WESTERN NUCLEAR, INC.

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May 8, 2007

Mr. Gary S. Janosko, Chief
Uranium Processing Section
Division of Fuel Cycle Safety and Safeguards
U.S. Nuclear Regulatory Commission
MS T8 A33
Washington, DC 20555

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

Dear Mr. Janosko:

The following transmits the results of the surface water and groundwater sampling results for the first and second halves of 2006 for the Split Rock Uranium mill tailings facility. This monitoring was performed as required by license conditions 24 and 74.

On June 15, 2005 the above reference license was amended via license amendment number 98. This amendment changed both license conditions 24 and 74 to require a different suite of wells to be monitored and additional surface water monitoring locations than had been sampled previously. The amendment also changed the parameters that were analyzed and the frequency of monitoring from quarterly to semi-annual.

Figure 1 shows the location of the monitor wells and the surface water sample locations.

Table 1 presents the analytical results. Figures are also included in the attachment, 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. No data were reported for monitor well SWAB-12 for the second half because there was insufficient water in the well to provide a valid sample.

In all cases the data indicate that surface water and groundwater quality are as within expected ranges and that the system is behaving as predicted.

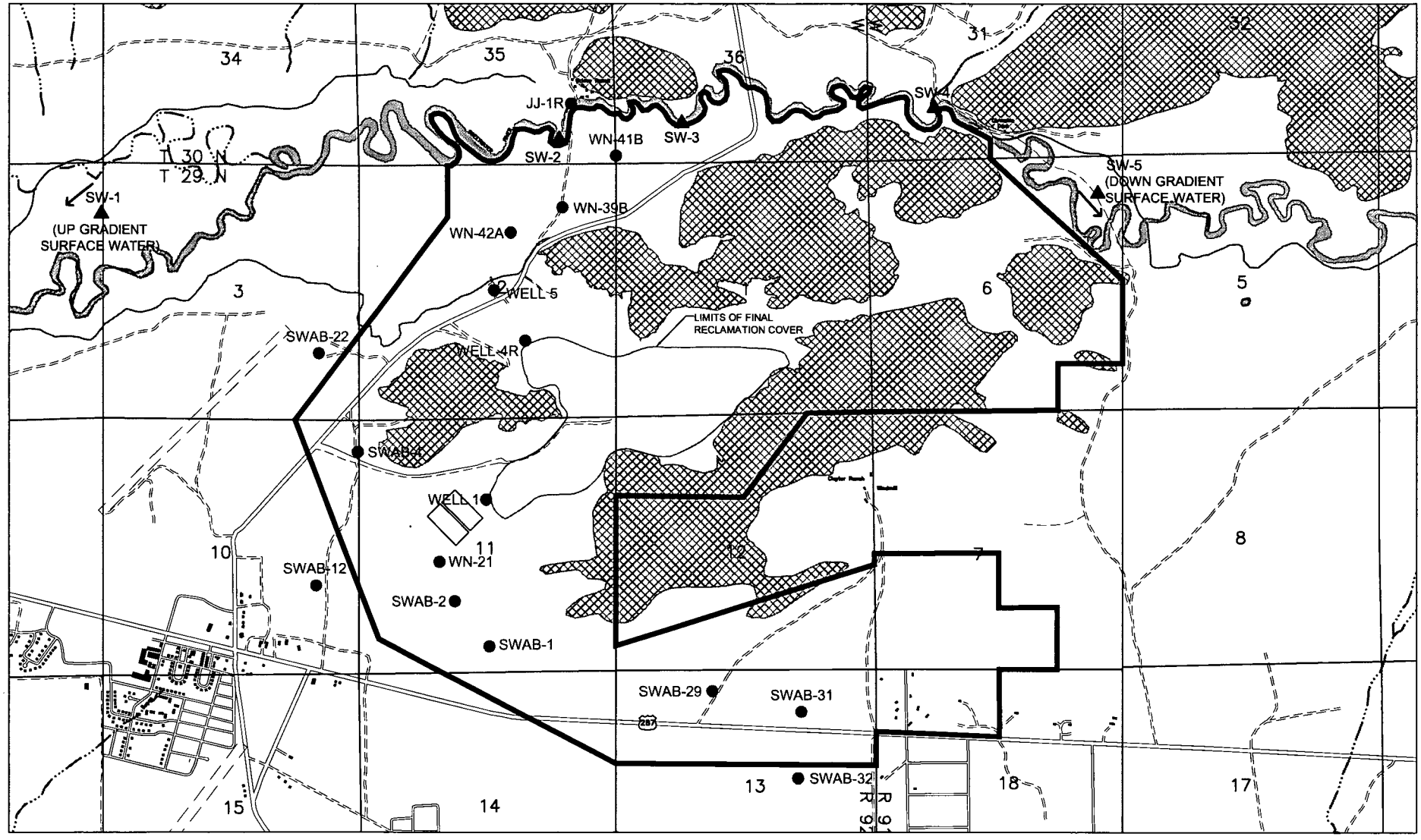
If you have any questions, please contact me at your convenience.

Sincerely,

for

Lawrence J. Corte
President

cc. Mark Thiesse, WDEQ



LEGEND

● MONITORING WELL LOCATIONS ▲ SURFACE WATER SAMPLE LOCATIONS

PROPOSED LONG-TERM CARE BOUNDARY

SCALE IN FEET

0 3000

NORTH

MFG, Inc.
consulting scientists and engineers

FIGURE 1
SURFACE WATER AND GROUND WATER MONITORING LOCATIONS

Date:	APRIL 2006
Project:	003-347/2006
File:	GW-MONIT-01.DWG

Semi-Annual Groundwater and Surface Water Compliance Monitoring Results First Half of Year 2006

WNI Split Rock Mill
Groundwater And Surface Water Quality
Semi-Annual Report

1st Half-2006 (Sampled: 4/5/2006 to 4/7/2006)

Groundwater

Parameter	*WELL-1*	*WELL-4R*	*WELL-5*	*WN-21*	*WN-39B*	*WN-41B*	*WN-42A*
Aluminum (D) (mg/L)	<0.1	1.6	<0.1	<0.1			
Ammonia as N (mg/L)	0.0274	0.2839	0.0004	0.0257			
Antimony (mg/L)	<0.05	<0.05	<0.05	<0.05			
Arsenic (D) (mg/L)	<0.01	<0.01	0.002	<0.01			
Beryllium (D) (mg/L)	<0.004	<0.004	<0.004	<0.004			
Cadmium (D) (mg/L)	<0.001	0.02	<0.001	<0.001			
Chloride (mg/L)	75	111	142	13			
Cond Field (uS/cm)	4090	5980	4320	780	878	1820	2900
Fluoride (mg/L)	0.4	9.1	<0.1	0.2			
Lead (D) (mg/L)	<0.005	<0.005	<0.005	<0.005			
Manganese (D) (mg/L)	4.06	39.7	0.34	0.26			
Molybdenum (D) (mg/L)	<0.1	<0.1	<0.1	<0.1			
Nickel (D) (mg/L)	<0.05	0.45	<0.05	<0.05			
Nitrate as N (mg/L)	44.3	89	62	7.9			
pH Field (std. units)	6.25	6.15	6.58	7.54	7.57	7.82	6.86
pH Lab (std. units)	7.12	6.79	7.34	8.13			
Radium-226 (D) (pCi/L)	<1	<1	<1	<1			
Radium-228 (D) (pCi/L)	<2	<2	<2	<2			
Selenium (D) (mg/L)	0.009	0.029	0.018	<0.005			
Sulfate (mg/L)	1430	2600	1770	124	296	370	2100
TDS (mg/L)	3440	4520	3770	472			
Temp Field (C)	10.8	8	10.7	8.7	6.7	7.6	6.83
Thalium (mg/L)	<0.1	<0.1	<0.1	<0.1			
Thorium-230 (D) (pCi/L)	<0.4	<0.4	<0.4	<0.4			
Uranium (D) (mg/L)	4.08	0.435	2.02	0.122	0.377	0.01	0.952
Water Elevation (ft)	6295.8	6286.3	6281	6295.8	6274.5	6272.3	6277.8

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.

WNI Split Rock Mill
Groundwater And Surface Water Quality
Semi-Annual Report

1st Half-2006 (Sampled: 4/5/2006 to 4/7/2006)

	Groundwater						
Parameter	***JJ-1R***	***SWAB-1***	***SWAB-12***	***SWAB-2***	***SWAB-22***	***SWAB-29***	***SWAB-31***
Aluminum (D) (mg/L)							
Ammonia as N (mg/L)							
Antimony (mg/L)							
Arsenic (D) (mg/L)							
Beryllium (D) (mg/L)							
Cadmium (D) (mg/L)							
Chloride (mg/L)							
Cond Field (uS/cm)	640	1662	693	4370	503	364	319
Fluoride (mg/L)							
Lead (D) (mg/L)							
Manganese (D) (mg/L)							
Molybdenum (D) (mg/L)							
Nickel (D) (mg/L)							
Nitrate as N (mg/L)							
pH Field (std. units)	7.35	7.35	7.7	6.97	7.63	7.73	7.83
pH Lab (std. units)							
Radium-226 (D) (pCi/L)							
Radium-228 (D) (pCi/L)							
Selenium (D) (mg/L)							
Sulfate (mg/L)	64	398	105	1290	56	51	29
TDS (mg/L)							
Temp Field (C)	5.01	8.1	10.6	10.2	6.4	9.94	9.8
Thalium (mg/L)							
Thorium-230 (D) (pCi/L)							
Uranium (D) (mg/L)	0.016	0.643	0.061	1.35	0.027	0.047	0.033
Water Elevation (ft)		6293	6295.8	6294.8	6288	6280.4	6273

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.

WNI Split Rock Mill
Groundwater And Surface Water Quality
Semi-Annual Report

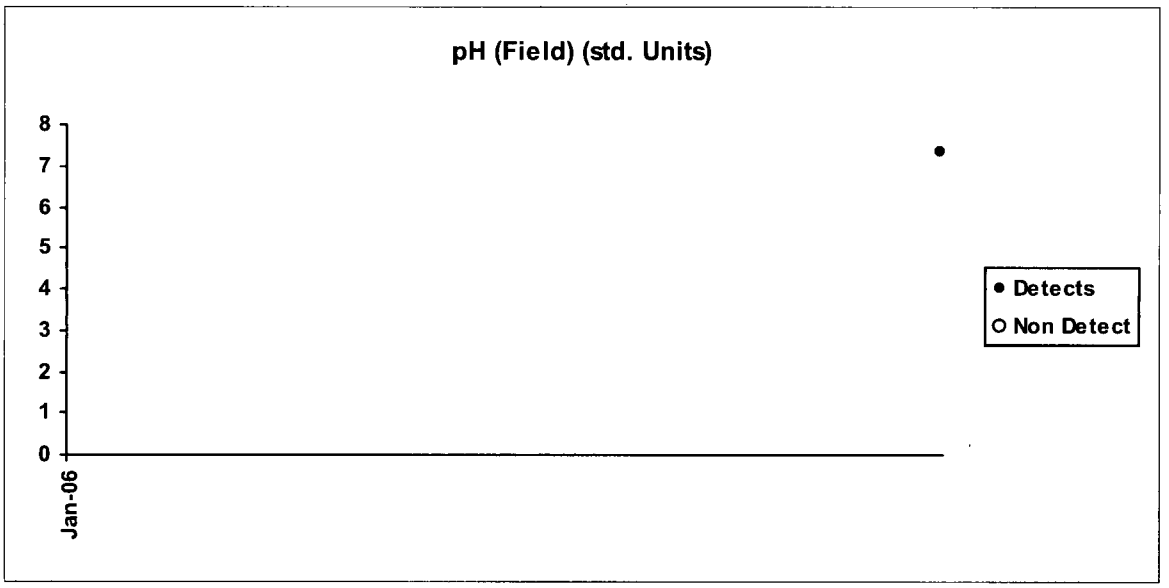
1st Half-2006 (Sampled: 4/5/2006 to 4/7/2006)

		Groundwater		***Surface Water***			
Parameter	***SWAB-32***	***SWAB-4***	***SW-1***	***SW-2***	***SW-3***	***SW-4***	***SWR-5***
Aluminum (D) (mg/L)							
Ammonia as N (mg/L)							
Antimony (mg/L)							
Arsenic (D) (mg/L)							
Beryllium (D) (mg/L)							
Cadmium (D) (mg/L)							
Chloride (mg/L)							
Cond Field (uS/cm)	441	1649	159	156	157	163	164
Fluoride (mg/L)							
Lead (D) (mg/L)							
Manganese (D) (mg/L)							
Molybdenum (D) (mg/L)							
Nickel (D) (mg/L)							
Nitrate as N (mg/L)							
pH Field (std. units)	8	7.23	5.66	7.67	7.58	6.57	5.94
pH Lab (std. units)							
Radium-226 (D) (pCi/L)							
Radium-228 (D) (pCi/L)							
Selenium (D) (mg/L)							
Sulfate (mg/L)	51	428	19	21	20	21	35
TDS (mg/L)							
Temp Field (C)	11	7.7	5.9	4.3	4.4	4.9	4.7
Thalium (mg/L)							
Thorium-230 (D) (pCi/L)							
Uranium (D) (mg/L)	0.139	0.539	0.003	0.003	0.003	0.003	0.003
Water Elevation (ft)	6274.8	6292.7					

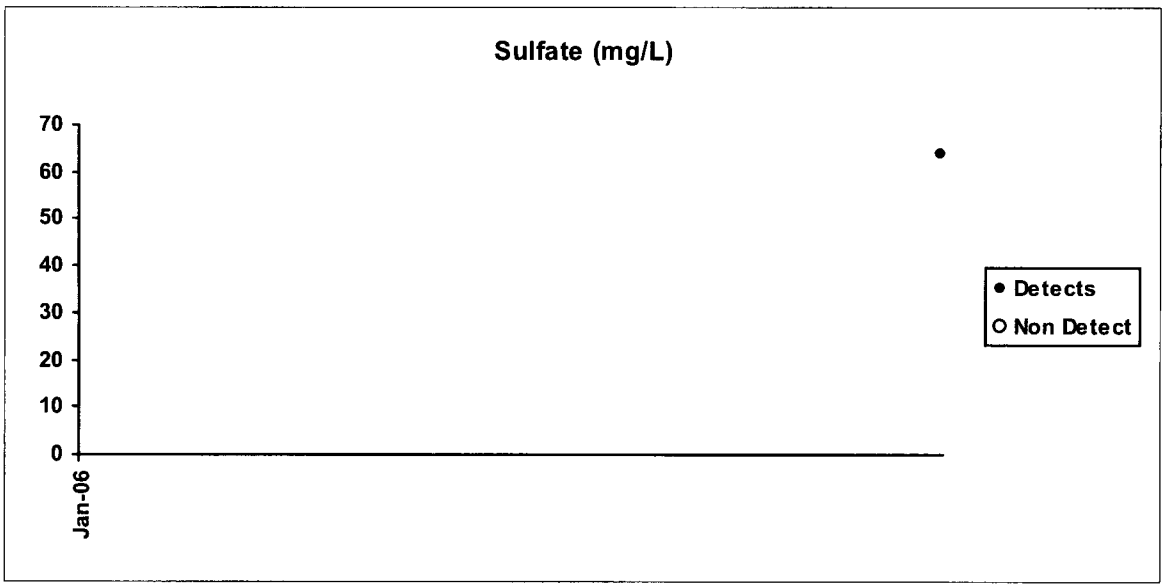
NH3-N is the free ammonia concentration, calculated from the laboratory reported total ammonia concentration and field measured pH, consistent with the method used to determine the ACL for ammonia.

