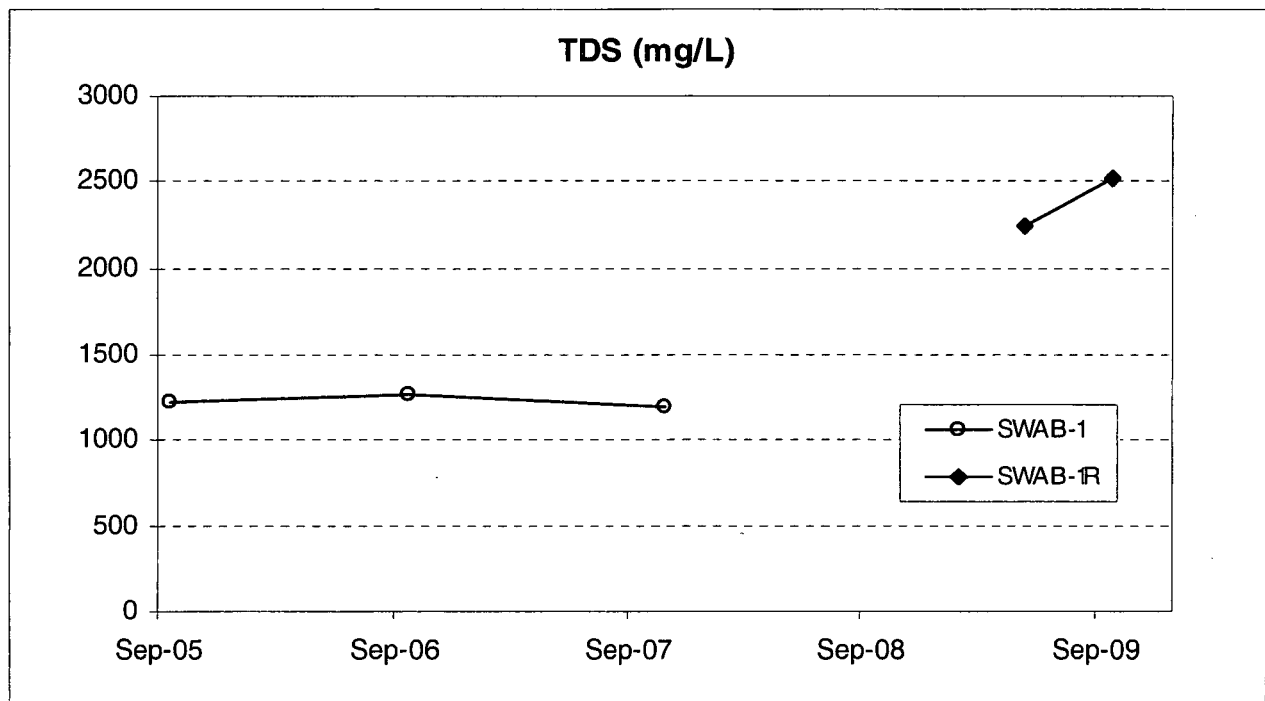
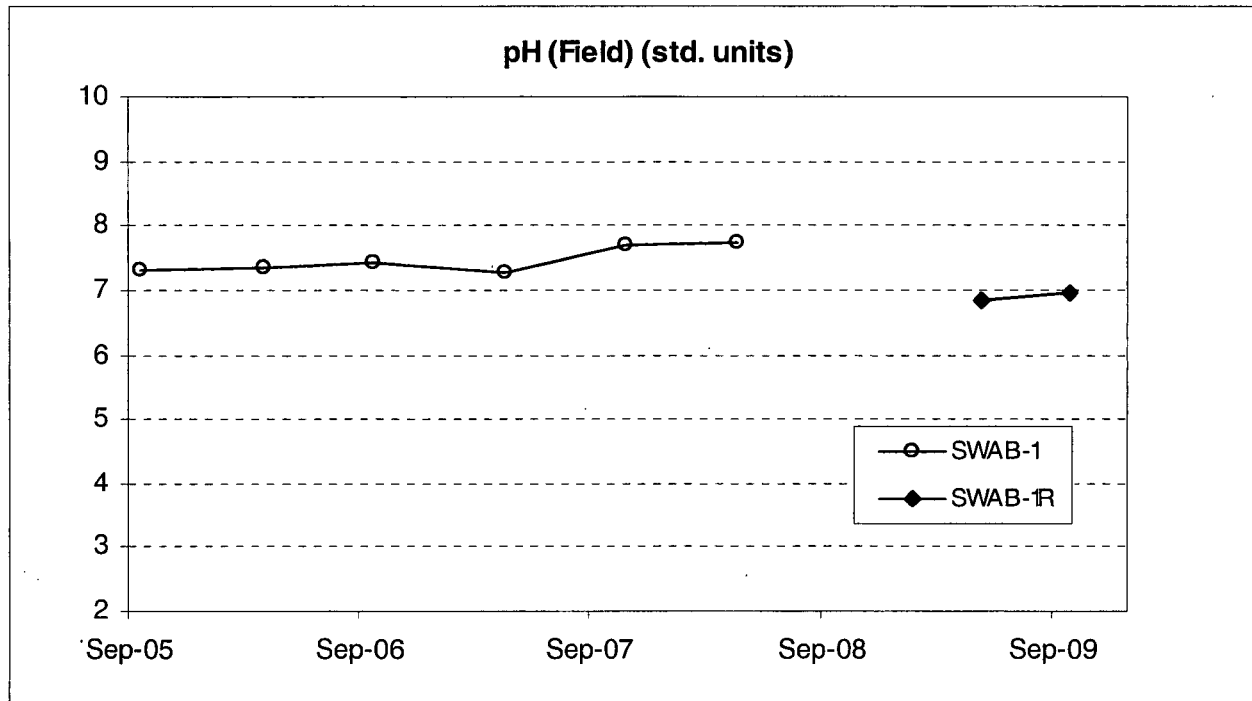
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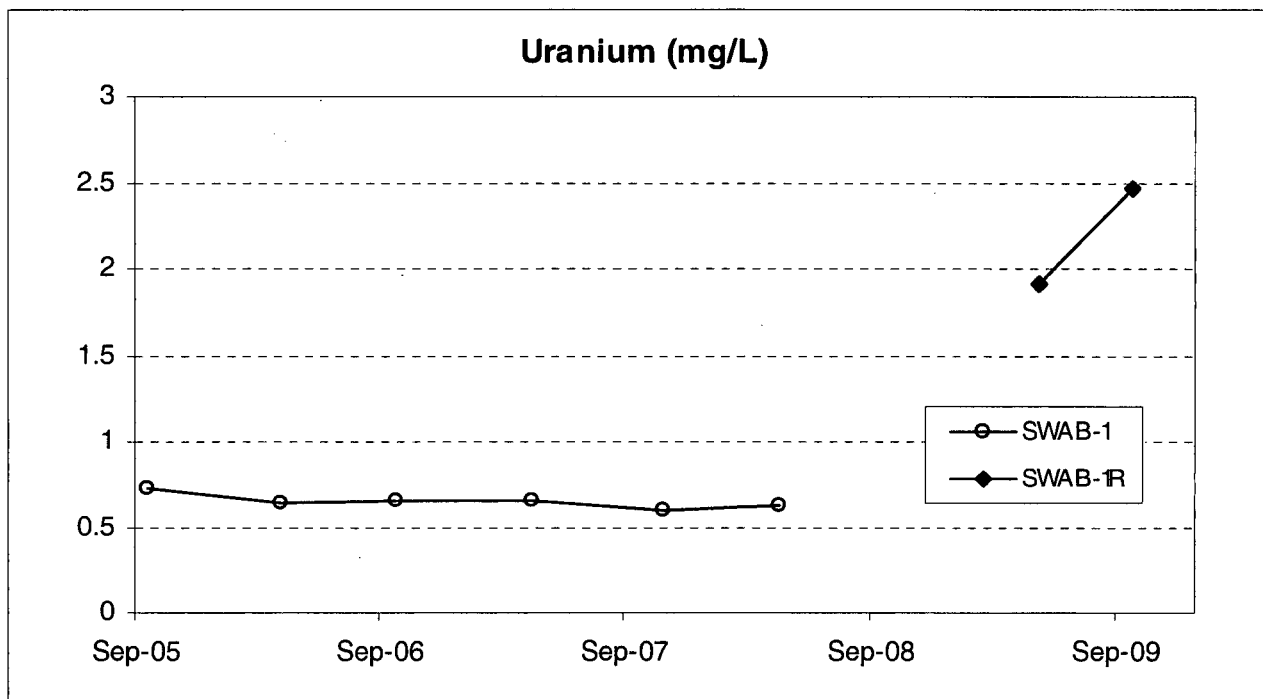
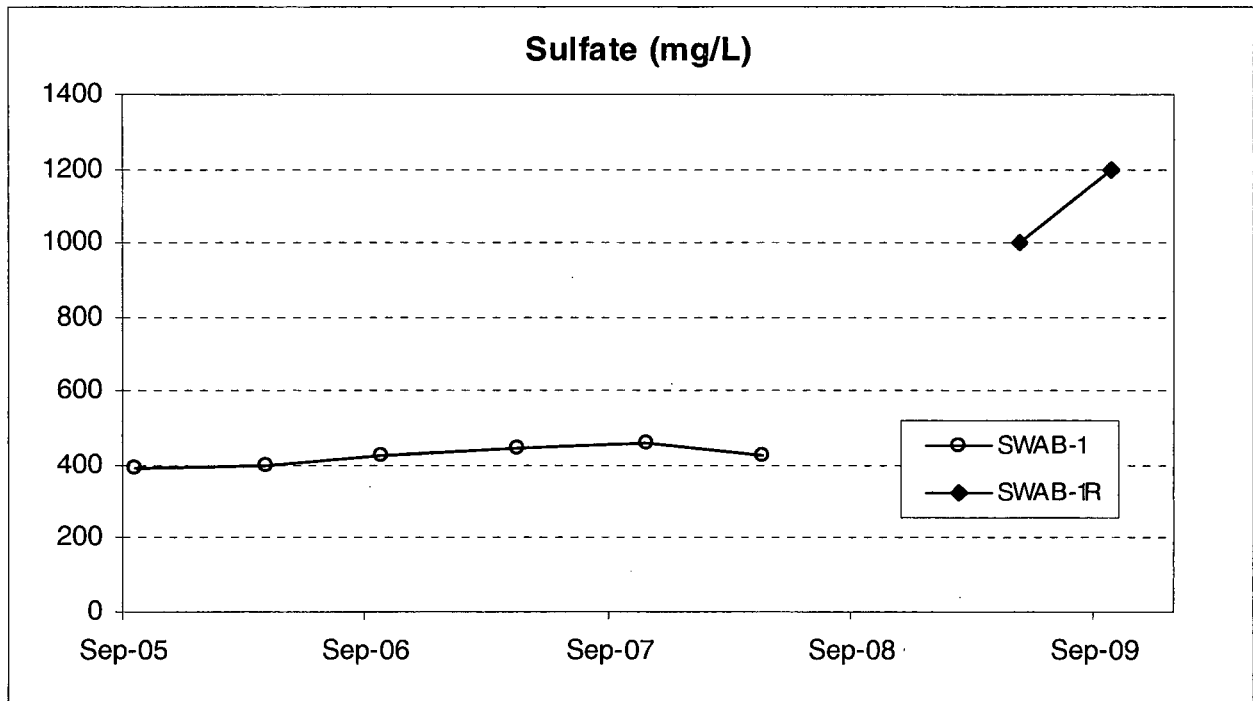
SWAB-1 and 1R



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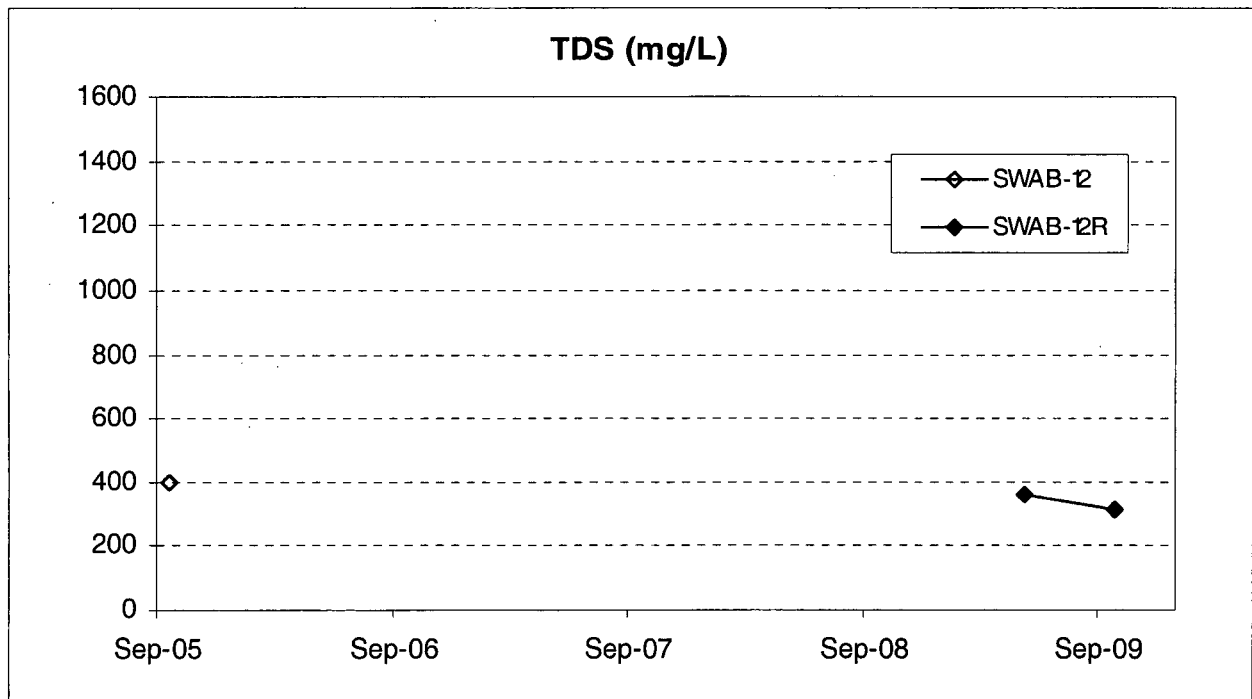
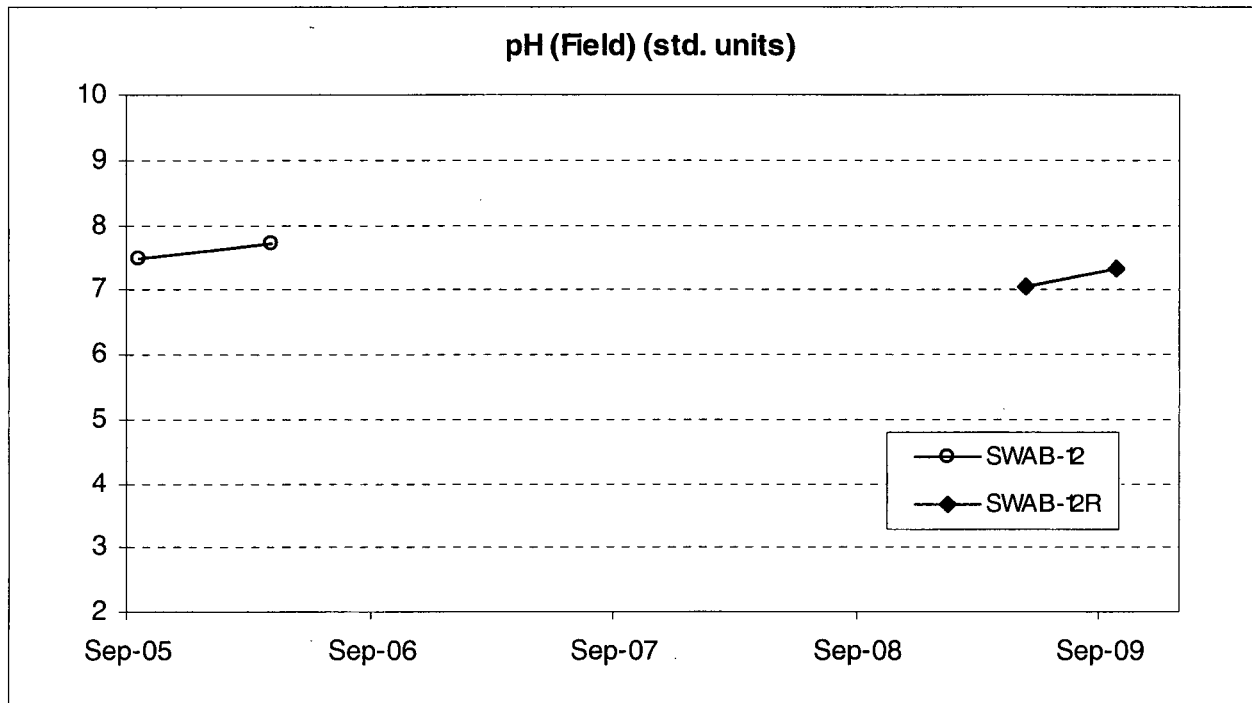
SWAB-1 and 1R



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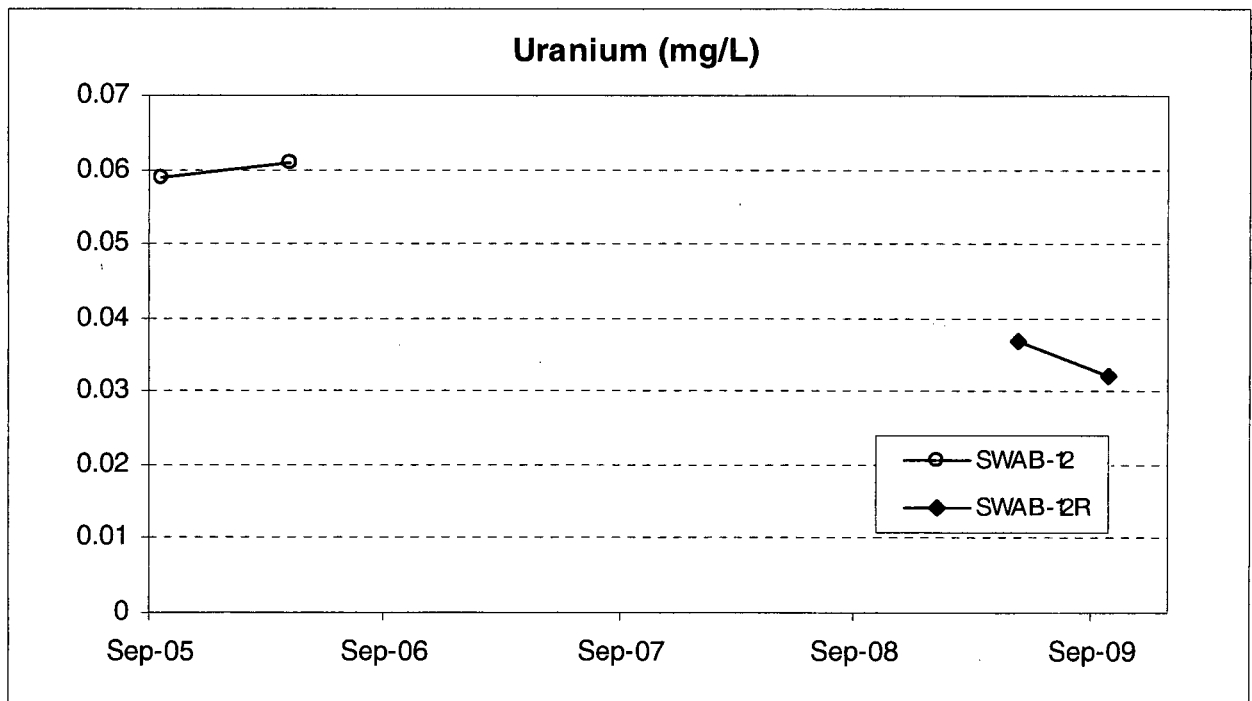
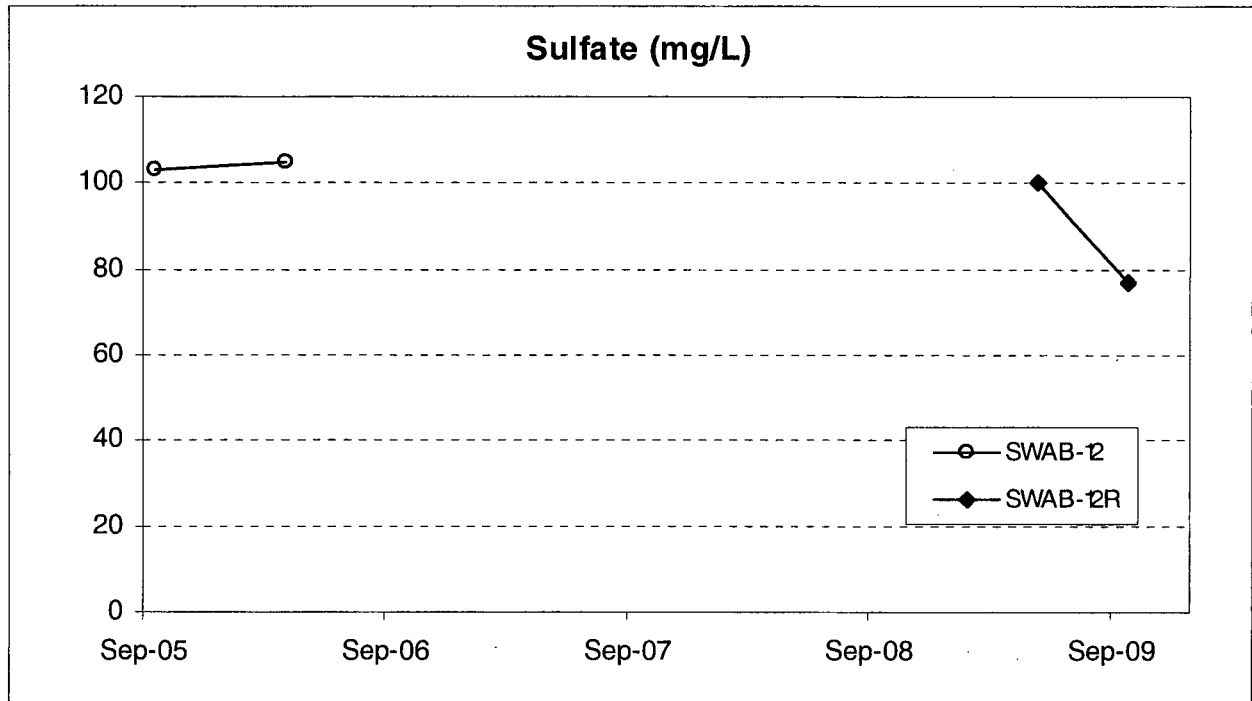
SWAB-12 and 12R



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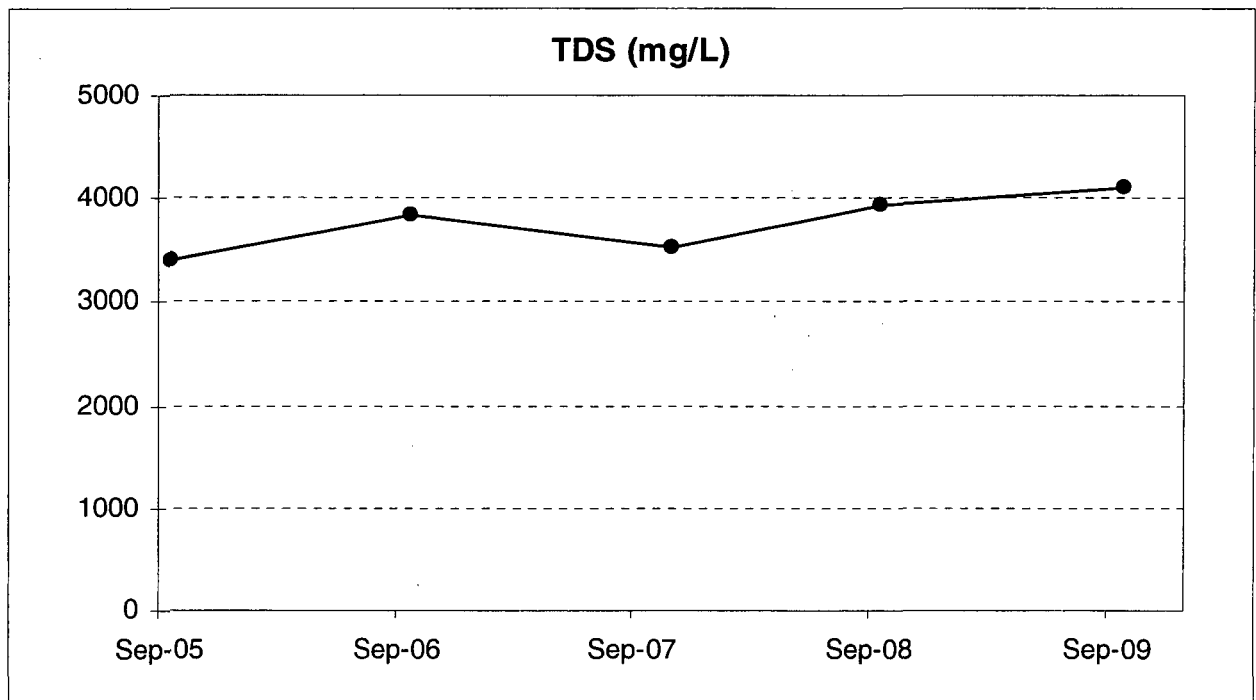
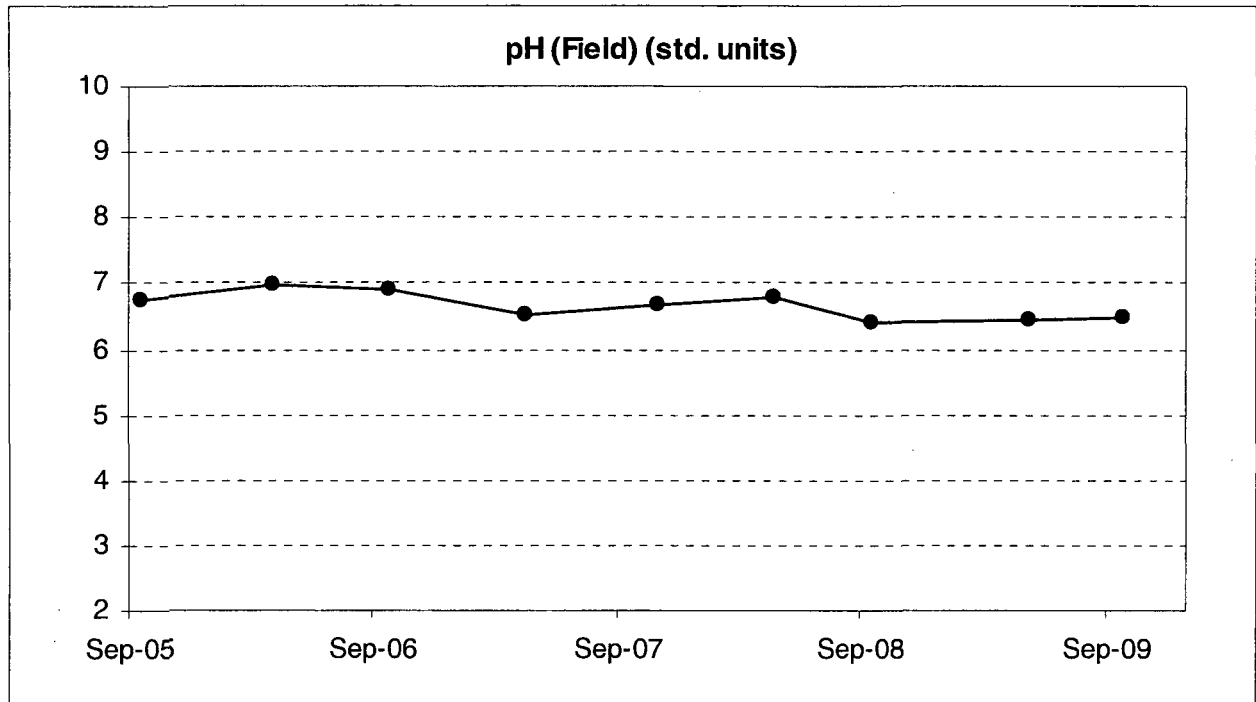
SWAB-12 and 12R



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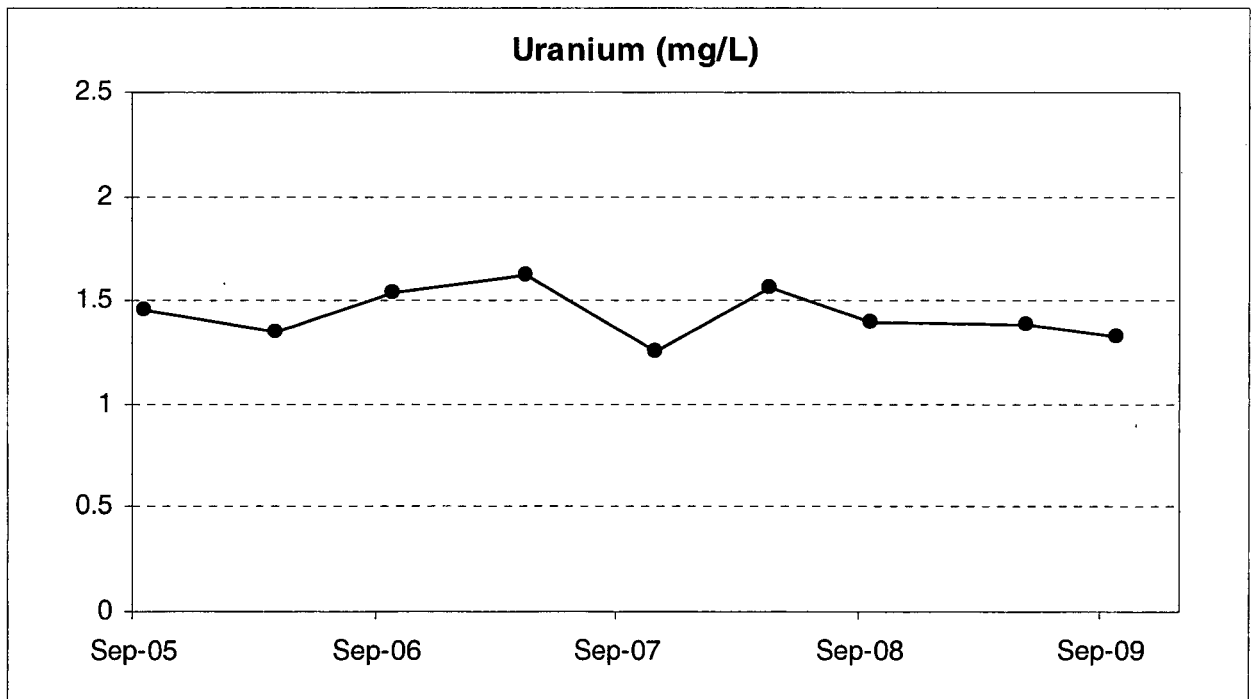
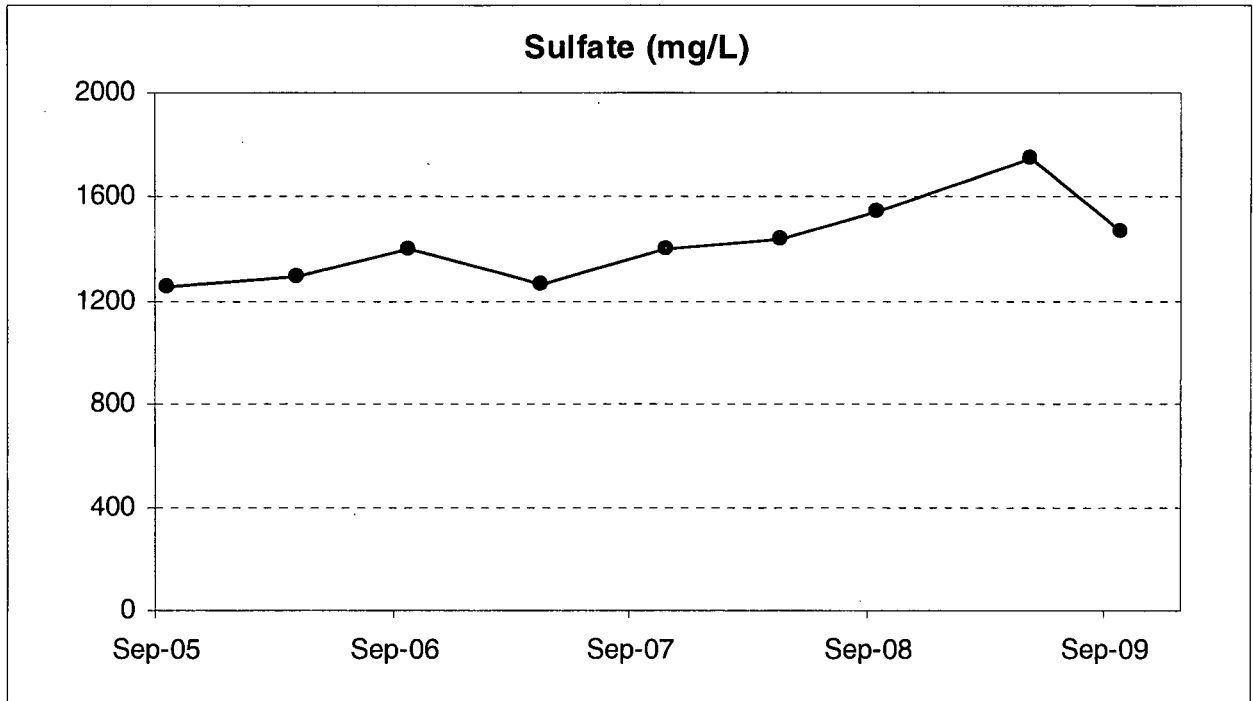
SWAB-2



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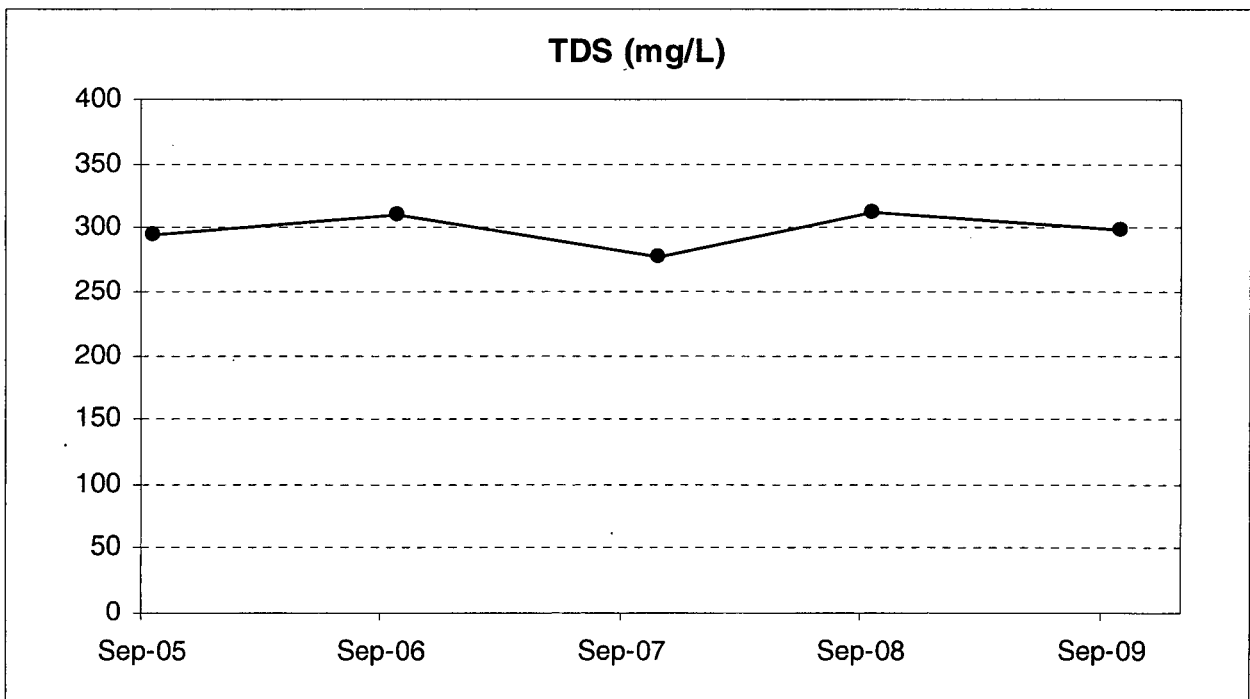
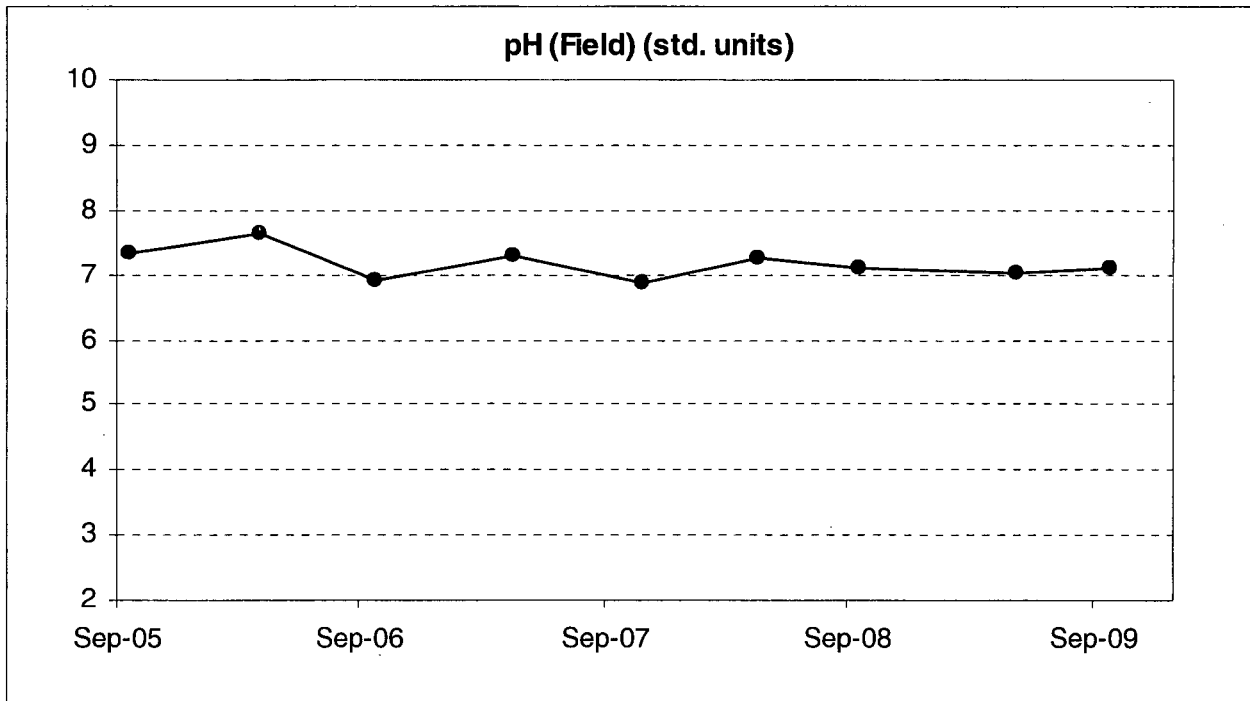
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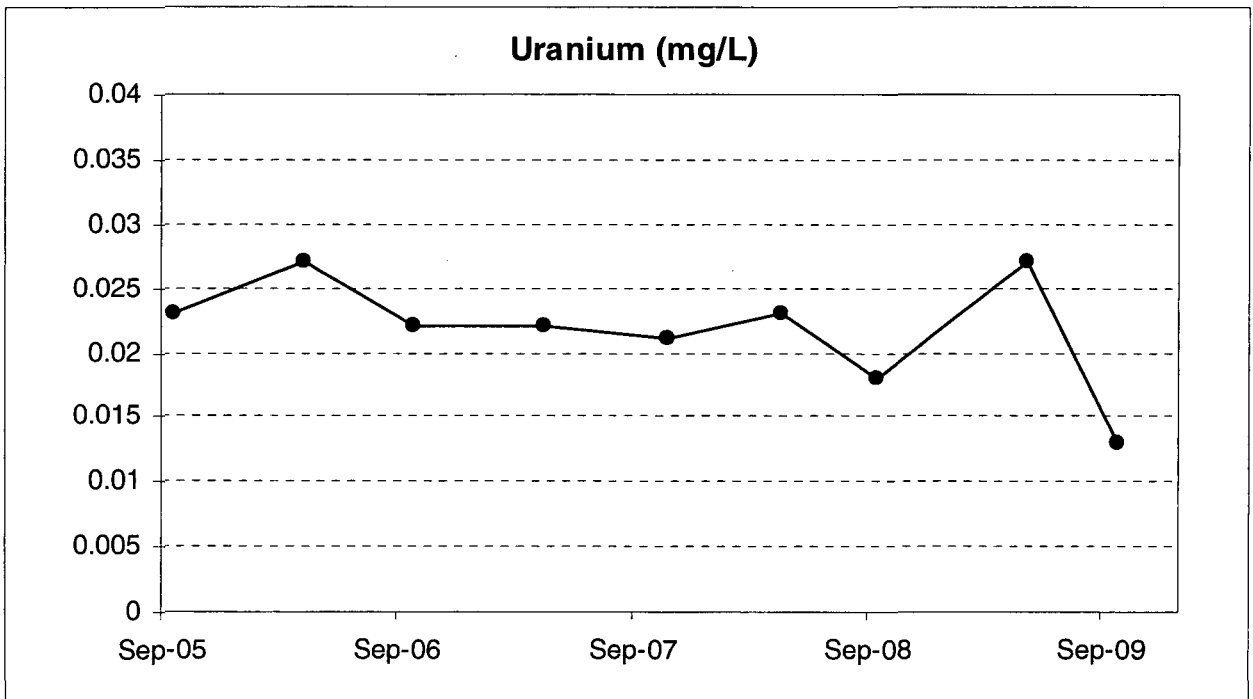
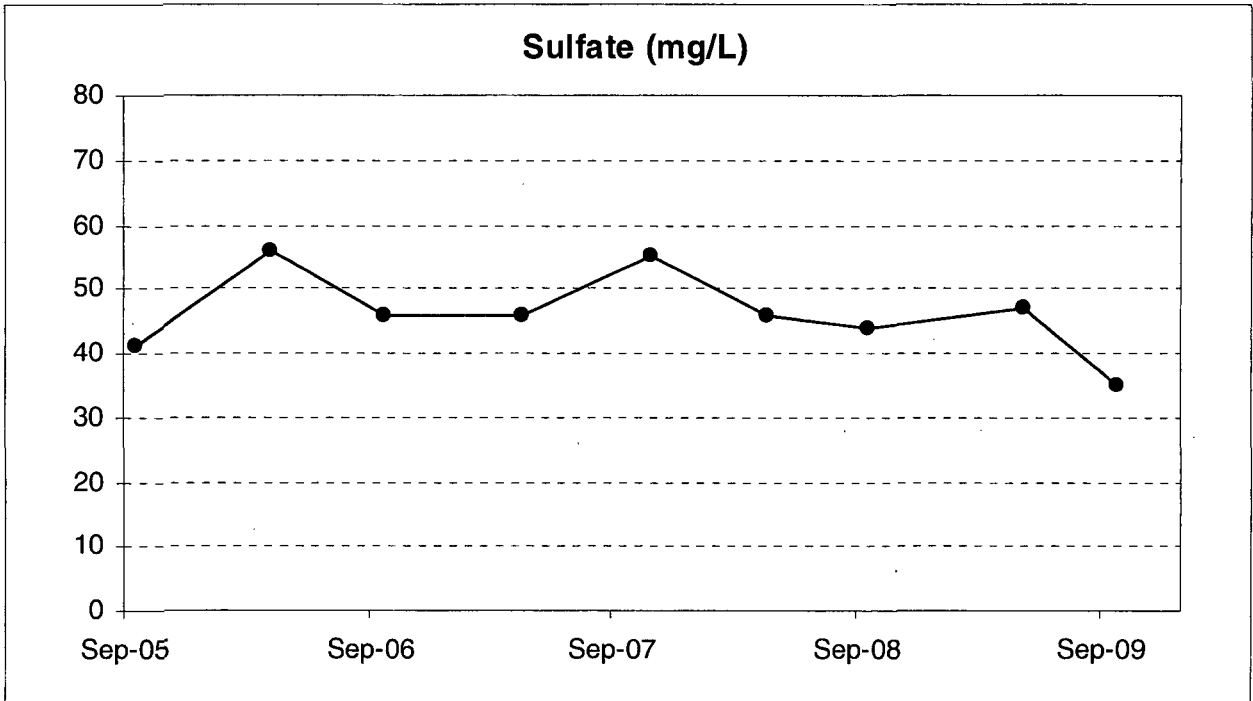
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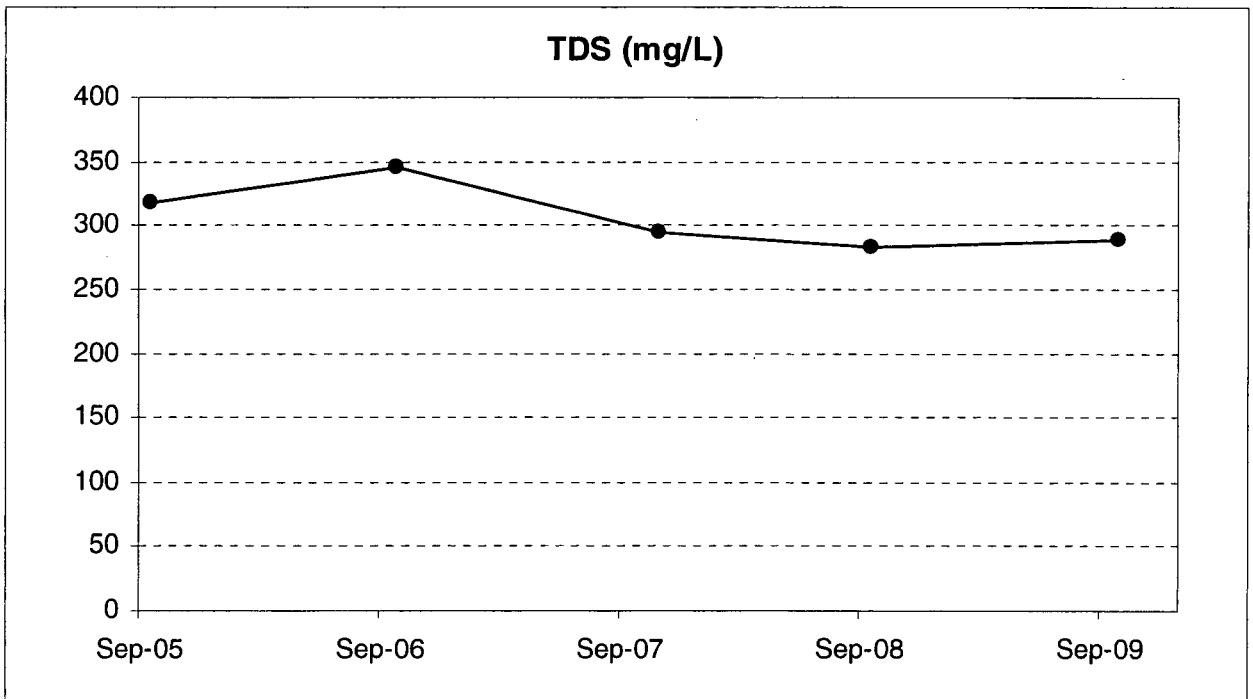
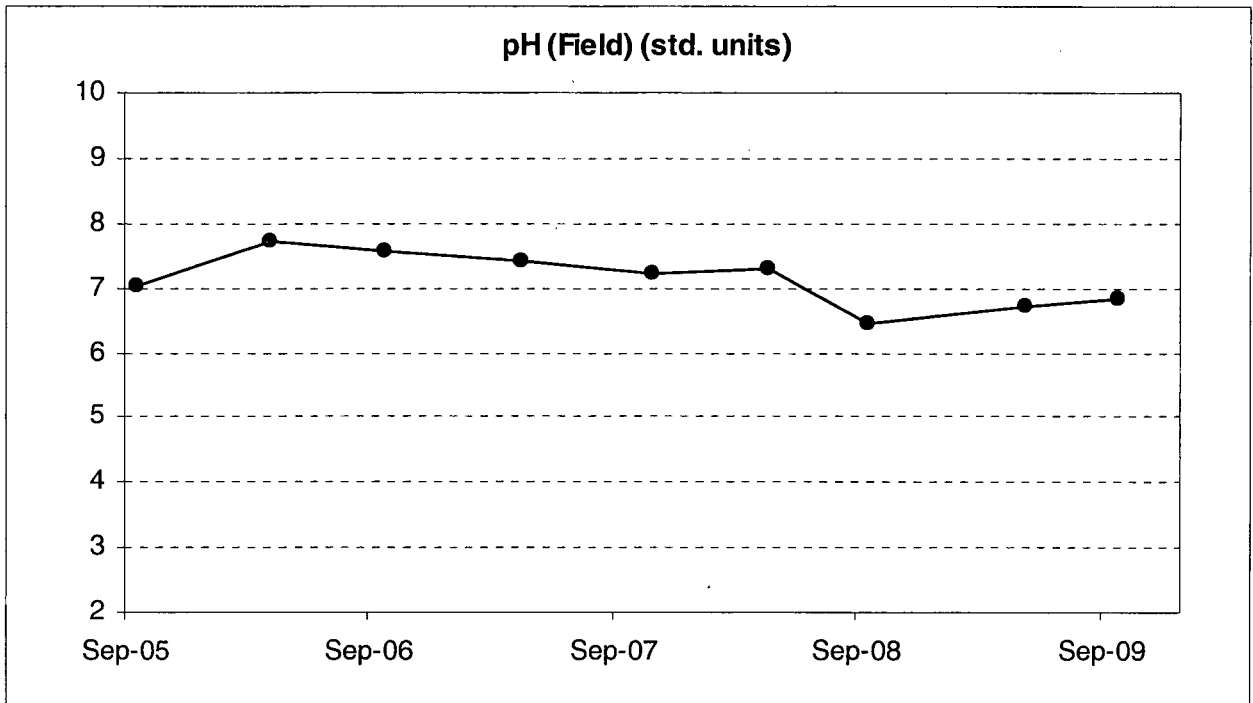
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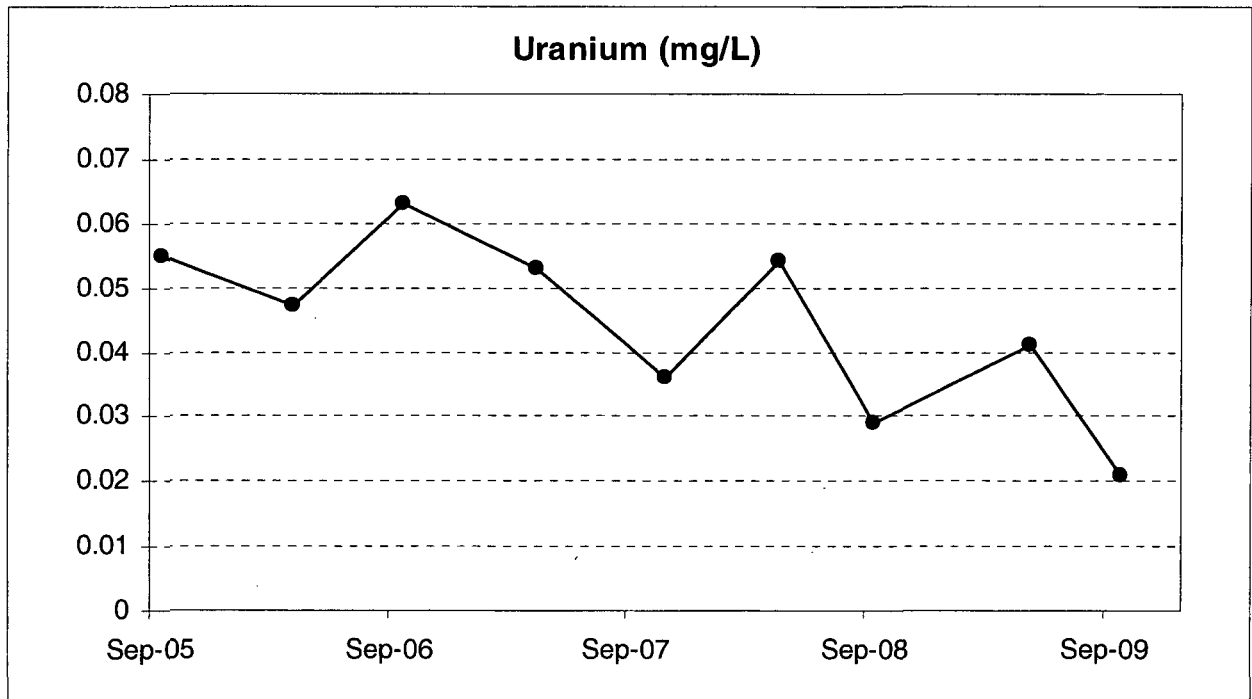
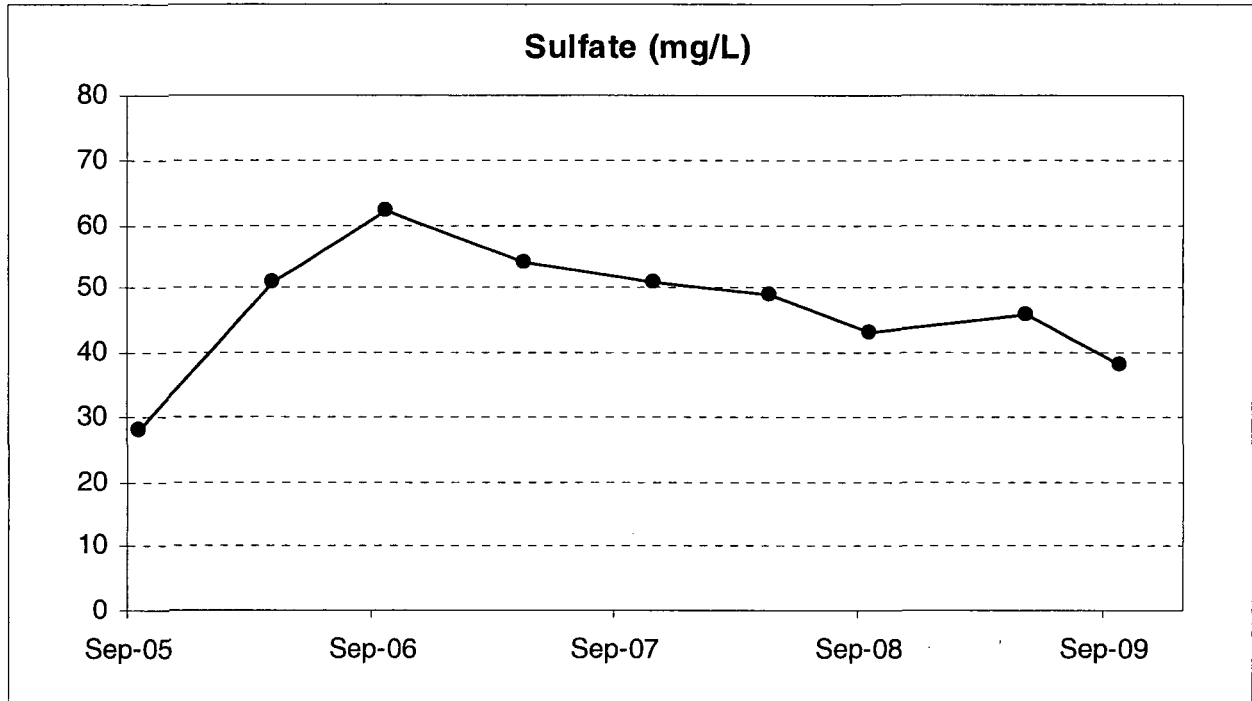
SWAB-29



Open symbols indicate value below detection limit

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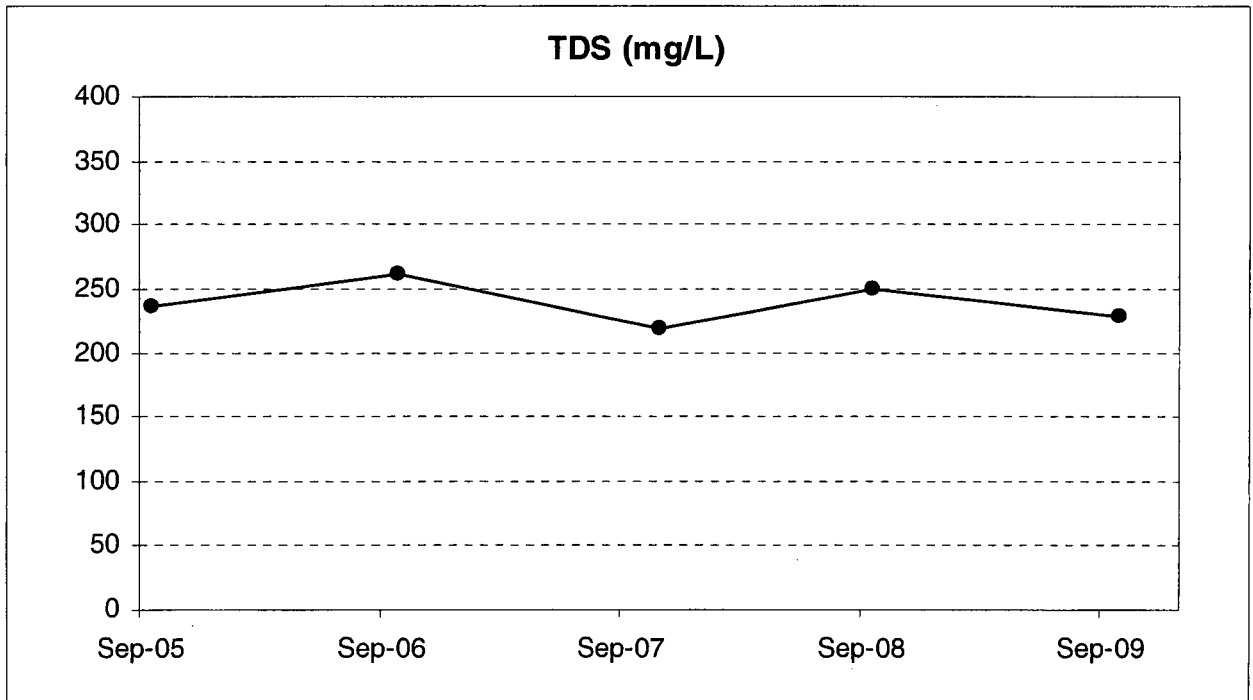
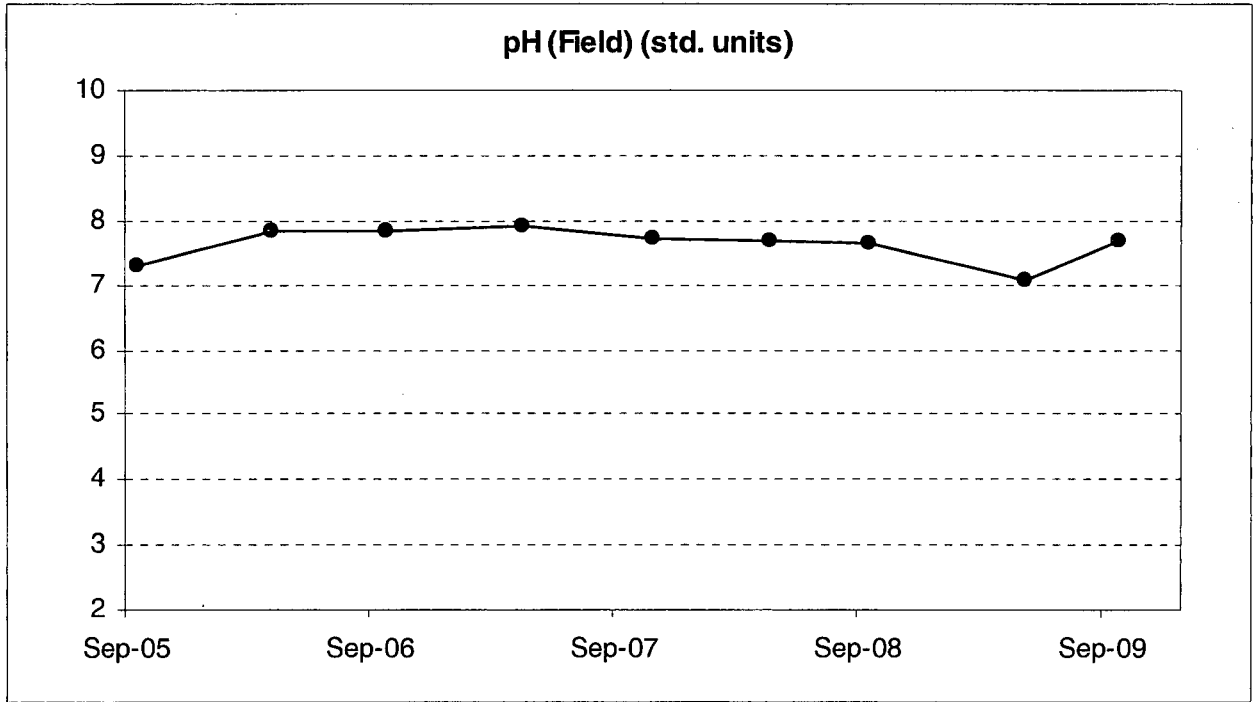
SWAB-29



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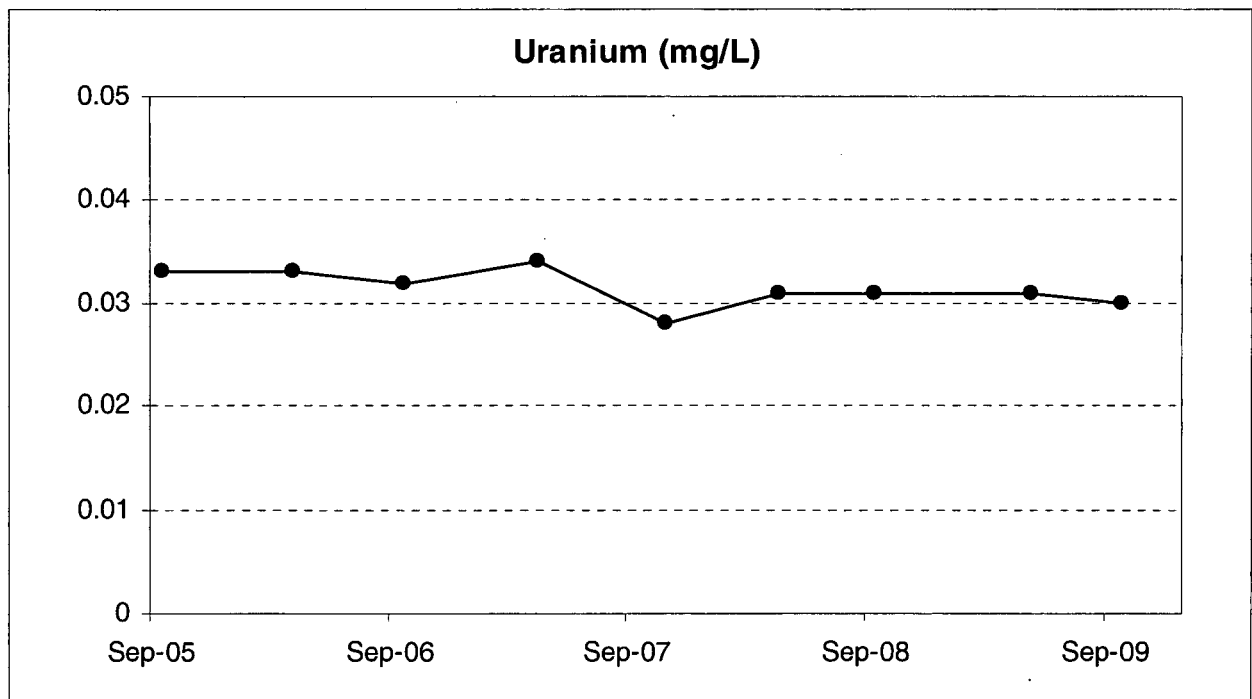
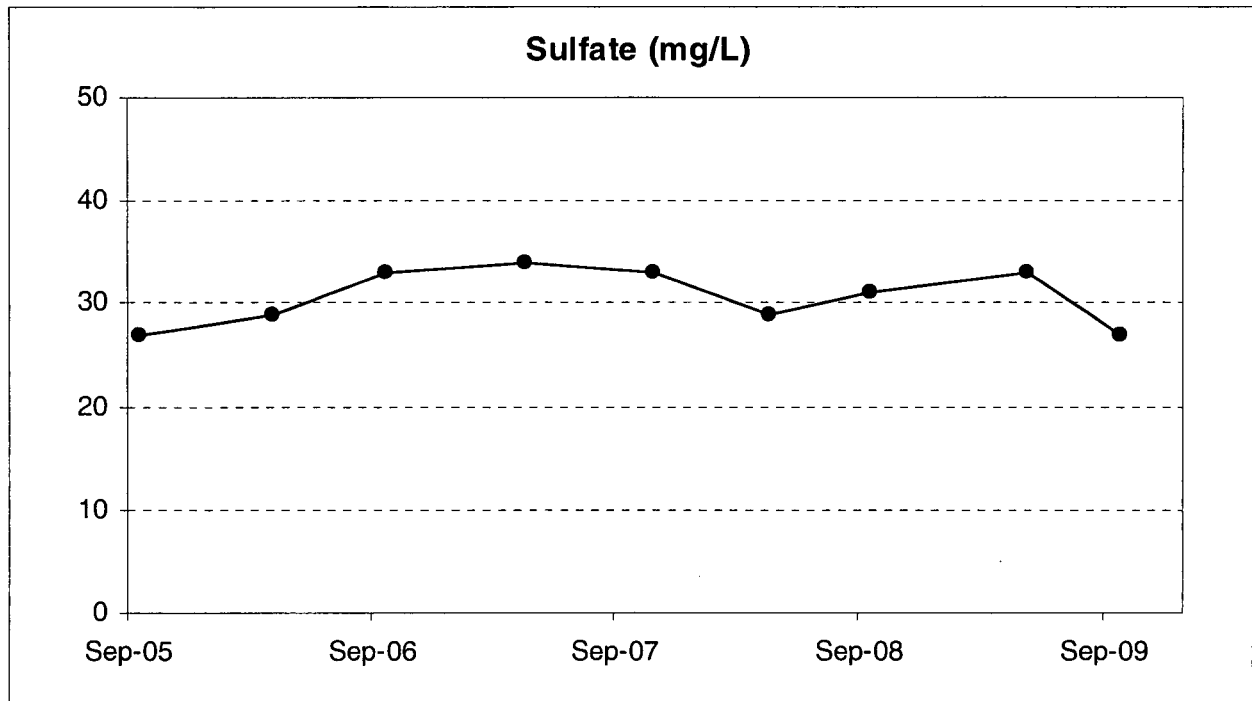
SWAB-31



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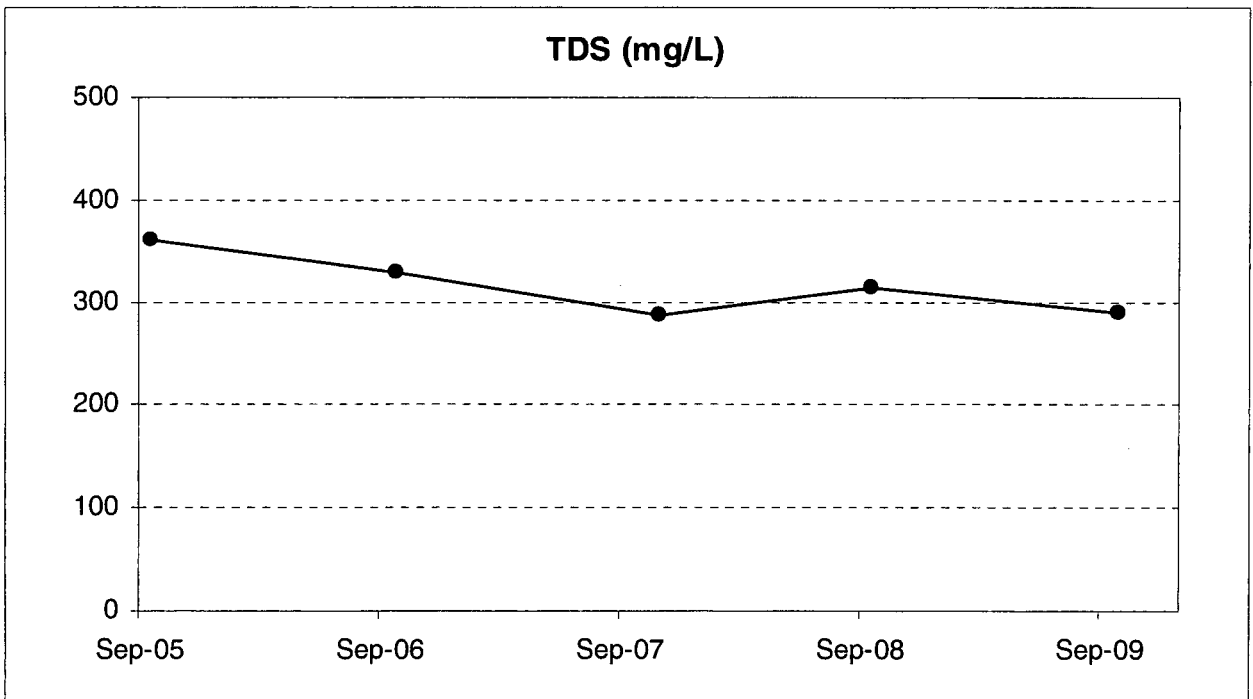
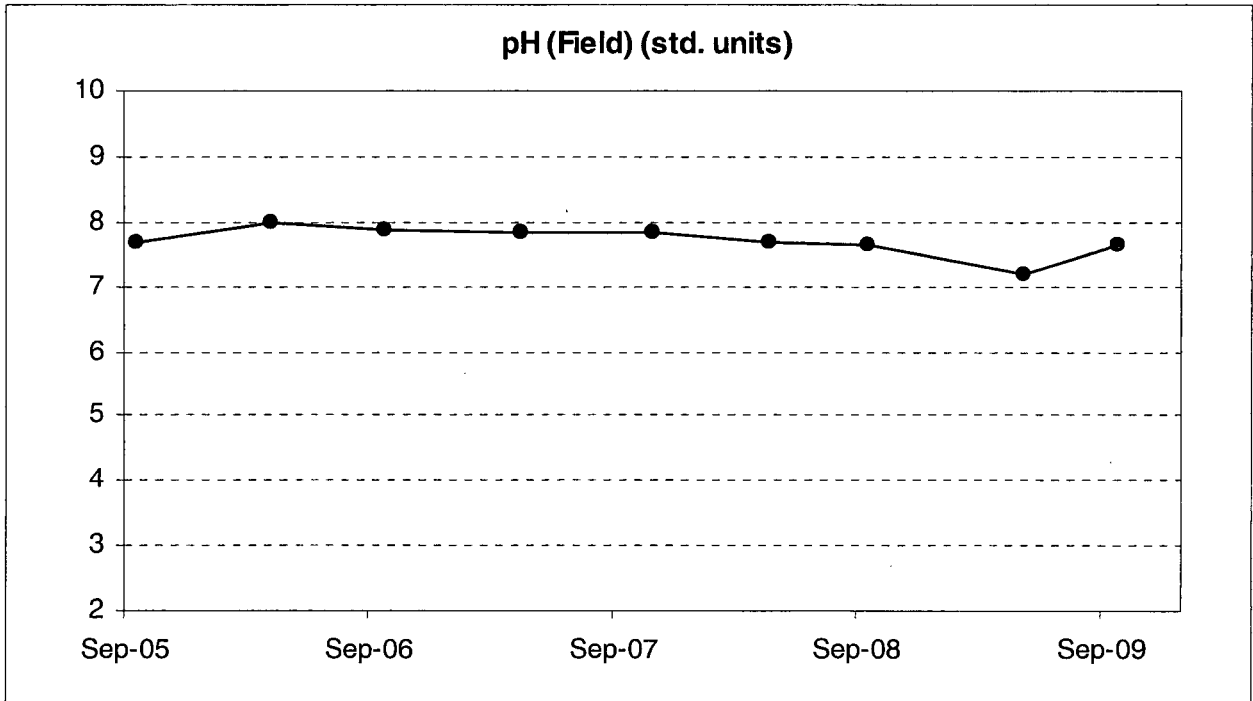
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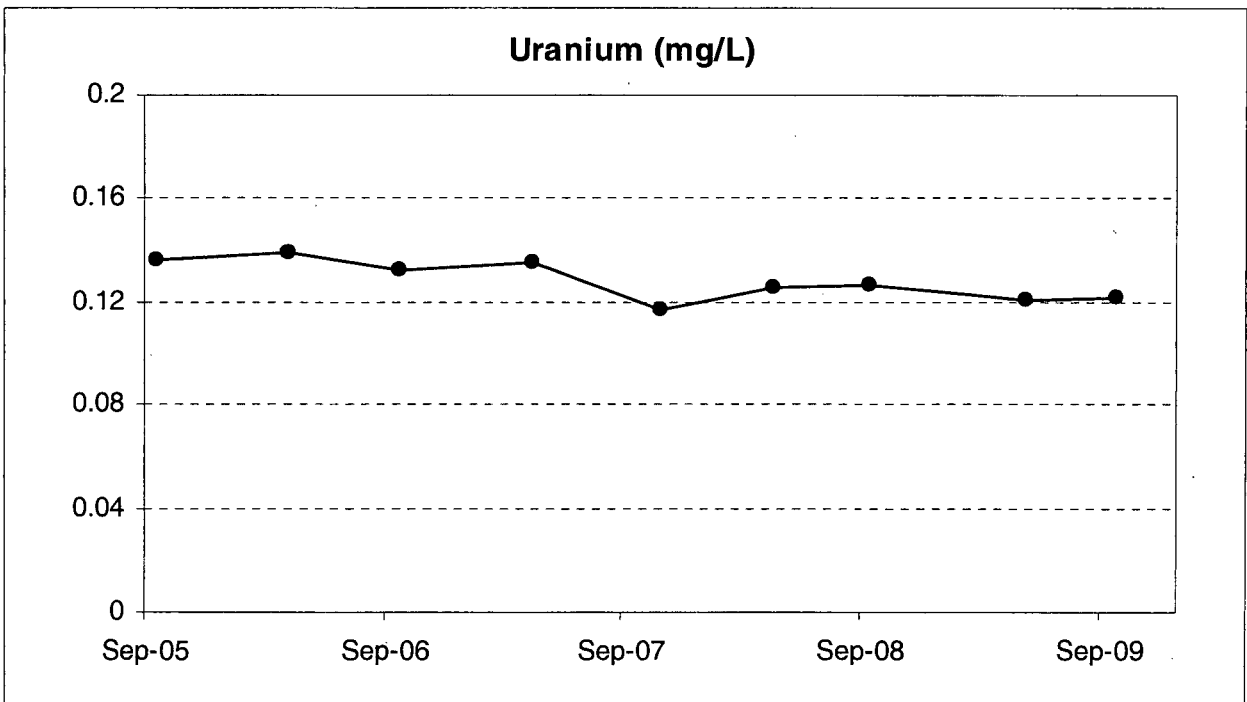
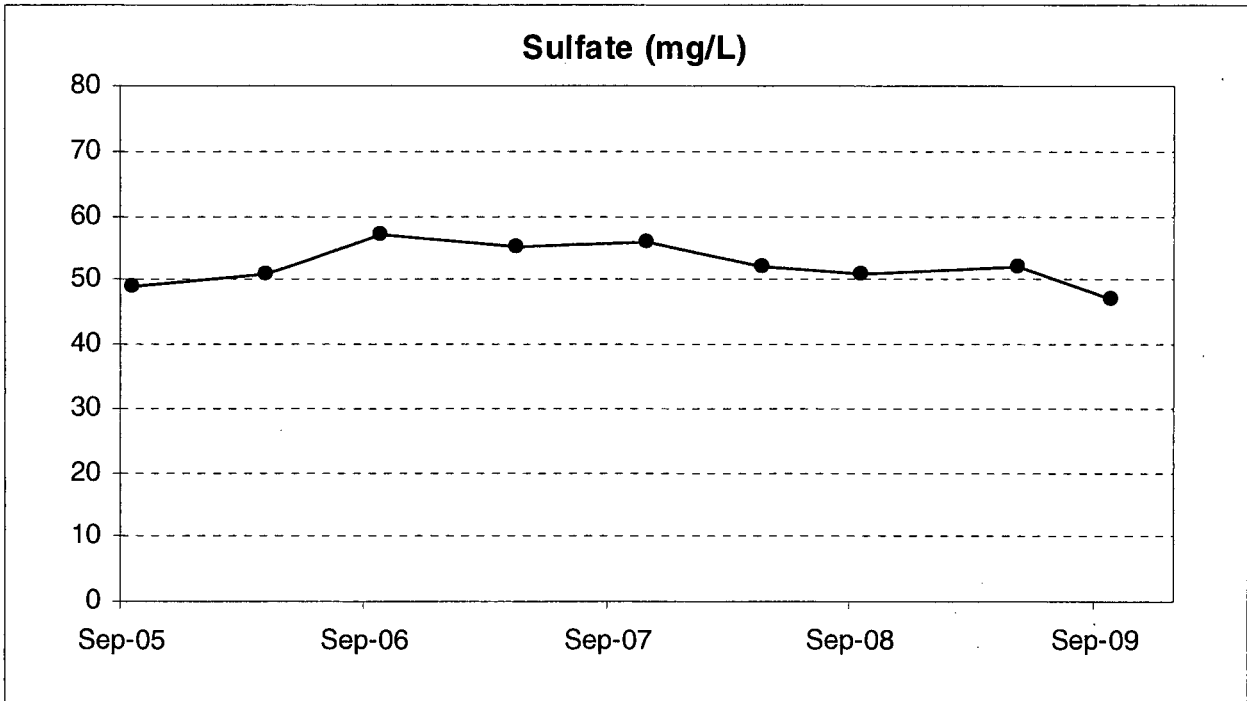
SWAB-32