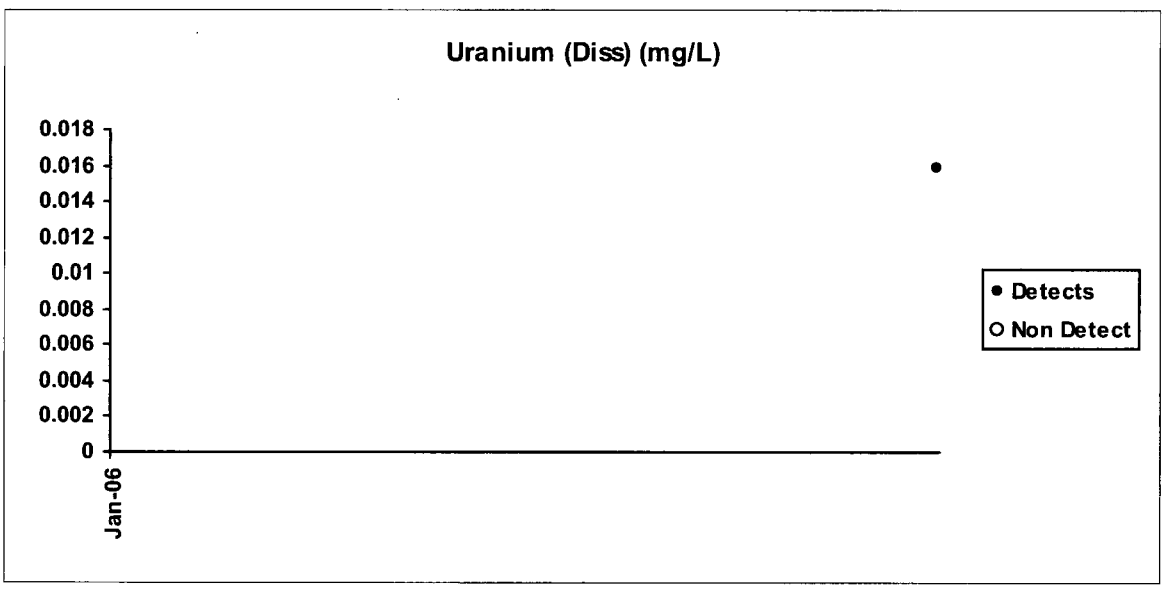
GROUNDWATER

Jeffrey City JJ-1R



Jeffrey City JJ-1R





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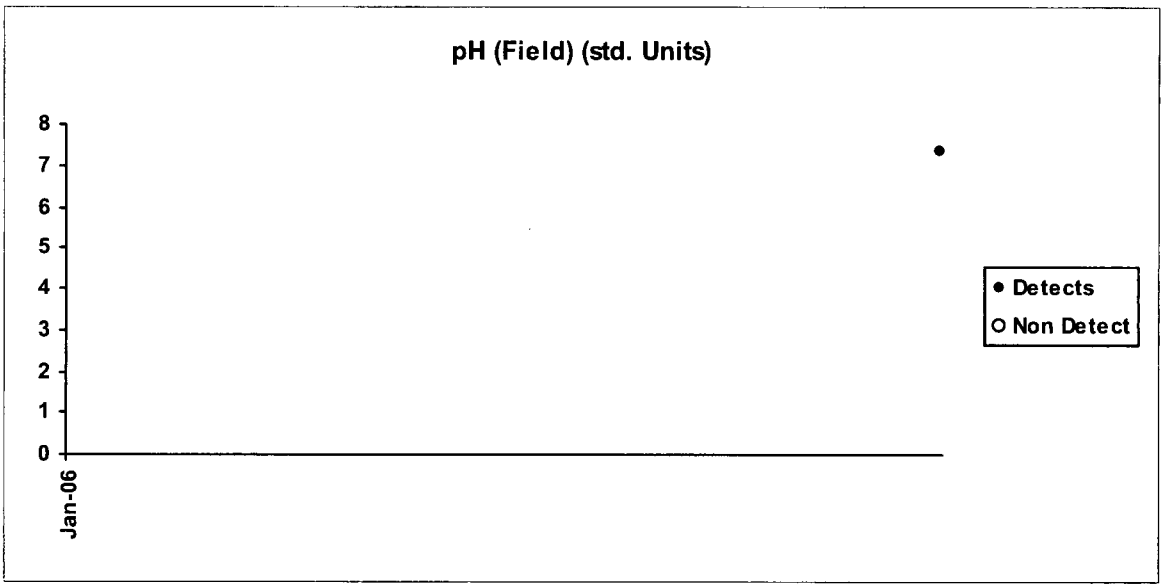

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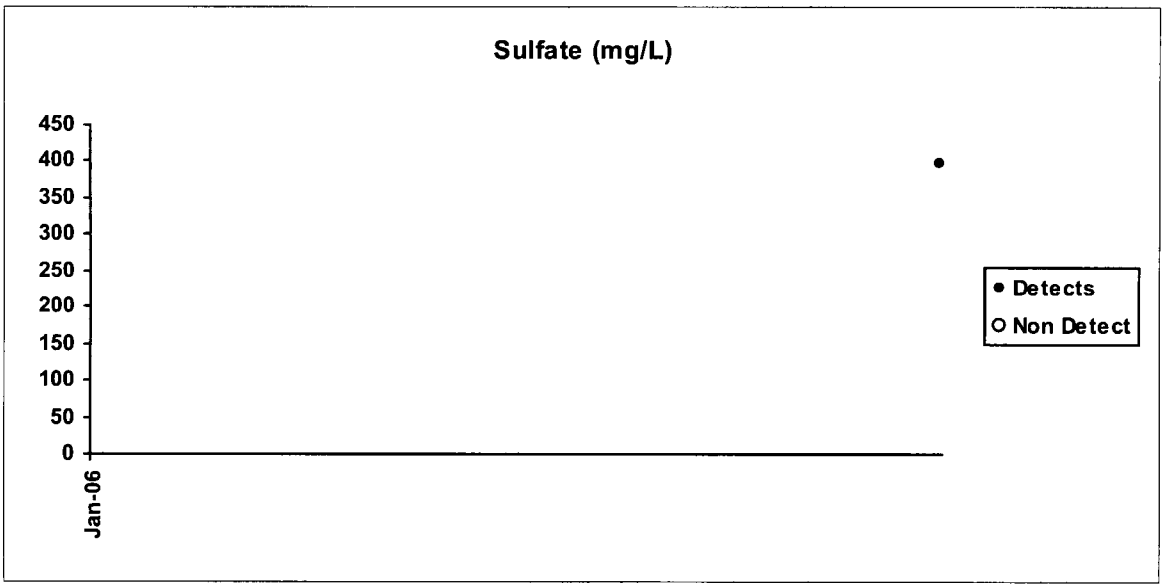

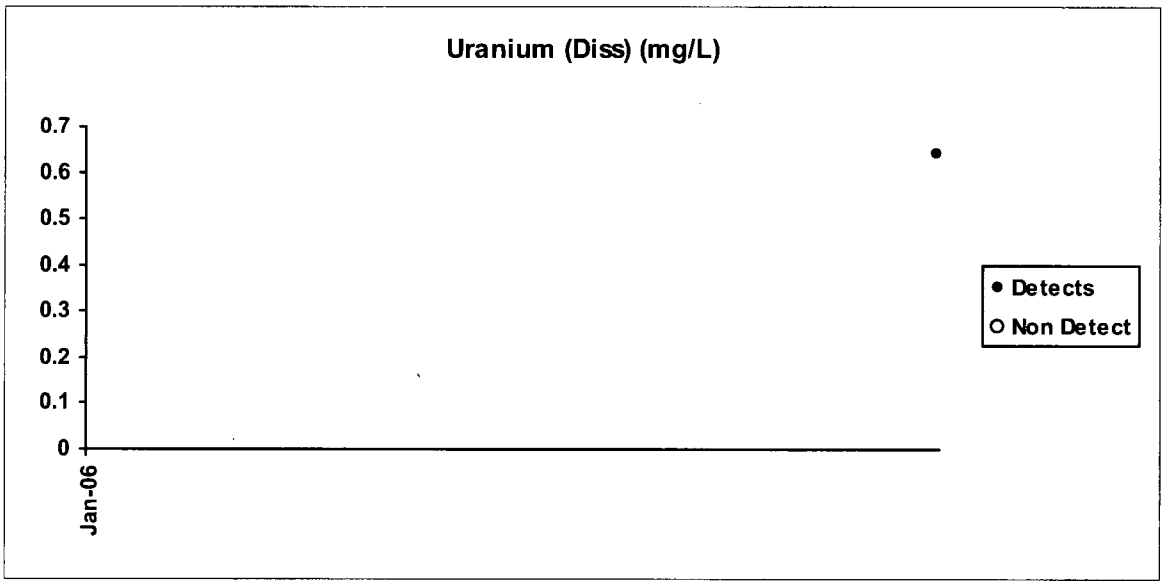

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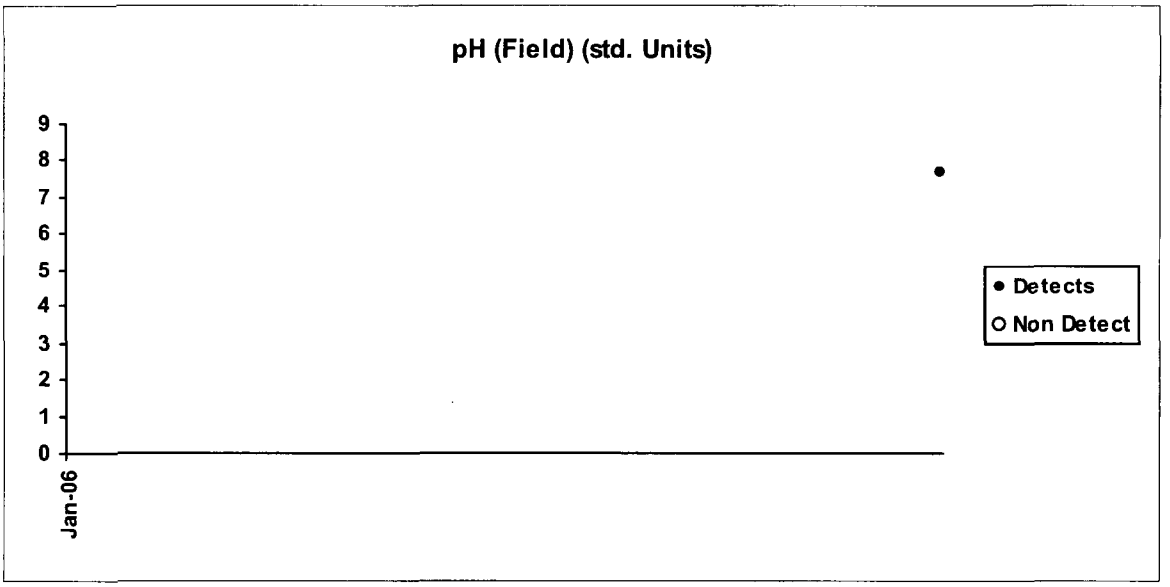

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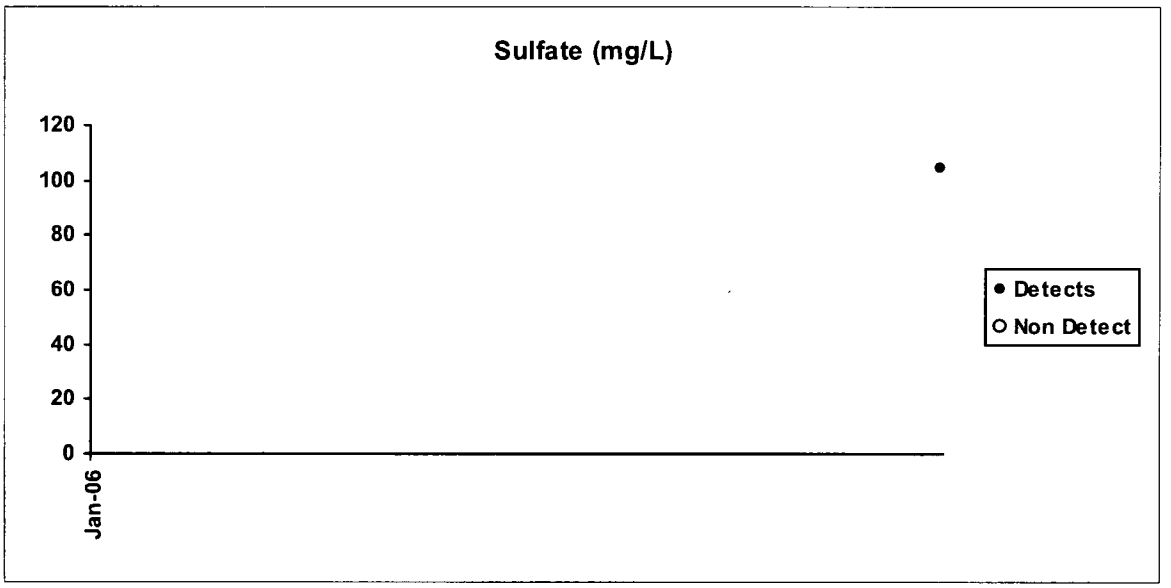

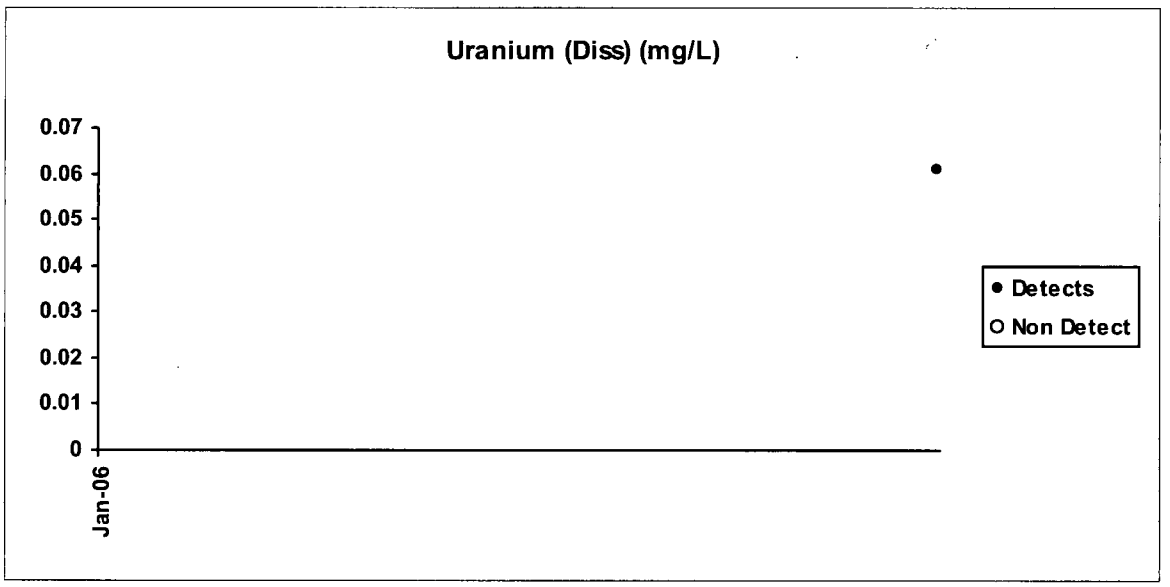

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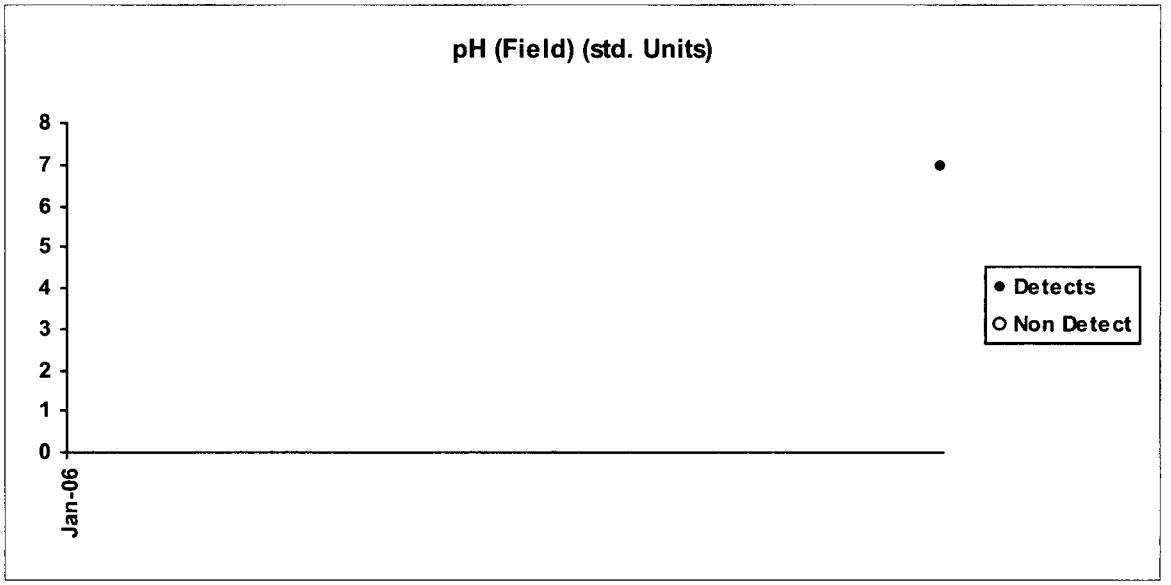

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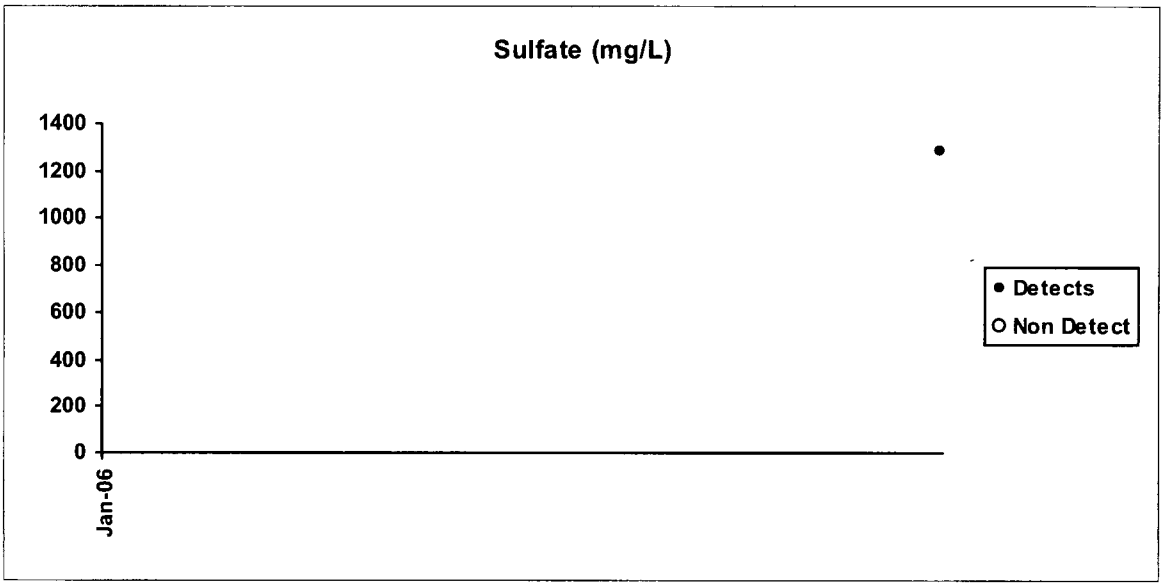

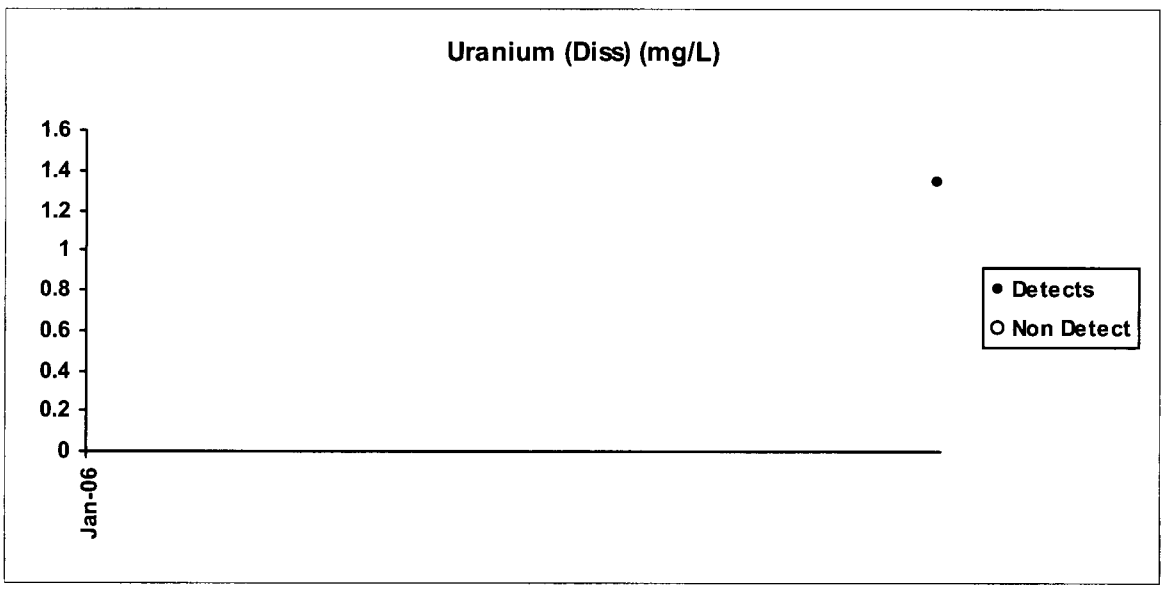

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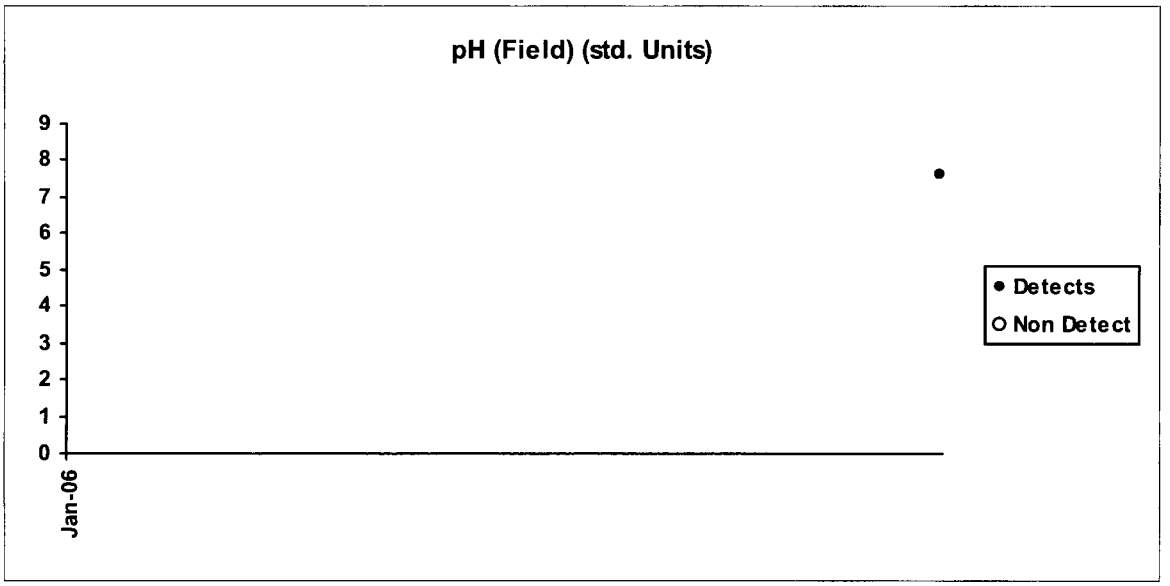

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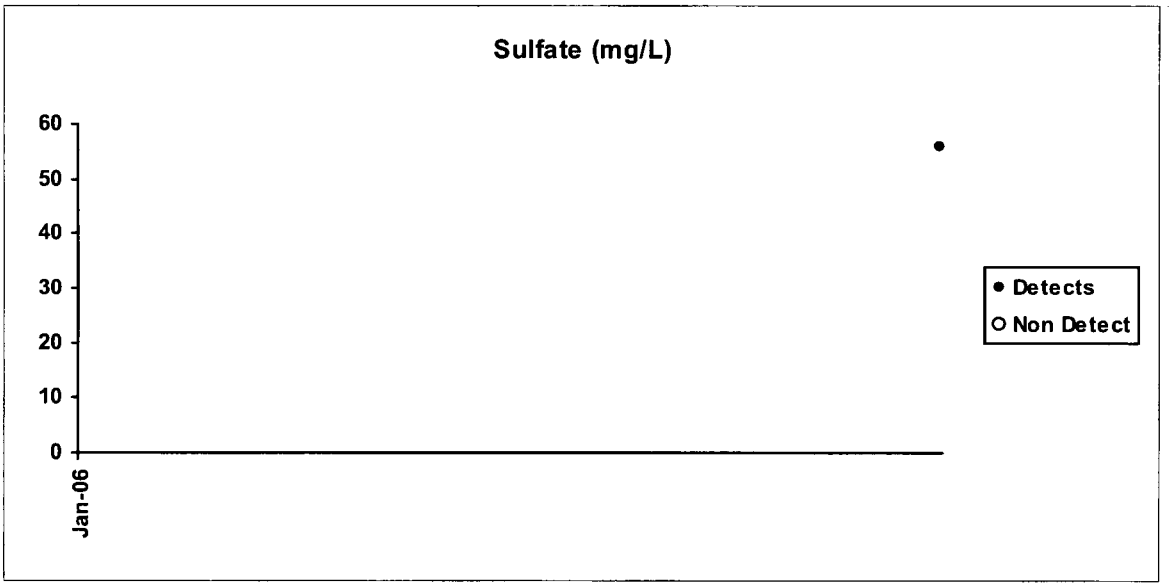

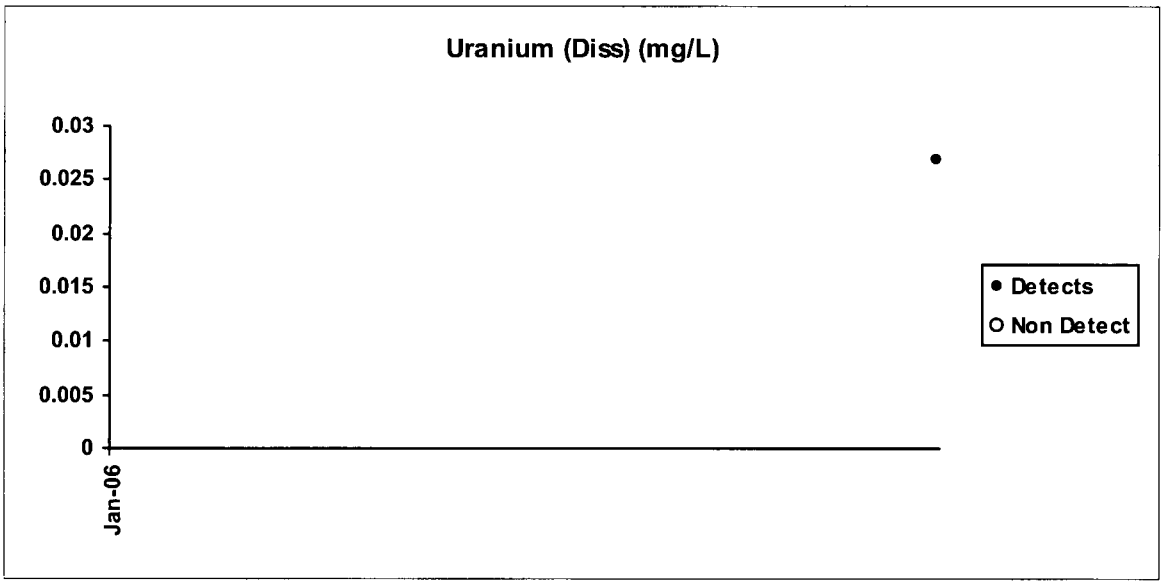

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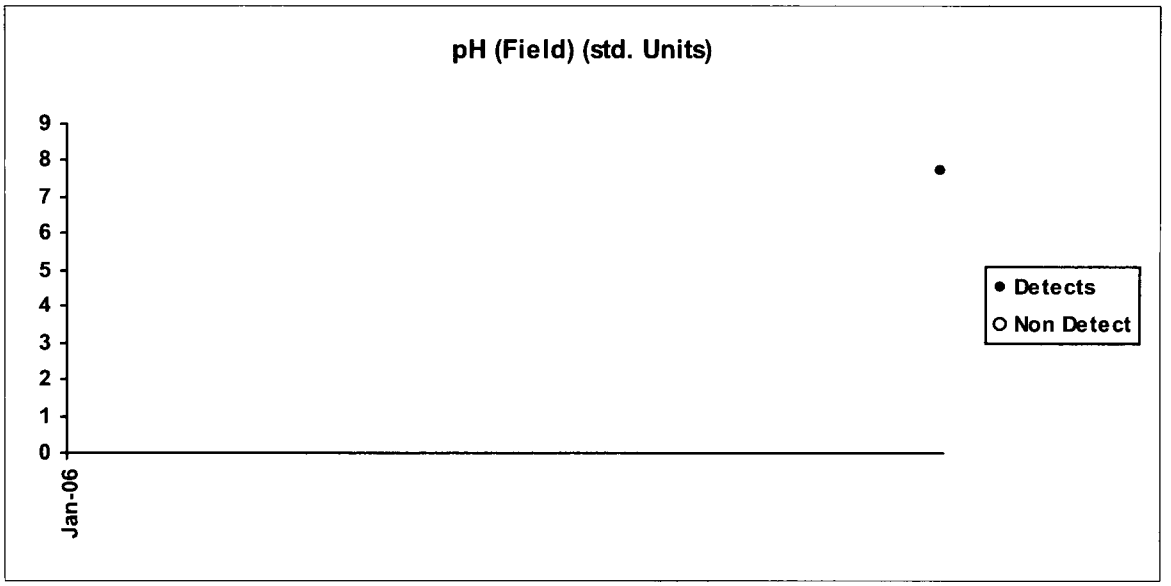

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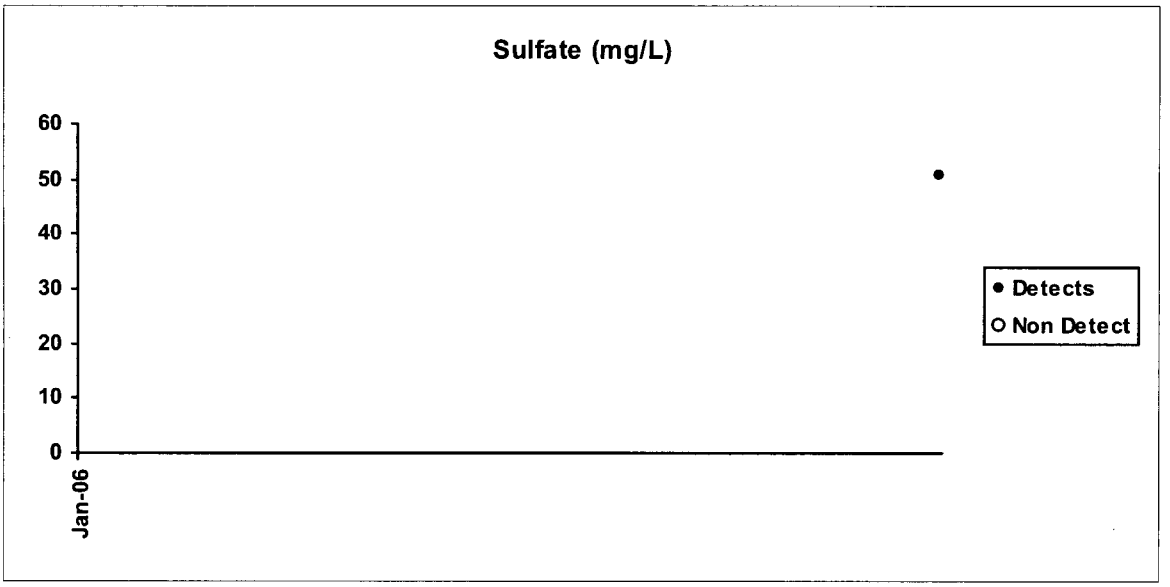

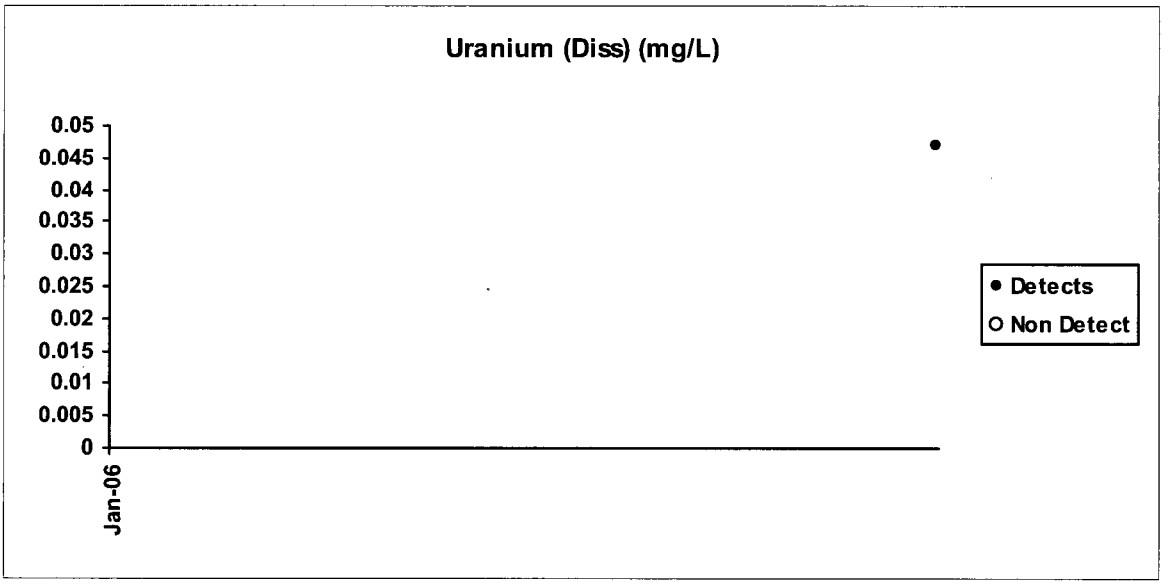

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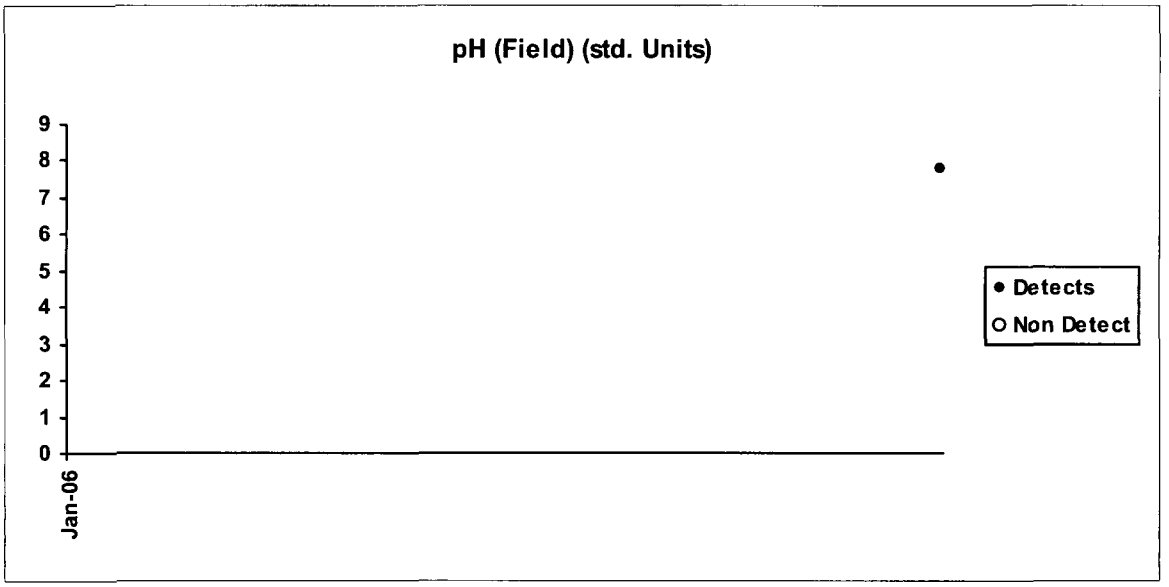