Open symbols indicate value below detection limit

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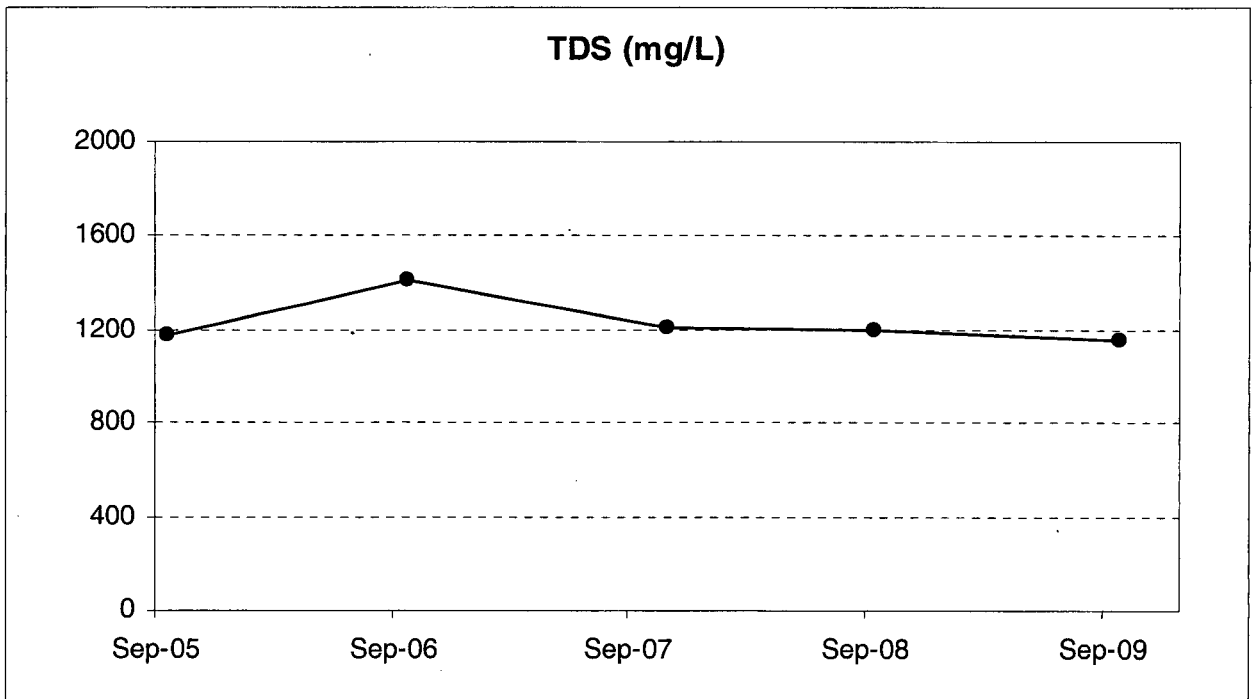
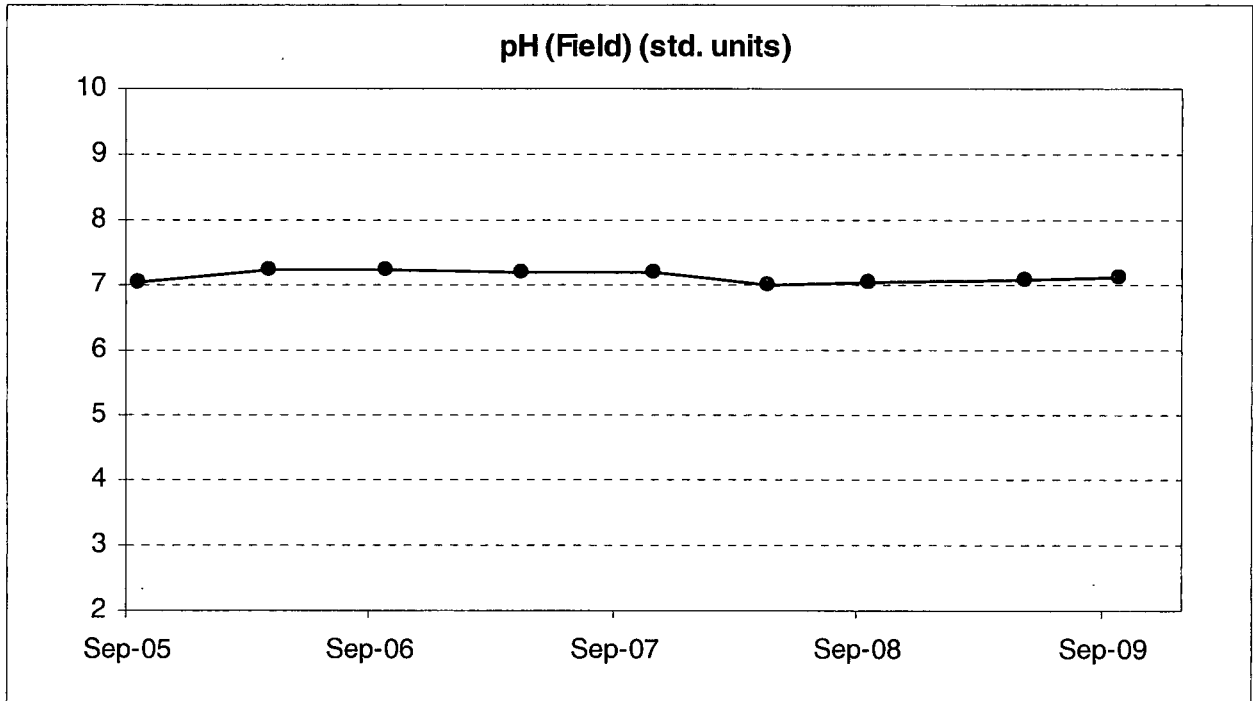
SWAB-32



Open symbols indicate value below detection limit

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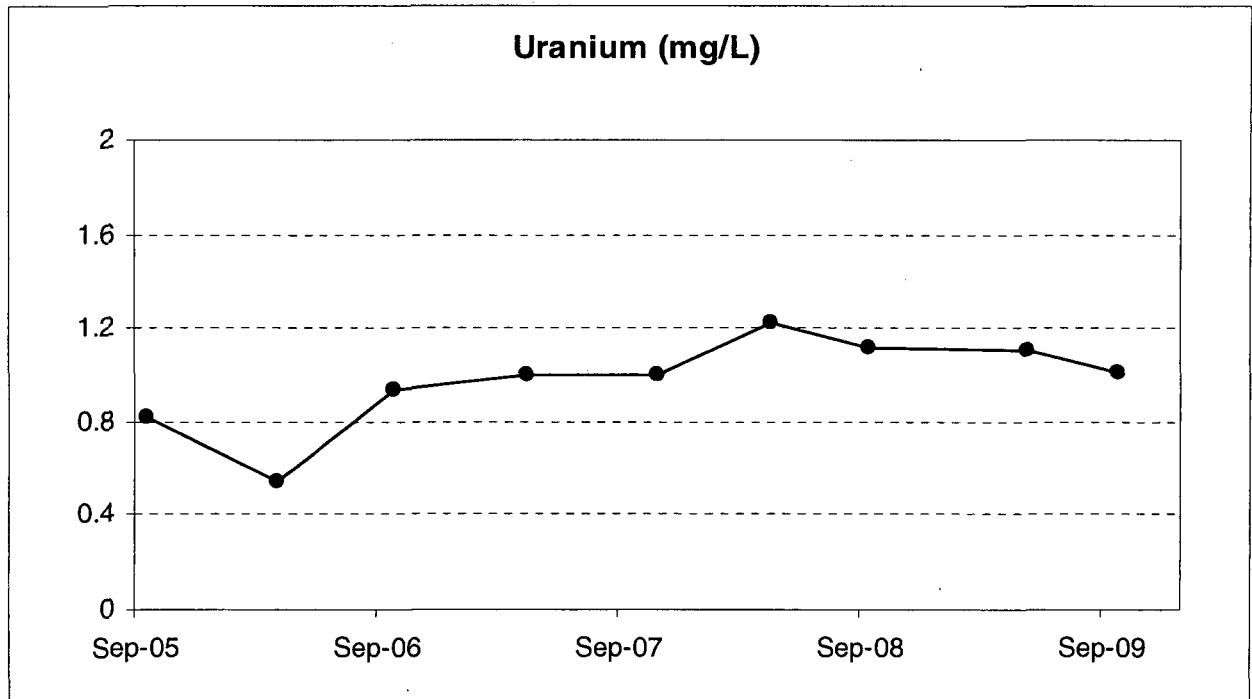
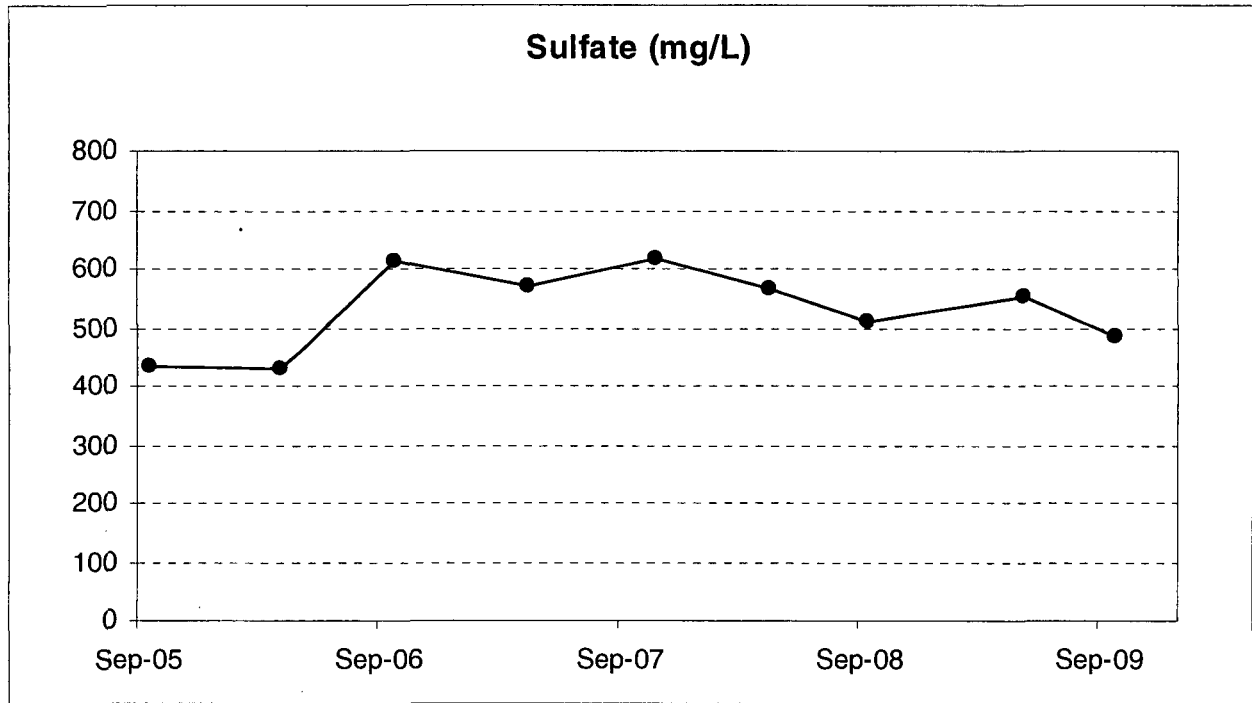
SWAB-4



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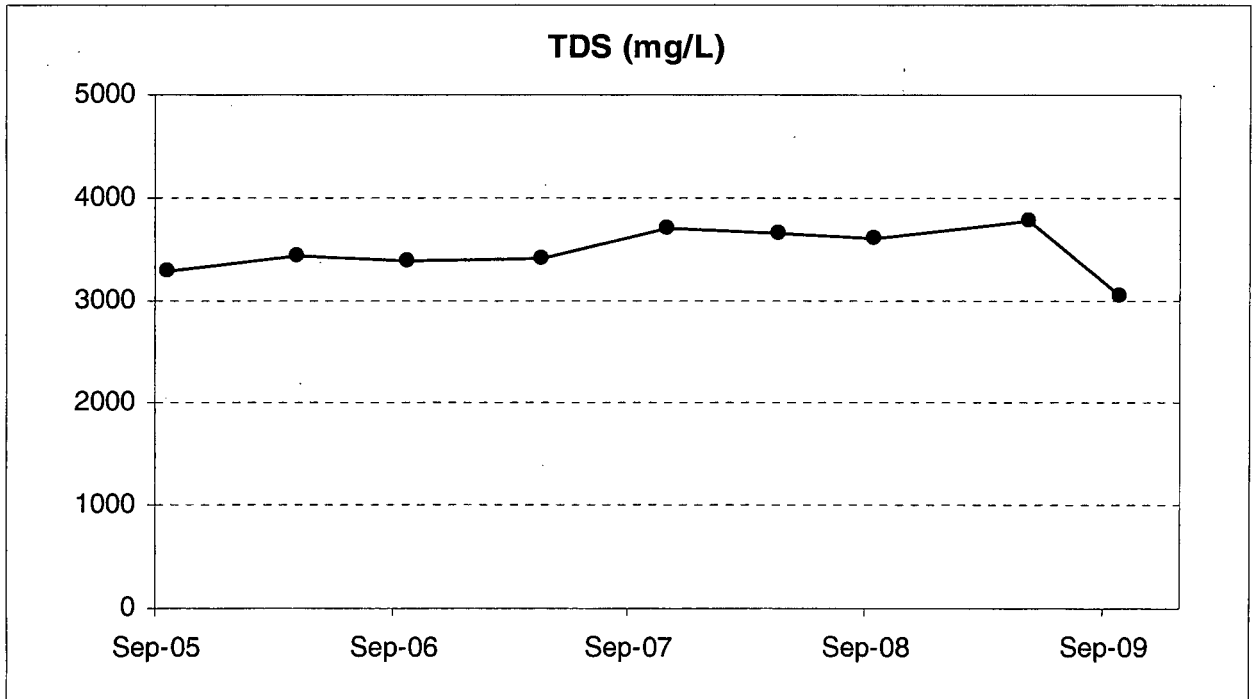
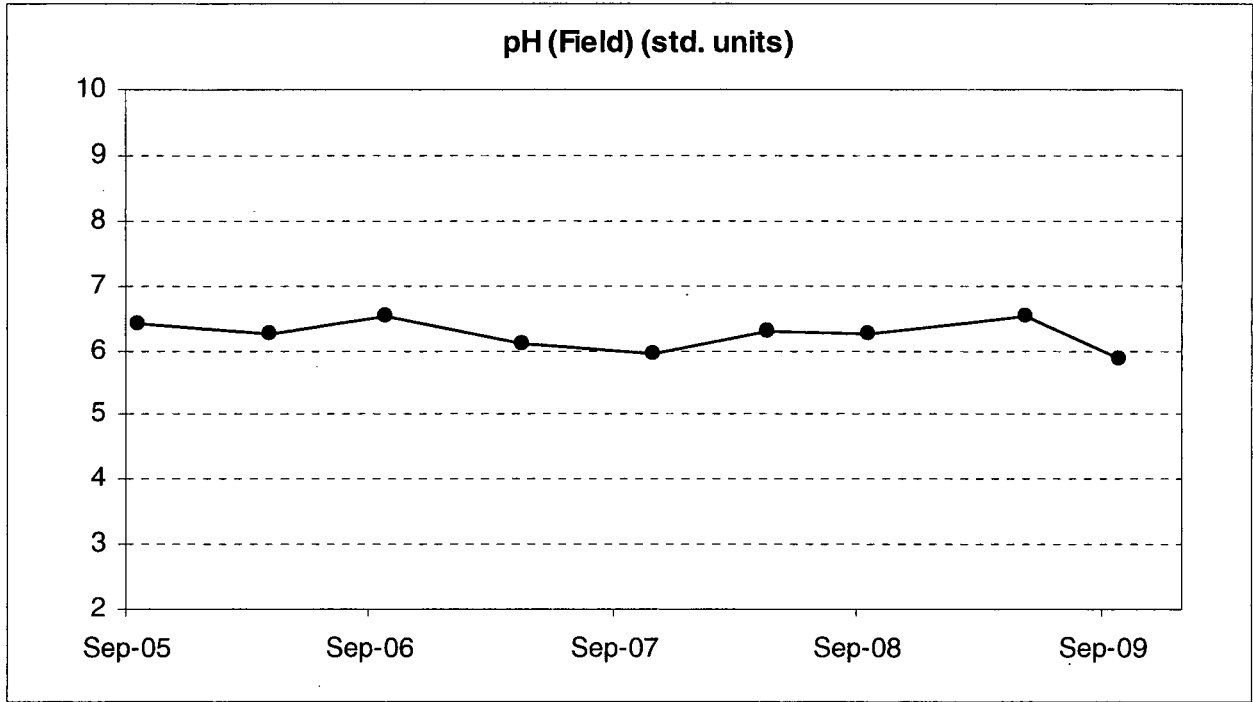
SWAB-4



Open symbols indicate value below detection limit

Jeffrey City

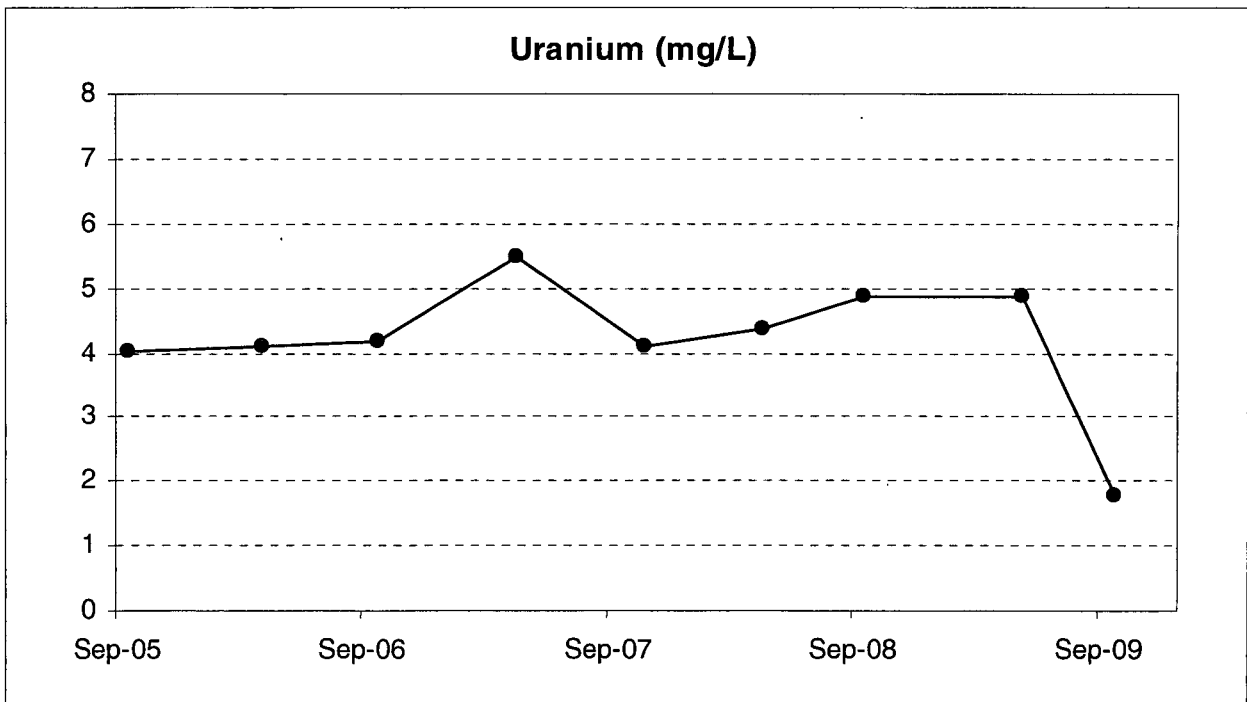
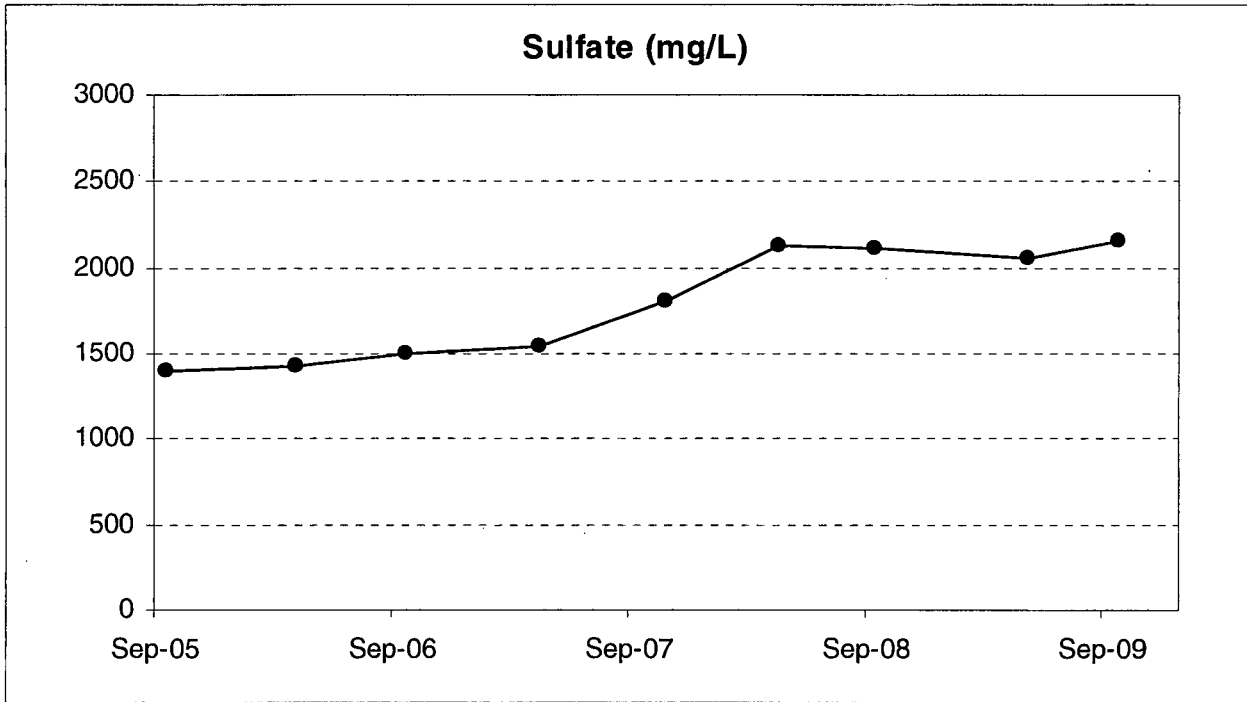
WELL-1



Open symbols indicate value below detection limit

Jeffrey City

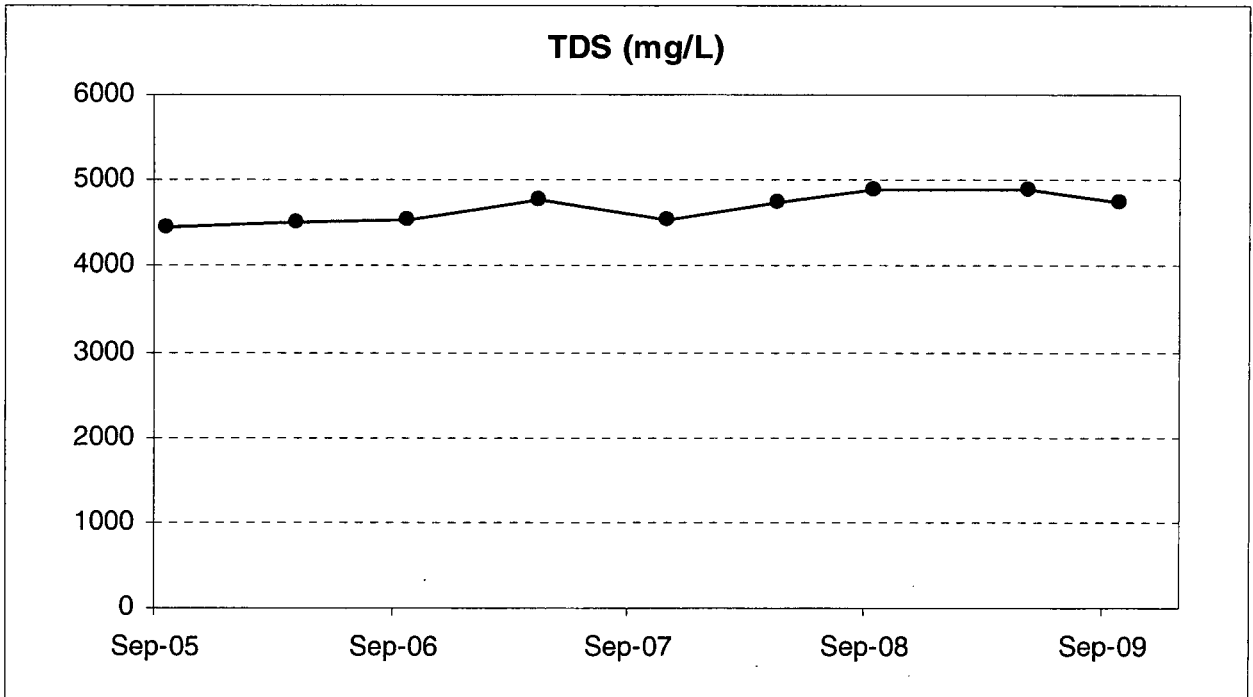
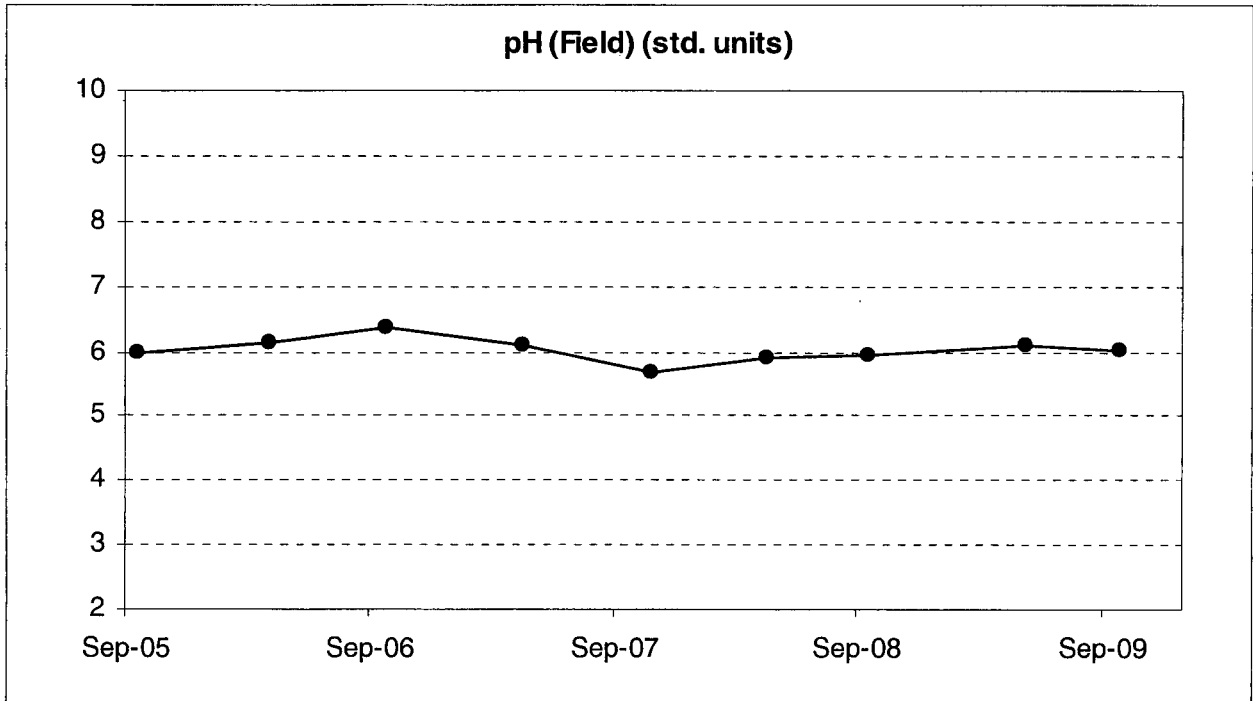
WELL-1



Open symbols indicate value below detection limit

Jeffrey City

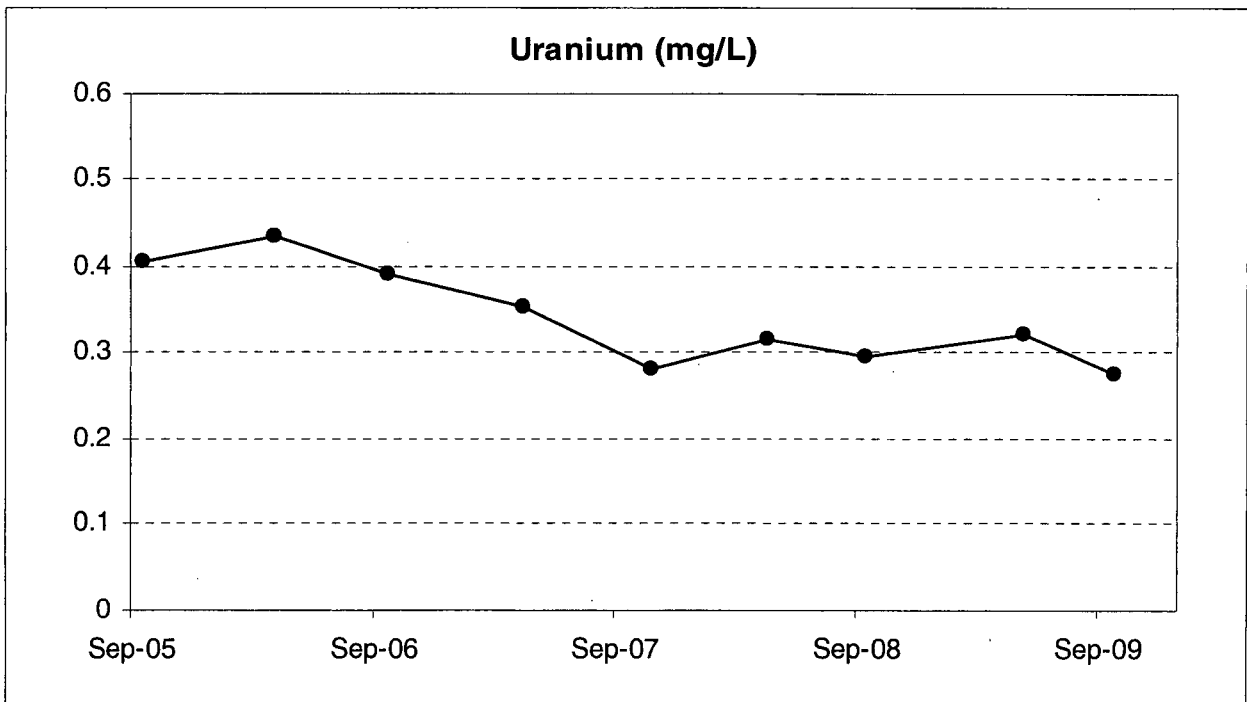
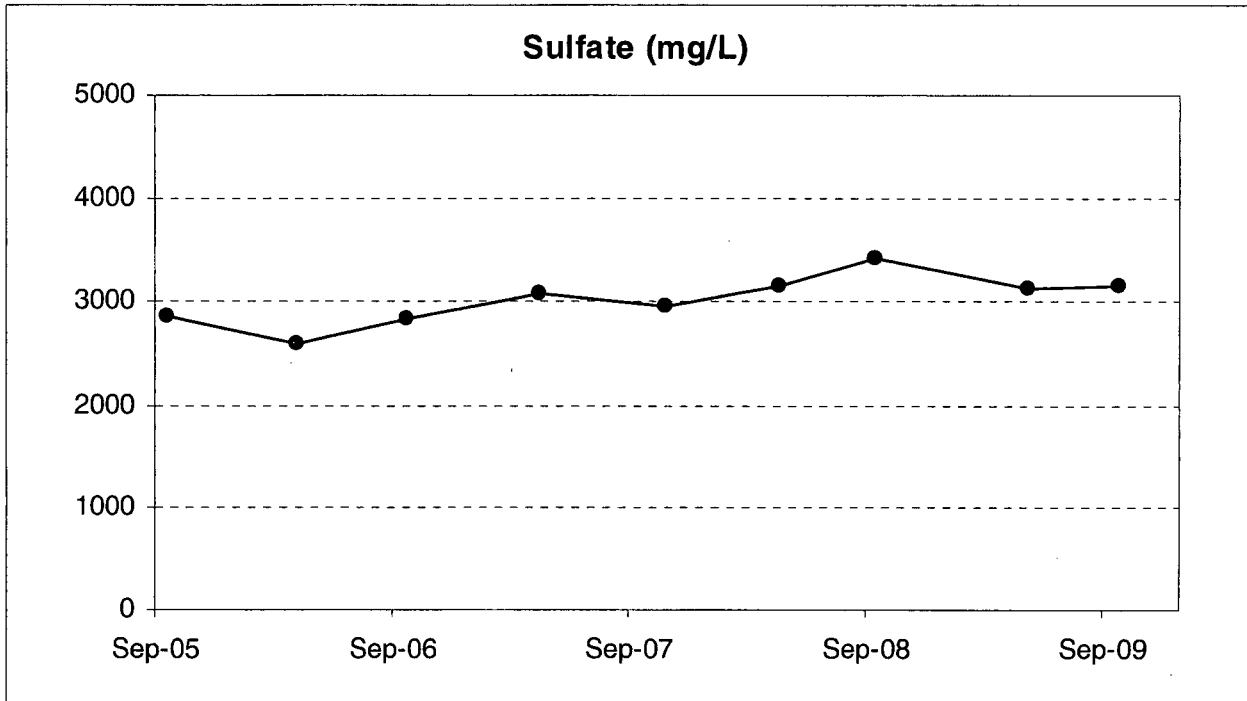
WELL-4R



Open symbols indicate value below detection limit

Jeffrey City

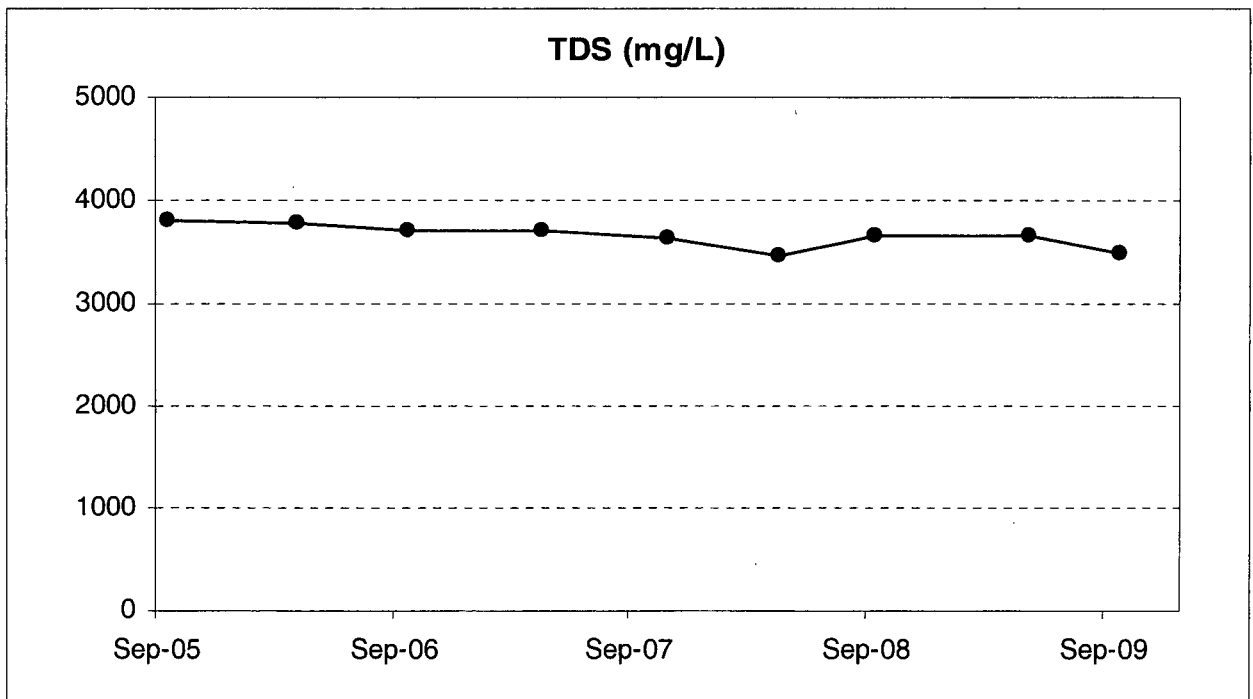
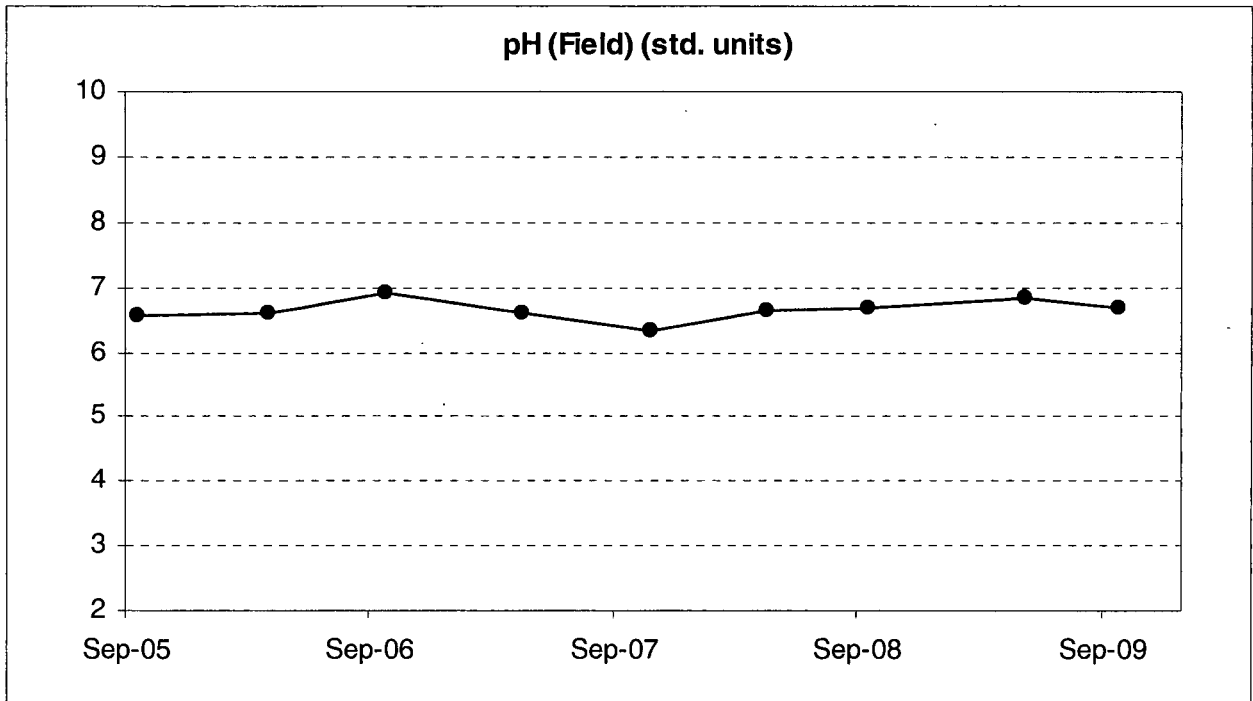
WELL-4R