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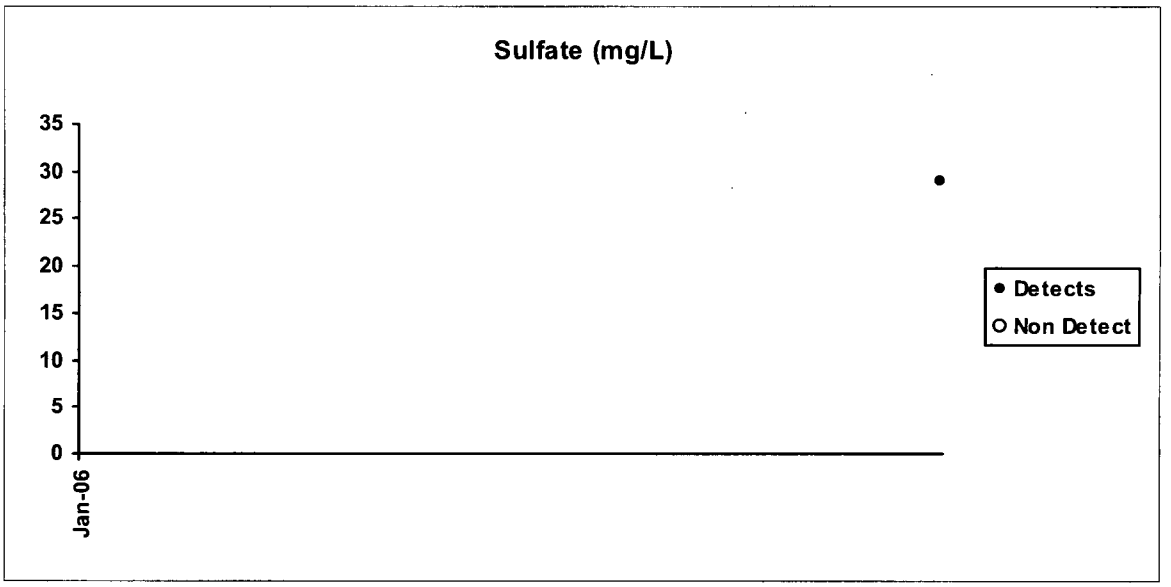

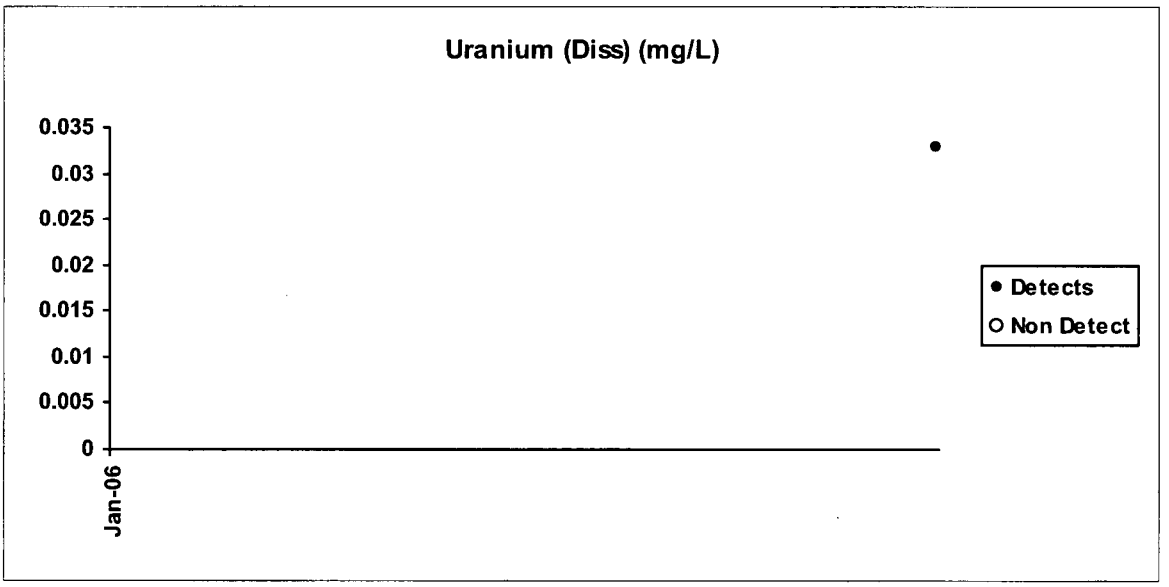

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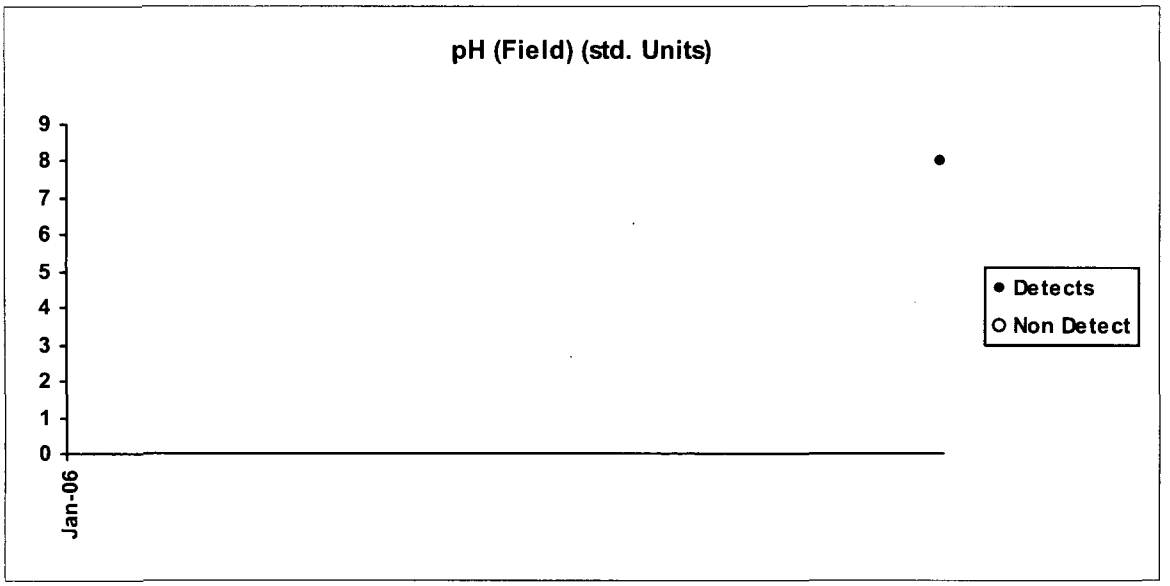

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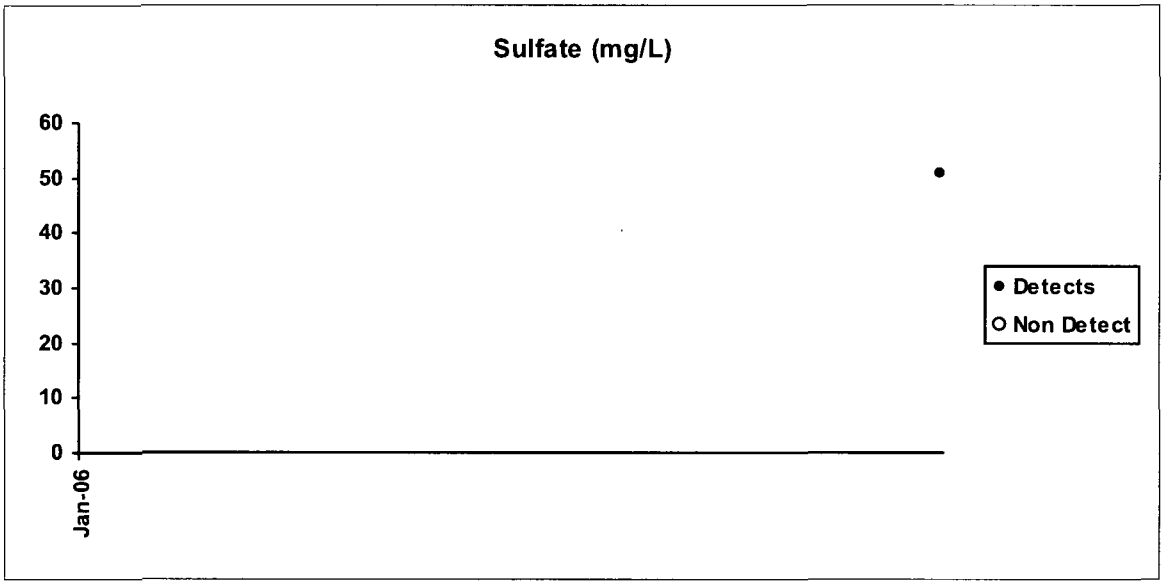

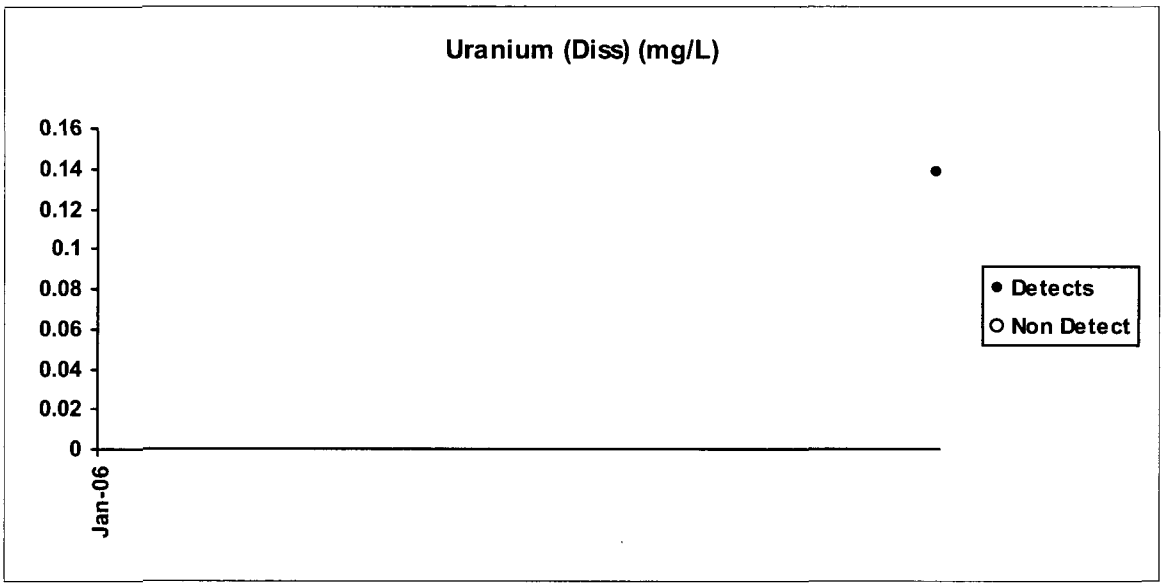

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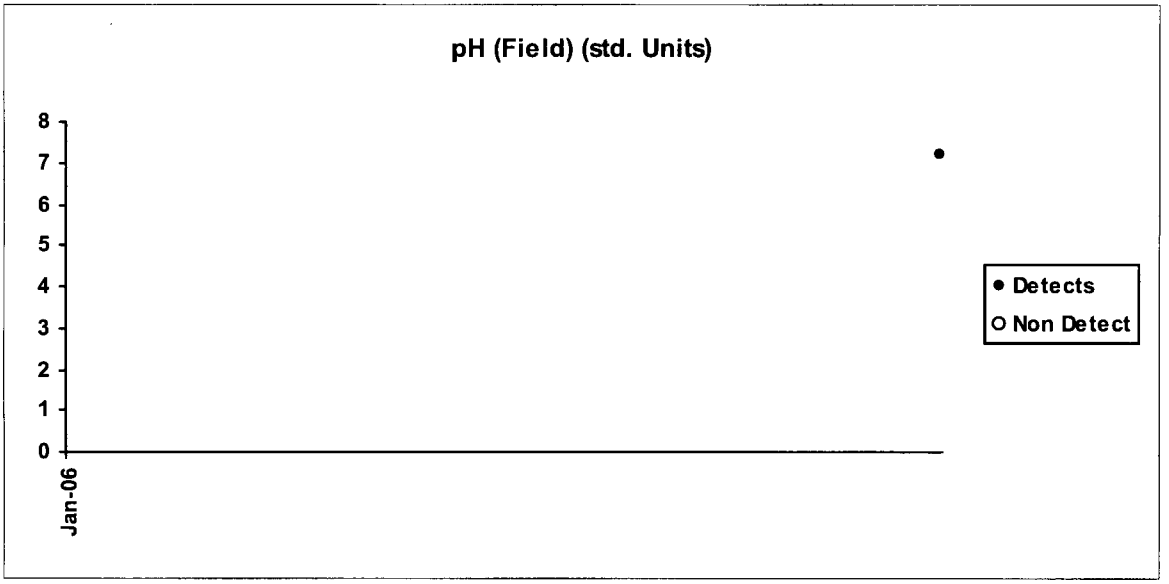
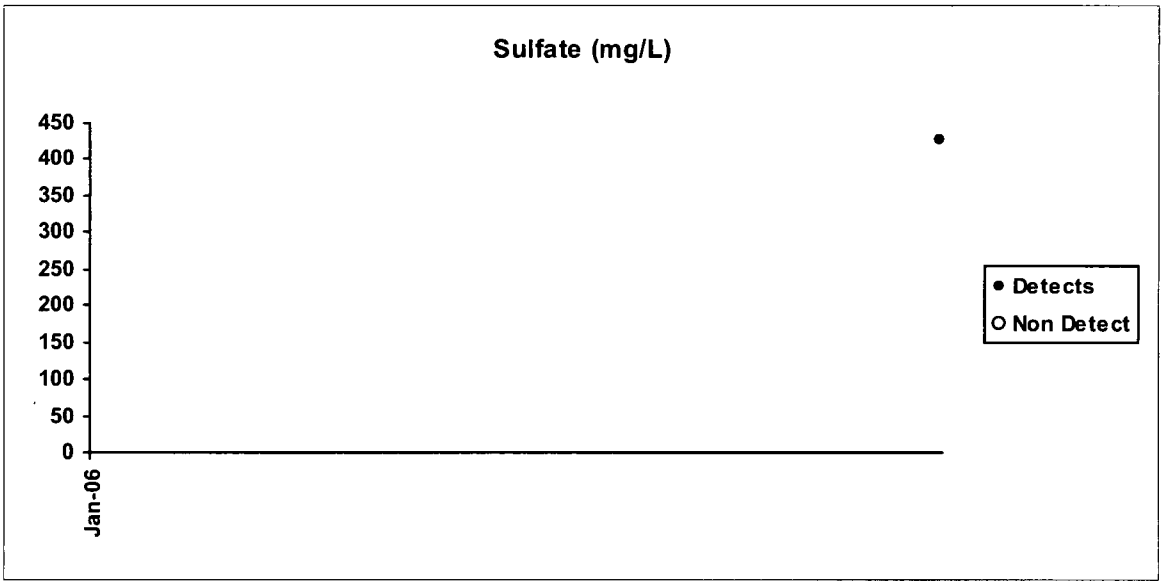
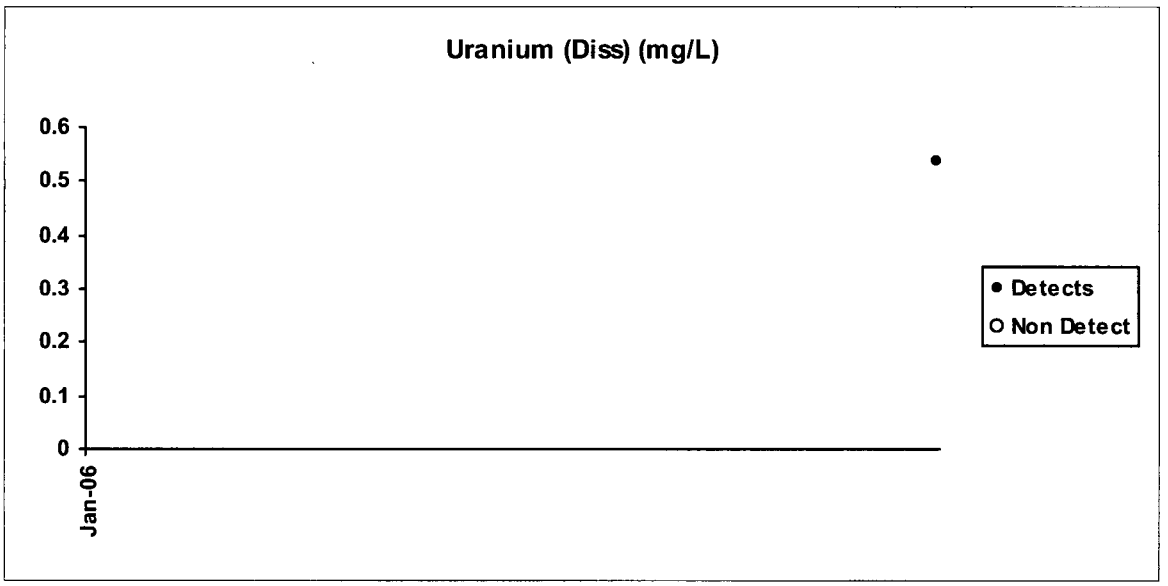
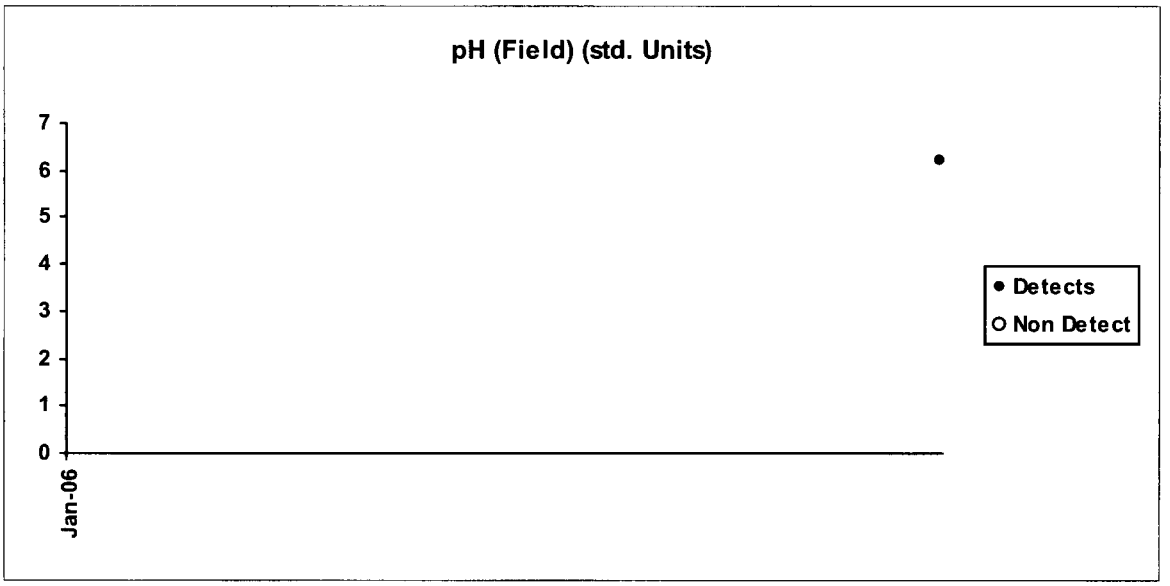