Open symbols indicate value below detection limit

Jeffrey City

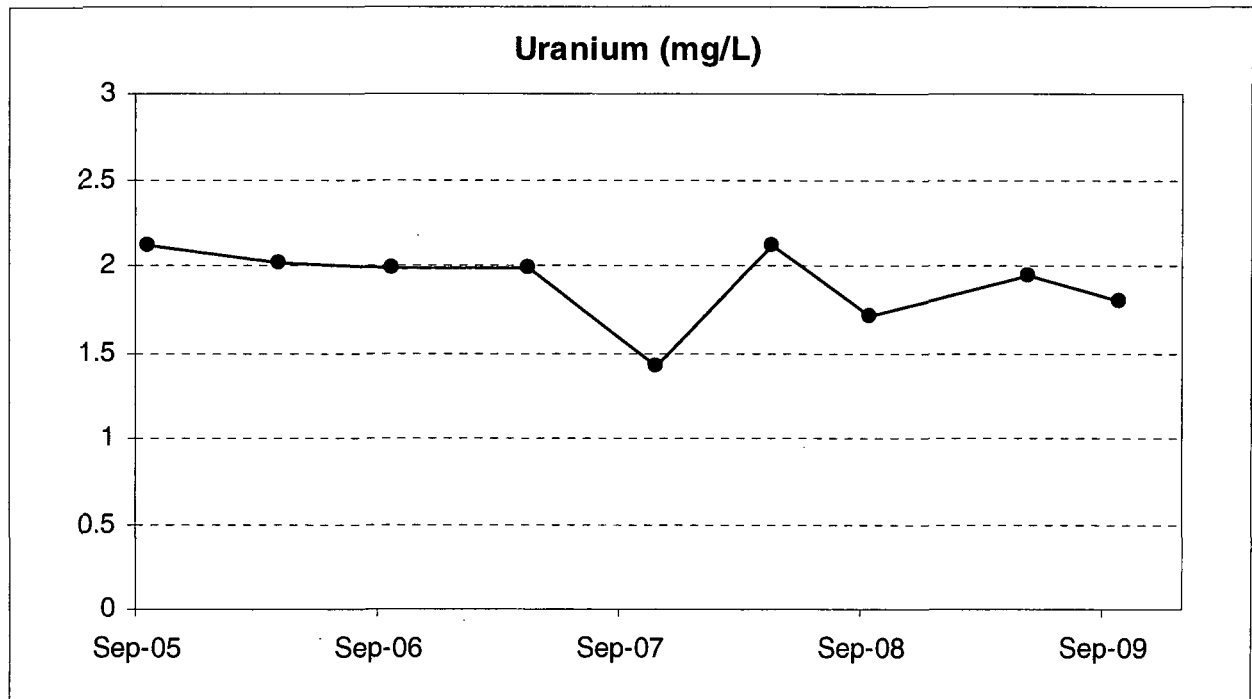
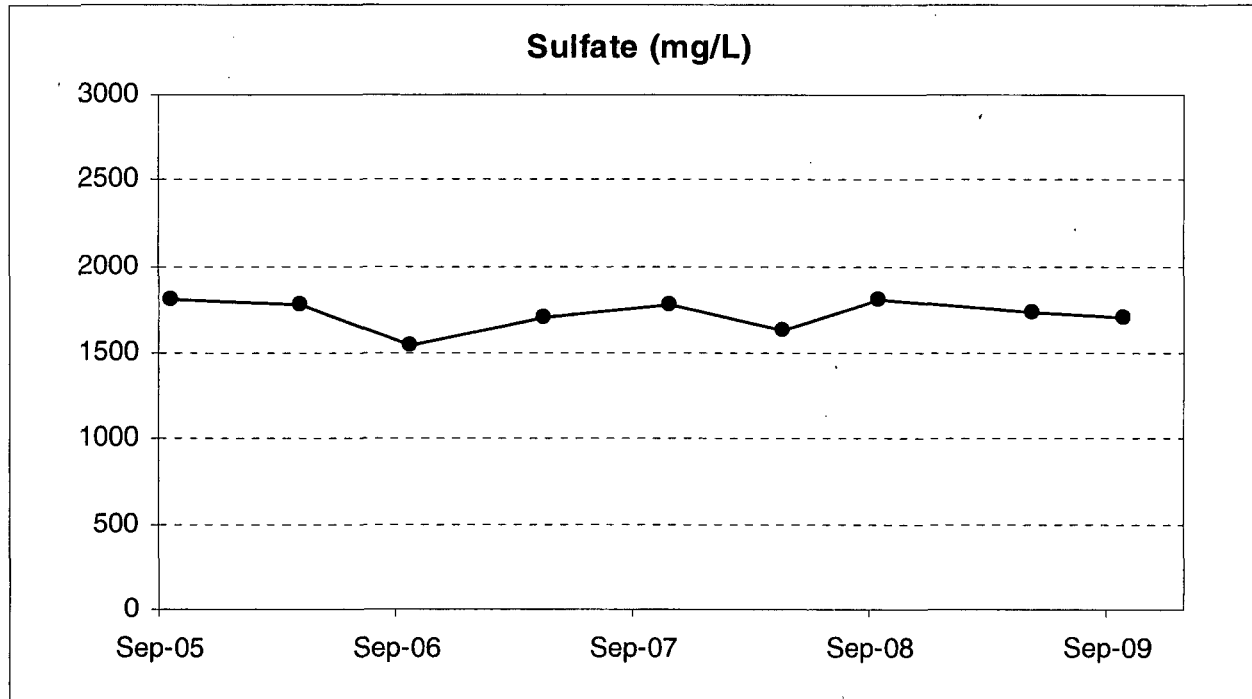
WELL-5



Open symbols indicate value below detection limit

Jeffrey City

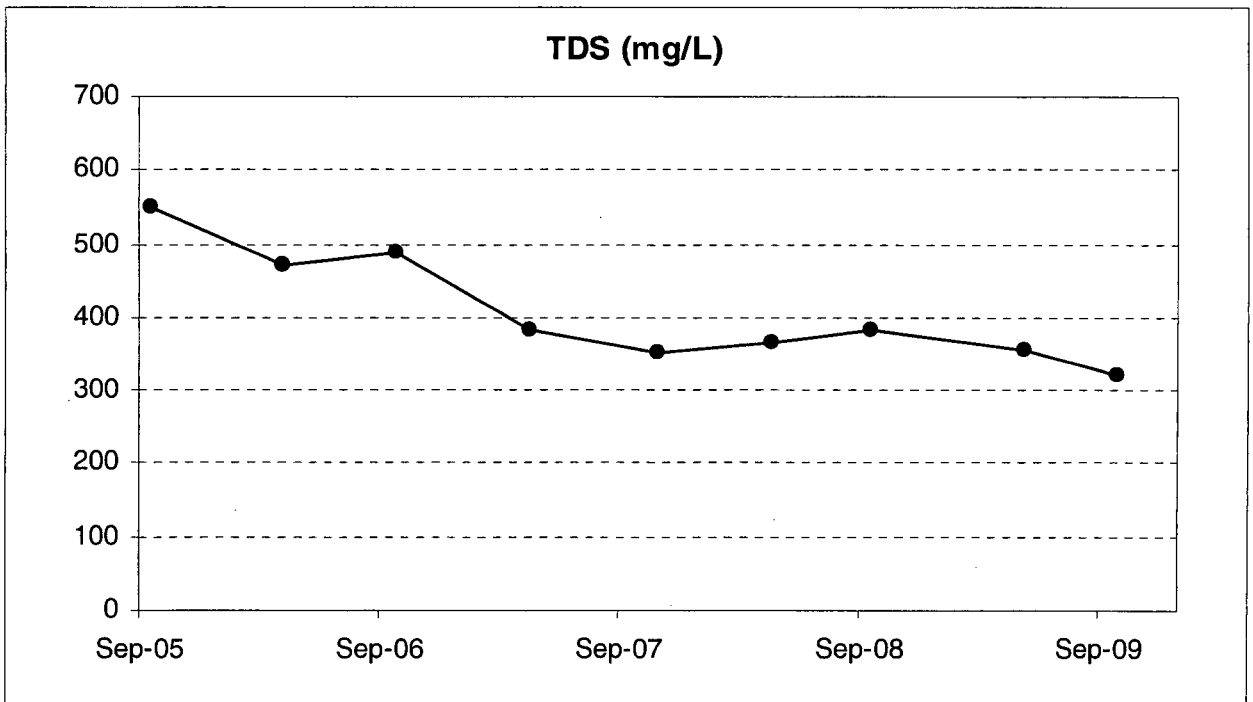
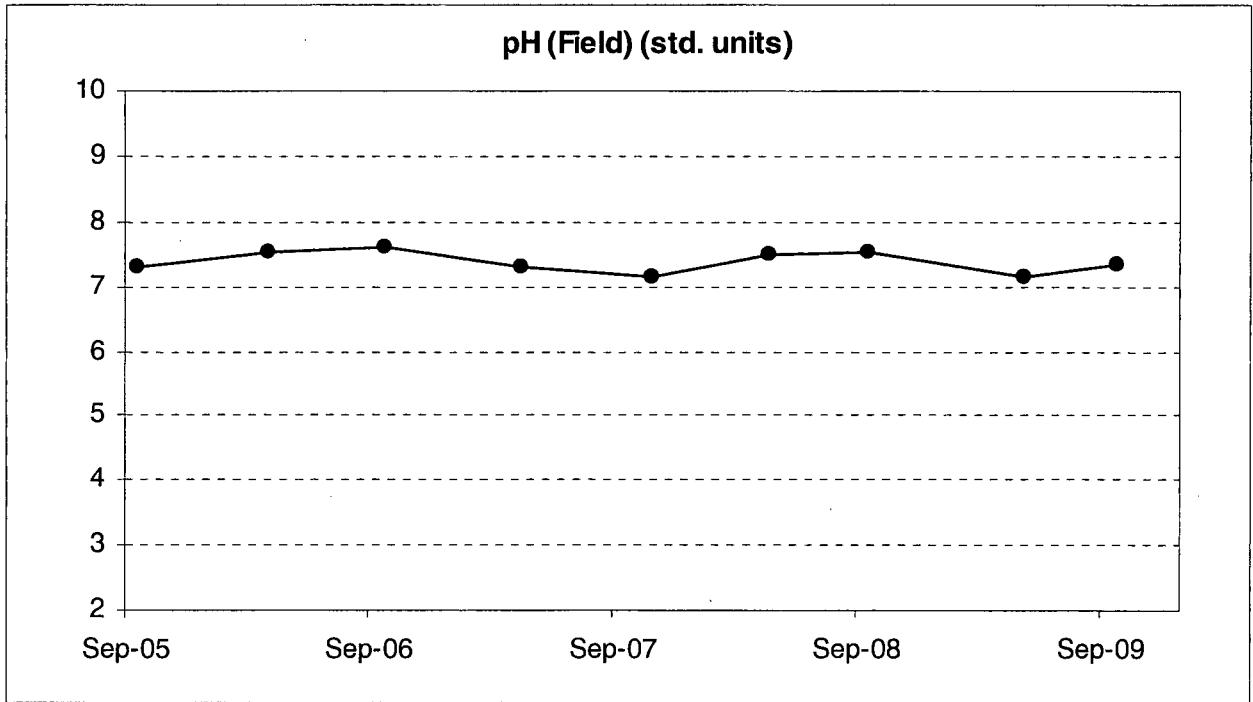
WELL-5



Open symbols indicate value below detection limit

Jeffrey City

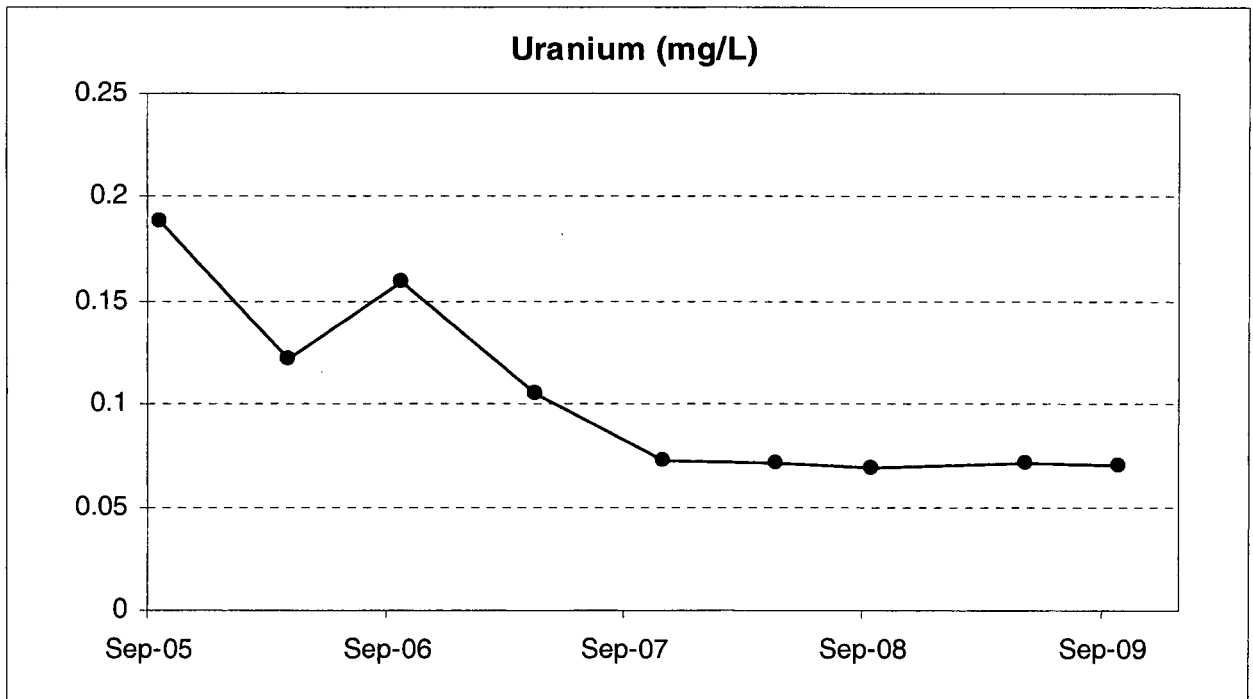
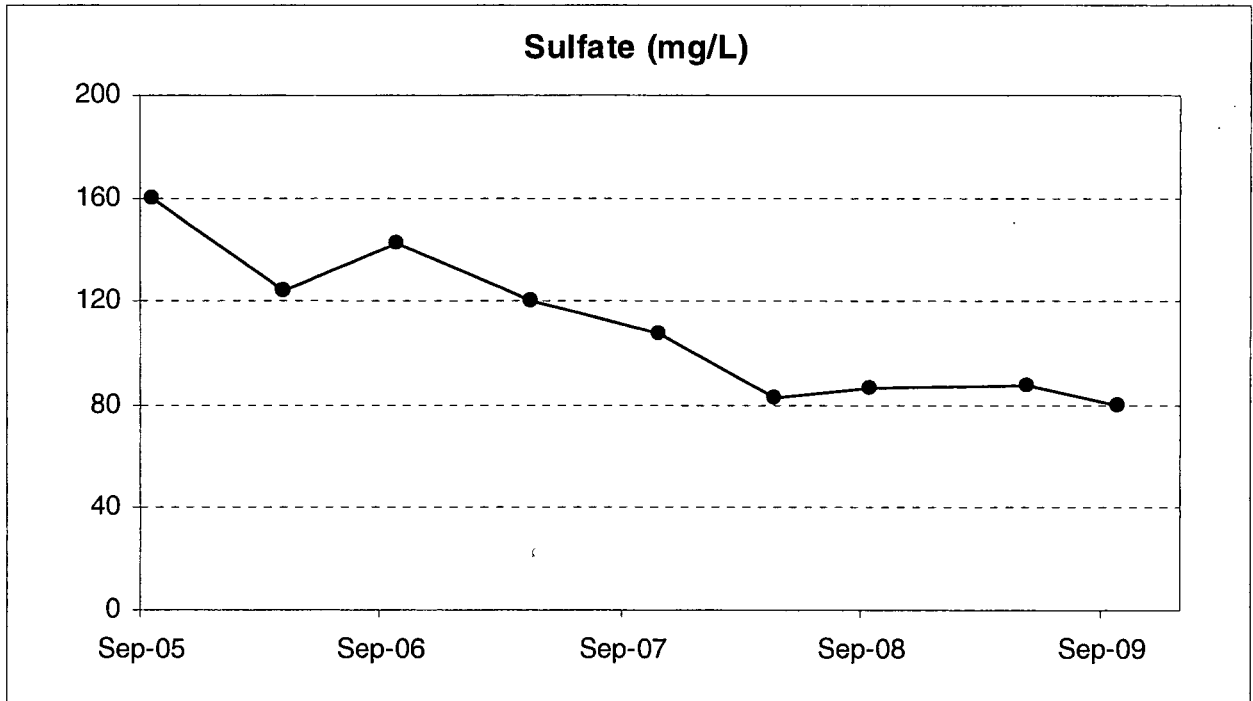
WN-21



Open symbols indicate value below detection limit

Jeffrey City

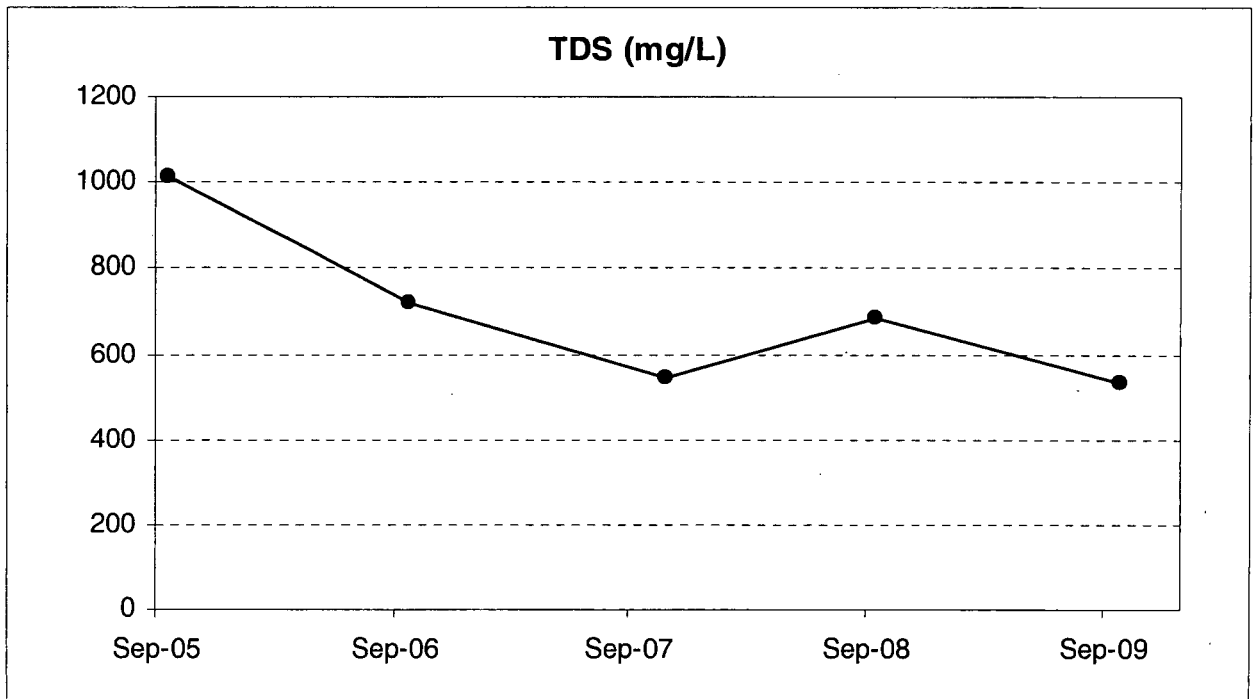
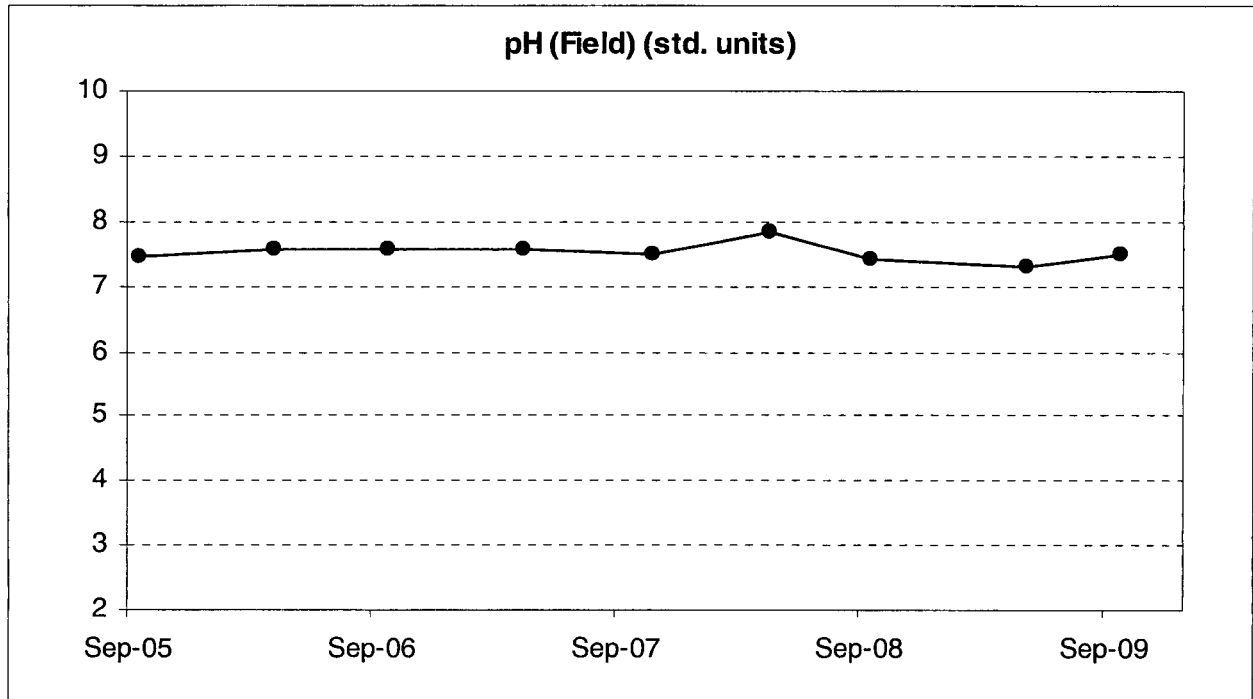
WN-21



Open symbols indicate value below detection limit

Jeffrey City

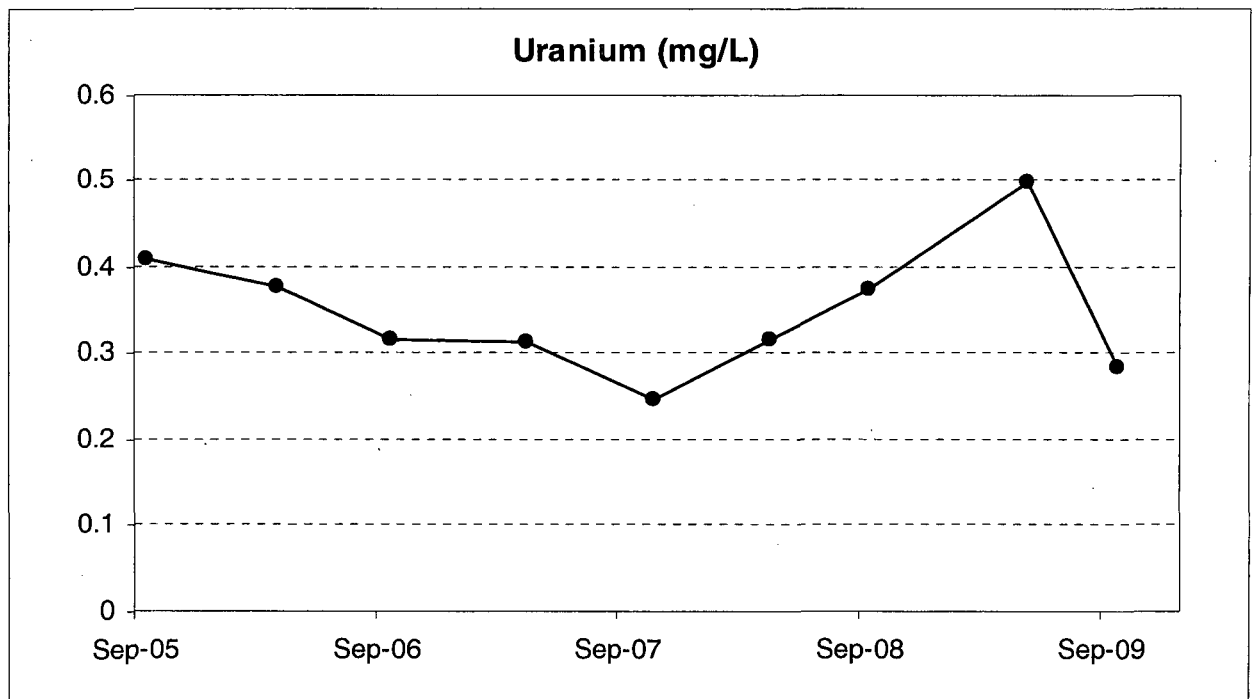
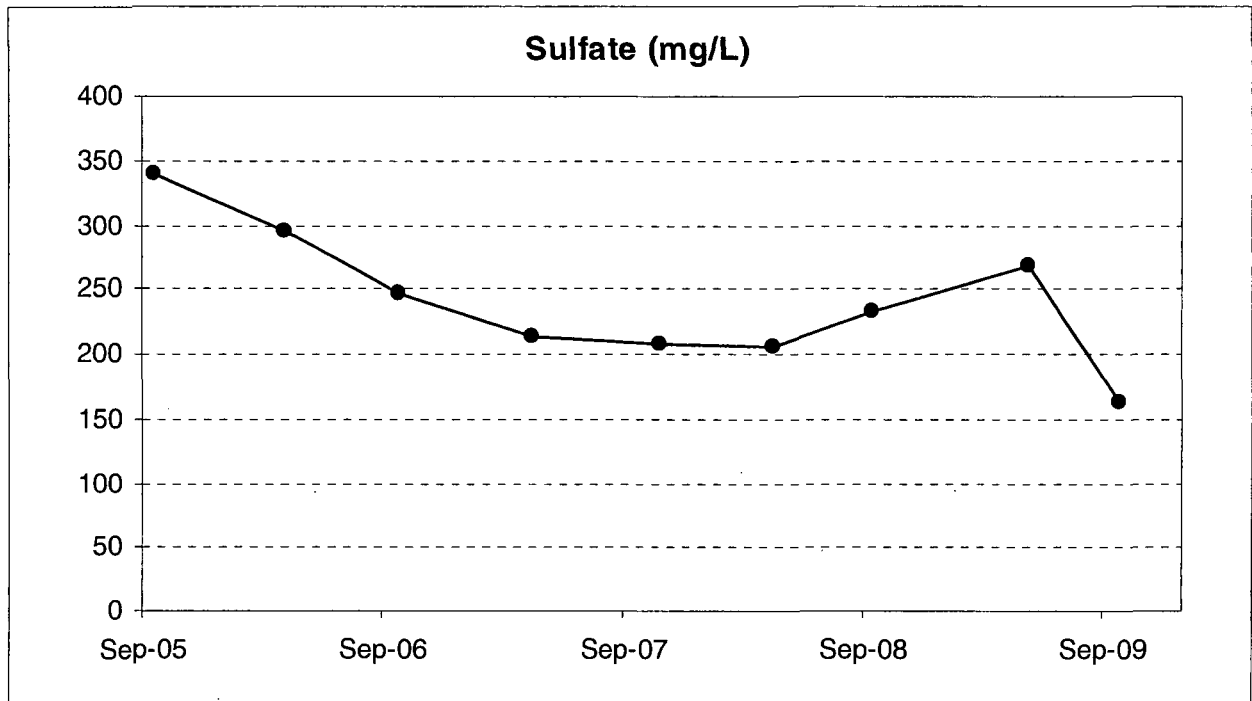
WN-39B



Open symbols indicate value below detection limit

Jeffrey City

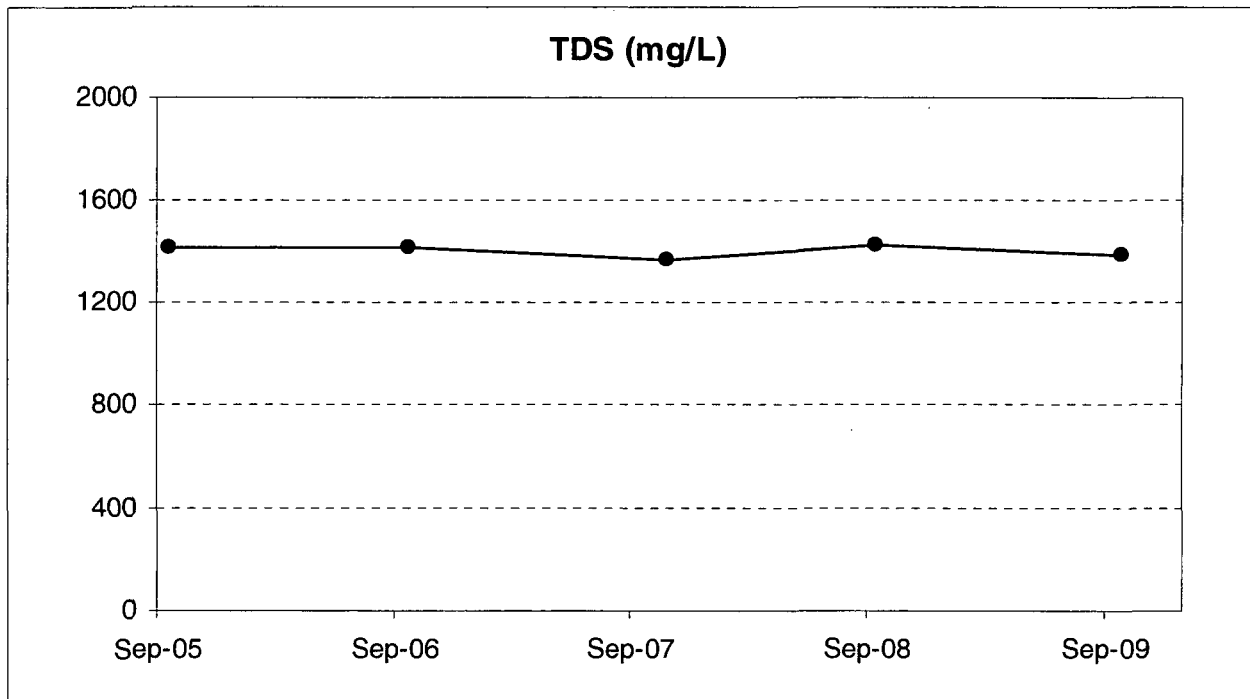
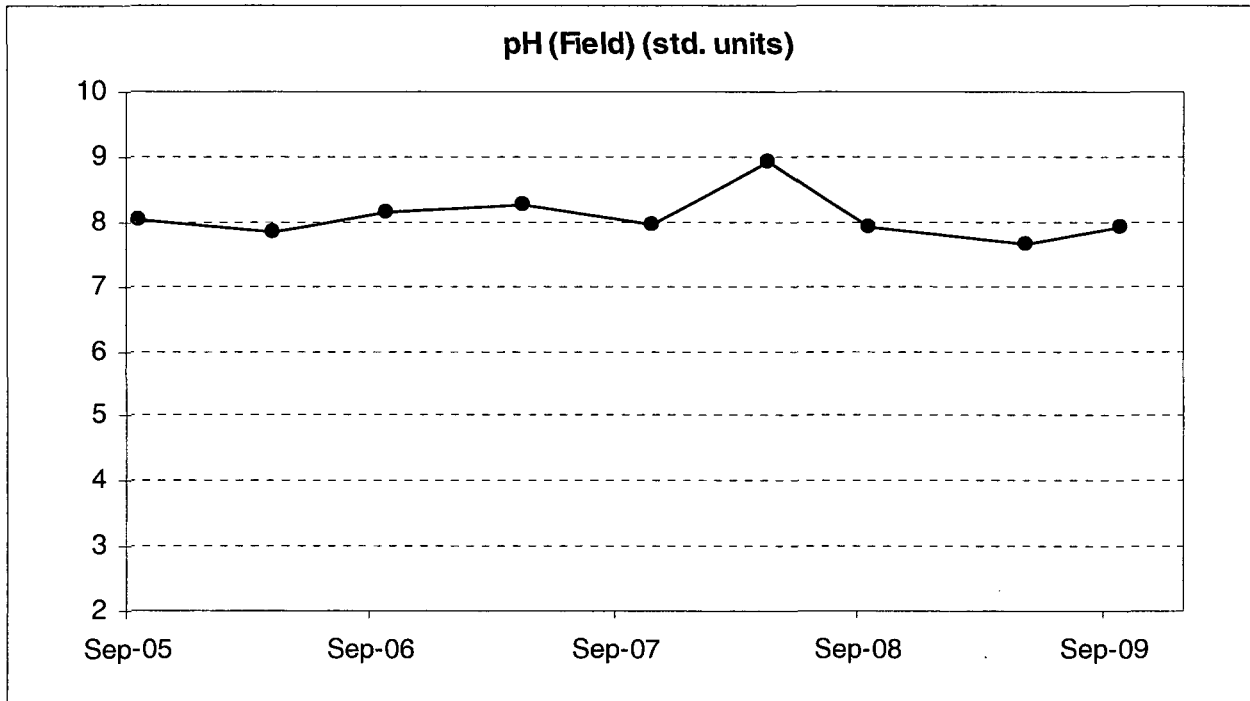
WN-39B



Open symbols indicate value below detection limit

Jeffrey City

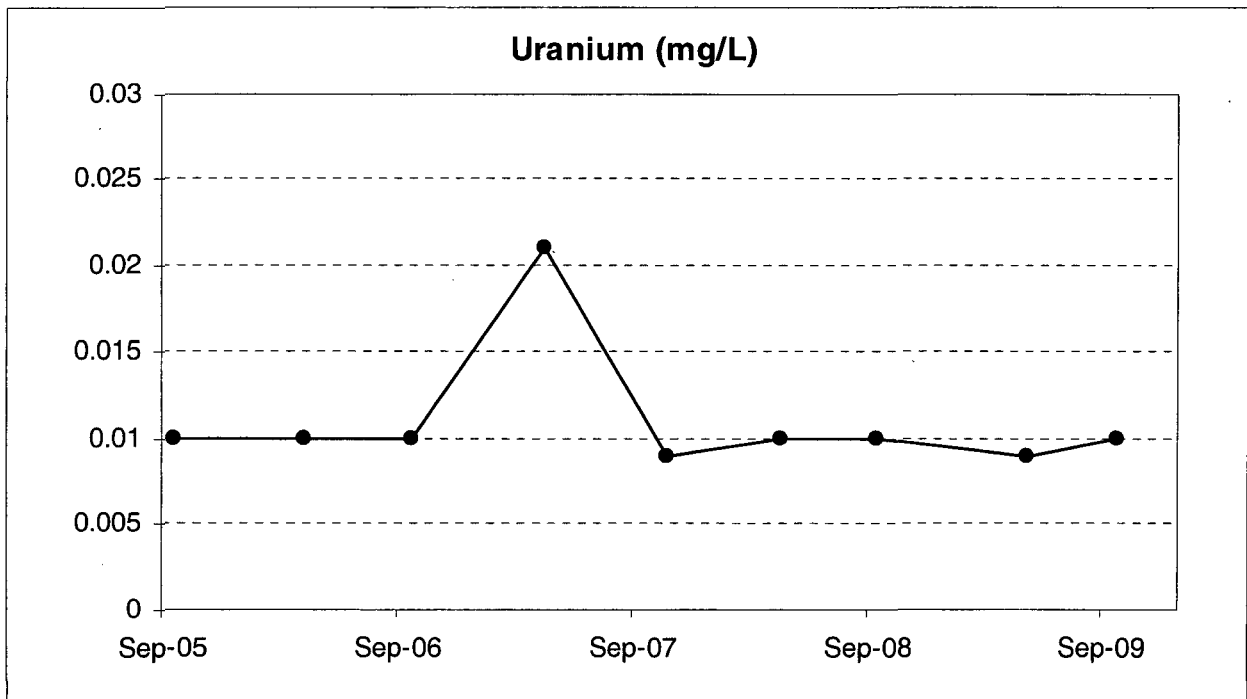
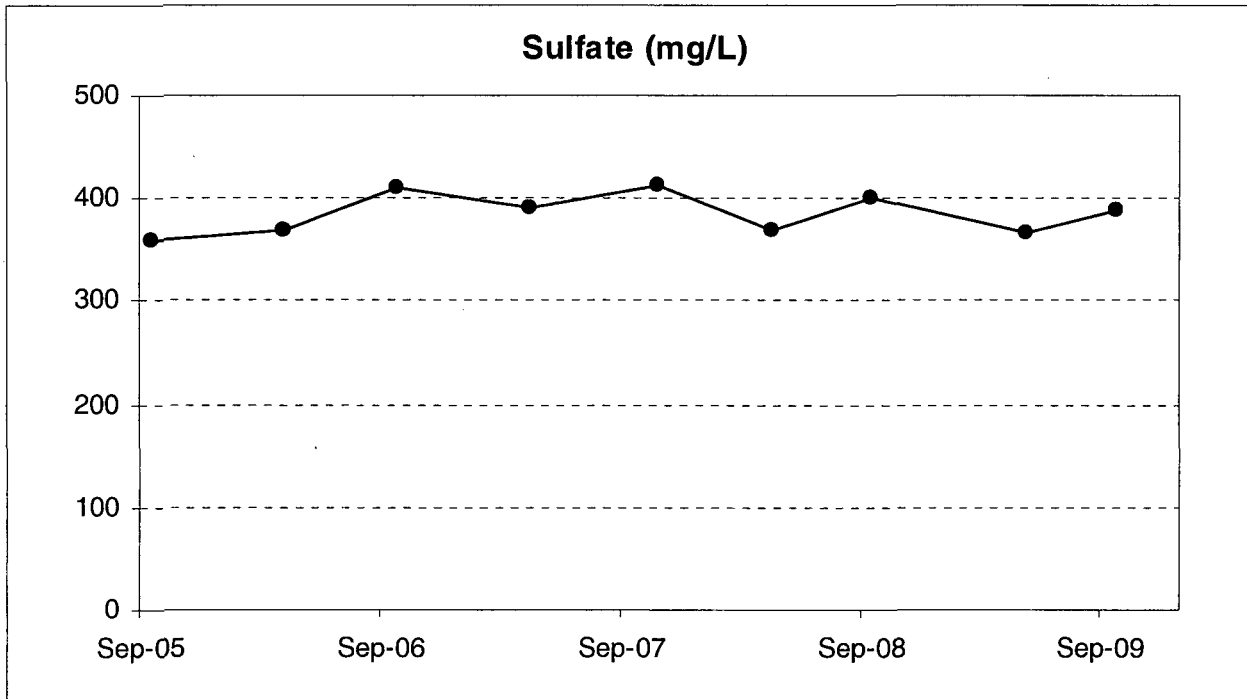
WN-41B



Open symbols indicate value below detection limit

Jeffrey City

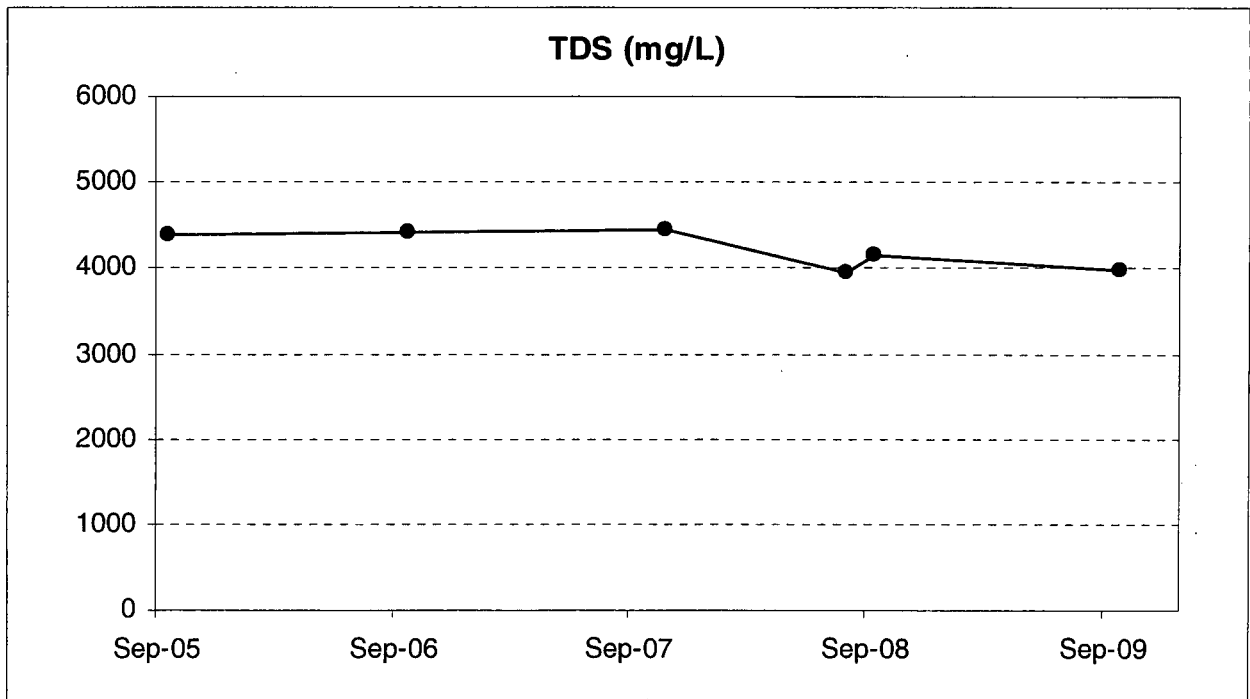
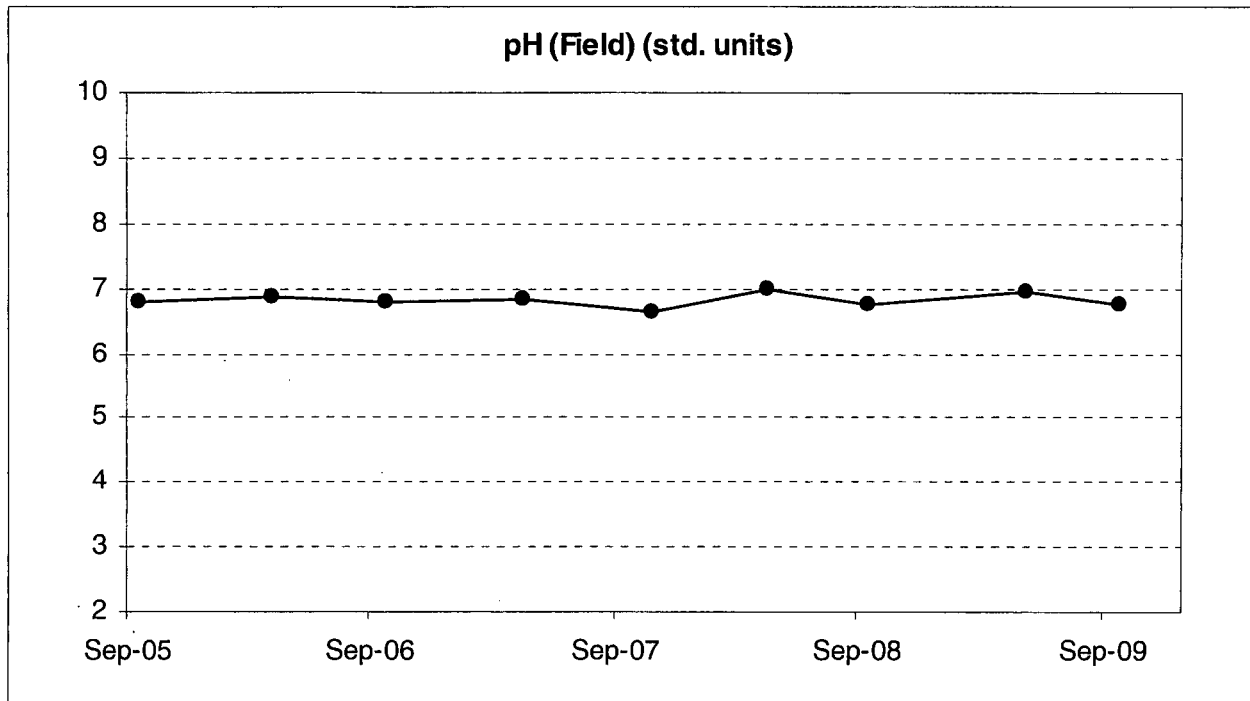
WN-41B



Open symbols indicate value below detection limit

Jeffrey City

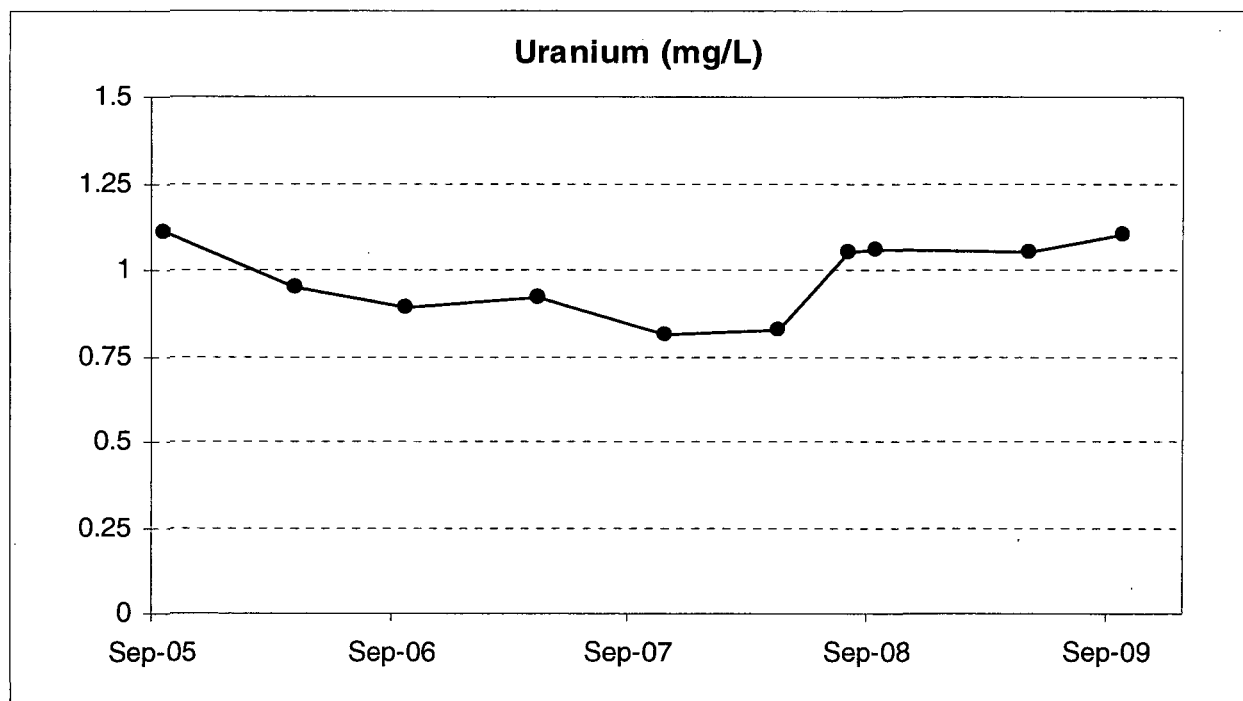
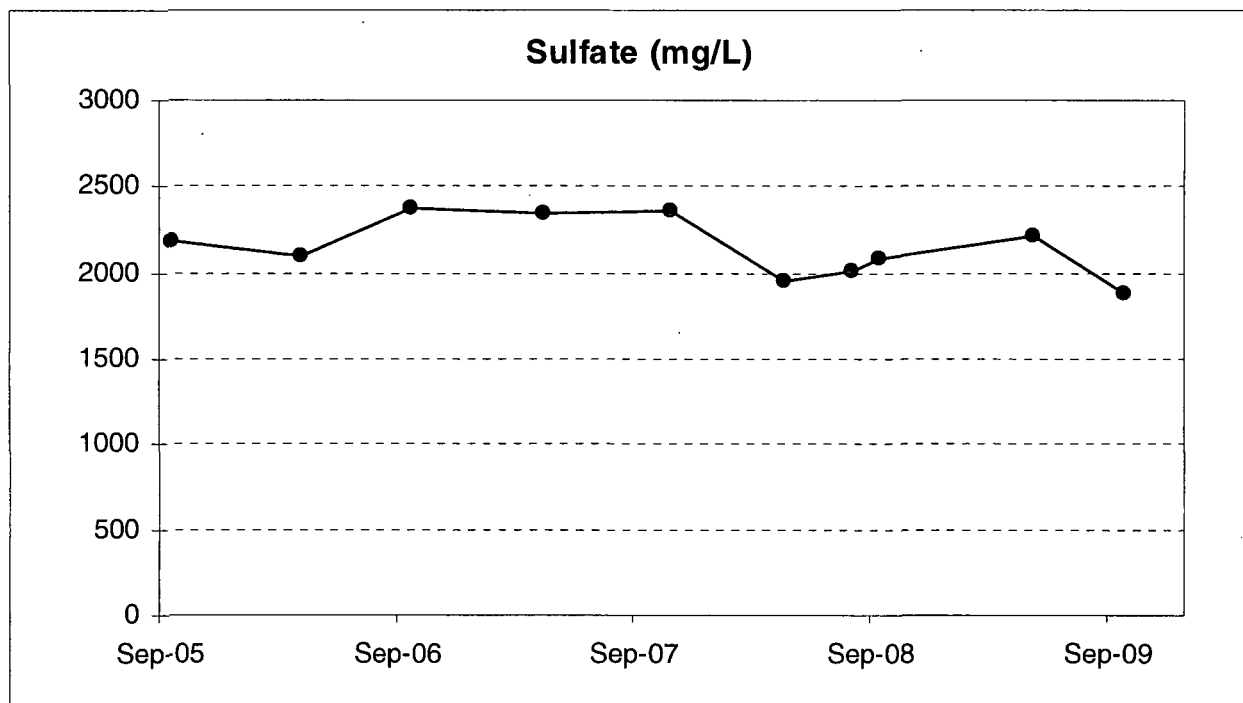
WN-42A



Open symbols indicate value below detection limit

Jeffrey City

WN-42A



Open symbols indicate value below detection limit



LABORATORY ANALYTICAL REPORT

Client: Western Nuclear
 Project: Split Rock Mill Site GWPP
 Lab ID: C09091173-010
 Client Sample ID: JJ-1R

Report Date: 11/06/09
 Collection Date: 09/29/09 09:46
 Date Received: 09/30/09
 Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|-------------------------------------|--------|-------|------------|-------|-------------|--------|------------------------|
| MAJOR IONS | | | | | | | |
| Chloride | 13 | mg/L | | 1 | E300.0 | | 10/06/09 00:51 / ljl |
| Fluoride | 0.5 | mg/L | | 0.1 | A4500-F C | | 10/06/09 13:26 / dvg |
| Nitrogen, Ammonia as N | ND | mg/L | | 0.05 | E350.1 | | 10/01/09 15:39 / eli-b |
| Nitrogen, Nitrate+Nitrite as N | ND | mg/L | | 0.2 | E353.2 | | 10/02/09 13:18 / eli-b |
| Sulfate | 44 | mg/L | | 1 | E300.0 | | 10/06/09 00:51 / ljl |
| PHYSICAL PROPERTIES | | | | | | | |
| pH | 7.48 | s.u. | | 0.01 | A4500-H B | | 09/30/09 15:38 / dd |
| Solids, Total Dissolved TDS @ 180 C | 333 | mg/L | | 10 | A2540 C | | 10/02/09 15:18 / th |
| METALS - DISSOLVED | | | | | | | |
| Aluminum | ND | mg/L | | 0.1 | E200.8 | | 10/01/09 17:07 / ts |
| Antimony | ND | mg/L | | 0.003 | E200.8 | | 10/01/09 17:07 / ts |
| Arsenic | ND | mg/L | | 0.01 | E200.8 | | 10/01/09 17:07 / ts |
| Beryllium | ND | mg/L | | 0.004 | E200.8 | | 10/01/09 17:07 / ts |
| Cadmium | ND | mg/L | | 0.001 | E200.8 | | 10/01/09 17:07 / ts |
| Lead | ND | mg/L | | 0.005 | E200.8 | | 10/01/09 17:07 / ts |
| Manganese | 0.10 | mg/L | | 0.05 | E200.8 | | 10/01/09 17:07 / ts |
| Molybdenum | ND | mg/L | | 0.1 | E200.8 | | 10/01/09 17:07 / ts |
| Nickel | ND | mg/L | | 0.05 | E200.8 | | 10/01/09 17:07 / ts |
| Selenium | ND | mg/L | | 0.005 | E200.8 | | 10/01/09 17:07 / ts |
| Thallium | ND | mg/L | | 0.001 | E200.8 | | 10/01/09 17:07 / ts |
| Uranium | 0.009 | mg/L | | 0.001 | E200.8 | | 10/01/09 17:07 / ts |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | -0.1 | pCi/L | | U | E903.0 | | 10/28/09 13:22 / trs |
| Radium 226 precision (±) | 0.08 | pCi/L | | | E903.0 | | 10/28/09 13:22 / trs |
| Radium 226 MDC | 0.20 | pCi/L | | | E903.0 | | 10/28/09 13:22 / trs |
| Radium 228 | 1.6 | pCi/L | | | RA-05 | | 10/20/09 12:33 / plj |
| Radium 228 precision (±) | 0.9 | pCi/L | | | RA-05 | | 10/20/09 12:33 / plj |
| Radium 228 MDC | 1.4 | pCi/L | | | RA-05 | | 10/20/09 12:33 / plj |
| Thorium 230 | -0.005 | pCi/L | | U | E907.0 | | 10/16/09 13:16 / dmf |
| Thorium 230 precision (±) | 0.09 | pCi/L | | | E907.0 | | 10/16/09 13:16 / dmf |
| Thorium 230 MDC | 0.2 | pCi/L | | | E907.0 | | 10/16/09 13:16 / dmf |
| FIELD PARAMETERS | | | | | | | |
| pH | 6.95 | s.u. | | | FIELD | | 09/29/09 09:46 / *** |

*** Performed by Sampler

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Western Nuclear
 Project: Split Rock Mill Site GWPP
 Lab ID: C09091173-005
 Client Sample ID: SWAB-1R

Report Date: 11/06/09
 Collection Date: 09/29/09 15:05
 Date Received: 09/30/09
 Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|-------------------------------------|--------|-------|------------|-------|-------------|-----------|------------------------|
| MAJOR IONS | | | | | | | |
| Chloride | 34 | mg/L | | 1 | | E300.0 | 10/05/09 23:34 / ljl |
| Fluoride | 0.1 | mg/L | | 0.1 | | A4500-F C | 10/06/09 13:06 / dvg |
| Nitrogen, Ammonia as N | 0.08 | mg/L | | 0.05 | | E350.1 | 10/01/09 15:28 / eli-b |
| Nitrogen, Nitrate+Nitrite as N | 123 | mg/L | D | 1 | | E353.2 | 10/02/09 13:06 / eli-b |
| Sulfate | 1200 | mg/L | | 1 | | E300.0 | 10/07/09 13:05 / ljl |
| PHYSICAL PROPERTIES | | | | | | | |
| pH | 7.53 | s.u. | | 0.01 | | A4500-H B | 09/30/09 15:30 / dd |
| Solids, Total Dissolved TDS @ 180 C | 2520 | mg/L | | 10 | | A2540 C | 10/02/09 13:58 / th |
| METALS - DISSOLVED | | | | | | | |
| Aluminum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 16:06 / ts |
| Antimony | ND | mg/L | | 0.003 | | E200.8 | 10/01/09 16:06 / ts |
| Arsenic | ND | mg/L | | 0.01 | | E200.8 | 10/01/09 16:06 / ts |
| Beryllium | ND | mg/L | | 0.004 | | E200.8 | 10/01/09 16:06 / ts |
| Cadmium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 16:06 / ts |
| Lead | ND | mg/L | | 0.005 | | E200.8 | 10/01/09 16:06 / ts |
| Manganese | ND | mg/L | | 0.05 | | E200.8 | 10/01/09 16:06 / ts |
| Molybdenum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 16:06 / ts |
| Nickel | ND | mg/L | | 0.05 | | E200.8 | 10/01/09 16:06 / ts |
| Selenium | ND | mg/L | | 0.005 | | E200.8 | 10/01/09 16:06 / ts |
| Thallium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 16:06 / ts |
| Uranium | 2.46 | mg/L | | 0.001 | | E200.8 | 10/01/09 16:06 / ts |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | -0.02 | pCi/L | | | | E903.0 | 10/29/09 05:08 / trs |
| Radium 226 precision (±) | 0.08 | pCi/L | | | | E903.0 | 10/29/09 05:08 / trs |
| Radium 226 MDC | 0.15 | pCi/L | | | | E903.0 | 10/29/09 05:08 / trs |
| Radium 228 | 0.5 | pCi/L | | | | RA-05 | 10/20/09 10:22 / plj |
| Radium 228 precision (±) | 0.8 | pCi/L | | | | RA-05 | 10/20/09 10:22 / plj |
| Radium 228 MDC | 1.3 | pCi/L | | | | RA-05 | 10/20/09 10:22 / plj |
| Thorium 230 | 0.05 | pCi/L | | | | E907.0 | 10/16/09 13:16 / dmf |
| Thorium 230 precision (±) | 0.1 | pCi/L | | | | E907.0 | 10/16/09 13:16 / dmf |
| Thorium 230 MDC | 0.2 | pCi/L | | | | E907.0 | 10/16/09 13:16 / dmf |
| FIELD PARAMETERS | | | | | | | |
| pH | 6.95 | s.u. | | | | FIELD | 09/29/09 15:05 / *** |

*** Performed by Sampler

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: Western Nuclear
 Project: Split Rock Mill Site GWPP
 Lab ID: C09091173-006
 Client Sample ID: SWAB-12R

Report Date: 11/06/09
 Collection Date: 09/29/09 13:44
 Date Received: 09/30/09
 Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|-------------------------------------|--------|-------|------------|-------|-------------|-----------|------------------------|
| MAJOR IONS | | | | | | | |
| Chloride | 15 | mg/L | | 1 | | E300.0 | 10/05/09 23:49 / ljl |
| Fluoride | 0.2 | mg/L | | 0.1 | | A4500-F C | 10/06/09 13:09 / dvq |
| Nitrogen, Ammonia as N | 0.05 | mg/L | | 0.05 | | E350.1 | 10/01/09 15:29 / eli-b |
| Nitrogen, Nitrate+Nitrite as N | 0.5 | mg/L | | 0.2 | | E353.2 | 10/02/09 13:07 / eli-b |
| Sulfate | 77 | mg/L | | 1 | | E300.0 | 10/05/09 23:49 / ljl |
| PHYSICAL PROPERTIES | | | | | | | |
| pH | 7.87 | s.u. | | 0.01 | | A4500-H B | 09/30/09 15:31 / dd |
| Solids, Total Dissolved TDS @ 180 C | 310 | mg/L | | 10 | | A2540 C | 10/02/09 13:59 / th |
| METALS - DISSOLVED | | | | | | | |
| Aluminum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 16:40 / ts |
| Antimony | ND | mg/L | | 0.003 | | E200.8 | 10/01/09 16:40 / ts |
| Arsenic | ND | mg/L | | 0.01 | | E200.8 | 10/01/09 16:40 / ts |
| Beryllium | ND | mg/L | | 0.004 | | E200.8 | 10/01/09 16:40 / ts |
| Cadmium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 16:40 / ts |
| Lead | ND | mg/L | | 0.005 | | E200.8 | 10/01/09 16:40 / ts |
| Manganese | ND | mg/L | | 0.05 | | E200.8 | 10/01/09 16:40 / ts |
| Molybdenum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 16:40 / ts |
| Nickel | ND | mg/L | | 0.05 | | E200.8 | 10/01/09 16:40 / ts |
| Selenium | ND | mg/L | | 0.005 | | E200.8 | 10/01/09 16:40 / ts |
| Thallium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 16:40 / ts |
| Uranium | 0.032 | mg/L | | 0.001 | | E200.8 | 10/01/09 16:40 / ts |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | -0.1 | pCi/L | U | | | E903.0 | 10/29/09 05:08 / trs |
| Radium 226 precision (±) | 0.07 | pCi/L | | | | E903.0 | 10/29/09 05:08 / trs |
| Radium 226 MDC | 0.16 | pCi/L | | | | E903.0 | 10/29/09 05:08 / trs |
| Radium 228 | 0.6 | pCi/L | U | | | RA-05 | 10/20/09 10:22 / plj |
| Radium 228 precision (±) | 0.8 | pCi/L | | | | RA-05 | 10/20/09 10:22 / plj |
| Radium 228 MDC | 1.3 | pCi/L | | | | RA-05 | 10/20/09 10:22 / plj |
| Thorium 230 | 0.05 | pCi/L | U | | | E907.0 | 10/16/09 13:16 / dmf |
| Thorium 230 precision (±) | 0.09 | pCi/L | | | | E907.0 | 10/16/09 13:16 / dmf |
| Thorium 230 MDC | 0.2 | pCi/L | | | | E907.0 | 10/16/09 13:16 / dmf |
| FIELD PARAMETERS | | | | | | | |
| pH | 7.31 | s.u. | | | | FIELD | 09/29/09 13:44 / *** |

*** Performed by Sampler

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Western Nuclear
 Project: Split Rock Mill Site GWPP
 Lab ID: C09091173-016
 Client Sample ID: SWAB-2

Report Date: 11/06/09
 Collection Date: 09/29/09 14:47
 Date Received: 09/30/09
 Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|--|--------|-------|------------|-------|-------------|-----------|------------------------|
| MAJOR IONS | | | | | | | |
| Chloride | 39 | mg/L | | 1 | | E300.0 | 10/05/09 22:39 / ljl |
| Fluoride | 0.4 | mg/L | | 0.1 | | A4500-F C | 10/06/09 13:55 / dvg |
| Nitrogen, Ammonia as N | 10.1 | mg/L | D | 0.5 | | E350.1 | 10/01/09 16:23 / eli-b |
| Nitrogen, Nitrate+Nitrite as N | 330 | mg/L | D | 1 | | E353.2 | 10/02/09 13:19 / eli-b |
| Sulfate | 1470 | mg/L | D | 2 | | E300.0 | 10/05/09 22:39 / ljl |
| PHYSICAL PROPERTIES | | | | | | | |
| pH | 7.27 | s.u. | | 0.01 | | A4500-H B | 09/30/09 16:03 / dd |
| Solids, Total Dissolved TDS @ 180 C | 4110 | mg/L | | 10 | | A2540 C | 10/02/09 15:35 / th |
| METALS - DISSOLVED | | | | | | | |
| Aluminum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 19:37 / ts |
| Antimony | ND | mg/L | | 0.003 | | E200.8 | 10/01/09 19:37 / ts |
| Arsenic | ND | mg/L | | 0.01 | | E200.8 | 10/01/09 19:37 / ts |
| Beryllium | ND | mg/L | | 0.004 | | E200.8 | 10/01/09 19:37 / ts |
| Cadmium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 19:37 / ts |
| Lead | ND | mg/L | | 0.005 | | E200.8 | 10/01/09 19:37 / ts |
| Manganese | 4.11 | mg/L | | 0.05 | | E200.8 | 10/01/09 19:37 / ts |
| Molybdenum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 19:37 / ts |
| Nickel | ND | mg/L | | 0.05 | | E200.8 | 10/01/09 19:37 / ts |
| Selenium | 0.006 | mg/L | | 0.005 | | E200.8 | 10/01/09 19:37 / ts |
| Thallium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 19:37 / ts |
| Uranium | 1.32 | mg/L | | 0.001 | | E200.8 | 10/01/09 19:37 / ts |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | -0.04 | pCi/L | U | | | E903.0 | 10/28/09 13:22 / trs |
| Radium 226 precision (±) | 0.09 | pCi/L | | | | E903.0 | 10/28/09 13:22 / trs |
| Radium 226 MDC | 0.18 | pCi/L | | | | E903.0 | 10/28/09 13:22 / trs |
| Radium 228 | 1 | pCi/L | U | | | RA-05 | 10/20/09 12:33 / plj |
| Radium 228 precision (±) | 0.8 | pCi/L | | | | RA-05 | 10/20/09 12:33 / plj |
| Radium 228 MDC | 1.2 | pCi/L | | | | RA-05 | 10/20/09 12:33 / plj |
| Thorium 230 | 0.1 | pCi/L | U | | | E907.0 | 10/16/09 17:26 / dmf |
| Thorium 230 precision (±) | 0.2 | pCi/L | | | | E907.0 | 10/16/09 17:26 / dmf |
| Thorium 230 MDC | 0.3 | pCi/L | | | | E907.0 | 10/16/09 17:26 / dmf |
| - See Case Narrative regarding Th230 analysis. | | | | | | | |
| FIELD PARAMETERS | | | | | | | |
| pH | 6.49 | s.u. | | | | FIELD | 09/29/09 14:47 / *** |
| *** Performed by Sampler | | | | | | | |

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: Western Nuclear
 Project: Split Rock Mill Site GWPP
 Lab ID: C09091173-018
 Client Sample ID: SWAB-22

Report Date: 11/06/09
 Collection Date: 09/29/09 11:44
 Date Received: 09/30/09
 Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|-------------------------------------|--------|-------|------------|-------|-------------|--------|------------------------|
| MAJOR IONS | | | | | | | |
| Chloride | 14 | mg/L | | 1 | E300.0 | | 10/05/09 23:14 / ljl |
| Fluoride | 0.4 | mg/L | | 0.1 | A4500-F C | | 10/06/09 14:05 / dvg |
| Nitrogen, Ammonia as N | 0.32 | mg/L | | 0.05 | E350.1 | | 10/01/09 15:54 / eli-b |
| Nitrogen, Nitrate+Nitrite as N | ND | mg/L | | 0.2 | E353.2 | | 10/02/09 13:22 / eli-b |
| Sulfate | 35 | mg/L | | 1 | E300.0 | | 10/05/09 23:14 / ljl |
| PHYSICAL PROPERTIES | | | | | | | |
| pH | 7.53 | s.u. | | 0.01 | A4500-H B | | 09/30/09 16:06 / dd |
| Solids, Total Dissolved TDS @ 180 C | 299 | mg/L | | 10 | A2540 C | | 10/02/09 15:35 / th |
| METALS - DISSOLVED | | | | | | | |
| Aluminum | ND | mg/L | | 0.1 | E200.8 | | 10/07/09 14:46 / sml |
| Antimony | ND | mg/L | | 0.003 | E200.8 | | 10/07/09 14:46 / sml |
| Arsenic | ND | mg/L | | 0.01 | E200.8 | | 10/06/09 05:00 / sml |
| Beryllium | ND | mg/L | | 0.004 | E200.8 | | 10/06/09 05:00 / sml |
| Cadmium | ND | mg/L | | 0.001 | E200.8 | | 10/06/09 05:00 / sml |
| Lead | ND | mg/L | | 0.005 | E200.8 | | 10/06/09 05:00 / sml |
| Manganese | 0.13 | mg/L | | 0.05 | E200.8 | | 10/06/09 05:00 / sml |
| Molybdenum | ND | mg/L | | 0.1 | E200.8 | | 10/06/09 05:00 / sml |
| Nickel | ND | mg/L | | 0.05 | E200.8 | | 10/06/09 05:00 / sml |
| Selenium | ND | mg/L | | 0.005 | E200.8 | | 10/06/09 05:00 / sml |
| Thallium | ND | mg/L | | 0.001 | E200.8 | | 10/06/09 05:00 / sml |
| Uranium | 0.013 | mg/L | | 0.001 | E200.8 | | 10/06/09 05:00 / sml |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.006 | pCi/L | U | | E903.0 | | 10/28/09 13:22 / trs |
| Radium 226 precision (±) | 0.11 | pCi/L | | | E903.0 | | 10/28/09 13:22 / trs |
| Radium 226 MDC | 0.20 | pCi/L | | | E903.0 | | 10/28/09 13:22 / trs |
| Radium 228 | 0.08 | pCi/L | U | | RA-05 | | 10/20/09 12:33 / plj |
| Radium 228 precision (±) | 0.8 | pCi/L | | | RA-05 | | 10/20/09 12:33 / plj |
| Radium 228 MDC | 1.4 | pCi/L | | | RA-05 | | 10/20/09 12:33 / plj |
| Thorium 230 | 0.02 | pCi/L | U | | E907.0 | | 10/16/09 17:26 / dmf |
| Thorium 230 precision (±) | 0.1 | pCi/L | | | E907.0 | | 10/16/09 17:26 / dmf |
| Thorium 230 MDC | 0.2 | pCi/L | | | E907.0 | | 10/16/09 17:26 / dmf |
| FIELD PARAMETERS | | | | | | | |
| pH | 7.10 | s.u. | | | FIELD | | 09/29/09 11:44 / *** |
| *** Performed by Sampler | | | | | | | |

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level.
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration. U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Western Nuclear
 Project: Split Rock Mill Site GWPP
 Lab ID: C09091173-019
 Client Sample ID: SWAB-29

Report Date: 11/06/09
 Collection Date: 09/30/09 08:28
 Date Received: 09/30/09
 Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|--|--------|-------|------------|-------|-------------|-----------|------------------------|
| MAJOR IONS | | | | | | | |
| Chloride | 6 | mg/L | | 1 | | E300.0 | 10/05/09 23:31 / ljl |
| Fluoride | 0.2 | mg/L | | 0.1 | | A4500-F C | 10/06/09 14:08 / dvg |
| Nitrogen, Ammonia as N | 0.14 | mg/L | | 0.05 | | E350.1 | 10/01/09 15:55 / eli-b |
| Nitrogen, Nitrate+Nitrite as N | ND | mg/L | | 0.2 | | E353.2 | 10/02/09 13:23 / eli-b |
| Sulfate | 38 | mg/L | | 1 | | E300.0 | 10/05/09 23:31 / ljl |
| PHYSICAL PROPERTIES | | | | | | | |
| pH | 7.32 | s.u. | | 0.01 | | A4500-H B | 09/30/09 16:08 / dd |
| Solids, Total Dissolved TDS @ 180 C | 289 | mg/L | | 10 | | A2540 C | 10/02/09 15:37 / th |
| METALS - DISSOLVED | | | | | | | |
| Aluminum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 19:50 / ts |
| Antimony | ND | mg/L | | 0.003 | | E200.8 | 10/01/09 19:50 / ts |
| Arsenic | ND | mg/L | | 0.01 | | E200.8 | 10/01/09 19:50 / ts |
| Beryllium | ND | mg/L | | 0.004 | | E200.8 | 10/01/09 19:50 / ts |
| Cadmium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 19:50 / ts |
| Lead | ND | mg/L | | 0.005 | | E200.8 | 10/01/09 19:50 / ts |
| Manganese | 0.09 | mg/L | | 0.05 | | E200.8 | 10/01/09 19:50 / ts |
| Molybdenum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 19:50 / ts |
| Nickel | ND | mg/L | | 0.05 | | E200.8 | 10/01/09 19:50 / ts |
| Selenium | ND | mg/L | | 0.005 | | E200.8 | 10/01/09 19:50 / ts |
| Thallium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 19:50 / ts |
| Uranium | 0.021 | mg/L | | 0.001 | | E200.8 | 10/01/09 19:50 / ts |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.11 | pCi/L | | | | E903.0 | 10/29/09 17:52 / trs |
| Radium 226 precision (±) | 0.07 | pCi/L | | | | E903.0 | 10/29/09 17:52 / trs |
| Radium 226 MDC | 0.1 | pCi/L | | | | E903.0 | 10/29/09 17:52 / trs |
| Radium 228 | 0.1 | pCi/L | | U | | RA-05 | 10/20/09 14:36 / plj |
| Radium 228 precision (±) | 0.9 | pCi/L | | | | RA-05 | 10/20/09 14:36 / plj |
| Radium 228 MDC | 1.5 | pCi/L | | | | RA-05 | 10/20/09 14:36 / plj |
| Thorium 230 | 0.1 | pCi/L | | U | | E907.0 | 10/16/09 17:26 / dmf |
| Thorium 230 precision (±) | 0.2 | pCi/L | | | | E907.0 | 10/16/09 17:26 / dmf |
| Thorium 230 MDC | 0.3 | pCi/L | | | | E907.0 | 10/16/09 17:26 / dmf |
| - See Case Narrative regarding Th230 analysis. | | | | | | | |
| FIELD PARAMETERS | | | | | | | |
| pH | 6.82 | s.u. | | | | FIELD | 09/30/09 08:28 / *** |
| *** Performed by Sampler | | | | | | | |

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Western Nuclear
 Project: Split Rock Mill Site GWPP
 Lab ID: C09091173-020
 Client Sample ID: SWAB-31

Report Date: 11/06/09
 Collection Date: 09/30/09 08:47
 Date Received: 09/30/09
 Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|-------------------------------------|--------|-------|------------|-------|-------------|-----------|------------------------|
| MAJOR IONS | | | | | | | |
| Chloride | 8 | mg/L | | 1 | | E300.0 | 10/05/09 23:48 / ljl |
| Fluoride | 0.3 | mg/L | | 0.1 | | A4500-F C | 10/06/09 14:11 / dvq |
| Nitrogen, Ammonia as N | ND | mg/L | | 0.05 | | E350.1 | 10/01/09 15:56 / eli-b |
| Nitrogen, Nitrate+Nitrite as N | 1.5 | mg/L | | 0.2 | | E353.2 | 10/02/09 13:45 / eli-b |
| Sulfate | 27 | mg/L | | 1 | | E300.0 | 10/05/09 23:48 / ljl |
| PHYSICAL PROPERTIES | | | | | | | |
| pH | 8.04 | s.u. | | 0.01 | | A4500-H B | 09/30/09 16:09 / dd |
| Solids, Total Dissolved TDS @ 180 C | 228 | mg/L | | 10 | | A2540 C | 10/02/09 15:37 / th |
| METALS - DISSOLVED | | | | | | | |
| Aluminum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 20:24 / ts |
| Antimony | ND | mg/L | | 0.003 | | E200.8 | 10/01/09 20:24 / ts |
| Arsenic | ND | mg/L | | 0.01 | | E200.8 | 10/01/09 20:24 / ts |
| Beryllium | ND | mg/L | | 0.004 | | E200.8 | 10/05/09 18:42 / sml |
| Cadmium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 20:24 / ts |
| Lead | ND | mg/L | | 0.005 | | E200.8 | 10/01/09 20:24 / ts |
| Manganese | ND | mg/L | | 0.05 | | E200.8 | 10/01/09 20:24 / ts |
| Molybdenum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 20:24 / ts |
| Nickel | ND | mg/L | | 0.05 | | E200.8 | 10/01/09 20:24 / ts |
| Selenium | 0.010 | mg/L | | 0.005 | | E200.8 | 10/01/09 20:24 / ts |
| Thallium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 20:24 / ts |
| Uranium | 0.030 | mg/L | | 0.001 | | E200.8 | 10/01/09 20:24 / ts |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.17 | pCi/L | | | | E903.0 | 10/29/09 22:10 / trs |
| Radium 226 precision (±) | 0.07 | pCi/L | | | | E903.0 | 10/29/09 22:10 / trs |
| Radium 226 MDC | 0.09 | pCi/L | | | | E903.0 | 10/29/09 22:10 / trs |
| Radium 228 | 0.9 | pCi/L | | | | RA-05 | 10/20/09 14:36 / plj |
| Radium 228 precision (±) | 0.9 | pCi/L | | | | RA-05 | 10/20/09 14:36 / plj |
| Radium 228 MDC | 1.4 | pCi/L | | | | RA-05 | 10/20/09 14:36 / plj |
| Thorium 230 | 0.04 | pCi/L | | | U | E907.0 | 10/16/09 17:26 / dmf |
| Thorium 230 precision (±) | 0.1 | pCi/L | | | | E907.0 | 10/16/09 17:26 / dmf |
| Thorium 230 MDC | 0.2 | pCi/L | | | | E907.0 | 10/16/09 17:26 / dmf |
| FIELD PARAMETERS | | | | | | | |
| pH | 7.67 | s.u. | | | | FIELD | 09/30/09 08:47 / *** |

*** Performed by Sampler

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level.
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration. U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Western Nuclear
 Project: Split Rock Mill Site GWPP
 Lab ID: C09091173-021
 Client Sample ID: SWAB-32

Report Date: 11/06/09
 Collection Date: 09/30/09 09:05
 Date Received: 09/30/09
 Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|-------------------------------------|--------|-------|------------|-------|-------------|-----------|------------------------|
| MAJOR IONS | | | | | | | |
| Chloride | 11 | mg/L | | 1 | | E300.0 | 10/06/09 00:41 / ljl |
| Fluoride | 0.4 | mg/L | | 0.1 | | A4500-F C | 10/06/09 14:16 / dvg |
| Nitrogen, Ammonia as N | ND | mg/L | | 0.05 | | E350.1 | 10/01/09 15:57 / eli-b |
| Nitrogen, Nitrate+Nitrite as N | 1.4 | mg/L | | 0.2 | | E353.2 | 10/02/09 13:49 / eli-b |
| Sulfate | 47 | mg/L | | 1 | | E300.0 | 10/06/09 00:41 / ljl |
| PHYSICAL PROPERTIES | | | | | | | |
| pH | 7.86 | s.u. | | 0.01 | | A4500-H B | 10/01/09 11:05 / dd |
| Solids, Total Dissolved TDS @ 180 C | 290 | mg/L | | 10 | | A2540 C | 10/02/09 15:37 / th |
| METALS - DISSOLVED | | | | | | | |
| Aluminum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 20:31 / ts |
| Antimony | ND | mg/L | | 0.003 | | E200.8 | 10/01/09 20:31 / ts |
| Arsenic | ND | mg/L | | 0.01 | | E200.8 | 10/01/09 20:31 / ts |
| Beryllium | ND | mg/L | | 0.004 | | E200.8 | 10/05/09 18:49 / smf |
| Cadmium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 20:31 / ts |
| Lead | ND | mg/L | | 0.005 | | E200.8 | 10/01/09 20:31 / ts |
| Manganese | ND | mg/L | | 0.05 | | E200.8 | 10/01/09 20:31 / ts |
| Molybdenum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 20:31 / ts |
| Nickel | ND | mg/L | | 0.05 | | E200.8 | 10/01/09 20:31 / ts |
| Selenium | 0.010 | mg/L | | 0.005 | | E200.8 | 10/01/09 20:31 / ts |
| Thallium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 20:31 / ts |
| Uranium | 0.122 | mg/L | | 0.001 | | E200.8 | 10/01/09 20:31 / ts |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.08 | pCi/L | | U | | E903.0 | 10/30/09 02:15 / trs |
| Radium 226 precision (±) | 0.06 | pCi/L | | | | E903.0 | 10/30/09 02:15 / trs |
| Radium 226 MDC | 0.09 | pCi/L | | | | E903.0 | 10/30/09 02:15 / trs |
| Radium 228 | -0.1 | pCi/L | | U | | RA-05 | 10/20/09 14:36 / plj |
| Radium 228 precision (±) | 0.9 | pCi/L | | | | RA-05 | 10/20/09 14:36 / plj |
| Radium 228 MDC | 1.5 | pCi/L | | | | RA-05 | 10/20/09 14:36 / plj |
| Thorium 230 | 0.02 | pCi/L | | U | | E907.0 | 10/16/09 17:26 / dmf |
| Thorium 230 precision (±) | 0.1 | pCi/L | | | | E907.0 | 10/16/09 17:26 / dmf |
| Thorium 230 MDC | 0.2 | pCi/L | | | | E907.0 | 10/16/09 17:26 / dmf |
| FIELD PARAMETERS | | | | | | | |
| pH | 7.63 | s.u. | | | | FIELD | 09/30/09 09:05 / *** |
| *** Performed by Sampler | | | | | | | |

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level.
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration. U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Western Nuclear
 Project: Split Rock Mill Site GWPP
 Lab ID: C09091173-017
 Client Sample ID: SWAB-4