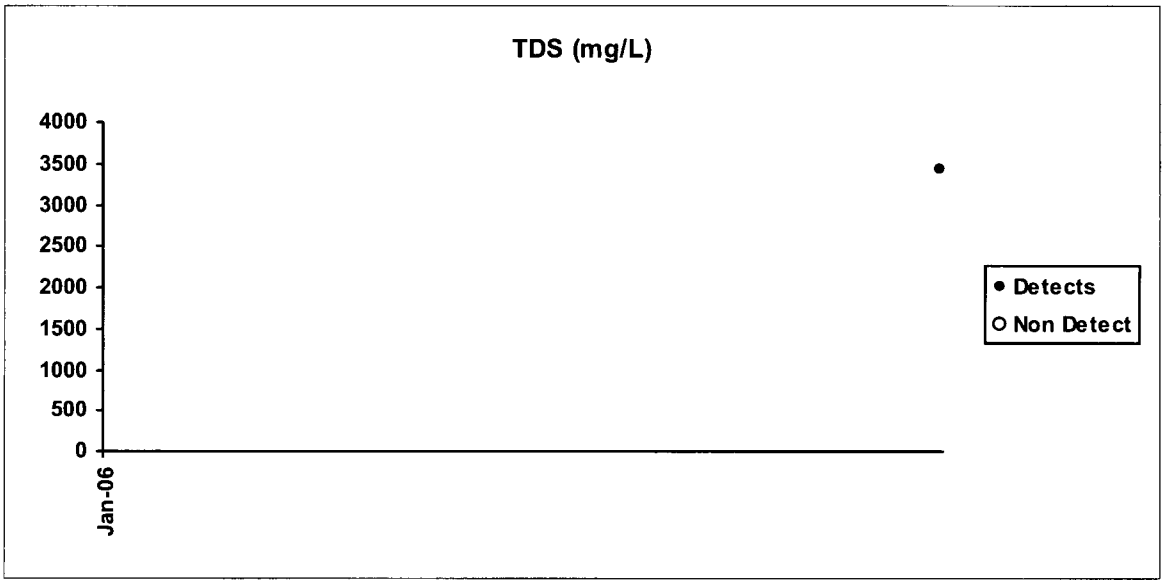
Jeffrey City SWAB-4





Jeffrey City WELL-1





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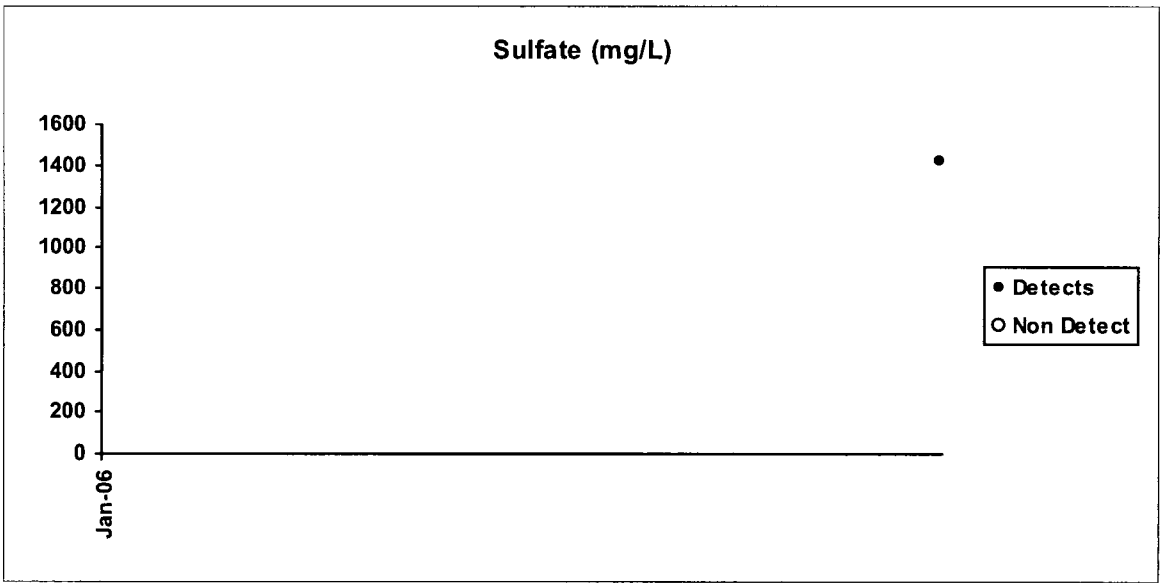

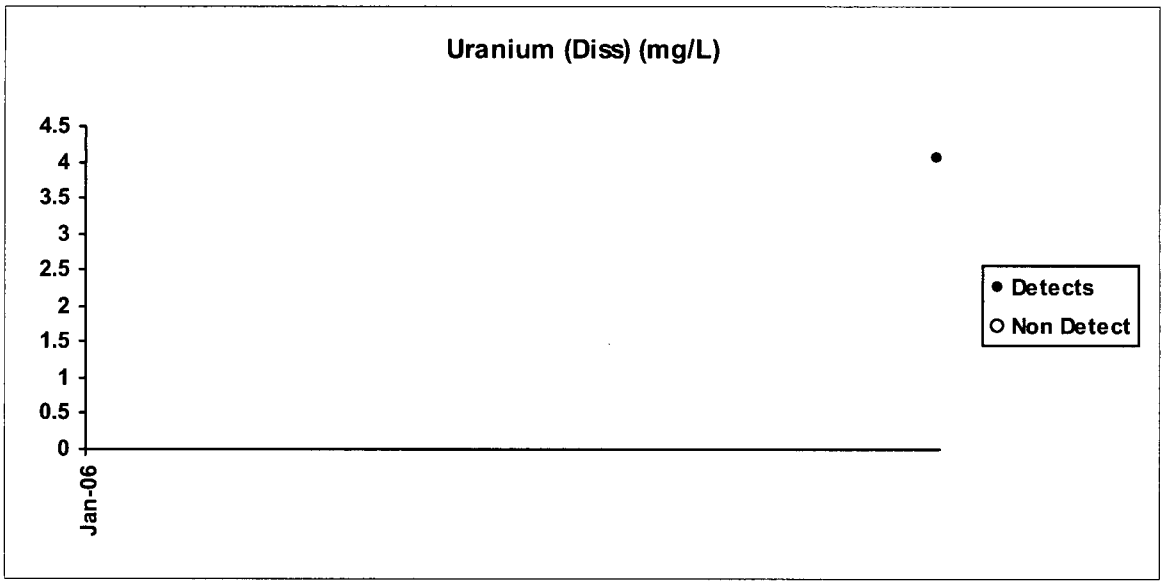

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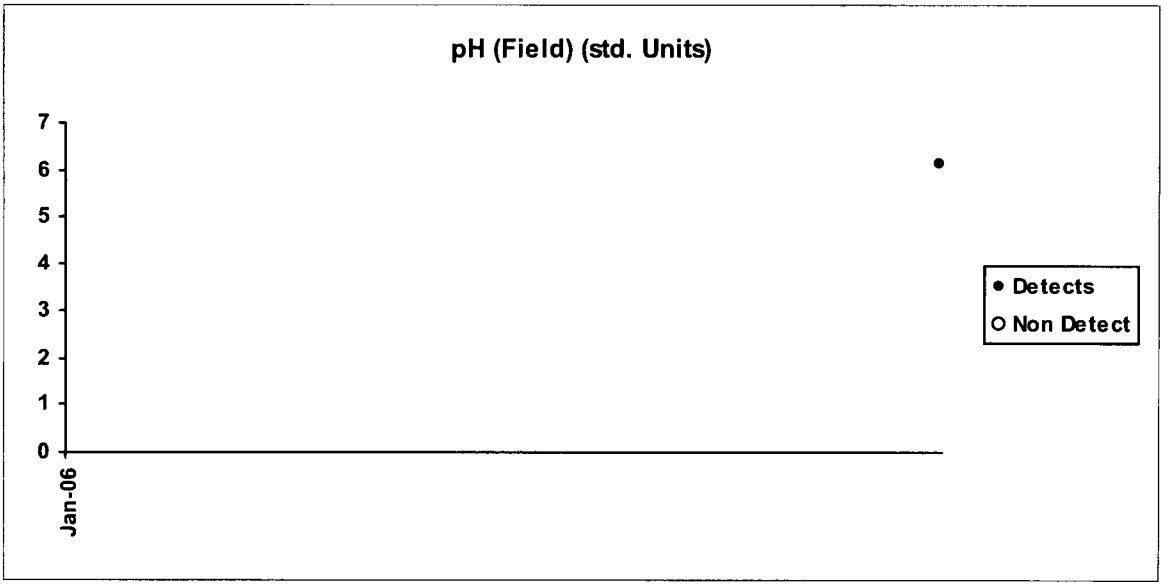
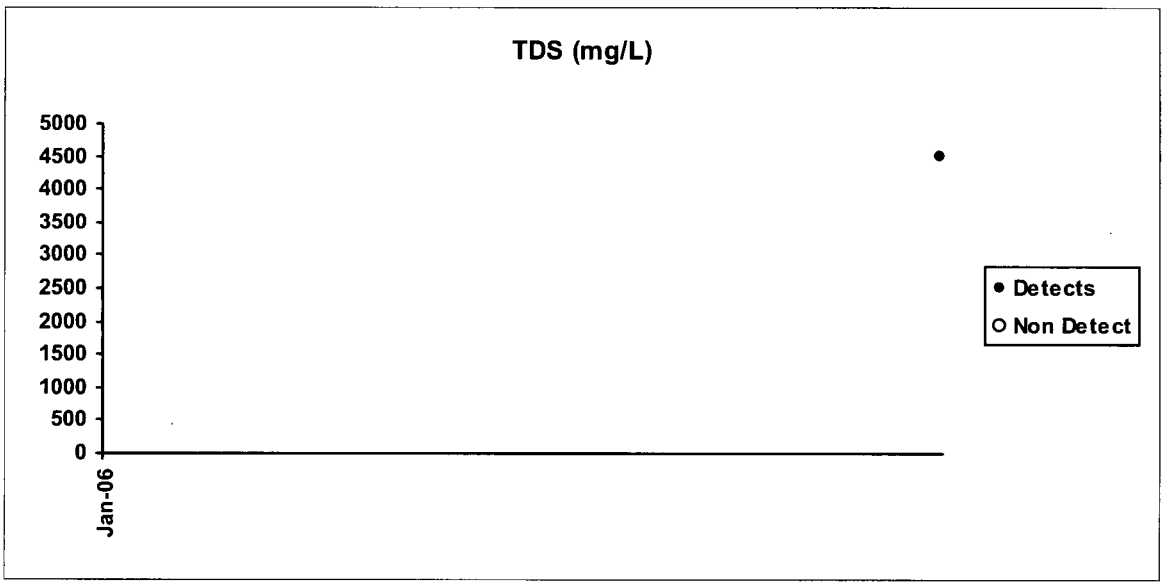
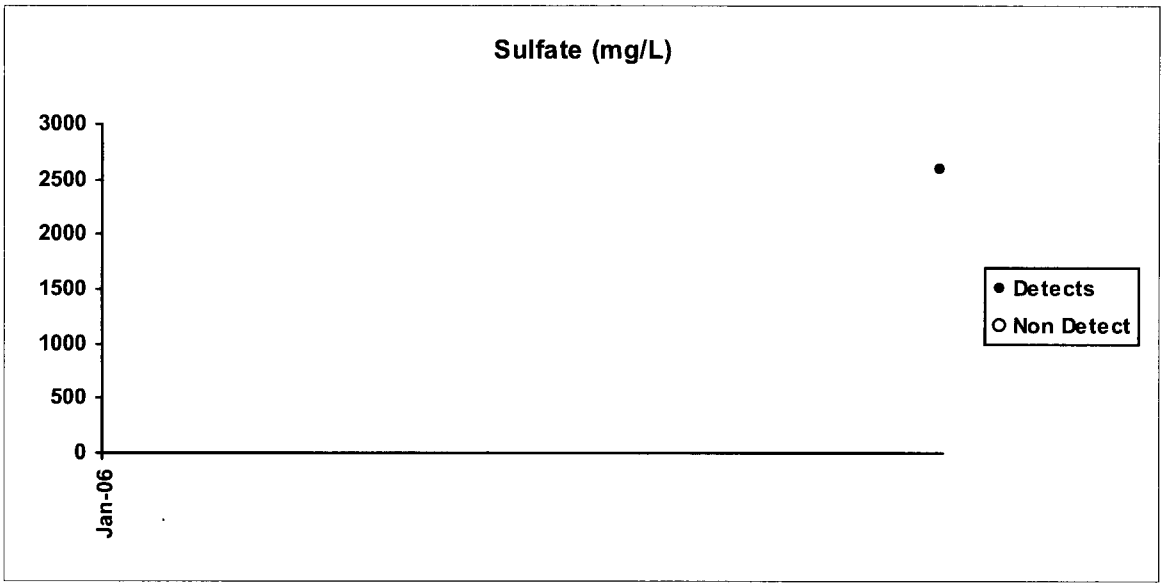
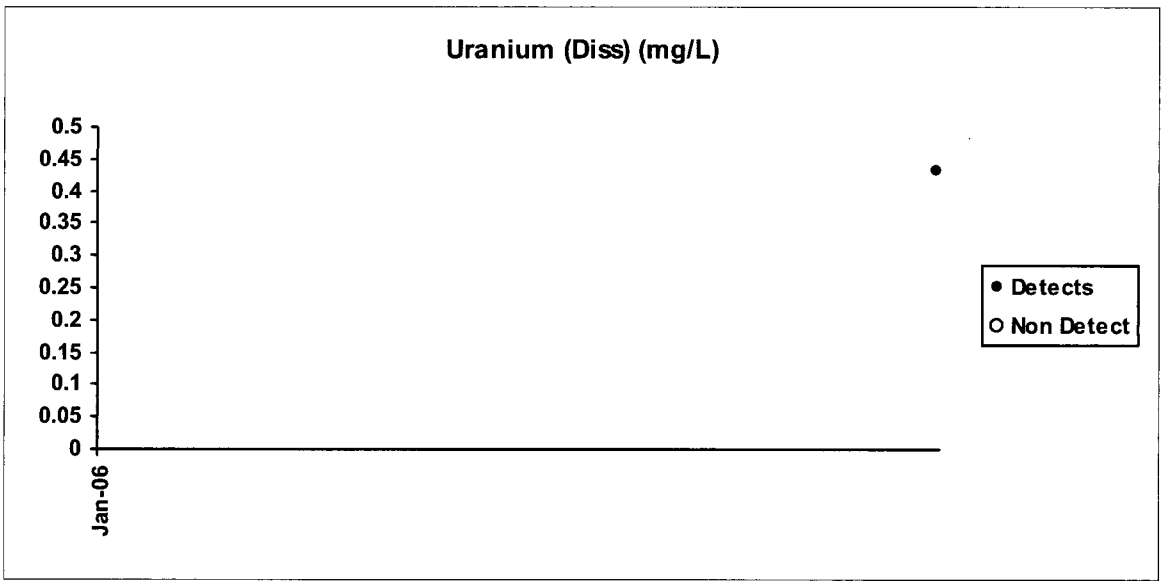