Report Date: 11/06/09
 Collection Date: 09/29/09 13:23
 Date Received: 09/30/09
 Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|-------------------------------------|--------|-------|------------|-------|-------------|-----------|------------------------|
| MAJOR IONS | | | | | | | |
| Chloride | 34 | mg/L | | 1 | | E300.0 | 10/05/09 22:56 / ljl |
| Fluoride | 0.3 | mg/L | | 0.1 | | A4500-F C | 10/06/09 13:58 / dvg |
| Nitrogen, Ammonia as N | 2.35 | mg/L | | 0.05 | | E350.1 | 10/01/09 15:52 / eli-b |
| Nitrogen, Nitrate+Nitrite as N | 32.2 | mg/L | | 0.2 | | E353.2 | 10/02/09 13:20 / eli-b |
| Sulfate | 486 | mg/L | | 1 | | E300.0 | 10/05/09 22:56 / ljl |
| PHYSICAL PROPERTIES | | | | | | | |
| pH | 7.51 | s.u. | | 0.01 | | A4500-H B | 09/30/09 16:05 / dd |
| Solids, Total Dissolved TDS @ 180 C | 1160 | mg/L | | 10 | | A2540 C | 10/02/09 15:35 / th |
| METALS - DISSOLVED | | | | | | | |
| Aluminum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 19:44 / ts |
| Antimony | ND | mg/L | | 0.003 | | E200.8 | 10/01/09 19:44 / ts |
| Arsenic | 0.01 | mg/L | | 0.01 | | E200.8 | 10/01/09 19:44 / ts |
| Beryllium | ND | mg/L | | 0.004 | | E200.8 | 10/01/09 19:44 / ts |
| Cadmium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 19:44 / ts |
| Lead | ND | mg/L | | 0.005 | | E200.8 | 10/01/09 19:44 / ts |
| Manganese | 0.24 | mg/L | | 0.05 | | E200.8 | 10/01/09 19:44 / ts |
| Molybdenum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 19:44 / ts |
| Nickel | ND | mg/L | | 0.05 | | E200.8 | 10/01/09 19:44 / ts |
| Selenium | 0.008 | mg/L | | 0.005 | | E200.8 | 10/01/09 19:44 / ts |
| Thallium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 19:44 / ts |
| Uranium | 1.01 | mg/L | | 0.001 | | E200.8 | 10/01/09 19:44 / ts |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.59 | pCi/L | | | | E903.0 | 10/28/09 13:22 / trs |
| Radium 226 precision (±) | 0.18 | pCi/L | | | | E903.0 | 10/28/09 13:22 / trs |
| Radium 226 MDC | 0.18 | pCi/L | | | | E903.0 | 10/28/09 13:22 / trs |
| Radium 228 | 2.6 | pCi/L | | | | RA-05 | 10/20/09 12:33 / plj |
| Radium 228 precision (±) | 0.9 | pCi/L | | | | RA-05 | 10/20/09 12:33 / plj |
| Radium 228 MDC | 1.3 | pCi/L | | | | RA-05 | 10/20/09 12:33 / plj |
| Thorium 230 | 0.08 | pCi/L | | | | E907.0 | 10/16/09 17:26 / dmf |
| Thorium 230 precision (±) | 0.1 | pCi/L | | | | E907.0 | 10/16/09 17:26 / dmf |
| Thorium 230 MDC | 0.2 | pCi/L | | | | E907.0 | 10/16/09 17:26 / dmf |
| FIELD PARAMETERS | | | | | | | |
| pH | 7.11 | s.u. | | | | FIELD | 09/29/09 13:23 / *** |

*** Performed by Sampler

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Western Nuclear
 Project: Split Rock Mill Site GWPP
 Lab ID: C09091173-001
 Client Sample ID: WN-1

Report Date: 11/06/09
 Collection Date: 09/29/09 14:08
 Date Received: 09/30/09
 Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|--|--------|-------|------------|-------|-------------|-----------|------------------------|
| MAJOR IONS | | | | | | | |
| Chloride | 35 | mg/L | | 1 | | E300.0 | 10/05/09 22:01 / ljl |
| Fluoride | 1.1 | mg/L | | 0.1 | | A4500-F C | 10/06/09 12:32 / dvg |
| Nitrogen, Ammonia as N | 122 | mg/L | D | 5 | | E350.1 | 10/02/09 14:37 / eli-b |
| Nitrogen, Nitrate+Nitrite as N | 64.4 | mg/L | | 0.2 | | E353.2 | 10/02/09 11:17 / eli-b |
| Sulfate | 2150 | mg/L | | 1 | | E300.0 | 10/05/09 22:01 / ljl |
| PHYSICAL PROPERTIES | | | | | | | |
| pH | 6.50 | s.u. | | 0.01 | | A4500-H B | 09/30/09 15:20 / dd |
| Solids, Total Dissolved TDS @ 180 C | 3060 | mg/L | | 10 | | A2540 C | 10/02/09 13:57 / th |
| METALS - DISSOLVED | | | | | | | |
| Aluminum | 0.2 | mg/L | | 0.1 | | E200.8 | 10/01/09 15:26 / ts |
| Antimony | ND | mg/L | | 0.003 | | E200.8 | 10/01/09 15:26 / ts |
| Arsenic | ND | mg/L | | 0.01 | | E200.8 | 10/01/09 15:26 / ts |
| Beryllium | ND | mg/L | | 0.004 | | E200.8 | 10/01/09 15:26 / ts |
| Cadmium | 0.004 | mg/L | | 0.001 | | E200.8 | 10/01/09 15:26 / ts |
| Lead | ND | mg/L | | 0.005 | | E200.8 | 10/01/09 15:26 / ts |
| Manganese | 21.2 | mg/L | | 0.05 | | E200.8 | 10/01/09 15:26 / ts |
| Molybdenum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 15:26 / ts |
| Nickel | 0.11 | mg/L | | 0.05 | | E200.8 | 10/01/09 15:26 / ts |
| Selenium | 0.017 | mg/L | | 0.005 | | E200.8 | 10/01/09 15:26 / ts |
| Thallium | 0.016 | mg/L | | 0.001 | | E200.8 | 10/01/09 15:26 / ts |
| Uranium | 1.79 | mg/L | | 0.001 | | E200.8 | 10/01/09 15:26 / ts |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.58 | pCi/L | | | | E903.0 | 10/29/09 05:08 / trs |
| Radium 226 precision (±) | 0.13 | pCi/L | | | | E903.0 | 10/29/09 05:08 / trs |
| Radium 226 MDC | 0.14 | pCi/L | | | | E903.0 | 10/29/09 05:08 / trs |
| Radium 228 | 2.2 | pCi/L | | | | RA-05 | 10/20/09 10:23 / plj |
| Radium 228 precision (±) | 0.8 | pCi/L | | | | RA-05 | 10/20/09 10:23 / plj |
| Radium 228 MDC | 1.2 | pCi/L | | | | RA-05 | 10/20/09 10:23 / plj |
| Thorium 230 | 0.02 | pCi/L | | U | | E907.0 | 10/16/09 08:57 / dmf |
| Thorium 230 precision (±) | 0.1 | pCi/L | | | | E907.0 | 10/16/09 08:57 / dmf |
| Thorium 230 MDC | 0.3 | pCi/L | | | | E907.0 | 10/16/09 08:57 / dmf |
| - See Case Narrative regarding Th230 analysis. | | | | | | | |
| FIELD PARAMETERS | | | | | | | |
| pH | 5.88 | s.u. | | | | FIELD | 09/29/09 14:08 / *** |
| *** Performed by Sampler | | | | | | | |

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level.
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration. D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Western Nuclear
 Project: Split Rock Mill Site GWPP
 Lab ID: C09091173-023
 Client Sample ID: WN-1R

Report Date: 11/06/09
 Collection Date: 09/29/09 14:08
 Date Received: 09/30/09
 Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|-------------------------------------|--------|-------|------------|-------|-------------|-----------|------------------------|
| MAJOR IONS | | | | | | | |
| Chloride | 39 | mg/L | | 1 | | E300.0 | 10/06/09 01:50 / ljl |
| Fluoride | 1.1 | mg/L | | 0.1 | | A4500-F C | 10/06/09 14:32 / dvq |
| Nitrogen, Ammonia as N | 122 | mg/L | D | 5 | | E350.1 | 10/02/09 14:39 / eli-b |
| Nitrogen, Nitrate+Nitrite as N | 62.0 | mg/L | | 0.2 | | E353.2 | 10/02/09 13:24 / eli-b |
| Sulfate | 2160 | mg/L | D | 2 | | E300.0 | 10/06/09 01:50 / ljl |
| PHYSICAL PROPERTIES | | | | | | | |
| pH | 6.60 | s.u. | | 0.01 | | A4500-H B | 10/01/09 11:09 / dd |
| Solids, Total Dissolved TDS @ 180 C | 3140 | mg/L | | 10 | | A2540 C | 10/02/09 15:39 / th |
| METALS - DISSOLVED | | | | | | | |
| Aluminum | 0.2 | mg/L | | 0.1 | | E200.8 | 10/01/09 20:45 / ts |
| Antimony | ND | mg/L | | 0.003 | | E200.8 | 10/01/09 20:45 / ts |
| Arsenic | ND | mg/L | | 0.01 | | E200.8 | 10/01/09 20:45 / ts |
| Beryllium | ND | mg/L | | 0.004 | | E200.8 | 10/05/09 19:29 / sml |
| Cadmium | 0.004 | mg/L | | 0.001 | | E200.8 | 10/01/09 20:45 / ts |
| Lead | ND | mg/L | | 0.005 | | E200.8 | 10/01/09 20:45 / ts |
| Manganese | 20.2 | mg/L | | 0.05 | | E200.8 | 10/06/09 18:01 / sml |
| Molybdenum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 20:45 / ts |
| Nickel | 0.10 | mg/L | | 0.05 | | E200.8 | 10/01/09 20:45 / ts |
| Selenium | 0.018 | mg/L | | 0.005 | | E200.8 | 10/01/09 20:45 / ts |
| Thallium | 0.016 | mg/L | | 0.001 | | E200.8 | 10/01/09 20:45 / ts |
| Uranium | 1.88 | mg/L | | 0.001 | | E200.8 | 10/01/09 20:45 / ts |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.62 | pCi/L | | | | E903.0 | 10/30/09 10:23 / trs |
| Radium 226 precision (±) | 0.10 | pCi/L | | | | E903.0 | 10/30/09 10:23 / trs |
| Radium 226 MDC | 0.08 | pCi/L | | | | E903.0 | 10/30/09 10:23 / trs |
| Radium 228 | 1.5 | pCi/L | | | | RA-05 | 10/20/09 14:36 / plj |
| Radium 228 precision (±) | 0.9 | pCi/L | | | | RA-05 | 10/20/09 14:36 / plj |
| Radium 228 MDC | 1.3 | pCi/L | | | | RA-05 | 10/20/09 14:36 / plj |
| Thorium 230 | 0.0008 | pCi/L | U | | | E907.0 | 10/16/09 17:26 / dmf |
| Thorium 230 precision (±) | 0.07 | pCi/L | | | | E907.0 | 10/16/09 17:26 / dmf |
| Thorium 230 MDC | 0.2 | pCi/L | | | | E907.0 | 10/16/09 17:26 / dmf |
| FIELD PARAMETERS | | | | | | | |
| pH | 5.88 | s.u. | | | | FIELD | 09/29/09 14:08 / *** |
| *** Performed by Sampler | | | | | | | |

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: Western Nuclear
 Project: Split Rock Mill Site GWPP
 Lab ID: C09091173-002
 Client Sample ID: WN-4R

Report Date: 11/06/09
 Collection Date: 09/29/09 11:25
 Date Received: 09/30/09
 Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|--|--------|-------|------------|-------|-------------|-----------|------------------------|
| MAJOR IONS | | | | | | | |
| Chloride | 108 | mg/L | | 1 | | E300.0 | 10/05/09 22:17 / ljl |
| Fluoride | 6.0 | mg/L | | 0.1 | | A4500-F C | 10/06/09 12:36 / dvq |
| Nitrogen, Ammonia as N | 263 | mg/L | D | 5 | | E350.1 | 10/02/09 14:38 / eli-b |
| Nitrogen, Nitrate+Nitrite as N | 264 | mg/L | D | 1 | | E353.2 | 10/02/09 11:18 / eli-b |
| Sulfate | 3160 | mg/L | | 1 | | E300.0 | 10/05/09 22:17 / ljl |
| PHYSICAL PROPERTIES | | | | | | | |
| pH | 6.26 | s.u. | | 0.01 | | A4500-H B | 09/30/09 15:21 / dd |
| Solids, Total Dissolved TDS @ 180 C | 4730 | mg/L | | 10 | | A2540 C | 10/02/09 13:57 / th |
| METALS - DISSOLVED | | | | | | | |
| Aluminum | 1.8 | mg/L | | 0.1 | | E200.8 | 10/01/09 15:33 / ts |
| Antimony | ND | mg/L | | 0.003 | | E200.8 | 10/01/09 15:33 / ts |
| Arsenic | ND | mg/L | | 0.01 | | E200.8 | 10/01/09 15:33 / ts |
| Beryllium | ND | mg/L | | 0.004 | | E200.8 | 10/01/09 15:33 / ts |
| Cadmium | 0.024 | mg/L | | 0.001 | | E200.8 | 10/01/09 15:33 / ts |
| Lead | ND | mg/L | | 0.005 | | E200.8 | 10/01/09 15:33 / ts |
| Manganese | 90.9 | mg/L | | 0.05 | | E200.8 | 10/30/09 03:50 / sml |
| Molybdenum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 15:33 / ts |
| Nickel | 0.53 | mg/L | | 0.05 | | E200.8 | 10/01/09 15:33 / ts |
| Selenium | 0.032 | mg/L | | 0.005 | | E200.8 | 10/01/09 15:33 / ts |
| Thallium | 0.001 | mg/L | | 0.001 | | E200.8 | 10/01/09 15:33 / ts |
| Uranium | 0.276 | mg/L | | 0.001 | | E200.8 | 10/01/09 15:33 / ts |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | -0.1 | pCi/L | | U | | E903.0 | 10/29/09 05:08 / trs |
| Radium 226 precision (±) | 0.07 | pCi/L | | | | E903.0 | 10/29/09 05:08 / trs |
| Radium 226 MDC | 0.14 | pCi/L | | | | E903.0 | 10/29/09 05:08 / trs |
| Radium 228 | 1.2 | pCi/L | | U | | RA-05 | 10/20/09 10:23 / plj |
| Radium 228 precision (±) | 0.8 | pCi/L | | | | RA-05 | 10/20/09 10:23 / plj |
| Radium 228 MDC | 1.2 | pCi/L | | | | RA-05 | 10/20/09 10:23 / plj |
| Thorium 230 | 0.004 | pCi/L | | U | | E907.0 | 10/16/09 13:16 / dmf |
| Thorium 230 precision (±) | 0.2 | pCi/L | | | | E907.0 | 10/16/09 13:16 / dmf |
| Thorium 230 MDC | 0.3 | pCi/L | | | | E907.0 | 10/16/09 13:16 / dmf |
| - See Case Narrative regarding Th230 analysis. | | | | | | | |
| FIELD PARAMETERS | | | | | | | |
| pH | 6.01 | s.u. | | | | FIELD | 09/29/09 11:25 / *** |
| *** Performed by Sampler | | | | | | | |

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: Western Nuclear
 Project: Split Rock Mill Site GWPP
 Lab ID: C09091173-003
 Client Sample ID: WN-5

Report Date: 11/06/09
 Collection Date: 09/29/09 10:55
 Date Received: 09/30/09
 Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|-------------------------------------|--------|-------|------------|-------|-------------|-----------|------------------------|
| MAJOR IONS | | | | | | | |
| Chloride | 101 | mg/L | | 1 | | E300.0 | 10/05/09 22:32 / ljl |
| Fluoride | ND | mg/L | | 0.1 | | A4500-F C | 10/06/09 12:42 / dvg |
| Nitrogen, Ammonia as N | 2.62 | mg/L | | 0.05 | | E350.1 | 10/01/09 15:25 / eli-b |
| Nitrogen, Nitrate+Nitrite as N | 72.3 | mg/L | | 0.2 | | E353.2 | 10/02/09 11:19 / eli-b |
| Sulfate | 1710 | mg/L | | 1 | | E300.0 | 10/05/09 22:32 / ljl |
| PHYSICAL PROPERTIES | | | | | | | |
| pH | 6.89 | s.u. | | 0.01 | | A4500-H B | 09/30/09 15:23 / dd |
| Solids, Total Dissolved TDS @ 180 C | 3480 | mg/L | | 10 | | A2540 C | 10/02/09 13:58 / th |
| METALS - DISSOLVED | | | | | | | |
| Aluminum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 15:39 / ts |
| Antimony | ND | mg/L | | 0.003 | | E200.8 | 10/01/09 15:39 / ts |
| Arsenic | ND | mg/L | | 0.01 | | E200.8 | 10/01/09 15:39 / ts |
| Beryllium | ND | mg/L | | 0.004 | | E200.8 | 10/01/09 15:39 / ts |
| Cadmium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 15:39 / ts |
| Lead | ND | mg/L | | 0.005 | | E200.8 | 10/01/09 15:39 / ts |
| Manganese | 0.48 | mg/L | | 0.05 | | E200.8 | 10/01/09 15:39 / ts |
| Molybdenum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 15:39 / ts |
| Nickel | ND | mg/L | | 0.05 | | E200.8 | 10/01/09 15:39 / ts |
| Selenium | 0.018 | mg/L | | 0.005 | | E200.8 | 10/01/09 15:39 / ts |
| Thallium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 15:39 / ts |
| Uranium | 1.79 | mg/L | | 0.001 | | E200.8 | 10/01/09 15:39 / ts |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | -0.2 | pCi/L | | | U | E903.0 | 10/29/09 05:08 / trs |
| Radium 226 precision (±) | 0.06 | pCi/L | | | | E903.0 | 10/29/09 05:08 / trs |
| Radium 226 MDC | 0.14 | pCi/L | | | | E903.0 | 10/29/09 05:08 / trs |
| Radium 228 | 1.2 | pCi/L | | | U | RA-05 | 10/20/09 10:22 / plj |
| Radium 228 precision (±) | 0.8 | pCi/L | | | | RA-05 | 10/20/09 10:22 / plj |
| Radium 228 MDC | 1.2 | pCi/L | | | | RA-05 | 10/20/09 10:22 / plj |
| Thorium 230 | 0.05 | pCi/L | | | U | E907.0 | 10/16/09 13:16 / dmf |
| Thorium 230 precision (±) | 0.1 | pCi/L | | | | E907.0 | 10/16/09 13:16 / dmf |
| Thorium 230 MDC | 0.2 | pCi/L | | | | E907.0 | 10/16/09 13:16 / dmf |
| FIELD PARAMETERS | | | | | | | |
| pH | 6.68 | s.u. | | | | FIELD | 09/29/09 10:55 / *** |

*** Performed by Sampler

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Western Nuclear
 Project: Split Rock Mill Site GWPP
 Lab ID: C09091173-024
 Client Sample ID: WN-5R

Report Date: 11/06/09
 Collection Date: 09/29/09 10:55
 Date Received: 09/30/09
 Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|-------------------------------------|--------|-------|------------|-------|-------------|-----------|------------------------|
| MAJOR IONS | | | | | | | |
| Chloride | 104 | mg/L | | 1 | | E300.0 | 10/06/09 02:08 / ljl |
| Fluoride | ND | mg/L | | 0.1 | | A4500-F C | 10/06/09 14:46 / dvq |
| Nitrogen, Ammonia as N | 1.49 | mg/L | | 0.05 | | E350.1 | 10/01/09 16:06 / eli-b |
| Nitrogen, Nitrate+Nitrite as N | 68.9 | mg/L | | 0.2 | | E353.2 | 10/02/09 13:25 / eli-b |
| Sulfate | 1730 | mg/L | | 1 | | E300.0 | 10/06/09 02:08 / ljl |
| PHYSICAL PROPERTIES | | | | | | | |
| pH | 6.93 | s.u. | | 0.01 | | A4500-H B | 10/01/09 11:12 / dd |
| Solids, Total Dissolved TDS @ 180 C | 3700 | mg/L | | 10 | | A2540 C | 10/02/09 15:39 / th |
| METALS - DISSOLVED | | | | | | | |
| Aluminum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 20:51 / ts |
| Antimony | ND | mg/L | | 0.003 | | E200.8 | 10/01/09 20:51 / ts |
| Arsenic | ND | mg/L | | 0.01 | | E200.8 | 10/01/09 20:51 / ts |
| Beryllium | ND | mg/L | | 0.004 | | E200.8 | 10/05/09 19:36 / smf |
| Cadmium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 20:51 / ts |
| Lead | ND | mg/L | | 0.005 | | E200.8 | 10/01/09 20:51 / ts |
| Manganese | 0.43 | mg/L | | 0.05 | | E200.8 | 10/01/09 20:51 / ts |
| Molybdenum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 20:51 / ts |
| Nickel | ND | mg/L | | 0.05 | | E200.8 | 10/01/09 20:51 / ts |
| Selenium | 0.020 | mg/L | | 0.005 | | E200.8 | 10/01/09 20:51 / ts |
| Thallium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 20:51 / ts |
| Uranium | 1.91 | mg/L | | 0.001 | | E200.8 | 10/01/09 20:51 / ts |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.1 | pCi/L | | | | E903.0 | 10/30/09 14:23 / trs |
| Radium 226 precision (±) | 0.06 | pCi/L | | | | E903.0 | 10/30/09 14:23 / trs |
| Radium 226 MDC | 0.09 | pCi/L | | | | E903.0 | 10/30/09 14:23 / trs |
| Radium 228 | -0.03 | pCi/L | | U | | RA-05 | 10/20/09 14:36 / plj |
| Radium 228 precision (±) | 0.9 | pCi/L | | | | RA-05 | 10/20/09 14:36 / plj |
| Radium 228 MDC | 1.5 | pCi/L | | | | RA-05 | 10/20/09 14:36 / plj |
| Thorium 230 | 0.006 | pCi/L | | U | | E907.0 | 10/16/09 17:26 / dmf |
| Thorium 230 precision (±) | 0.08 | pCi/L | | | | E907.0 | 10/16/09 17:26 / dmf |
| Thorium 230 MDC | 0.2 | pCi/L | | | | E907.0 | 10/16/09 17:26 / dmf |
| FIELD PARAMETERS | | | | | | | |
| pH | 6.68 | s.u. | | | | FIELD | 09/29/09 10:55 / *** |
| *** Performed by Sampler | | | | | | | |

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Western Nuclear
 Project: Split Rock Mill Site GWPP
 Lab ID: C09091173-025
 Client Sample ID: WN-5S

Report Date: 11/06/09
 Collection Date: 09/29/09 10:55
 Date Received: 09/30/09
 Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|--|--------|-------|------------|-------|-------------|-----------|------------------------|
| MAJOR IONS | | | | | | | |
| Chloride | 104 | mg/L | | 1 | | E300.0 | 10/06/09 02:25 / ljl |
| Fluoride | ND | mg/L | | 0.1 | | A4500-F C | 10/06/09 14:50 / dvg |
| Nitrogen, Ammonia as N | 0.08 | mg/L | | 0.05 | | E350.1 | 10/01/09 16:07 / eli-b |
| Nitrogen, Nitrate+Nitrite as N | 62.5 | mg/L | | 0.2 | | E353.2 | 10/02/09 13:53 / eli-b |
| Sulfate | 1720 | mg/L | | 1 | | E300.0 | 10/06/09 02:25 / ljl |
| PHYSICAL PROPERTIES | | | | | | | |
| pH | 6.94 | s.u. | | 0.01 | | A4500-H B | 10/01/09 11:15 / dd |
| Solids, Total Dissolved TDS @ 180 C | 3630 | mg/L | | 10 | | A2540 C | 10/02/09 15:32 / th |
| METALS - DISSOLVED | | | | | | | |
| Aluminum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 21:12 / ts |
| Antimony | ND | mg/L | | 0.003 | | E200.8 | 10/01/09 21:12 / ts |
| Arsenic | ND | mg/L | | 0.01 | | E200.8 | 10/01/09 21:12 / ts |
| Beryllium | ND | mg/L | | 0.004 | | E200.8 | 10/05/09 19:42 / sml |
| Cadmium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 21:12 / ts |
| Lead | ND | mg/L | | 0.005 | | E200.8 | 10/01/09 21:12 / ts |
| Manganese | 0.44 | mg/L | | 0.05 | | E200.8 | 10/01/09 21:12 / ts |
| Molybdenum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 21:12 / ts |
| Nickel | ND | mg/L | | 0.05 | | E200.8 | 10/01/09 21:12 / ts |
| Selenium | 0.020 | mg/L | | 0.005 | | E200.8 | 10/01/09 21:12 / ts |
| Thallium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 21:12 / ts |
| Uranium | 1.85 | mg/L | | 0.001 | | E200.8 | 10/01/09 21:12 / ts |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.05 | pCi/L | | | | E903.0 | 10/30/09 18:23 / trs |
| Radium 226 precision (±) | 0.05 | pCi/L | | | | E903.0 | 10/30/09 18:23 / trs |
| Radium 226 MDC | 0.08 | pCi/L | | | | E903.0 | 10/30/09 18:23 / trs |
| Radium 228 | 0.4 | pCi/L | | | | RA-05 | 10/20/09 14:36 / plj |
| Radium 228 precision (±) | 0.8 | pCi/L | | | | RA-05 | 10/20/09 14:36 / plj |
| Radium 228 MDC | 1.3 | pCi/L | | | | RA-05 | 10/20/09 14:36 / plj |
| Thorium 230 | 0.02 | pCi/L | | | | E907.0 | 10/16/09 17:26 / dmf |
| Thorium 230 precision (±) | 0.1 | pCi/L | | | | E907.0 | 10/16/09 17:26 / dmf |
| Thorium 230 MDC | 0.3 | pCi/L | | | | E907.0 | 10/16/09 17:26 / dmf |
| - See Case Narrative regarding Th230 analysis. | | | | | | | |
| FIELD PARAMETERS | | | | | | | |
| pH | 6.68 | s.u. | | | | FIELD | 09/29/09 10:55 / *** |
| *** Performed by Sampler | | | | | | | |

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Western Nuclear
 Project: Split Rock Mill Site GWPP
 Lab ID: C09091173-004
 Client Sample ID: WN-21

Report Date: 11/06/09
 Collection Date: 09/29/09 14:32
 Date Received: 09/30/09
 Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|-------------------------------------|--------|-------|------------|-------|-------------|-----------|------------------------|
| MAJOR IONS | | | | | | | |
| Chloride | 9 | mg/L | | 1 | | E300.0 | 10/05/09 22:48 / ljl |
| Fluoride | 0.2 | mg/L | | 0.1 | | A4500-F C | 10/06/09 12:55 / dvg |
| Nitrogen, Ammonia as N | 2.06 | mg/L | | 0.05 | | E350.1 | 10/01/09 15:27 / eli-b |
| Nitrogen, Nitrate+Nitrite as N | 3.2 | mg/L | | 0.2 | | E353.2 | 10/02/09 13:05 / eli-b |
| Sulfate | 80 | mg/L | | 1 | | E300.0 | 10/05/09 22:48 / ljl |
| PHYSICAL PROPERTIES | | | | | | | |
| pH | 7.75 | s.u. | | 0.01 | | A4500-H B | 09/30/09 15:24 / dd |
| Solids, Total Dissolved TDS @ 180 C | 322 | mg/L | | 10 | | A2540 C | 10/02/09 13:58 / th |
| METALS - DISSOLVED | | | | | | | |
| Aluminum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 16:00 / ts |
| Antimony | ND | mg/L | | 0.003 | | E200.8 | 10/01/09 16:00 / ts |
| Arsenic | ND | mg/L | | 0.01 | | E200.8 | 10/01/09 16:00 / ts |
| Beryllium | ND | mg/L | | 0.004 | | E200.8 | 10/01/09 16:00 / ts |
| Cadmium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 16:00 / ts |
| Lead | ND | mg/L | | 0.005 | | E200.8 | 10/01/09 16:00 / ts |
| Manganese | 0.28 | mg/L | | 0.05 | | E200.8 | 10/01/09 16:00 / ts |
| Molybdenum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 16:00 / ts |
| Nickel | ND | mg/L | | 0.05 | | E200.8 | 10/01/09 16:00 / ts |
| Selenium | ND | mg/L | | 0.005 | | E200.8 | 10/01/09 16:00 / ts |
| Thallium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 16:00 / ts |
| Uranium | 0.070 | mg/L | | 0.001 | | E200.8 | 10/01/09 16:00 / ts |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | -0.2 | pCi/L | | U | | E903.0 | 10/29/09 05:08 / trs |
| Radium 226 precision (±) | 0.06 | pCi/L | | | | E903.0 | 10/29/09 05:08 / trs |
| Radium 226 MDC | 0.15 | pCi/L | | | | E903.0 | 10/29/09 05:08 / trs |
| Radium 228 | 0.2 | pCi/L | | U | | RA-05 | 10/20/09 10:22 / plj |
| Radium 228 precision (±) | 0.8 | pCi/L | | | | RA-05 | 10/20/09 10:22 / plj |
| Radium 228 MDC | 1.3 | pCi/L | | | | RA-05 | 10/20/09 10:22 / plj |
| Thorium 230 | 0.04 | pCi/L | | U | | E907.0 | 10/16/09 13:16 / dmf |
| Thorium 230 precision (±) | 0.1 | pCi/L | | | | E907.0 | 10/16/09 13:16 / dmf |
| Thorium 230 MDC | 0.2 | pCi/L | | | | E907.0 | 10/16/09 13:16 / dmf |
| FIELD PARAMETERS | | | | | | | |
| pH | 7.35 | s.u. | | | | FIELD | 09/29/09 14:32 / *** |
| *** Performed by Sampler | | | | | | | |

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Western Nuclear
 Project: Split Rock Mill Site GWPP
 Lab ID: C09091173-007
 Client Sample ID: WN-39B

Report Date: 11/06/09
 Collection Date: 09/29/09 10:16
 Date Received: 09/30/09
 Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|-------------------------------------|--------|-------|------------|-------|-------------|-----------|------------------------|
| MAJOR IONS | | | | | | | |
| Chloride | 23 | mg/L | | 1 | | E300.0 | 10/06/09 00:05 / ljl |
| Fluoride | 0.2 | mg/L | | 0.1 | | A4500-F C | 10/06/09 13:12 / dvg |
| Nitrogen, Ammonia as N | ND | mg/L | | 0.05 | | E350.1 | 10/01/09 15:33 / eli-b |
| Nitrogen, Nitrate+Nitrite as N | 7.0 | mg/L | | 0.2 | | E353.2 | 10/02/09 13:09 / eli-b |
| Sulfate | 164 | mg/L | | 1 | | E300.0 | 10/06/09 00:05 / ljl |
| PHYSICAL PROPERTIES | | | | | | | |
| pH | 7.77 | s.u. | | 0.01 | | A4500-H B | 09/30/09 15:33 / dd |
| Solids, Total Dissolved TDS @ 180 C | 530 | mg/L | | 10 | | A2540 C | 10/02/09 15:17 / th |
| METALS - DISSOLVED | | | | | | | |
| Aluminum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 16:47 / ts |
| Antimony | ND | mg/L | | 0.003 | | E200.8 | 10/01/09 16:47 / ts |
| Arsenic | ND | mg/L | | 0.01 | | E200.8 | 10/01/09 16:47 / ts |
| Beryllium | ND | mg/L | | 0.004 | | E200.8 | 10/01/09 16:47 / ts |
| Cadmium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 16:47 / ts |
| Lead | ND | mg/L | | 0.005 | | E200.8 | 10/01/09 16:47 / ts |
| Manganese | ND | mg/L | | 0.05 | | E200.8 | 10/01/09 16:47 / ts |
| Molybdenum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 16:47 / ts |
| Nickel | ND | mg/L | | 0.05 | | E200.8 | 10/01/09 16:47 / ts |
| Selenium | ND | mg/L | | 0.005 | | E200.8 | 10/01/09 16:47 / ts |
| Thallium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 16:47 / ts |
| Uranium | 0.284 | mg/L | | 0.001 | | E200.8 | 10/01/09 16:47 / ts |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | -0.2 | pCi/L | | U | | E903.0 | 10/29/09 05:08 / trs |
| Radium 226 precision (±) | 0.07 | pCi/L | | | | E903.0 | 10/29/09 05:08 / trs |
| Radium 226 MDC | 0.17 | pCi/L | | | | E903.0 | 10/29/09 05:08 / trs |
| Radium 228 | 0.6 | pCi/L | | U | | RA-05 | 10/20/09 10:23 / plj |
| Radium 228 precision (±) | 0.9 | pCi/L | | | | RA-05 | 10/20/09 10:23 / plj |
| Radium 228 MDC | 1.4 | pCi/L | | | | RA-05 | 10/20/09 10:23 / plj |
| Thorium 230 | 0.001 | pCi/L | | U | | E907.0 | 10/16/09 13:16 / dmf |
| Thorium 230 precision (±) | 0.08 | pCi/L | | | | E907.0 | 10/16/09 13:16 / dmf |
| Thorium 230 MDC | 0.2 | pCi/L | | | | E907.0 | 10/16/09 13:16 / dmf |
| FIELD PARAMETERS | | | | | | | |
| pH | 7.50 | s.u. | | | | FIELD | 09/29/09 10:16 / *** |

*** Performed by Sampler

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Western Nuclear
 Project: Split Rock Mill Site GWPP
 Lab ID: C09091173-008
 Client Sample ID: WN-41B

Report Date: 11/06/09
 Collection Date: 09/29/09 09:58
 Date Received: 09/30/09
 Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|-------------------------------------|--------|-------|------------|-------|-------------|-----------|------------------------|
| MAJOR IONS | | | | | | | |
| Chloride | 419 | mg/L | | 1 | | E300.0 | 10/07/09 13:23 / ljl |
| Fluoride | 1.2 | mg/L | | 0.1 | | A4500-F C | 10/06/09 13:19 / dvg |
| Nitrogen, Ammonia as N | ND | mg/L | | 0.05 | | E350.1 | 10/01/09 15:36 / eli-b |
| Nitrogen, Nitrate+Nitrite as N | ND | mg/L | | 0.2 | | E353.2 | 10/02/09 13:16 / eli-b |
| Sulfate | 389 | mg/L | | 1 | | E300.0 | 10/06/09 00:20 / ljl |
| PHYSICAL PROPERTIES | | | | | | | |
| pH | 8.12 | s.u. | | 0.01 | | A4500-H B | 09/30/09 15:34 / dd |
| Solids, Total Dissolved TDS @ 180 C | 1390 | mg/L | | 10 | | A2540 C | 10/02/09 15:17 / th |
| METALS - DISSOLVED | | | | | | | |
| Aluminum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 16:54 / ts |
| Antimony | ND | mg/L | | 0.003 | | E200.8 | 10/01/09 16:54 / ts |
| Arsenic | 0.01 | mg/L | | 0.01 | | E200.8 | 10/01/09 16:54 / ts |
| Beryllium | ND | mg/L | | 0.004 | | E200.8 | 10/01/09 16:54 / ts |
| Cadmium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 16:54 / ts |
| Lead | ND | mg/L | | 0.005 | | E200.8 | 10/01/09 16:54 / ts |
| Manganese | ND | mg/L | | 0.05 | | E200.8 | 10/01/09 16:54 / ts |
| Molybdenum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 16:54 / ts |
| Nickel | ND | mg/L | | 0.05 | | E200.8 | 10/01/09 16:54 / ts |
| Selenium | ND | mg/L | | 0.005 | | E200.8 | 10/01/09 16:54 / ts |
| Thallium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 16:54 / ts |
| Uranium | 0.010 | mg/L | | 0.001 | | E200.8 | 10/01/09 16:54 / ts |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | -0.04 | pCi/L | | | | E903.0 | 10/29/09 05:08 / trs |
| Radium 226 precision (±) | 0.08 | pCi/L | | | | E903.0 | 10/29/09 05:08 / trs |
| Radium 226 MDC | 0.15 | pCi/L | | | | E903.0 | 10/29/09 05:08 / trs |
| Radium 228 | 0.4 | pCi/L | | | | RA-05 | 10/20/09 10:23 / plj |
| Radium 228 precision (±) | 0.8 | pCi/L | | | | RA-05 | 10/20/09 10:23 / plj |
| Radium 228 MDC | 1.3 | pCi/L | | | | RA-05 | 10/20/09 10:23 / plj |
| Thorium 230 | 0.03 | pCi/L | | | | E907.0 | 10/16/09 13:16 / dmf |
| Thorium 230 precision (±) | 0.1 | pCi/L | | | | E907.0 | 10/16/09 13:16 / dmf |
| Thorium 230 MDC | 0.2 | pCi/L | | | | E907.0 | 10/16/09 13:16 / dmf |
| FIELD PARAMETERS | | | | | | | |
| pH | 7.92 | s.u. | | | | FIELD | 09/29/09 09:58 / *** |
| *** Performed by Sampler | | | | | | | |

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Western Nuclear
 Project: Split Rock Mill Site GWPP
 Lab ID: C09091173-009
 Client Sample ID: WN-42A

Report Date: 11/06/09
 Collection Date: 09/29/09 10:34
 Date Received: 09/30/09
 Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|--|--------|-------|------------|-------|-------------|-----------|------------------------|
| MAJOR IONS | | | | | | | |
| Chloride | 42 | mg/L | | 1 | | E300.0 | 10/06/09 00:35 / ljl |
| Fluoride | ND | mg/L | | 0.1 | | A4500-F C | 10/06/09 13:22 / dvg |
| Nitrogen, Ammonia as N | ND | mg/L | D | 0.3 | | E350.1 | 10/01/09 15:38 / eli-b |
| Nitrogen, Nitrate+Nitrite as N | 41 | mg/L | D | 1 | | E353.2 | 10/02/09 13:17 / eli-b |
| Sulfate | 1880 | mg/L | | 1 | | E300.0 | 10/06/09 00:35 / ljl |
| PHYSICAL PROPERTIES | | | | | | | |
| pH | 7.09 | s.u. | | 0.01 | | A4500-H B | 09/30/09 15:36 / dd |
| Solids, Total Dissolved TDS @ 180 C | 3980 | mg/L | | 10 | | A2540 C | 10/02/09 15:18 / th |
| METALS - DISSOLVED | | | | | | | |
| Aluminum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 17:01 / ts |
| Antimony | ND | mg/L | | 0.003 | | E200.8 | 10/01/09 17:01 / ts |
| Arsenic | ND | mg/L | | 0.01 | | E200.8 | 10/01/09 17:01 / ts |
| Beryllium | ND | mg/L | | 0.004 | | E200.8 | 10/01/09 17:01 / ts |
| Cadmium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 17:01 / ts |
| Lead | ND | mg/L | | 0.005 | | E200.8 | 10/01/09 17:01 / ts |
| Manganese | 0.16 | mg/L | | 0.05 | | E200.8 | 10/01/09 17:01 / ts |
| Molybdenum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 17:01 / ts |
| Nickel | ND | mg/L | | 0.05 | | E200.8 | 10/01/09 17:01 / ts |
| Selenium | 0.030 | mg/L | | 0.005 | | E200.8 | 10/01/09 17:01 / ts |
| Thallium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 17:01 / ts |
| Uranium | 1.10 | mg/L | | 0.001 | | E200.8 | 10/01/09 17:01 / ts |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | -0.2 | pCi/L | U | | | E903.0 | 10/29/09 05:08 / trs |
| Radium 226 precision (±) | 0.06 | pCi/L | | | | E903.0 | 10/29/09 05:08 / trs |
| Radium 226 MDC | 0.15 | pCi/L | | | | E903.0 | 10/29/09 05:08 / trs |
| Radium 228 | 0.7 | pCi/L | U | | | RA-05 | 10/20/09 10:23 / plj |
| Radium 228 precision (±) | 0.8 | pCi/L | | | | RA-05 | 10/20/09 10:23 / plj |
| Radium 228 MDC | 1.3 | pCi/L | | | | RA-05 | 10/20/09 10:23 / plj |
| Thorium 230 | 0.2 | pCi/L | U | | | E907.0 | 10/16/09 13:16 / dmf |
| Thorium 230 precision (±) | 0.2 | pCi/L | | | | E907.0 | 10/16/09 13:16 / dmf |
| Thorium 230 MDC | 0.4 | pCi/L | | | | E907.0 | 10/16/09 13:16 / dmf |
| - See Case Narrative regarding Th230 analysis. | | | | | | | |
| FIELD PARAMETERS | | | | | | | |
| pH | 6.75 | s.u. | | | | FIELD | 09/29/09 10:34 / *** |
| *** Performed by Sampler | | | | | | | |