Jeffrey City WELL-4R





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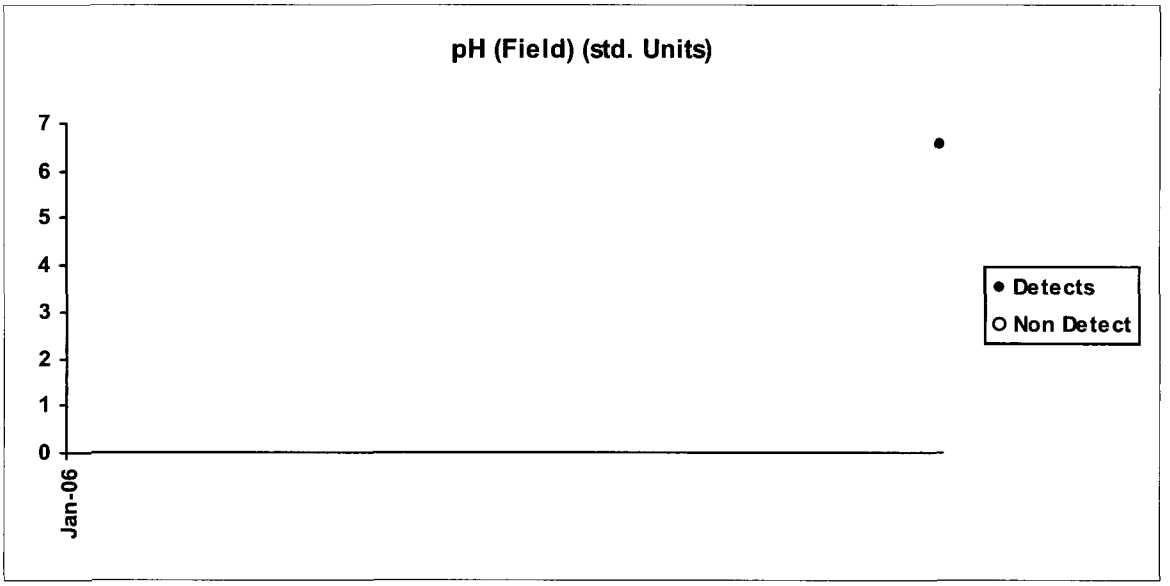
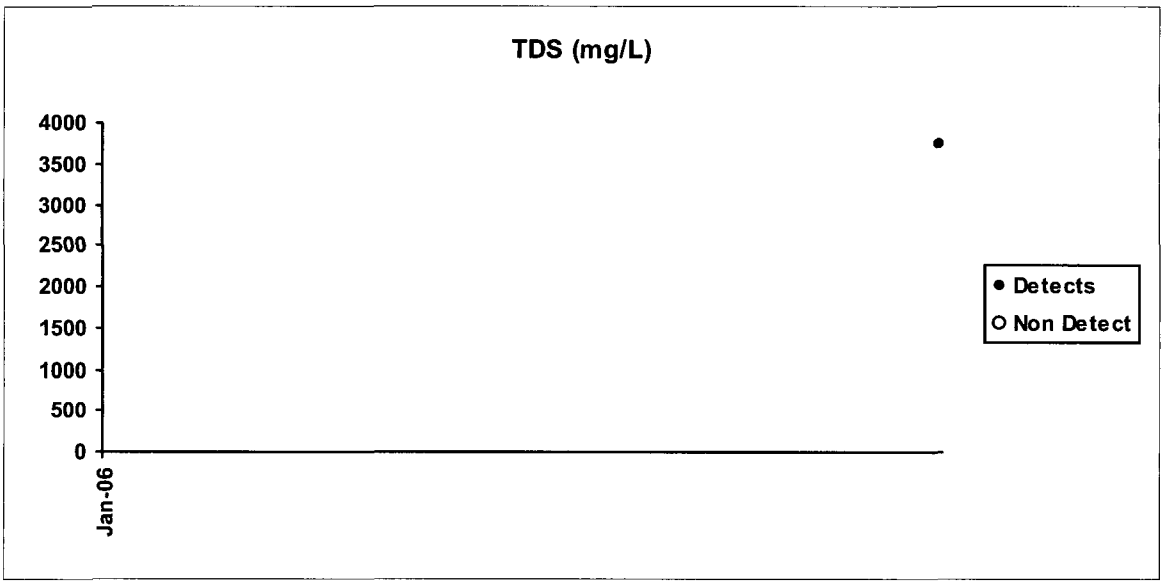
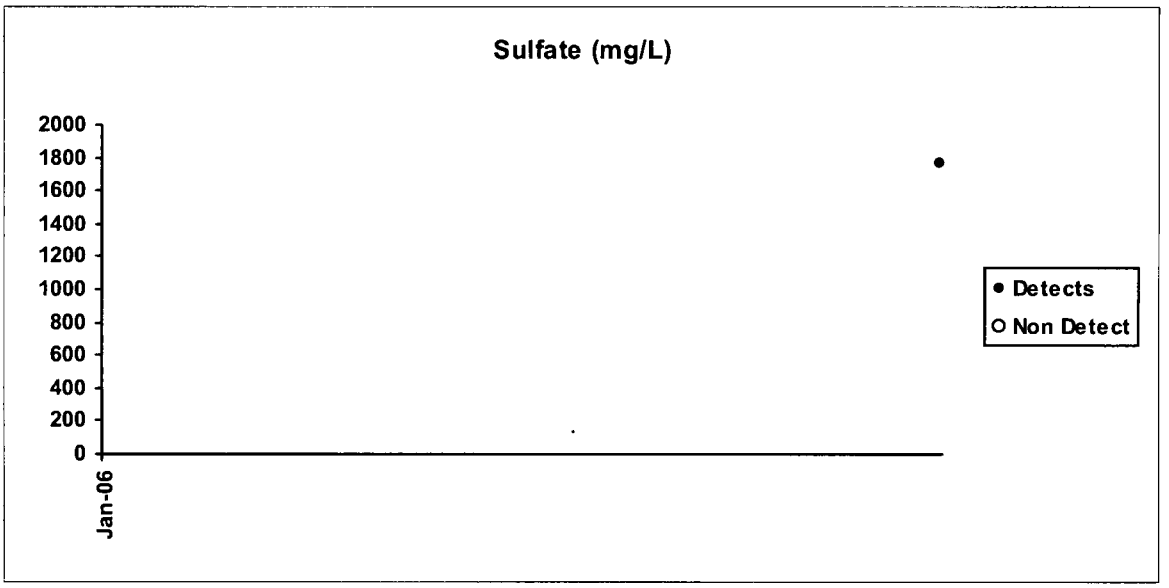
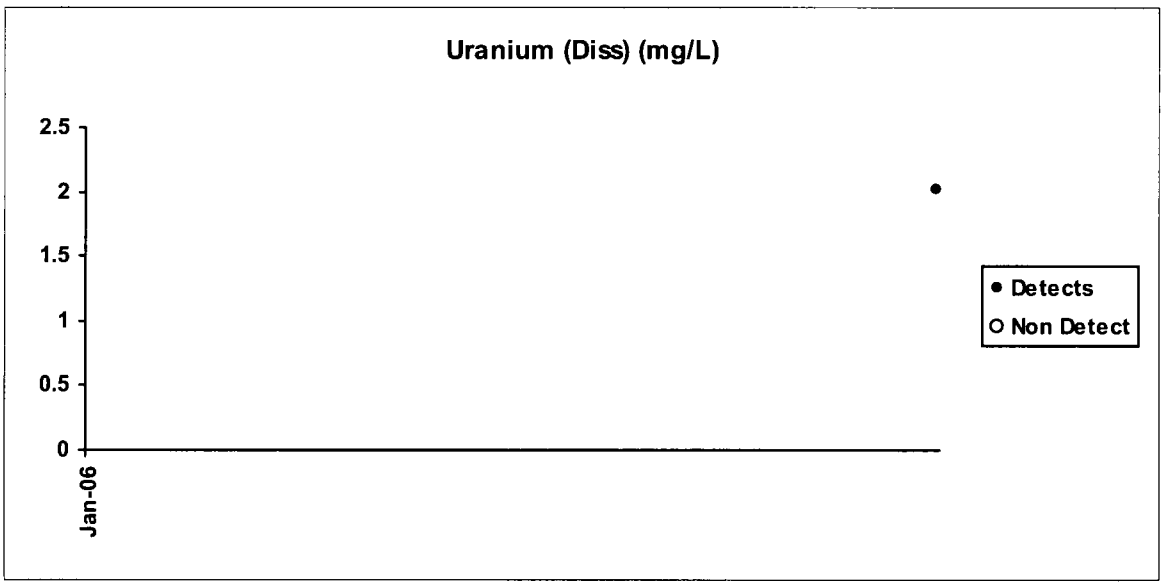


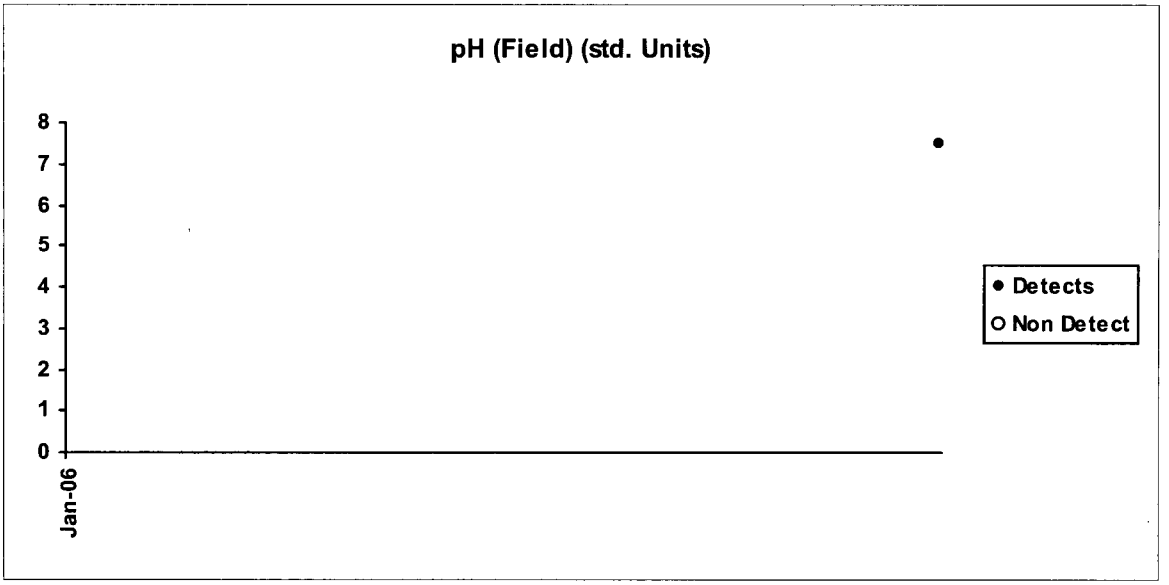


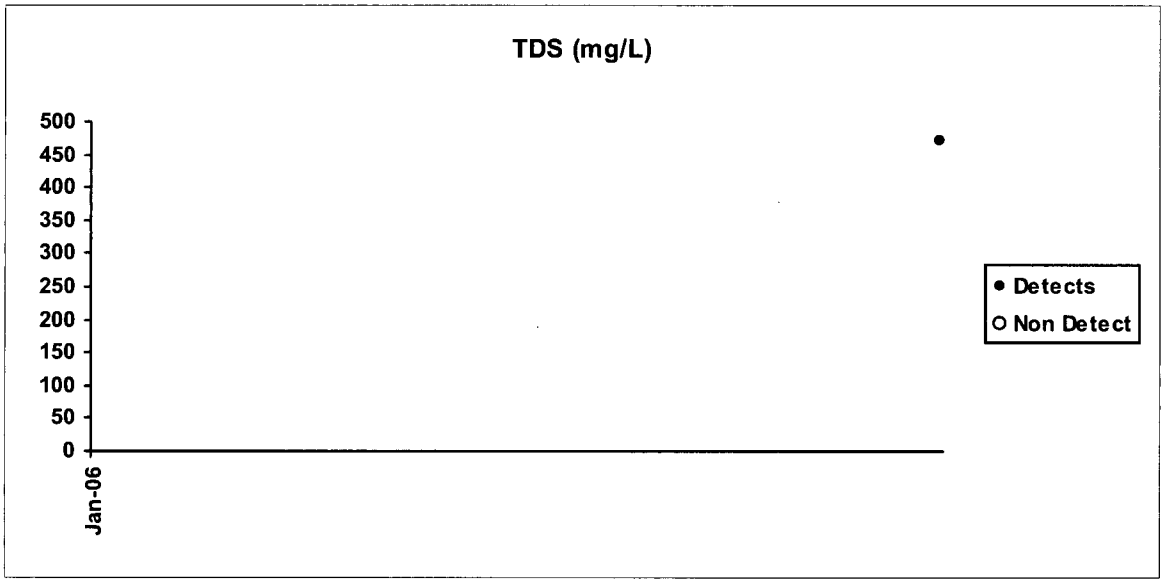
Jeffrey City WELL-5



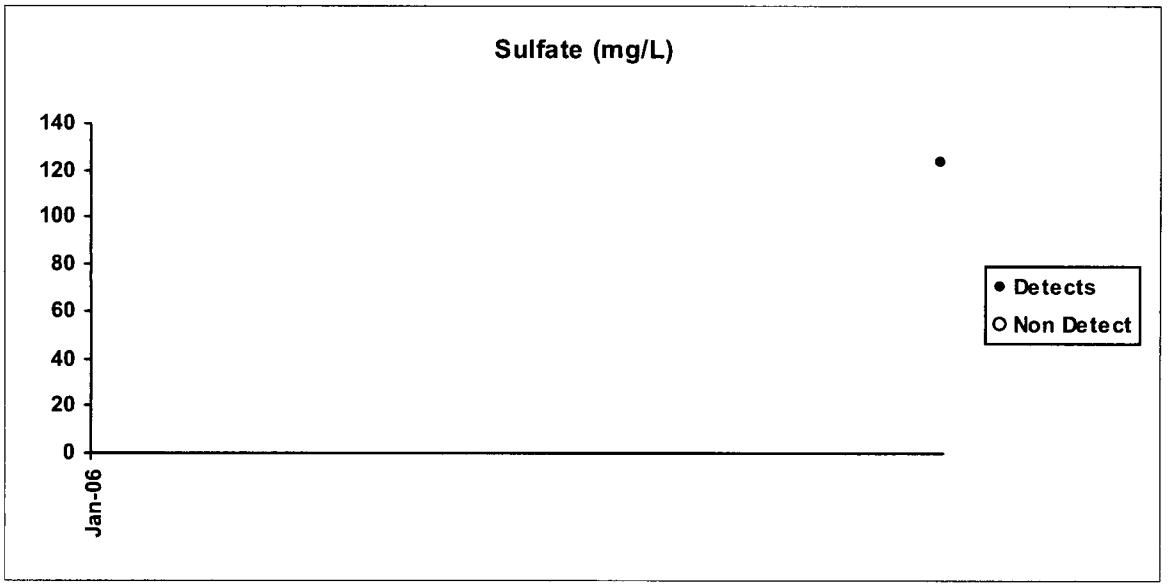


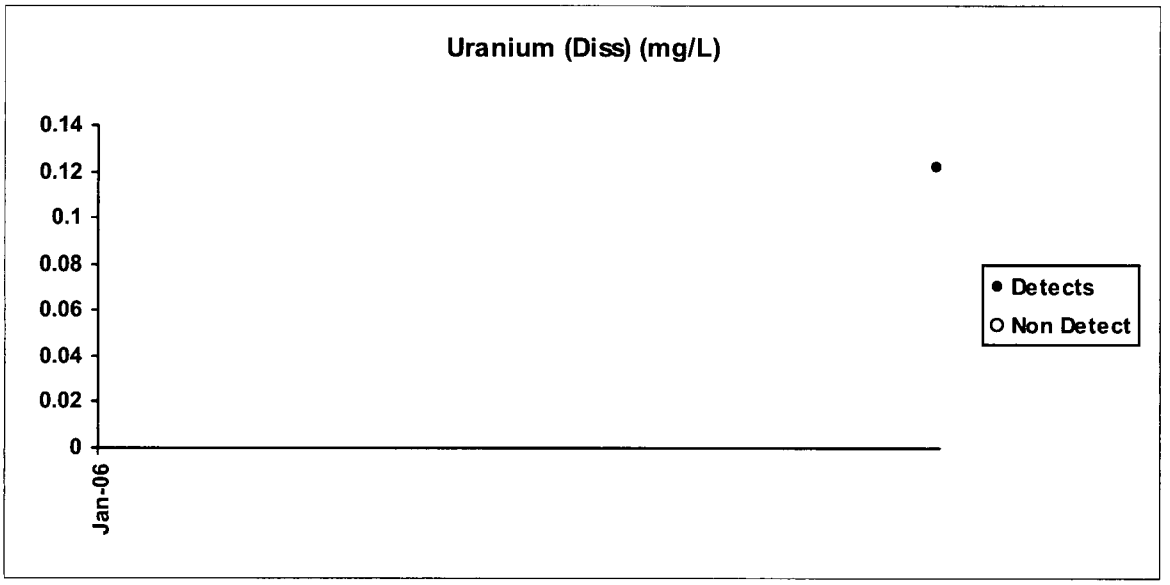
Jeffrey City WN-21



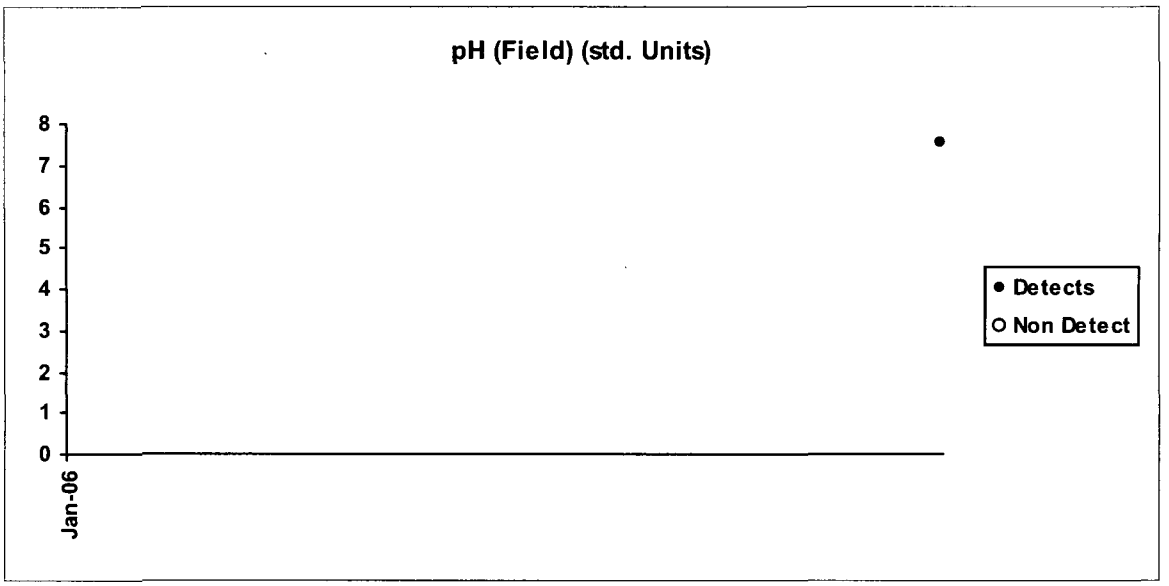


Jeffrey City WN-21

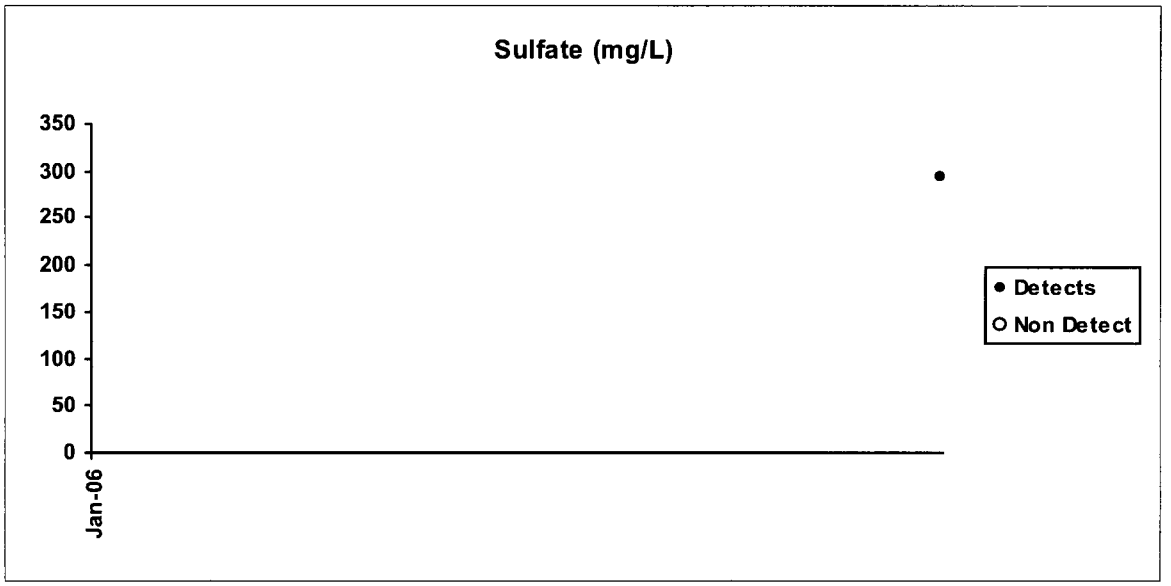


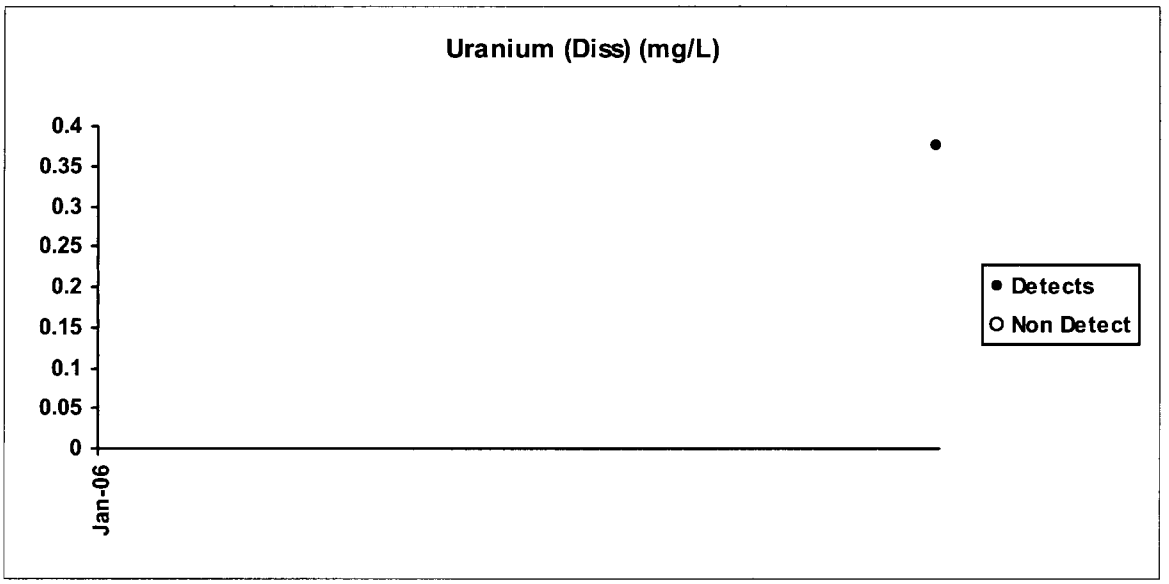


Jeffrey City WN-39B

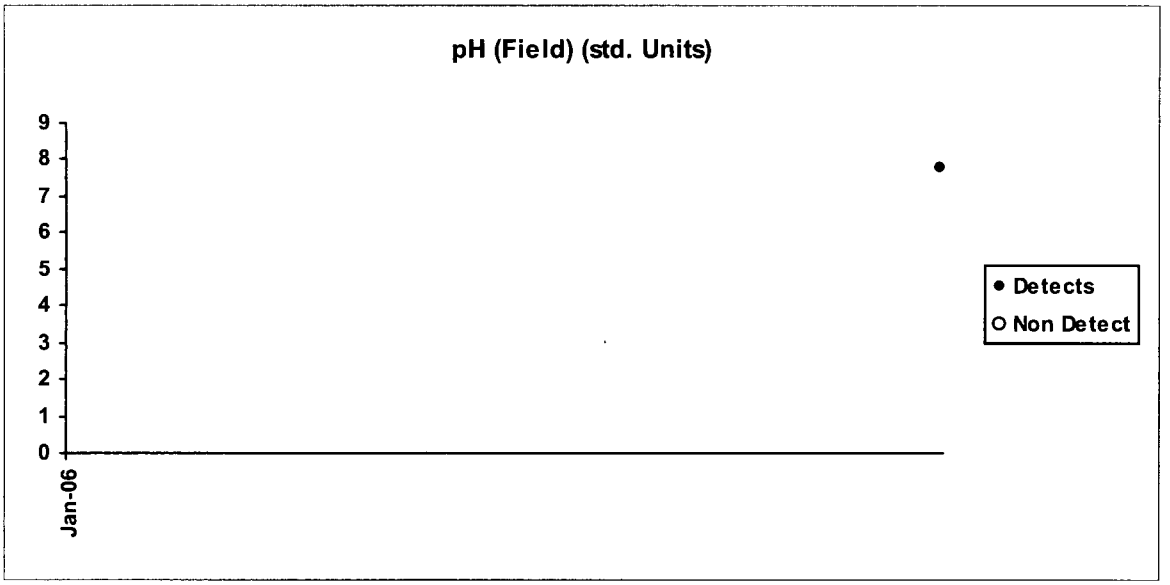


Jeffrey City WN-39B

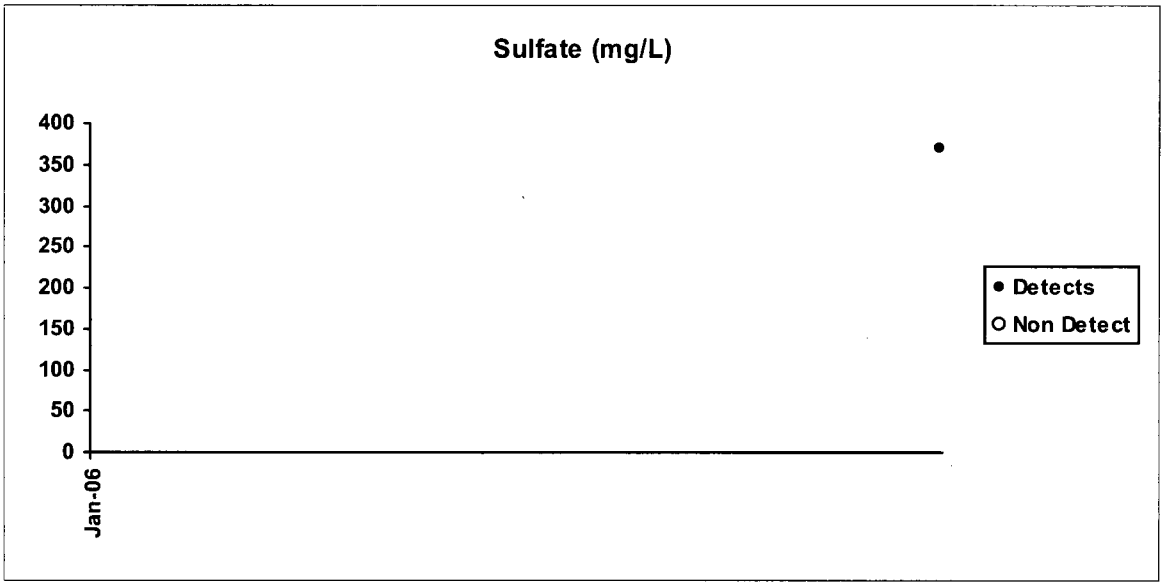


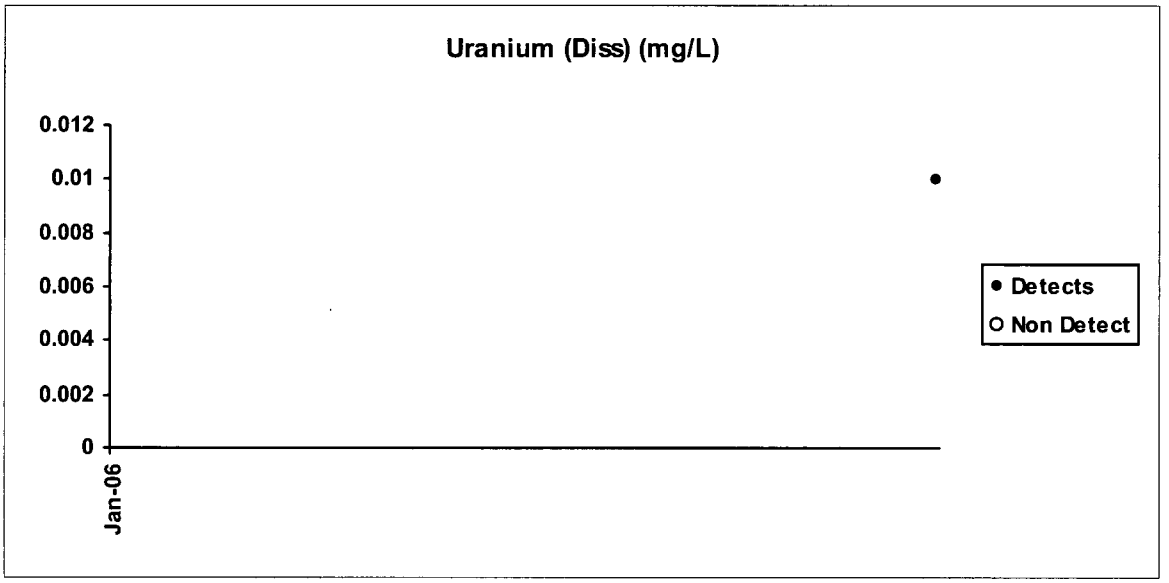


Jeffrey City WN-41B

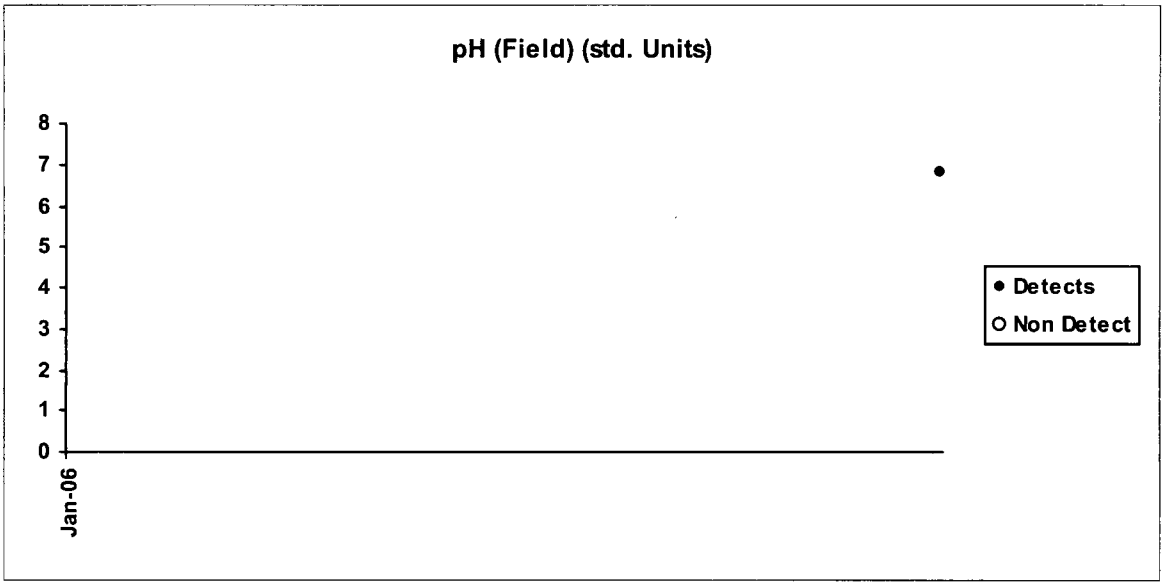


Jeffrey City WN-41B

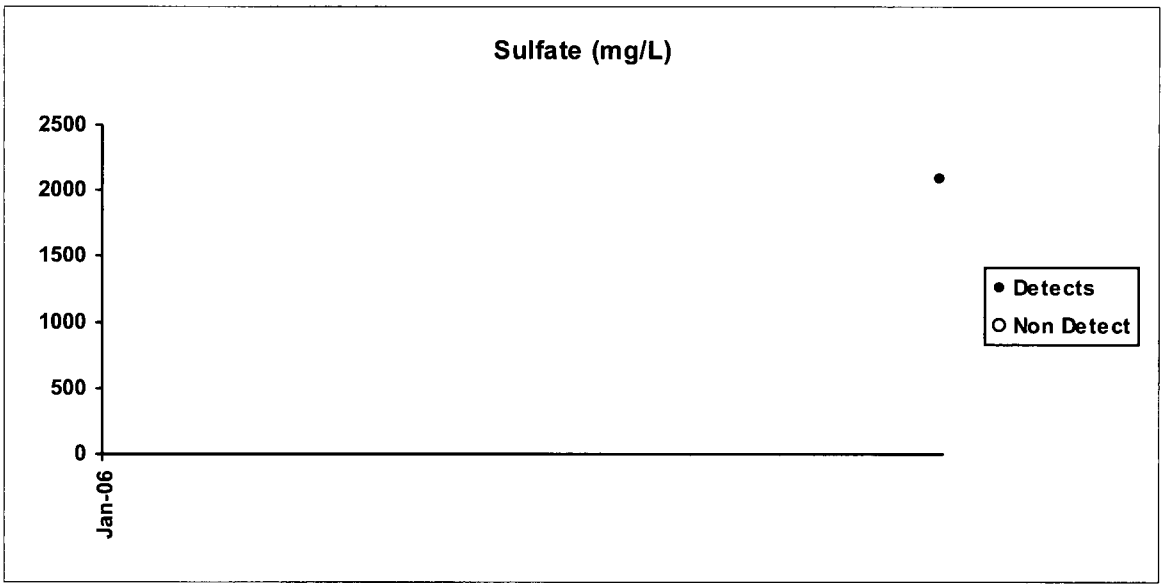


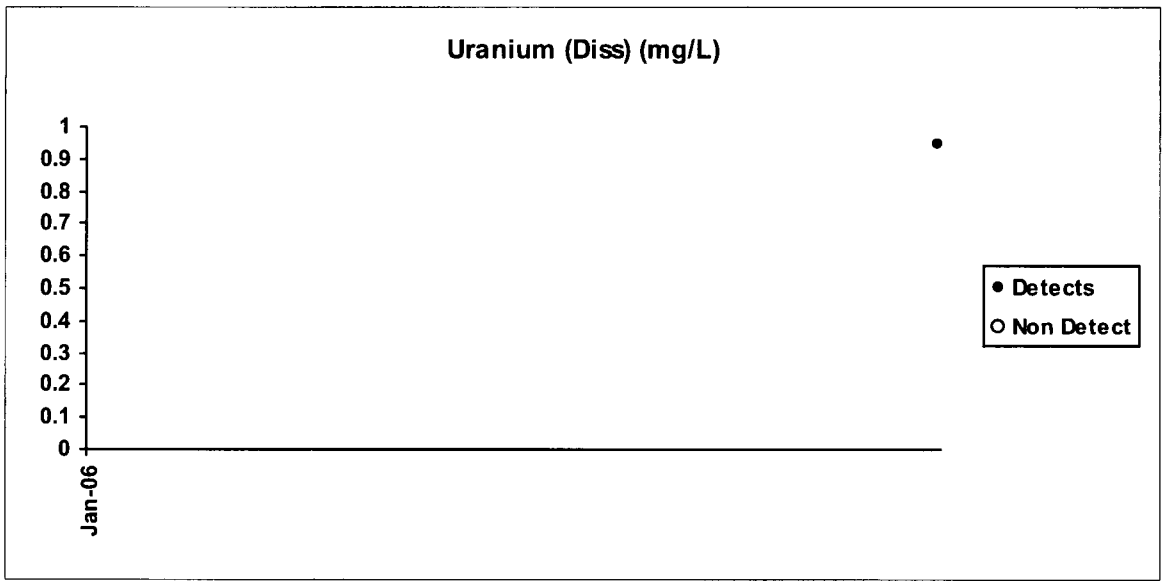


Jeffrey City WN-42A



Jeffrey City WN-42A





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LABORATORY ANALYTICAL REPORT