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: Western Nuclear
 Project: Split Rock Mill Site GWPP
 Lab ID: C09091173-022
 Client Sample ID: Field Blank

Report Date: 11/06/09
 Collection Date: 09/30/09 09:45
 Date Received: 09/30/09
 Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|--|--------|-------|------------|-------|-------------|--------|------------------------|
| MAJOR IONS | | | | | | | |
| Chloride | ND | mg/L | | 1 | E300.0 | | 10/06/09 01:33 / ljl |
| Fluoride | ND | mg/L | | 0.1 | A4500-F C | | 10/06/09 14:23 / dvg |
| Nitrogen, Ammonia as N | ND | mg/L | | 0.05 | E350.1 | | 10/01/09 15:58 / eli-b |
| Nitrogen, Nitrate+Nitrite as N | ND | mg/L | | 0.2 | E353.2 | | 10/02/09 13:29 / eli-b |
| Sulfate | ND | mg/L | | 1 | E300.0 | | 10/06/09 01:33 / ljl |
| PHYSICAL PROPERTIES | | | | | | | |
| pH | 5.82 | s.u. | | 0.01 | A4500-H B | | 10/01/09 11:08 / dd |
| Solids, Total Dissolved TDS @ 180 C | ND | mg/L | | 10 | A2540 C | | 10/02/09 15:37 / th |
| METALS - DISSOLVED | | | | | | | |
| Aluminum | ND | mg/L | | 0.1 | E200.8 | | 10/01/09 20:38 / ts |
| Antimony | ND | mg/L | | 0.003 | E200.8 | | 10/01/09 20:38 / ts |
| Arsenic | ND | mg/L | | 0.01 | E200.8 | | 10/01/09 20:38 / ts |
| Beryllium | ND | mg/L | | 0.004 | E200.8 | | 10/05/09 18:55 / sml |
| Cadmium | ND | mg/L | | 0.001 | E200.8 | | 10/01/09 20:38 / ts |
| Lead | ND | mg/L | | 0.005 | E200.8 | | 10/01/09 20:38 / ts |
| Manganese | ND | mg/L | | 0.05 | E200.8 | | 10/01/09 20:38 / ts |
| Molybdenum | ND | mg/L | | 0.1 | E200.8 | | 10/01/09 20:38 / ts |
| Nickel | ND | mg/L | | 0.05 | E200.8 | | 10/01/09 20:38 / ts |
| Selenium | ND | mg/L | | 0.005 | E200.8 | | 10/01/09 20:38 / ts |
| Thallium | ND | mg/L | | 0.001 | E200.8 | | 10/01/09 20:38 / ts |
| Uranium | ND | mg/L | | 0.001 | E200.8 | | 10/01/09 20:38 / ts |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.04 | pCi/L | | U | E903.0 | | 10/30/09 06:20 / trs |
| Radium 226 precision (±) | 0.08 | pCi/L | | | E903.0 | | 10/30/09 06:20 / trs |
| Radium 226 MDC | 0.13 | pCi/L | | | E903.0 | | 10/30/09 06:20 / trs |
| Radium 228 | -0.3 | pCi/L | | U | RA-05 | | 10/20/09 14:36 / plj |
| Radium 228 precision (±) | 1.2 | pCi/L | | | RA-05 | | 10/20/09 14:36 / plj |
| Radium 228 MDC | 2.0 | pCi/L | | | RA-05 | | 10/20/09 14:36 / plj |
| Thorium 230 | 0.05 | pCi/L | | U | E907.0 | | 10/16/09 17:26 / dmf |
| Thorium 230 precision (±) | 0.2 | pCi/L | | | E907.0 | | 10/16/09 17:26 / dmf |
| Thorium 230 MDC | 0.4 | pCi/L | | | E907.0 | | 10/16/09 17:26 / dmf |
| - See Case Narrative regarding Th230 analysis. | | | | | | | |
| FIELD PARAMETERS | | | | | | | |
| pH | 6.59 | s.u. | | | FIELD | | 09/30/09 09:45 / *** |
| *** Performed by Sampler | | | | | | | |

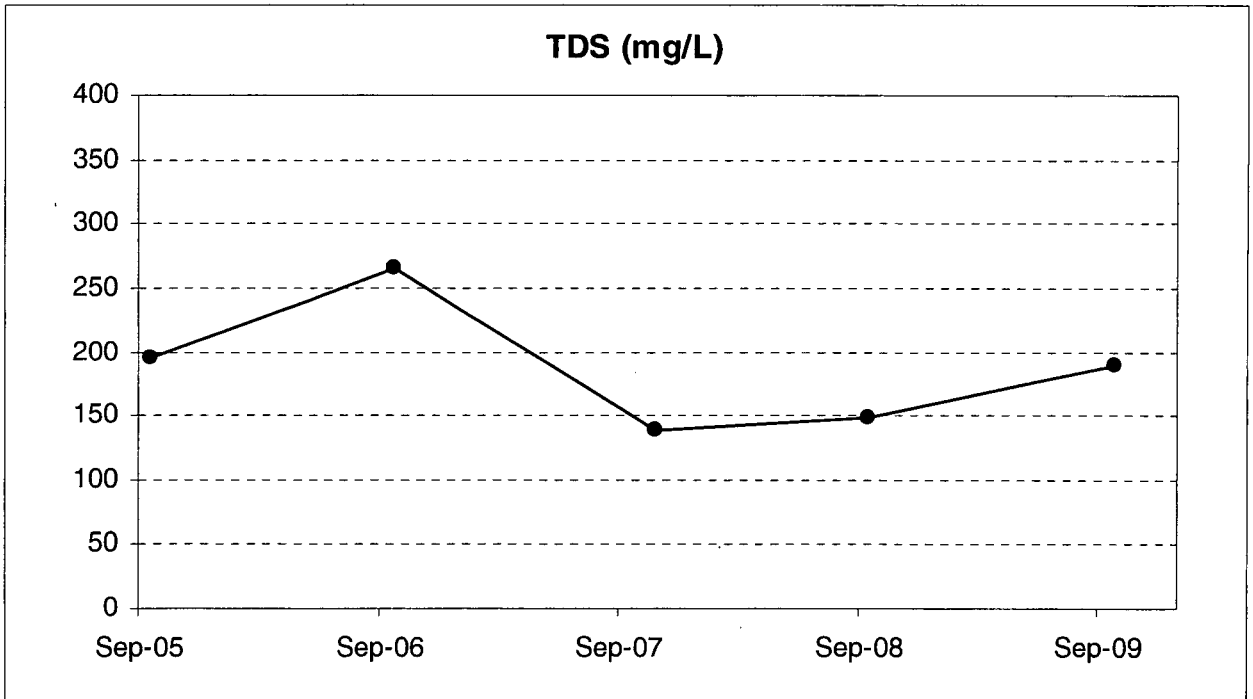
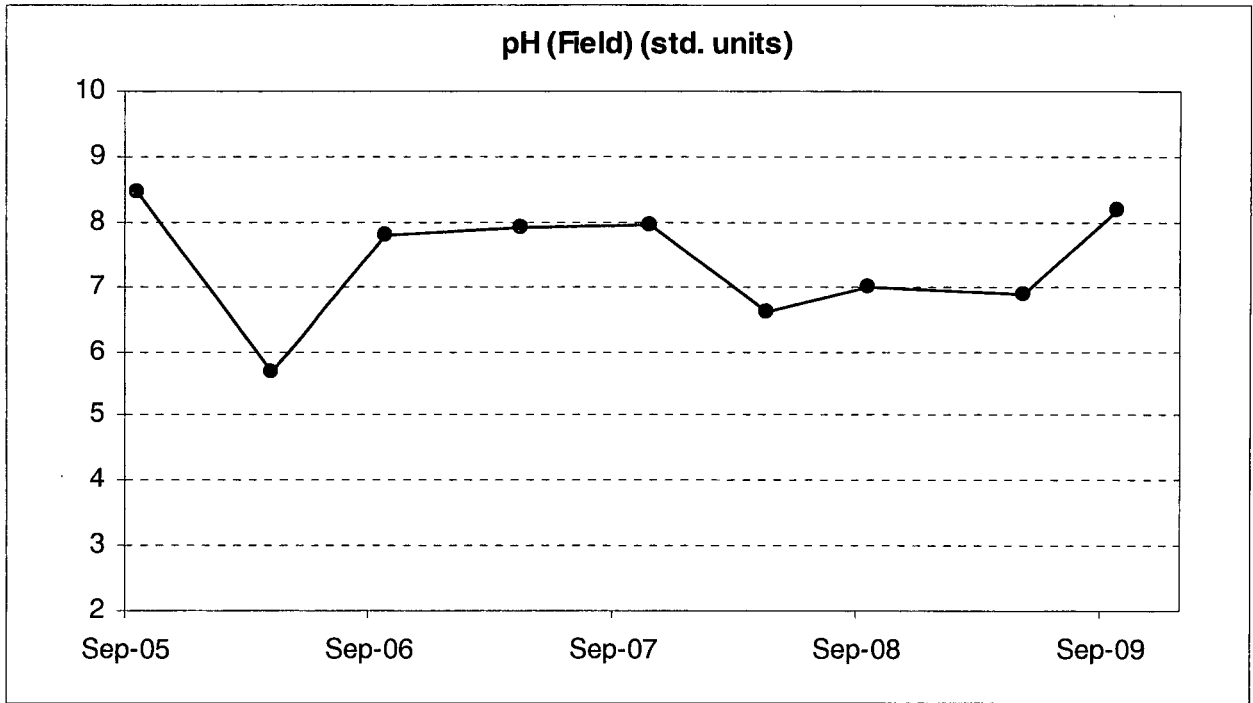
Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

SURFACE WATER

Jeffrey City

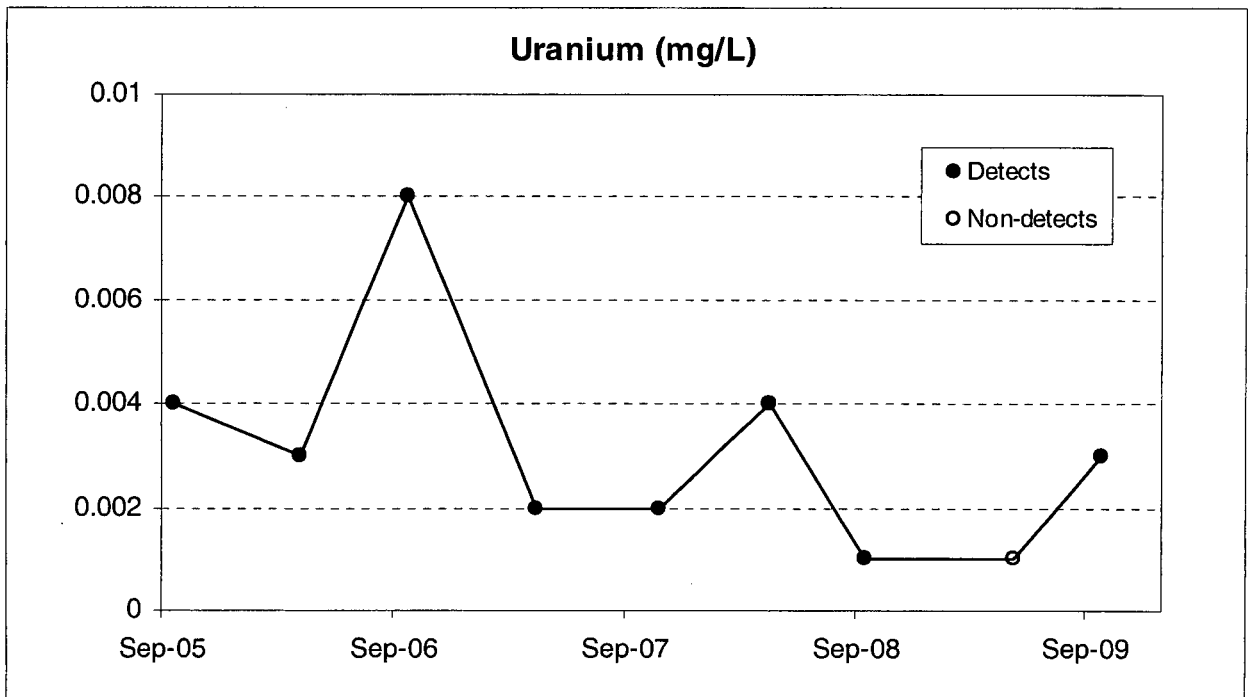
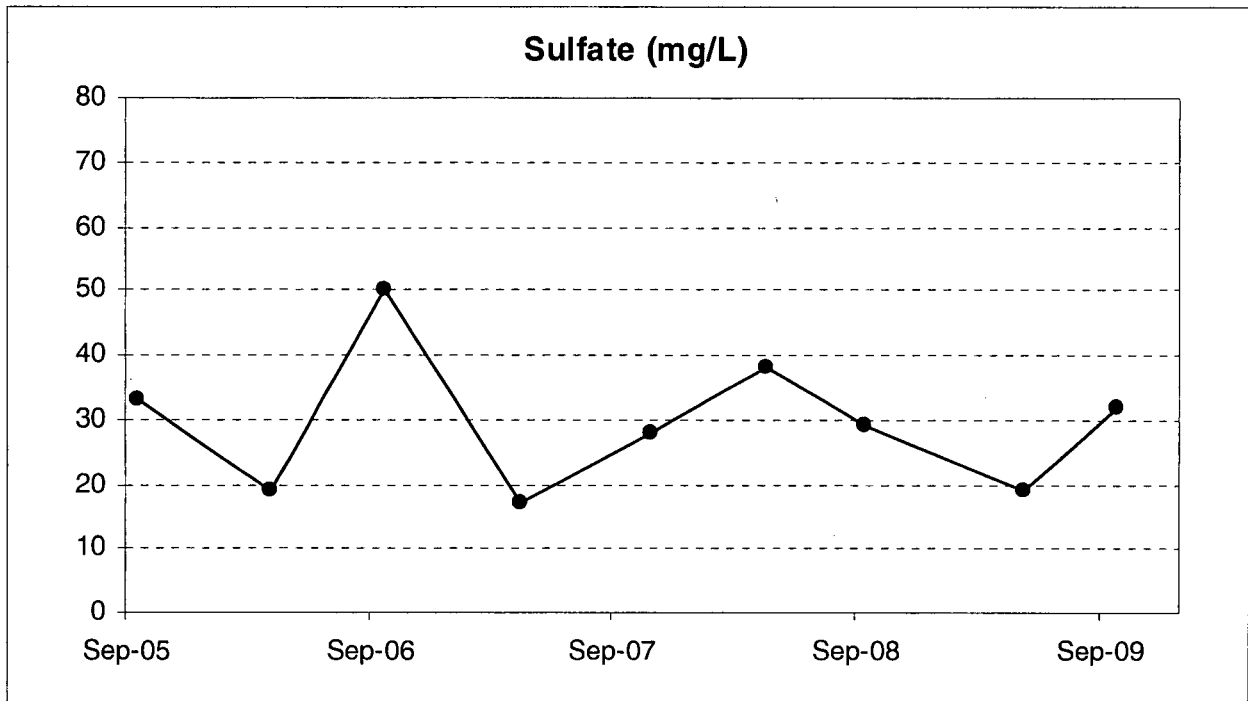
SW-1



Open symbols indicate value below detection limit

Jeffrey City

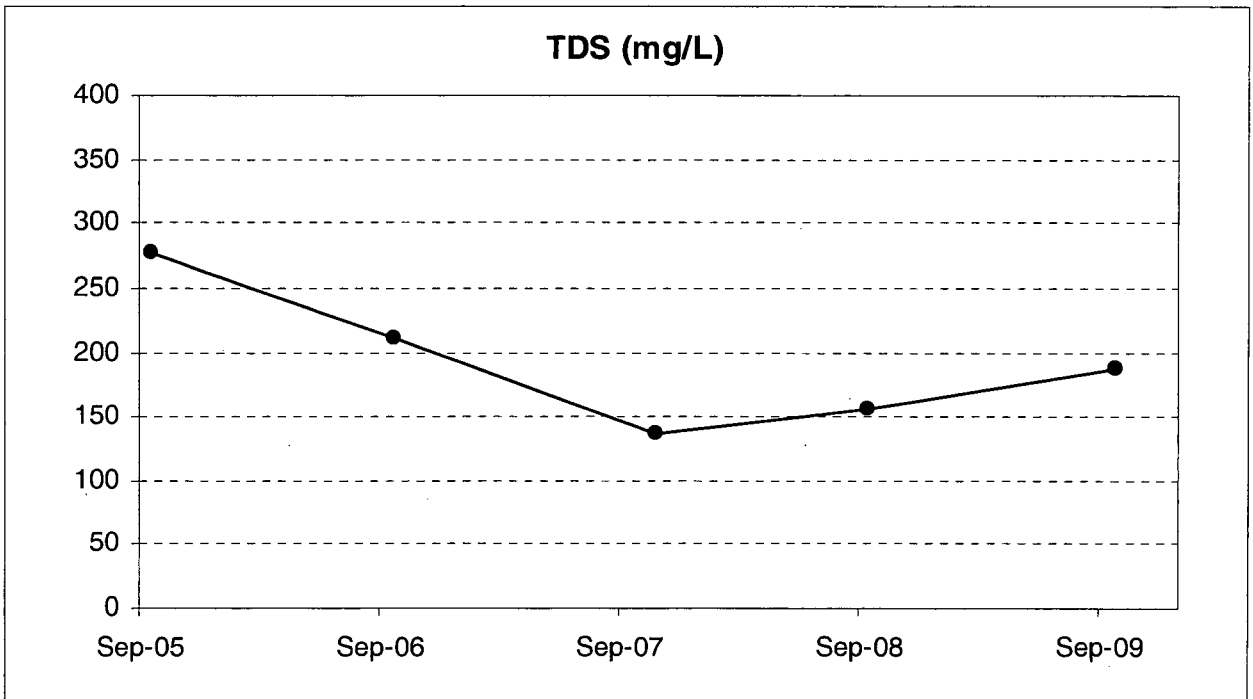
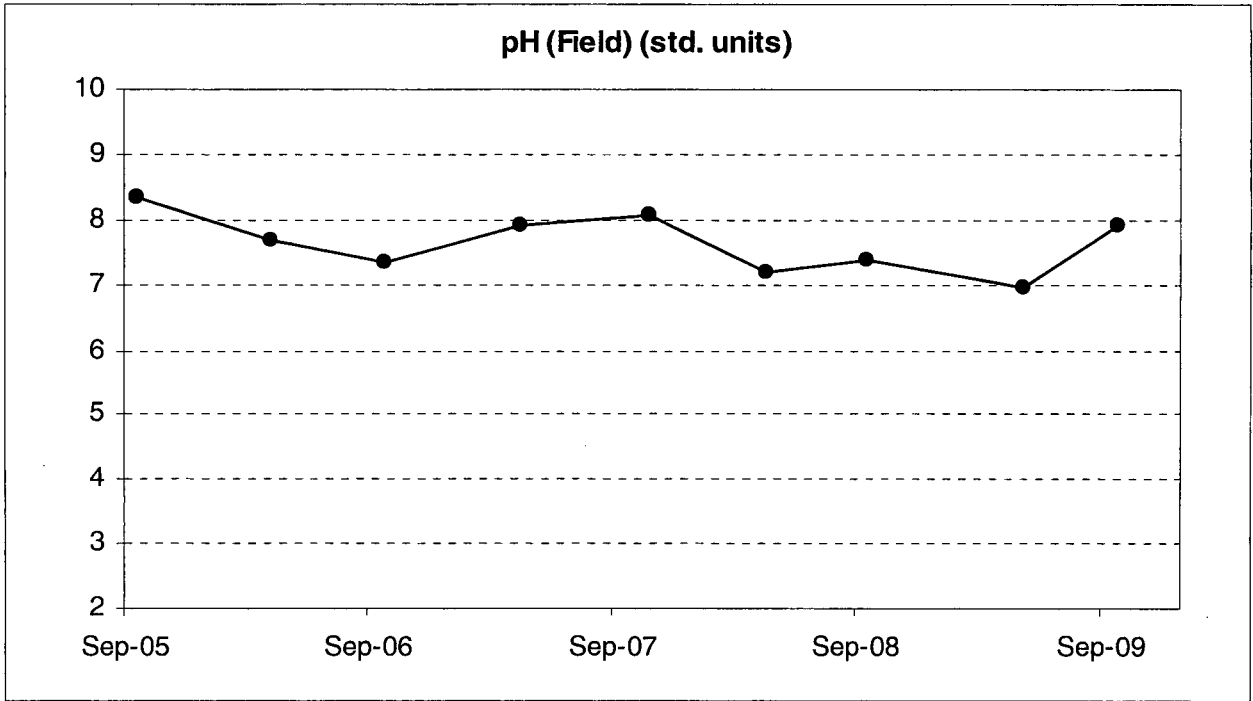
SW-1



Open symbols indicate value below detection limit

Jeffrey City

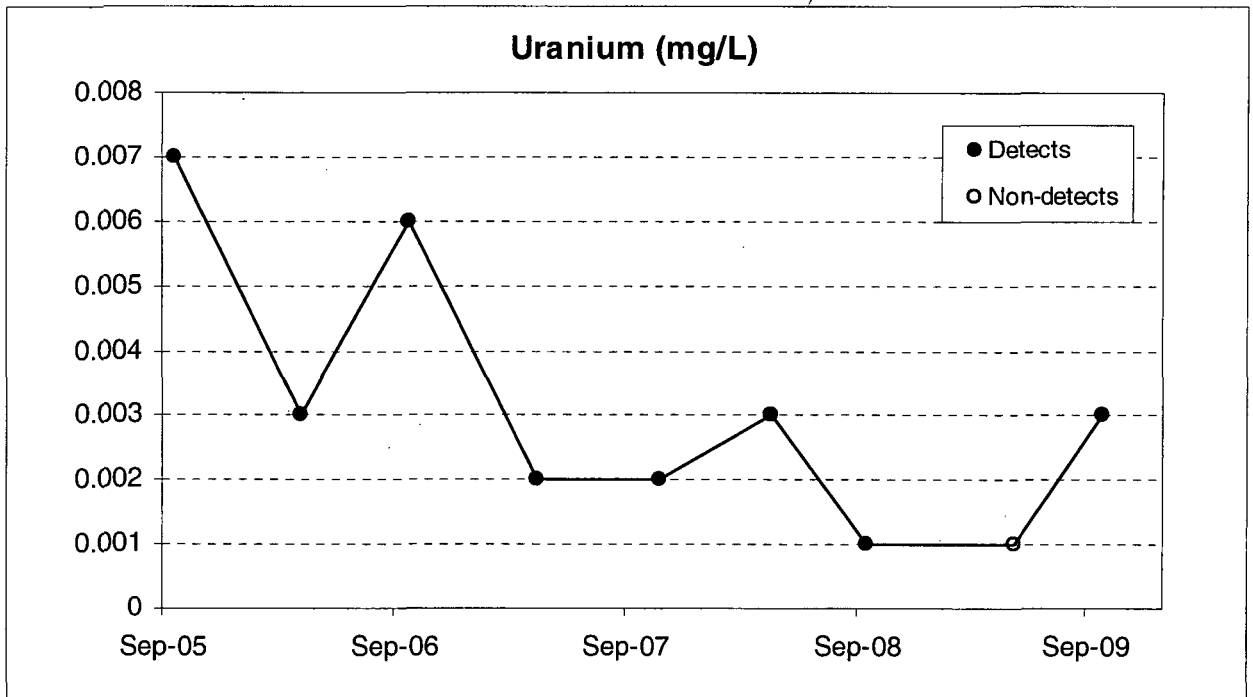
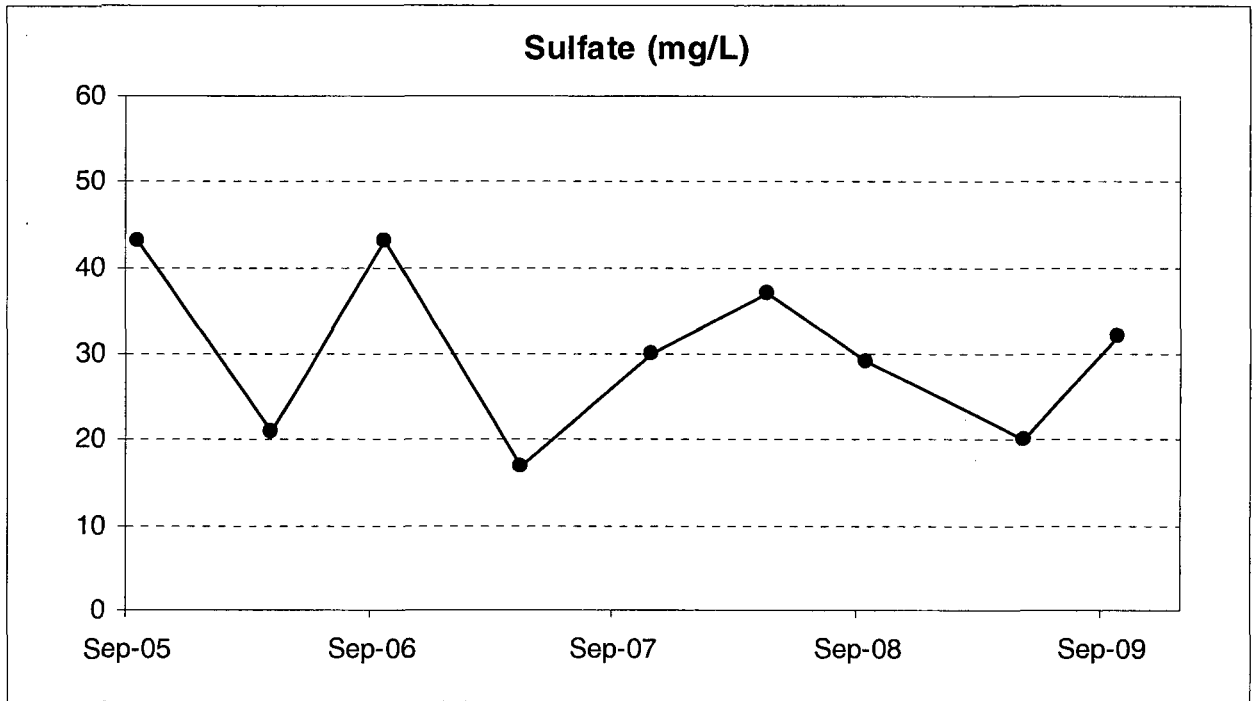
SW-2



Open symbols indicate value below detection limit

Jeffrey City

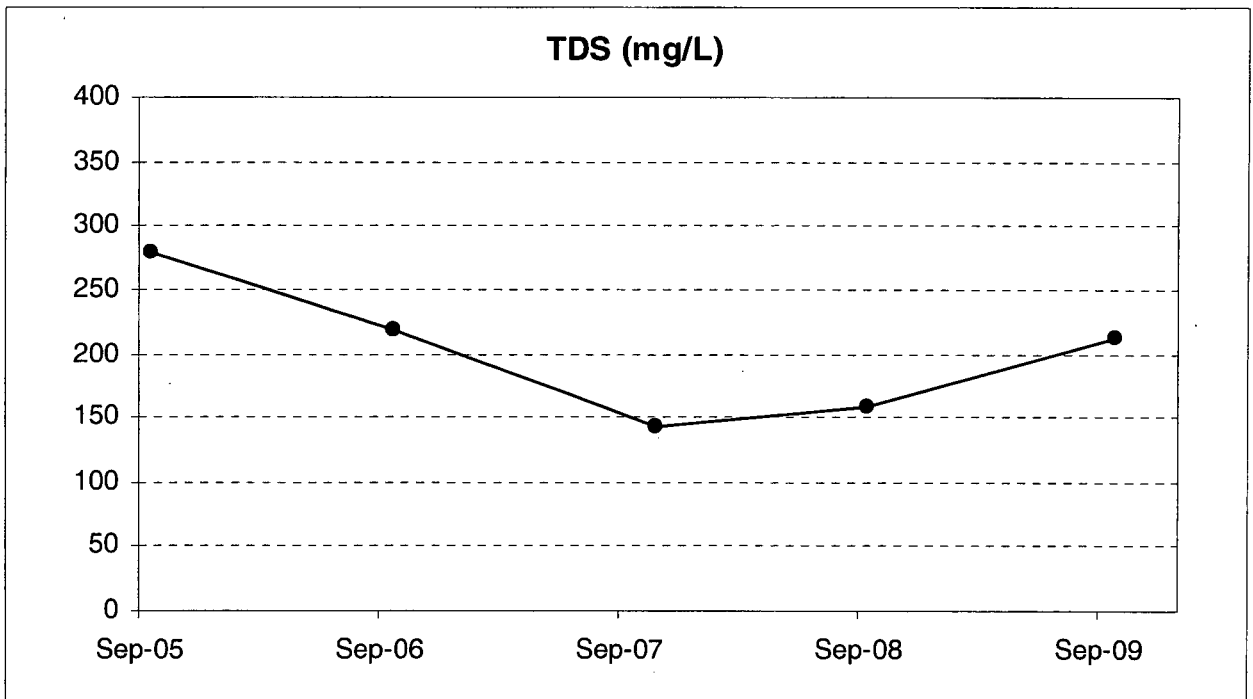
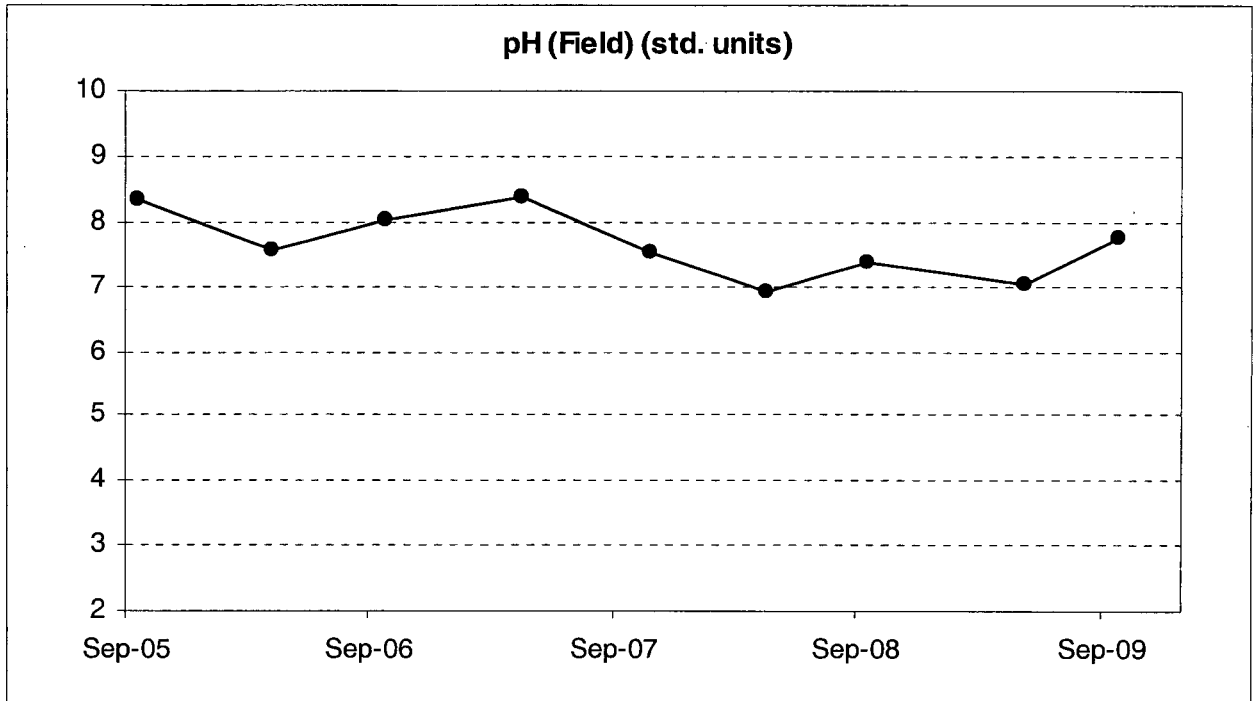
SW-2



Open symbols indicate value below detection limit

Jeffrey City

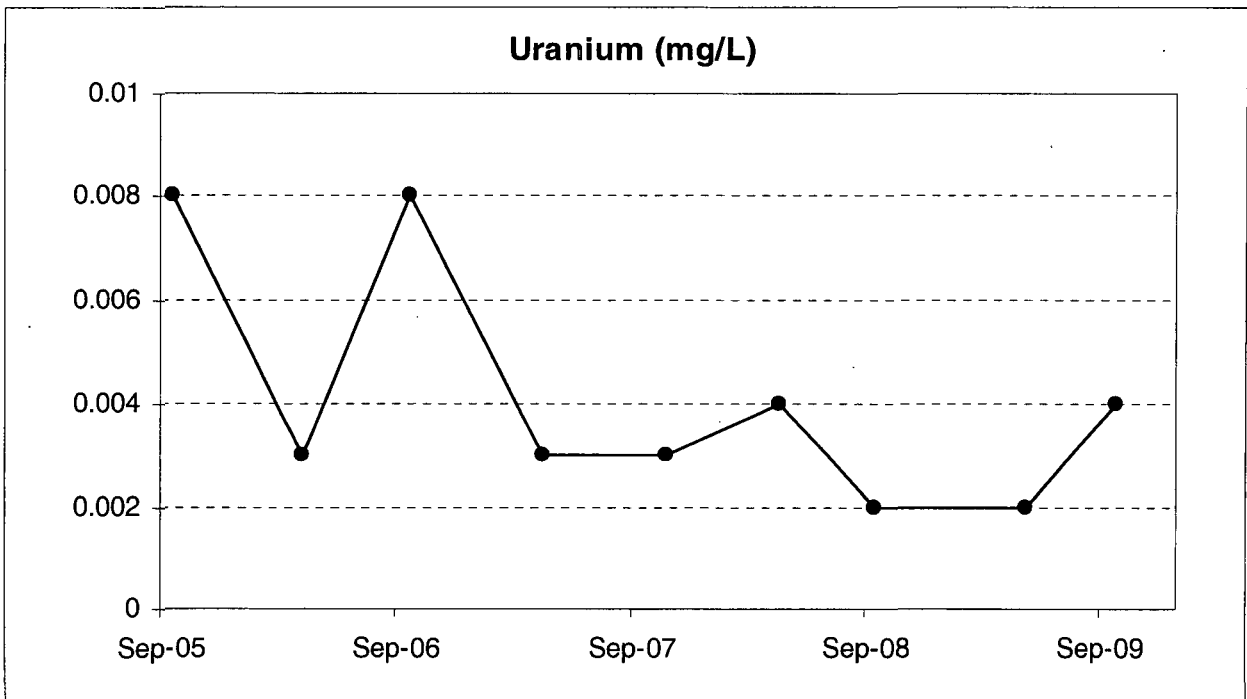
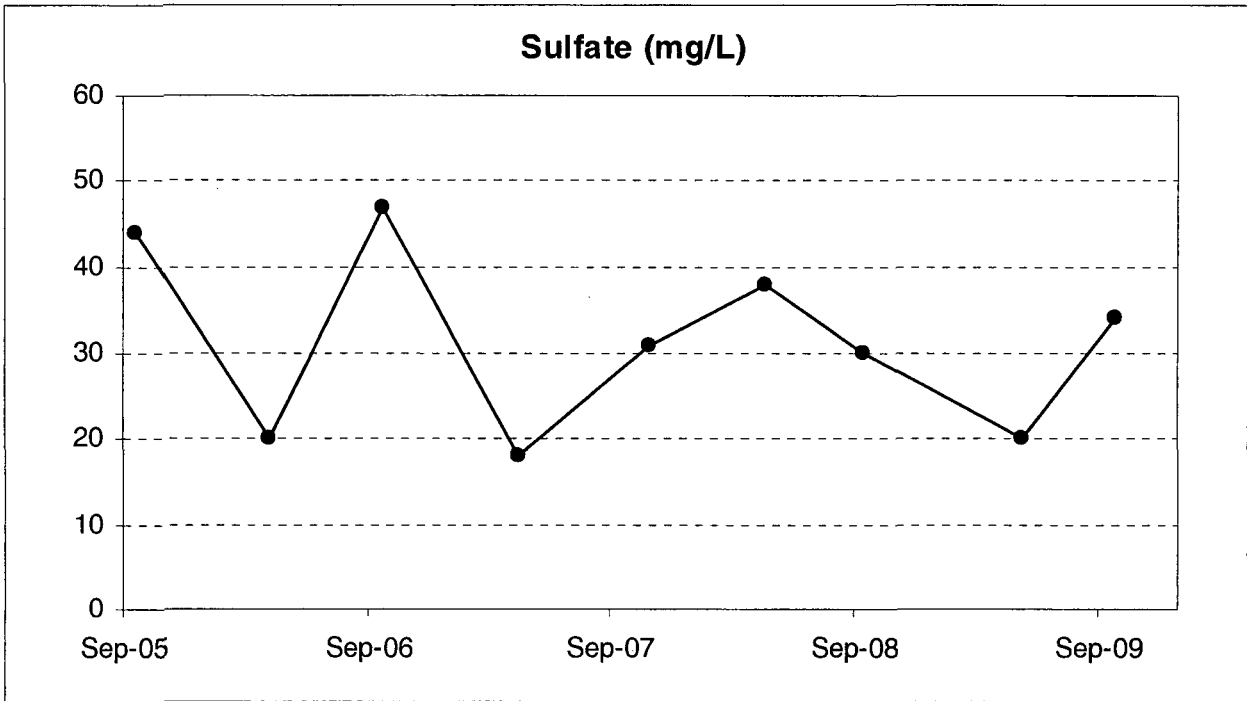
SW-3