Client: Western Nuclear Inc
Project: Split Rock Mill Site
Lab ID: C06040349-011
Client Sample ID: JJ-1R

Report Date: 05/15/06
Collection Date: 01/06/06 13:05
Date Received: 04/10/06
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	64	mg/L	D	2		E200.7	04/12/06 17:37 / ts
METALS - DISSOLVED							
Uranium	0.016	mg/L		0.001		E200.8	04/10/06 18:29 / sml

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

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LABORATORY ANALYTICAL REPORT

Client: Western Nuclear Inc
Project: Split Rock Mill Site
Lab ID: C06040349-012
Client Sample ID: SWAB-1

Report Date: 05/15/06
Collection Date: 04/06/06 17:05
Date Received: 04/10/06
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	398	mg/L	D	2		E200.7	04/12/06 17:40 / ts
METALS - DISSOLVED							
Uranium	0.643	mg/L		0.001		E200.8	04/10/06 18:53 / sml

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

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LABORATORY ANALYTICAL REPORT

Client: Western Nuclear Inc
Project: Split Rock Mill Site
Lab ID: C06040349-013
Client Sample ID: SWAB-2

Report Date: 05/15/06
Collection Date: 04/06/06 17:31
Date Received: 04/10/06
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	1290	mg/L	D	2		E200.7	04/12/06 17:44 / ts
METALS - DISSOLVED							
Uranium	1.35	mg/L		0.001		E200.8	04/10/06 18:57 / sml

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

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LABORATORY ANALYTICAL REPORT

Client: Western Nuclear Inc
Project: Split Rock Mill Site
Lab ID: C06040349-014
Client Sample ID: SWAB-4

Report Date: 05/15/06
Collection Date: 04/06/06 15:46
Date Received: 04/10/06
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	428	mg/L	D	2		E200.7	04/12/06 17:47 / ts
METALS - DISSOLVED							
Uranium	0.539	mg/L		0.001		E200.8	04/10/06 19:02 / sml

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

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LABORATORY ANALYTICAL REPORT

Client: Western Nuclear Inc
Project: Split Rock Mill Site
Lab ID: C06040349-015
Client Sample ID: SWAB-12

Report Date: 05/15/06
Collection Date: 04/06/06 16:30
Date Received: 04/10/06
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	105	mg/L	D	2		E200.7	04/12/06 17:51 / ts
METALS - DISSOLVED							
Uranium	0.061	mg/L		0.001		E200.8	04/10/06 19:06 / sml

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

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LABORATORY ANALYTICAL REPORT

Client: Western Nuclear Inc
Project: Split Rock Mill Site
Lab ID: C06040349-016
Client Sample ID: SWAB-22

Report Date: 05/15/06
Collection Date: 04/06/06 15:14
Date Received: 04/10/06
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	56	mg/L	D	2		E200.7	04/12/06 17:54 / ts
METALS - DISSOLVED							
Uranium	0.027	mg/L		0.001		E200.8	04/10/06 19:22 / sml

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

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LABORATORY ANALYTICAL REPORT

Client: Western Nuclear Inc
Project: Split Rock Mill Site
Lab ID: C06040349-017
Client Sample ID: SWAB-29

Report Date: 05/15/06
Collection Date: 04/07/06 11:22
Date Received: 04/10/06
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	51	mg/L	D	2		E200.7	04/12/06 18:17 / ts
METALS - DISSOLVED							
Uranium	0.047	mg/L		0.001		E200.8	04/10/06 19:42 / sml

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

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LABORATORY ANALYTICAL REPORT

Client: Western Nuclear Inc
Project: Split Rock Mill Site
Lab ID: C06040349-018
Client Sample ID: SWAB-31

Report Date: 05/15/06
Collection Date: 04/07/06 13:05
Date Received: 04/10/06
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	29	mg/L	D	2		E200.7	04/12/06 18:20 / ts
METALS - DISSOLVED							
Uranium	0.033	mg/L		0.001		E200.8	04/10/06 19:46 / sml

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

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LABORATORY ANALYTICAL REPORT

Client: Western Nuclear Inc
Project: Split Rock Mill Site
Lab ID: C06040349-019
Client Sample ID: SWAB-32

Report Date: 05/15/06
Collection Date: 04/07/06 14:13
Date Received: 04/10/06
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	51	mg/L	D	2		E200.7	04/12/06 18:23 / ts
METALS - DISSOLVED							
Uranium	0.139	mg/L		0.001		E200.8	04/10/06 19:50 / sml

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

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LABORATORY ANALYTICAL REPORT

Client: Western Nuclear Inc
Project: Split Rock Mill Site
Lab ID: C06040349-001
Client Sample ID: WN-1

Report Date: 05/15/06
Collection Date: 04/05/06 15:20
Date Received: 04/10/06
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	75	mg/L		1		E200.7	04/12/06 16:48 / ts
Fluoride	0.4	mg/L		0.1		A4500-F C	04/10/06 11:48 / th
Nitrogen, Ammonia as N	30.7	mg/L	D	0.2		A4500-NH3 G	04/11/06 12:18 / jal
Nitrogen, Nitrate+Nitrite as N	44.3	mg/L	D	0.8		E353.2	04/13/06 11:12 / jal
Sulfate	1430	mg/L		1		E200.7	04/12/06 16:48 / ts
PHYSICAL PROPERTIES							
pH	7.12	s.u.		0.01		A4500-H B	04/10/06 14:15 / th
Solids, Total Dissolved TDS @ 180 C	3440	mg/L		10		A2540 C	04/10/06 14:57 / jc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/12/06 14:50 / sml
Antimony	ND	mg/L		0.05		E200.8	04/12/06 12:11 / sml
Arsenic	ND	mg/L		0.01		E200.8	04/12/06 14:50 / sml
Beryllium	ND	mg/L		0.004		E200.8	04/12/06 14:50 / sml
Cadmium	ND	mg/L		0.001		E200.8	04/12/06 12:11 / sml
Lead	ND	mg/L		0.005		E200.8	04/12/06 12:11 / sml
Manganese	4.06	mg/L		0.05		E200.8	04/12/06 14:50 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/12/06 12:11 / sml
Nickel	ND	mg/L		0.05		E200.8	04/12/06 14:50 / sml
Selenium	0.009	mg/L		0.005		E200.8	05/15/06 11:05 / bws
Thallium	ND	mg/L		0.1		E200.8	04/12/06 12:11 / sml
Uranium	4.08	mg/L		0.001		E200.8	04/12/06 12:11 / sml
RADIONUCLIDES - DISSOLVED							
Radium 226	ND	pCi/L		1.0		E903.0	04/19/06 14:30 / trs
Radium 228	ND	pCi/L		2.0		RA-05	04/19/06 14:30 / trs
Thorium 230	ND	pCi/L		0.4		E907.0	05/01/06 11:00 / df
FIELD PARAMETERS							
pH	6.25	s.u.				FIELD	04/05/06 15:20 / ks

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

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LABORATORY ANALYTICAL REPORT

Client: Western Nuclear Inc
Project: Split Rock Mill Site
Lab ID: C06040349-023
Client Sample ID: WN-1R

Report Date: 05/15/06
Collection Date: Not Provided
Date Received: 04/10/06
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	81	mg/L		1		E200.7	04/12/06 18:37 / ts
Fluoride	0.4	mg/L		0.1		A4500-F C	04/10/06 12:05 / th
Nitrogen, Ammonia as N	30.5	mg/L	D	0.2		A4500-NH3 G	04/11/06 12:34 / jal
Nitrogen, Nitrate+Nitrite as N	44.0	mg/L	D	0.8		E353.2	04/13/06 11:29 / jal
Sulfate	1460	mg/L		1		E200.7	04/12/06 18:37 / ts
PHYSICAL PROPERTIES							
pH	7.18	s.u.		0.01		A4500-H B	04/10/06 14:24 / th
Solids, Total Dissolved TDS @ 180 C	3130	mg/L		10		A2540 C	04/10/06 14:58 / jc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/12/06 12:44 / sml
Antimony	ND	mg/L		0.05		E200.8	04/12/06 12:44 / sml
Arsenic	ND	mg/L		0.01		E200.8	04/12/06 12:44 / sml
Beryllium	ND	mg/L		0.004		E200.8	04/12/06 12:44 / sml
Cadmium	ND	mg/L		0.001		E200.8	04/12/06 12:44 / sml
Lead	ND	mg/L		0.005		E200.8	04/12/06 12:44 / sml
Manganese	3.95	mg/L		0.05		E200.8	04/12/06 12:44 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/12/06 12:44 / sml
Nickel	ND	mg/L		0.05		E200.8	04/12/06 12:44 / sml
Selenium	0.009	mg/L		0.005		E200.8	05/15/06 11:12 / bws
Thallium	ND	mg/L		0.1		E200.8	04/12/06 12:44 / sml
Uranium	4.22	mg/L		0.001		E200.8	04/12/06 12:44 / sml
RADIONUCLIDES - DISSOLVED							
Radium 226	ND	pCi/L		1.0		E903.0	04/19/06 14:30 / trs
Radium 228	ND	pCi/L		2.0		RA-05	04/19/06 14:30 / trs
Thorium 230	ND	pCi/L		0.4		E907.0	05/01/06 11:00 / df
FIELD PARAMETERS							
pH	6.25	s.u.				FIELD	04/07/06 00:00 / ks

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

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LABORATORY ANALYTICAL REPORT

Client: Western Nuclear Inc
Project: Split Rock Mill Site
Lab ID: C06040349-002
Client Sample ID: WN-4R

Report Date: 05/15/06
Collection Date: 04/06/06 11:00
Date Received: 04/10/06
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	111	mg/L		1		E200.7	04/12/06 16:51 / ts
Fluoride	9.1	mg/L		0.1		A4500-F C	04/10/06 11:50 / th
Nitrogen, Ammonia as N	401	mg/L	D	2		A4500-NH3 G	04/11/06 12:20 / jal
Nitrogen, Nitrate+Nitrite as N	89	mg/L	D	2		E353.2	04/13/06 11:14 / jal
Sulfate	2600	mg/L	D	8		E200.7	04/13/06 15:17 / ts
PHYSICAL PROPERTIES							
pH	6.79	s.u.		0.01		A4500-H B	04/10/06 14:16 / th
Solids, Total Dissolved TDS @ 180 C	4520	mg/L		10		A2540 C	04/10/06 14:57 / jc
METALS - DISSOLVED							
Aluminum	1.6	mg/L		0.1		E200.8	04/12/06 12:17 / sml
Antimony	ND	mg/L		0.05		E200.8	04/12/06 12:17 / sml
Arsenic	ND	mg/L		0.01		E200.8	04/12/06 12:17 / sml
Beryllium	ND	mg/L		0.004		E200.8	04/12/06 12:17 / sml
Cadmium	0.020	mg/L		0.001		E200.8	04/12/06 12:17 / sml
Lead	ND	mg/L		0.005		E200.8	04/12/06 12:17 / sml
Manganese	39.7	mg/L		0.05		E200.8	04/12/06 14:57 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/12/06 12:17 / sml
Nickel	0.45	mg/L		0.05		E200.8	04/12/06 12:17 / sml
Selenium	0.029	mg/L		0.005		E200.8	04/12/06 12:17 / sml
Thallium	ND	mg/L		0.1		E200.8	04/12/06 12:17 / sml
Uranium	0.435	mg/L		0.001		E200.8	04/12/06 12:17 / sml
RADIONUCLIDES - DISSOLVED							
Radium 226	ND	pCi/L		1.0		E903.0	04/19/06 14:30 / trs
Radium 228	ND	pCi/L		2.0		RA-05	04/19/06 14:30 / trs
Thorium 230	ND	pCi/L		0.4		E907.0	05/01/06 11:00 / df
FIELD PARAMETERS							
pH	6.15	s.u.				FIELD	04/06/06 11:00 / ks

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

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LABORATORY ANALYTICAL REPORT

Client: Western Nuclear Inc
Project: Split Rock Mill Site
Lab ID: C06040349-003
Client Sample ID: WN-5

Report Date: 05/15/06
Collection Date: 04/06/06 16:35
Date Received: 04/10/06
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	142	mg/L		1		E200.7	04/12/06 16:54 / ts
Fluoride	ND	mg/L		0.1		A4500-F C	04/10/06 11:54 / th
Nitrogen, Ammonia as N	0.23	mg/L		0.05		A4500-NH3 G	04/11/06 12:28 / jal
Nitrogen, Nitrate+Nitrite as N	62	mg/L	D	2		E353.2	04/13/06 11:16 / jal
Sulfate	1770	mg/L		1		E200.7	04/12/06 16:54 / ts
PHYSICAL PROPERTIES							
pH	7.34	s.u.		0.01		A4500-H B	04/10/06 14:17 / th
Solids, Total Dissolved TDS @ 180 C	3770	mg/L		10		A2540 C	04/10/06 14:57 / jc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/12/06 15:04 / sml
Antimony	ND	mg/L		0.05		E200.8	04/12/06 12:24 / sml
Arsenic	0.002	mg/L		0.001		E200.8	04/12/06 12:24 / sml
Beryllium	ND	mg/L		0.004		E200.8	04/12/06 15:04 / sml
Cadmium	ND	mg/L		0.001		E200.8	04/12/06 12:24 / sml
Lead	ND	mg/L		0.005		E200.8	04/12/06 12:24 / sml
Manganese	0.34	mg/L		0.01		E200.8	04/12/06 12:24 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/12/06 12:24 / sml
Nickel	ND	mg/L		0.05		E200.8	04/12/06 15:04 / sml
Selenium	0.018	mg/L		0.001		E200.8	04/12/06 12:24 / sml
Thallium	ND	mg/L		0.1		E200.8	04/12/06 12:24 / sml
Uranium	2.02	mg/L		0.001		E200.8	04/12/06 12:24 / sml
RADIONUCLIDES - DISSOLVED							
Radium 226	ND	pCi/L		1.0		E903.0	04/19/06 14:30 / trs
Radium 228	ND	pCi/L		2.0		RA-05	04/19/06 14:30 / trs
Thorium 230	ND	pCi/L		0.4		E907.0	05/01/06 11:00 / df
FIELD PARAMETERS							
pH	6.58	s.u.				FIELD	04/05/06 16:35 / ks

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

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LABORATORY ANALYTICAL REPORT

Client: Western Nuclear Inc
Project: Split Rock Mill Site
Lab ID: C06040349-024
Client Sample ID: WN-5R

Report Date: 05/15/06
Collection Date: Not Provided
Date Received: 04/10/06
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	137	mg/L		1		E200.7	04/12/06 18:49 / ts
Fluoride	ND	mg/L		0.1		A4500-F C	04/10/06 12:07 / th
Nitrogen, Ammonia as N	0.19	mg/L		0.05		A4500-NH3 G	04/11/06 12:36 / jal
Nitrogen, Nitrate+Nitrite as N	60	mg/L	D	2		E353.2	04/13/06 11:31 / jal
Sulfate	1810	mg/L	D	8		E200.7	04/12/06 18:53 / ts
PHYSICAL PROPERTIES							
pH	7.20	s.u.		0.01		A4500-H B	04/10/06 14:25 / th
Solids, Total Dissolved TDS @ 180 C	3580	mg/L		10		A2540 C	04/10/06 14:58 / jc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/12/06 13:24 / sml
Antimony	ND	mg/L		0.05		E200.8	04/12/06 13:24 / sml
Arsenic	ND	mg/L		0.01		E200.8	04/12/06 13:24 / sml
Beryllium	ND	mg/L		0.004		E200.8	04/12/06 13:24 / sml
Cadmium	ND	mg/L		0.001		E200.8	04/12/06 13:24 / sml
Lead	ND	mg/L		0.005		E200.8	04/12/06 13:24 / sml
Manganese	0.34	mg/L		0.05		E200.8	04/12/06 13:24 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/12/06 13:24 / sml
Nickel	ND	mg/L		0.05		E200.8	04/12/06 13:24 / sml
Selenium	0.025	mg/L		0.005		E200.8	04/12/06 13:24 / sml
Thallium	ND	mg/L		0.1		E200.8	04/12/06 13:24 / sml
Uranium	2.06	mg/L		0.001		E200.8	04/12/06 13:24 / sml
RADIONUCLIDES - DISSOLVED							
Radium 226	ND	pCi/L		1.0		E903.0	04/19/06 14:30 / trs