Open symbols indicate value below detection limit

Jeffrey City

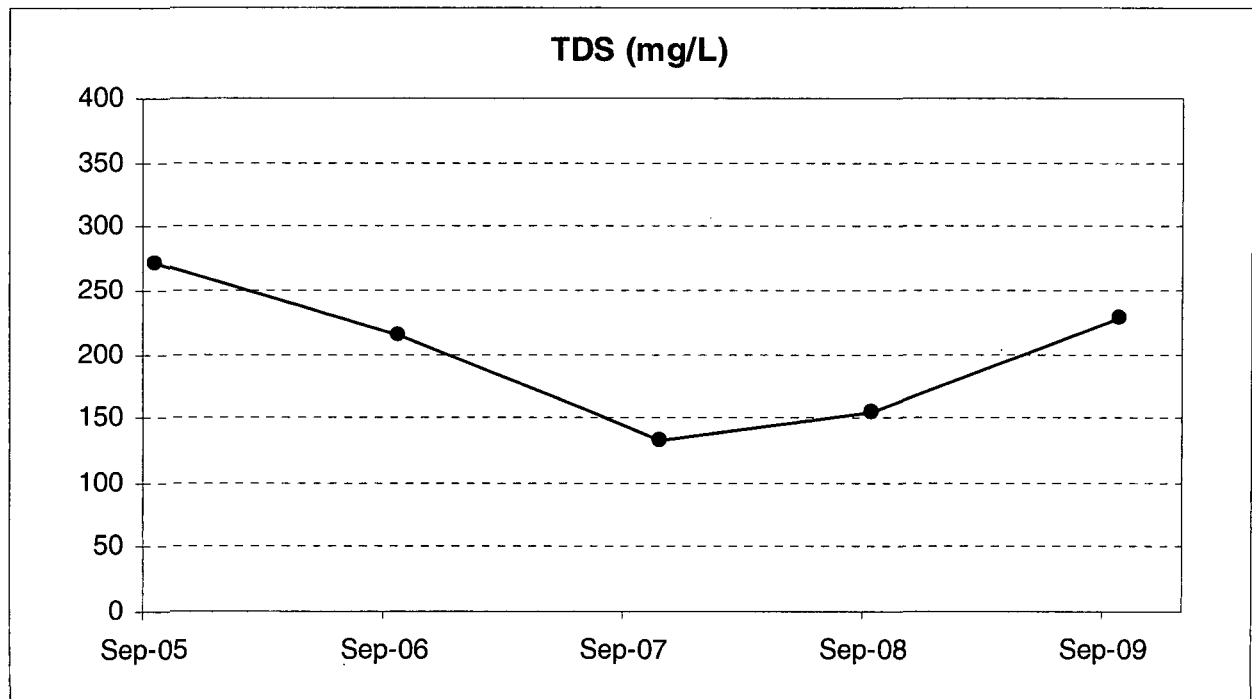
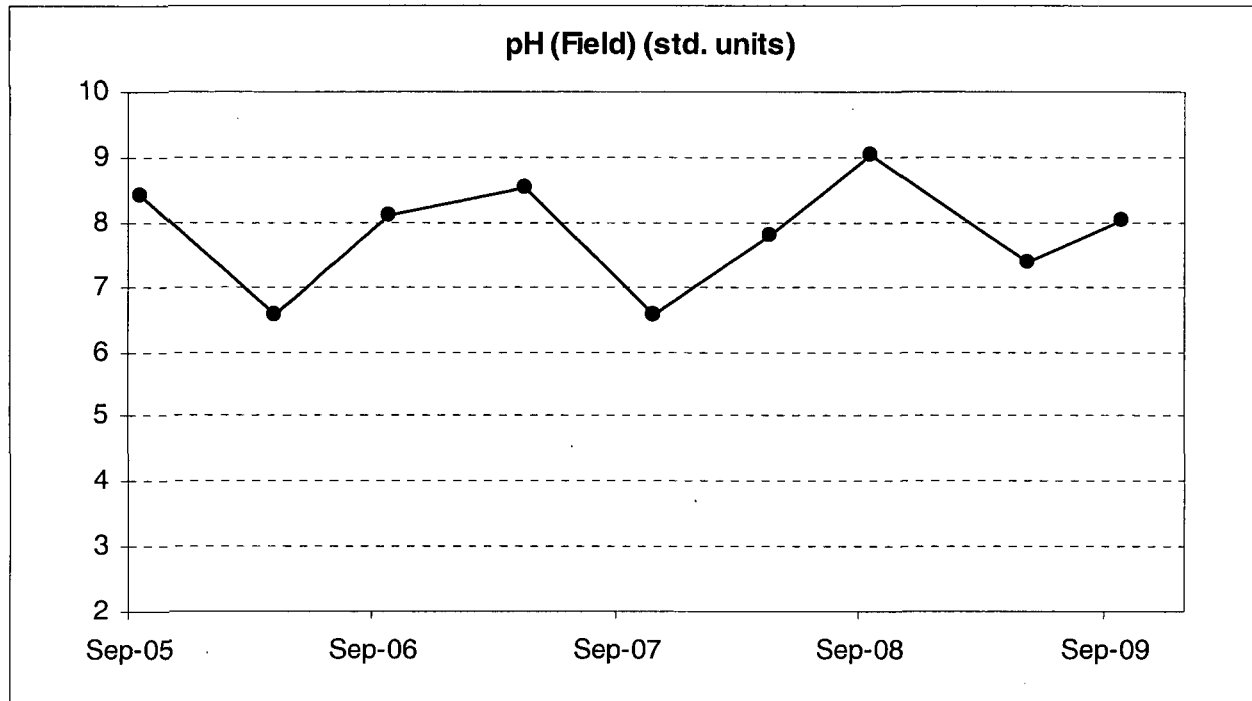
SW-3



Open symbols indicate value below detection limit

Jeffrey City

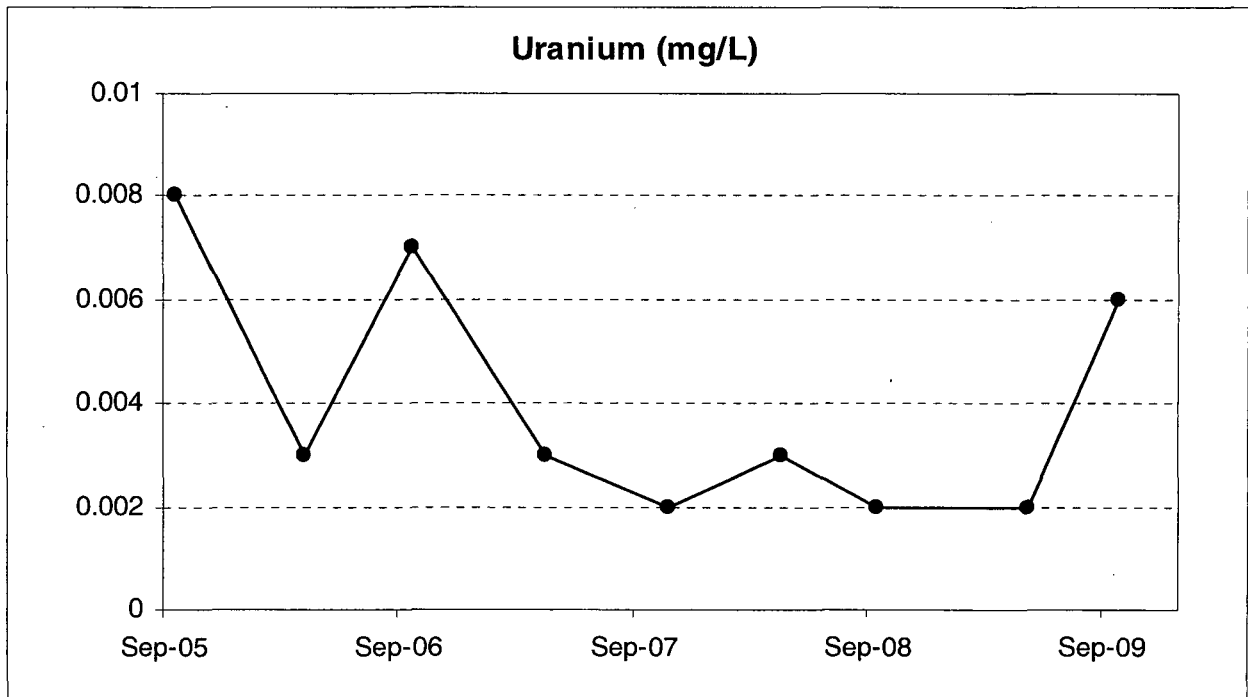
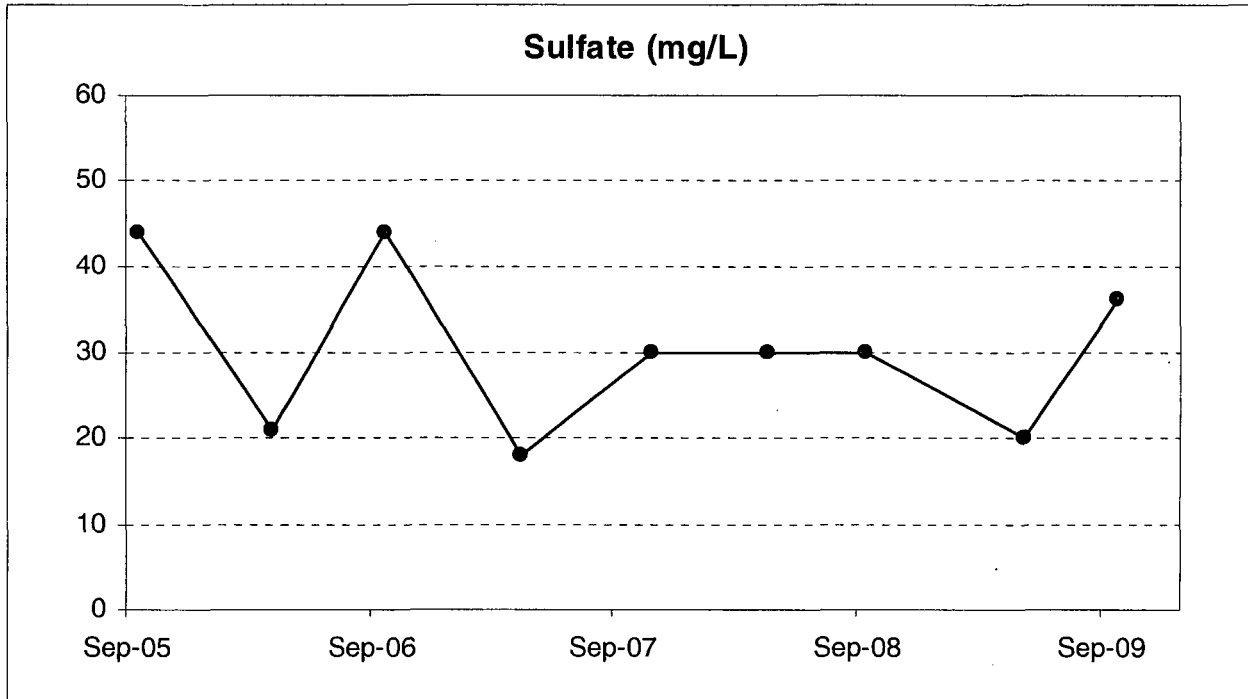
SW-4



Open symbols indicate value below detection limit

Jeffrey City

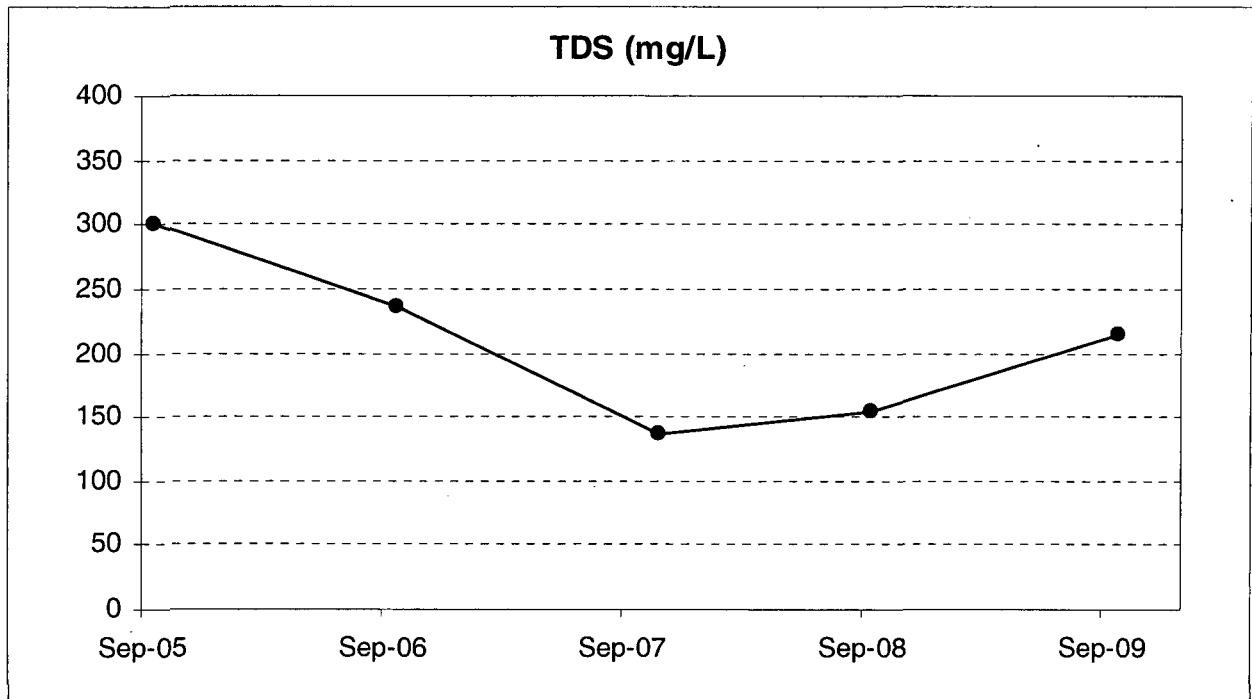
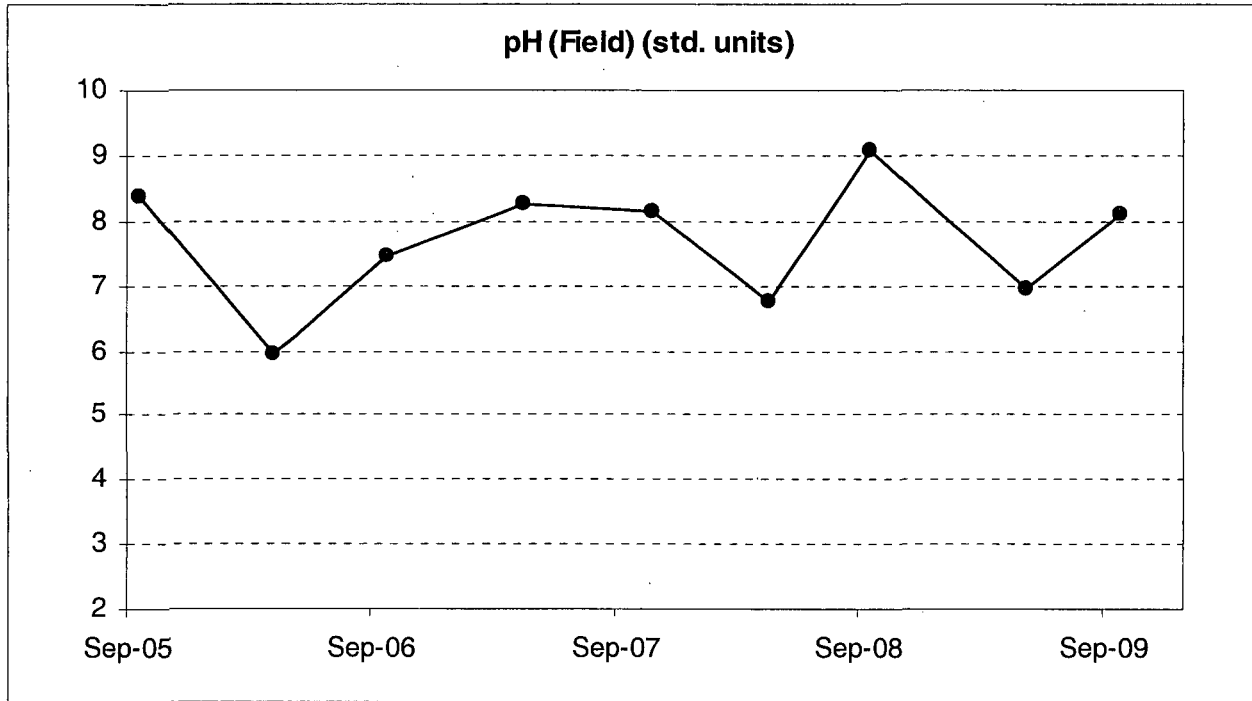
SW-4



Open symbols indicate value below detection limit

Jeffrey City

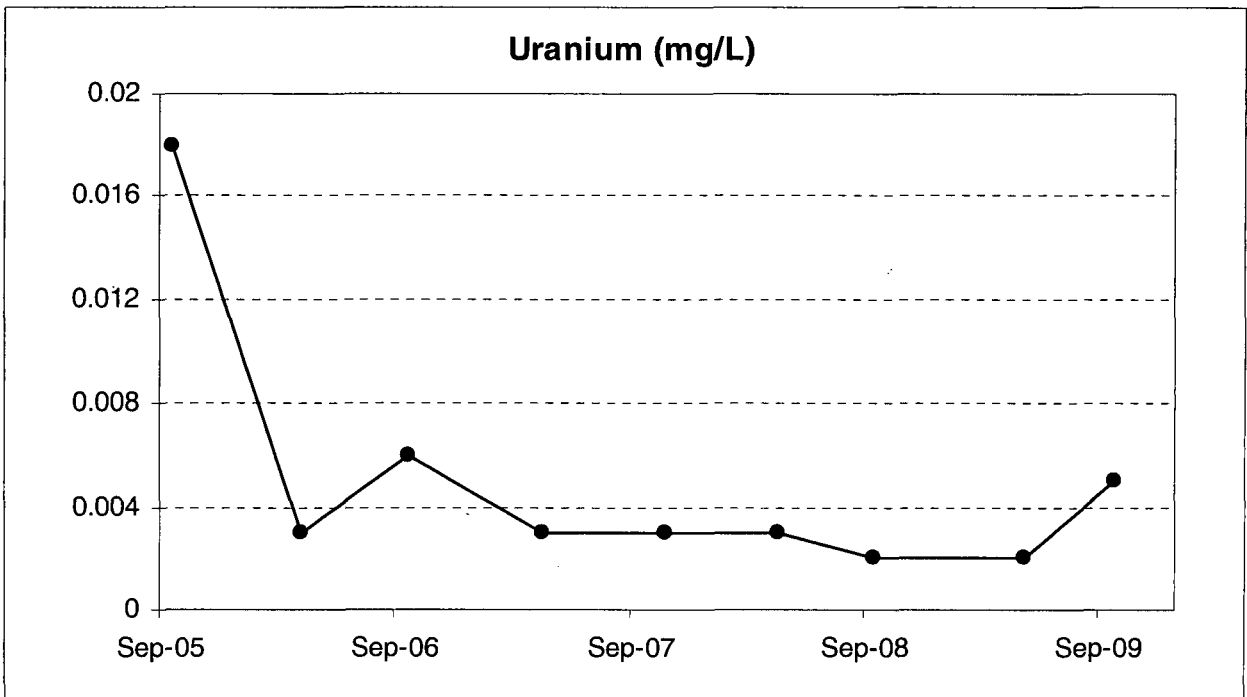
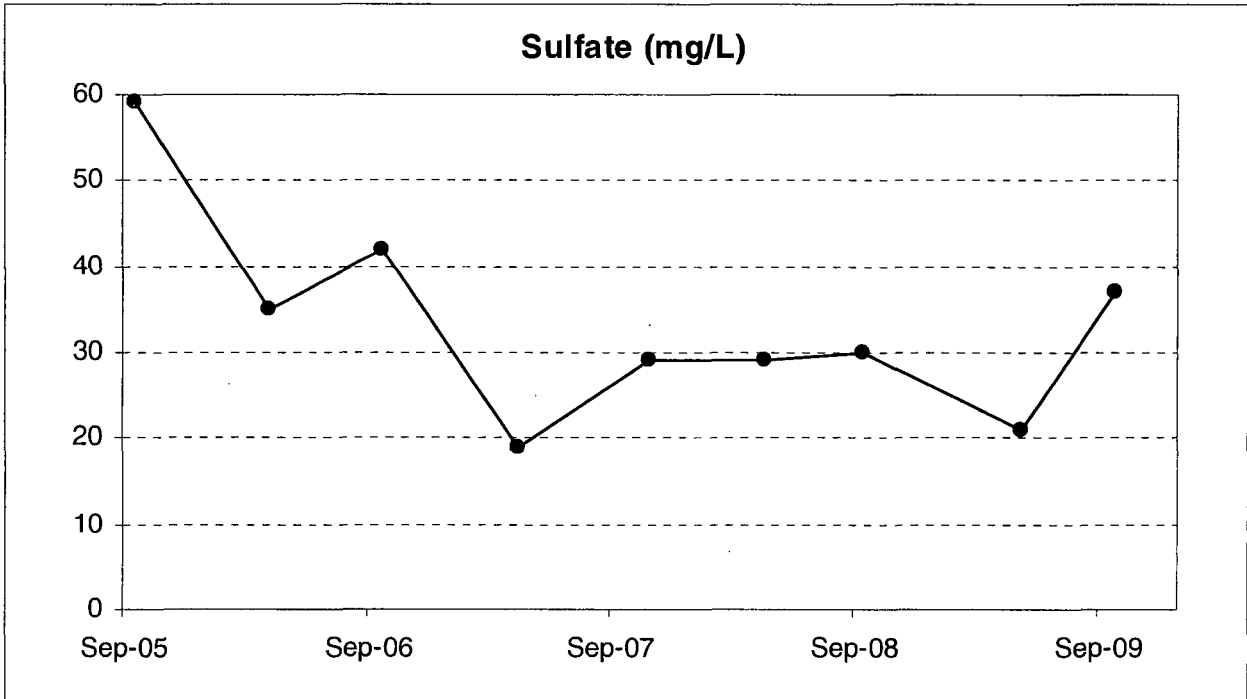
SW-5



Open symbols indicate value below detection limit

Jeffrey City

SW-5



Open symbols indicate value below detection limit



LABORATORY ANALYTICAL REPORT

Client: Western Nuclear
 Project: Split Rock Mill Site GWPP
 Lab ID: C09091173-011
 Client Sample ID: SWR-Upgradient

Report Date: 11/06/09
 Collection Date: 09/28/09 09:00
 Date Received: 09/30/09
 Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|-------------------------------------|--------|-------|------------|-------|-------------|-----------|------------------------|
| MAJOR IONS | | | | | | | |
| Chloride | 8 | mg/L | | 1 | | E300.0 | 10/05/09 20:37 / ljl |
| Fluoride | 0.3 | mg/L | | 0.1 | | A4500-F C | 10/06/09 13:29 / dvj |
| Nitrogen, Ammonia as N | ND | mg/L | | 0.05 | | E350.1 | 10/01/09 15:40 / eli-b |
| Nitrogen, Nitrate+Nitrite as N | ND | mg/L | | 0.2 | | E353.2 | 10/02/09 13:12 / eli-b |
| Sulfate | 32 | mg/L | | 1 | | E300.0 | 10/05/09 20:37 / ljl |
| PHYSICAL PROPERTIES | | | | | | | |
| pH | 8.25 | s.u. | | 0.01 | | A4500-H B | 09/30/09 15:49 / dd |
| Solids, Total Dissolved TDS @ 180 C | 190 | mg/L | | 10 | | A2540 C | 10/02/09 15:18 / th |
| METALS - DISSOLVED | | | | | | | |
| Aluminum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 17:14 / ts |
| Antimony | ND | mg/L | | 0.003 | | E200.8 | 10/01/09 17:14 / ts |
| Arsenic | ND | mg/L | | 0.01 | | E200.8 | 10/01/09 17:14 / ts |
| Beryllium | ND | mg/L | | 0.004 | | E200.8 | 10/01/09 17:14 / ts |
| Cadmium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 17:14 / ts |
| Lead | ND | mg/L | | 0.005 | | E200.8 | 10/01/09 17:14 / ts |
| Manganese | ND | mg/L | | 0.05 | | E200.8 | 10/01/09 17:14 / ts |
| Molybdenum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 17:14 / ts |
| Nickel | ND | mg/L | | 0.05 | | E200.8 | 10/01/09 17:14 / ts |
| Selenium | ND | mg/L | | 0.005 | | E200.8 | 10/01/09 17:14 / ts |
| Thallium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 17:14 / ts |
| Uranium | 0.003 | mg/L | | 0.001 | | E200.8 | 10/01/09 17:14 / ts |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | -0.1 | pCi/L | | U | | E903.0 | 10/28/09 13:22 / trs |
| Radium 226 precision (±) | 0.08 | pCi/L | | | | E903.0 | 10/28/09 13:22 / trs |
| Radium 226 MDC | 0.19 | pCi/L | | | | E903.0 | 10/28/09 13:22 / trs |
| Radium 228 | 0.5 | pCi/L | | U | | RA-05 | 10/20/09 12:33 / plj |
| Radium 228 precision (±) | 0.8 | pCi/L | | | | RA-05 | 10/20/09 12:33 / plj |
| Radium 228 MDC | 1.4 | pCi/L | | | | RA-05 | 10/20/09 12:33 / plj |
| Thorium 230 | 0.03 | pCi/L | | U | | E907.0 | 10/16/09 13:16 / dmf |
| Thorium 230 precision (±) | 0.1 | pCi/L | | | | E907.0 | 10/16/09 13:16 / dmf |
| Thorium 230 MDC | 0.2 | pCi/L | | | | E907.0 | 10/16/09 13:16 / dmf |
| FIELD PARAMETERS | | | | | | | |
| pH | 8.18 | s.u. | | | | FIELD | 09/28/09 09:00 / *** |
| *** Performed by Sampler | | | | | | | |

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Western Nuclear
 Project: Split Rock Mill Site GWPP
 Lab ID: C09091173-012
 Client Sample ID: SWR-A

Report Date: 11/06/09
 Collection Date: 09/28/09 09:15
 Date Received: 09/30/09
 Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|-------------------------------------|--------|-------|------------|-------|-------------|-----------|------------------------|
| MAJOR IONS | | | | | | | |
| Chloride | 8 | mg/L | | 1 | | E300.0 | 10/05/09 21:29 / ljl |
| Fluoride | 0.3 | mg/L | | 0.1 | | A4500-F C | 10/06/09 13:31 / dvq |
| Nitrogen, Ammonia as N | ND | mg/L | | 0.05 | | E350.1 | 10/01/09 15:41 / eli-b |
| Nitrogen, Nitrate+Nitrite as N | ND | mg/L | | 0.2 | | E353.2 | 10/02/09 13:32 / eli-b |
| Sulfate | 32 | mg/L | | 1 | | E300.0 | 10/05/09 21:29 / ljl |
| PHYSICAL PROPERTIES | | | | | | | |
| pH | 8.27 | s.u. | | 0.01 | | A4500-H B | 09/30/09 15:51 / dd |
| Solids, Total Dissolved TDS @ 180 C | 188 | mg/L | | 10 | | A2540 C | 10/02/09 15:18 / th |
| METALS - DISSOLVED | | | | | | | |
| Aluminum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 18:56 / ts |
| Antimony | ND | mg/L | | 0.003 | | E200.8 | 10/01/09 18:56 / ts |
| Arsenic | ND | mg/L | | 0.01 | | E200.8 | 10/01/09 18:56 / ts |
| Beryllium | ND | mg/L | | 0.004 | | E200.8 | 10/01/09 18:56 / ts |
| Cadmium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 18:56 / ts |
| Lead | ND | mg/L | | 0.005 | | E200.8 | 10/01/09 18:56 / ts |
| Manganese | ND | mg/L | | 0.05 | | E200.8 | 10/01/09 18:56 / ts |
| Molybdenum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 18:56 / ts |
| Nickel | ND | mg/L | | 0.05 | | E200.8 | 10/01/09 18:56 / ts |
| Selenium | ND | mg/L | | 0.005 | | E200.8 | 10/01/09 18:56 / ts |
| Thallium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 18:56 / ts |
| Uranium | 0.003 | mg/L | | 0.001 | | E200.8 | 10/01/09 18:56 / ts |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | -0.1 | pCi/L | | U | | E903.0 | 10/28/09 13:22 / trs |
| Radium 226 precision (±) | 0.09 | pCi/L | | | | E903.0 | 10/28/09 13:22 / trs |
| Radium 226 MDC | 0.20 | pCi/L | | | | E903.0 | 10/28/09 13:22 / trs |
| Radium 228 | 0.8 | pCi/L | | U | | RA-05 | 10/20/09 12:33 / plj |
| Radium 228 precision (±) | 0.9 | pCi/L | | | | RA-05 | 10/20/09 12:33 / plj |
| Radium 228 MDC | 1.4 | pCi/L | | | | RA-05 | 10/20/09 12:33 / plj |
| Thorium 230 | 0.1 | pCi/L | | U | | E907.0 | 10/16/09 13:16 / dmf |
| Thorium 230 precision (±) | 0.1 | pCi/L | | | | E907.0 | 10/16/09 13:16 / dmf |
| Thorium 230 MDC | 0.2 | pCi/L | | | | E907.0 | 10/16/09 13:16 / dmf |
| FIELD PARAMETERS | | | | | | | |
| pH | 7.91 | s.u. | | | | FIELD | 09/28/09 09:15 / *** |
| *** Performed by Sampler | | | | | | | |

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Western Nuclear
Project: Split Rock Mill Site GWPP
Lab ID: C09091173-013
Client Sample ID: SWR-B

Report Date: 11/06/09
Collection Date: 09/28/09 09:44
Date Received: 09/30/09
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|--|--------|-------|------------|-------|-------------|-----------|------------------------|
| MAJOR IONS | | | | | | | |
| Chloride | 10 | mg/L | | 1 | | E300.0 | 10/05/09 21:47 / ljl |
| Fluoride | 0.3 | mg/L | | 0.1 | | A4500-F C | 10/06/09 13:34 / dvq |
| Nitrogen, Ammonia as N | ND | mg/L | | 0.05 | | E350.1 | 10/01/09 15:43 / eli-b |
| Nitrogen, Nitrate+Nitrite as N | ND | mg/L | | 0.2 | | E353.2 | 10/02/09 13:33 / eli-b |
| Sulfate | 34 | mg/L | | 1 | | E300.0 | 10/05/09 21:47 / ljl |
| PHYSICAL PROPERTIES | | | | | | | |
| pH | 8.26 | s.u. | | 0.01 | | A4500-H B | 09/30/09 15:52 / dd |
| Solids, Total Dissolved TDS @ 180 C | 213 | mg/L | | 10 | | A2540 C | 10/02/09 15:20 / th |
| METALS - DISSOLVED | | | | | | | |
| Aluminum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 19:03 / ts |
| Antimony | ND | mg/L | | 0.003 | | E200.8 | 10/01/09 19:03 / ts |
| Arsenic | ND | mg/L | | 0.01 | | E200.8 | 10/01/09 19:03 / ts |
| Beryllium | ND | mg/L | | 0.004 | | E200.8 | 10/01/09 19:03 / ts |
| Cadmium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 19:03 / ts |
| Lead | ND | mg/L | | 0.005 | | E200.8 | 10/01/09 19:03 / ts |
| Manganese | ND | mg/L | | 0.05 | | E200.8 | 10/01/09 19:03 / ts |
| Molybdenum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 19:03 / ts |
| Nickel | ND | mg/L | | 0.05 | | E200.8 | 10/01/09 19:03 / ts |
| Selenium | ND | mg/L | | 0.005 | | E200.8 | 10/01/09 19:03 / ts |
| Thallium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 19:03 / ts |
| Uranium | 0.004 | mg/L | | 0.001 | | E200.8 | 10/01/09 19:03 / ts |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | -0.1 | pCi/L | | U | | E903.0 | 10/28/09 13:22 / trs |
| Radium 226 precision (±) | 0.08 | pCi/L | | | | E903.0 | 10/28/09 13:22 / trs |
| Radium 226 MDC | 0.20 | pCi/L | | | | E903.0 | 10/28/09 13:22 / trs |
| Radium 228 | 0.5 | pCi/L | | U | | RA-05 | 10/20/09 12:33 / plj |
| Radium 228 precision (±) | 0.8 | pCi/L | | | | RA-05 | 10/20/09 12:33 / plj |
| Radium 228 MDC | 1.4 | pCi/L | | | | RA-05 | 10/20/09 12:33 / plj |
| Thorium 230 | 0.02 | pCi/L | | U | | E907.0 | 10/16/09 13:16 / dmf |
| Thorium 230 precision (±) | 0.1 | pCi/L | | | | E907.0 | 10/16/09 13:16 / dmf |
| Thorium 230 MDC | 0.3 | pCi/L | | | | E907.0 | 10/16/09 13:16 / dmf |
| - See Case Narrative regarding Th230 analysis. | | | | | | | |
| FIELD PARAMETERS | | | | | | | |
| pH | 7.74 | s.u. | | | | FIELD | 09/28/09 09:44 / *** |
| *** Performed by Sampler | | | | | | | |

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Western Nuclear
 Project: Split Rock Mill Site GWPP
 Lab ID: C09091173-014
 Client Sample ID: SWR-C

Report Date: 11/06/09
 Collection Date: 09/28/09 10:01
 Date Received: 09/30/09
 Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|--------------------------------|--------|-------|------------|------|-------------|-----------|------------------------|
| MAJOR IONS | | | | | | | |
| Chloride | 11 | mg/L | | 1 | | E300.0 | 10/05/09 22:04 / ljl |
| Fluoride | 0.3 | mg/L | | 0.1 | | A4500-F C | 10/06/09 13:50 / dvg |
| Nitrogen, Ammonia as N | ND | mg/L | | 0.05 | | E350.1 | 10/01/09 15:44 / eli-b |
| Nitrogen, Nitrate+Nitrite as N | ND | mg/L | | 0.2 | | E353.2 | 10/02/09 13:35 / eli-b |
| Sulfate | 36 | mg/L | | 1 | | E300.0 | 10/05/09 22:04 / ljl |

PHYSICAL PROPERTIES

| | | | | | | | |
|-------------------------------------|------|------|---|------|--|-----------|---------------------|
| pH | 8.34 | s.u. | | 0.01 | | A4500-H B | 09/30/09 15:53 / dd |
| Solids, Total Dissolved TDS @ 180 C | 229 | mg/L | H | 10 | | A2540 C | 10/08/09 14:39 / th |

- H-Original analysis was done within hold time. Data is from recheck analysis.

METALS - DISSOLVED

| | | | | | | | |
|------------|-------|------|--|-------|--|--------|---------------------|
| Aluminum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 19:23 / ts |
| Antimony | ND | mg/L | | 0.003 | | E200.8 | 10/01/09 19:23 / ts |
| Arsenic | ND | mg/L | | 0.01 | | E200.8 | 10/01/09 19:23 / ts |
| Beryllium | ND | mg/L | | 0.004 | | E200.8 | 10/01/09 19:23 / ts |
| Cadmium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 19:23 / ts |
| Lead | ND | mg/L | | 0.005 | | E200.8 | 10/01/09 19:23 / ts |
| Manganese | ND | mg/L | | 0.05 | | E200.8 | 10/01/09 19:23 / ts |
| Molybdenum | ND | mg/L | | 0.1 | | E200.8 | 10/01/09 19:23 / ts |
| Nickel | ND | mg/L | | 0.05 | | E200.8 | 10/01/09 19:23 / ts |
| Selenium | ND | mg/L | | 0.005 | | E200.8 | 10/01/09 19:23 / ts |
| Thallium | ND | mg/L | | 0.001 | | E200.8 | 10/01/09 19:23 / ts |
| Uranium | 0.006 | mg/L | | 0.001 | | E200.8 | 10/01/09 19:23 / ts |

RADIONUCLIDES - DISSOLVED

| | | | | | | | |
|---------------------------|------|-------|---|--|--|--------|----------------------|
| Radium 226 | -0.1 | pCi/L | U | | | E903.0 | 10/28/09 13:22 / trs |
| Radium 226 precision (±) | 0.08 | pCi/L | | | | E903.0 | 10/28/09 13:22 / trs |
| Radium 226 MDC | 0.20 | pCi/L | | | | E903.0 | 10/28/09 13:22 / trs |
| Radium 228 | -0.3 | pCi/L | U | | | RA-05 | 10/20/09 12:33 / plj |
| Radium 228 precision (±) | 0.8 | pCi/L | | | | RA-05 | 10/20/09 12:33 / plj |
| Radium 228 MDC | 1.4 | pCi/L | | | | RA-05 | 10/20/09 12:33 / plj |
| Thorium 230 | 0.04 | pCi/L | U | | | E907.0 | 10/16/09 17:26 / dmf |
| Thorium 230 precision (±) | 0.2 | pCi/L | | | | E907.0 | 10/16/09 17:26 / dmf |
| Thorium 230 MDC | 0.3 | pCi/L | | | | E907.0 | 10/16/09 17:26 / dmf |

- See Case Narrative regarding Th230 analysis.

FIELD PARAMETERS

| | | | | | | | |
|----|------|------|--|--|--|-------|----------------------|
| pH | 8.01 | s.u. | | | | FIELD | 09/28/09 10:01 / *** |
|----|------|------|--|--|--|-------|----------------------|

*** Performed by Sampler

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Client: Western Nuclear
 Project: Split Rock Mill Site GWPP
 Lab ID: C09091173-015
 Client Sample ID: SWR-Downgradient

Report Date: 11/06/09
 Collection Date: 09/28/09 10:17
 Date Received: 09/30/09
 Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|--|--------|-------|------------|-------|-------------|--------|------------------------|
| MAJOR IONS | | | | | | | |
| Chloride | 11 | mg/L | | 1 | E300.0 | | 10/05/09 22:21 / ljl |
| Fluoride | 0.3 | mg/L | | 0.1 | A4500-F C | | 10/06/09 13:53 / dvq |
| Nitrogen, Ammonia as N | ND | mg/L | | 0.05 | E350.1 | | 10/01/09 15:47 / eli-b |
| Nitrogen, Nitrate+Nitrite as N | ND | mg/L | | 0.2 | E353.2 | | 10/02/09 13:36 / eli-b |
| Sulfate | 37 | mg/L | | 1 | E300.0 | | 10/05/09 22:21 / ljl |
| PHYSICAL PROPERTIES | | | | | | | |
| pH | 8.40 | s.u. | | 0.01 | A4500-H B | | 09/30/09 15:55 / dd |
| Solids, Total Dissolved TDS @ 180 C | 214 | mg/L | | 10 | A2540 C | | 10/02/09 15:35 / th |
| METALS - DISSOLVED | | | | | | | |
| Aluminum | ND | mg/L | | 0.1 | E200.8 | | 10/01/09 19:30 / ts |
| Antimony | ND | mg/L | | 0.003 | E200.8 | | 10/01/09 19:30 / ts |
| Arsenic | ND | mg/L | | 0.01 | E200.8 | | 10/01/09 19:30 / ts |
| Beryllium | ND | mg/L | | 0.004 | E200.8 | | 10/01/09 19:30 / ts |
| Cadmium | ND | mg/L | | 0.001 | E200.8 | | 10/01/09 19:30 / ts |
| Lead | ND | mg/L | | 0.005 | E200.8 | | 10/01/09 19:30 / ts |
| Manganese | ND | mg/L | | 0.05 | E200.8 | | 10/01/09 19:30 / ts |
| Molybdenum | ND | mg/L | | 0.1 | E200.8 | | 10/01/09 19:30 / ts |
| Nickel | ND | mg/L | | 0.05 | E200.8 | | 10/01/09 19:30 / ts |
| Selenium | ND | mg/L | | 0.005 | E200.8 | | 10/01/09 19:30 / ts |
| Thallium | ND | mg/L | | 0.001 | E200.8 | | 10/01/09 19:30 / ts |
| Uranium | 0.005 | mg/L | | 0.001 | E200.8 | | 10/01/09 19:30 / ts |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | -0.08 | pCi/L | | U | E903.0 | | 10/28/09 13:22 / trs |
| Radium 226 precision (±) | 0.09 | pCi/L | | | E903.0 | | 10/28/09 13:22 / trs |
| Radium 226 MDC | 0.19 | pCi/L | | | E903.0 | | 10/28/09 13:22 / trs |
| Radium 228 | 0.08 | pCi/L | | U | RA-05 | | 10/20/09 12:33 / plj |
| Radium 228 precision (±) | 0.8 | pCi/L | | | RA-05 | | 10/20/09 12:33 / plj |
| Radium 228 MDC | 1.3 | pCi/L | | | RA-05 | | 10/20/09 12:33 / plj |
| Thorium 230 | -0.06 | pCi/L | | U | E907.0 | | 10/16/09 17:26 / dmf |
| Thorium 230 precision (±) | 0.2 | pCi/L | | | E907.0 | | 10/16/09 17:26 / dmf |
| Thorium 230 MDC | 0.4 | pCi/L | | | E907.0 | | 10/16/09 17:26 / dmf |
| - See Case Narrative regarding Th230 analysis. | | | | | | | |
| FIELD PARAMETERS | | | | | | | |
| pH | 8.10 | s.u. | | | FIELD | | 09/28/09 10:17 / *** |
| *** Performed by Sampler | | | | | | | |

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration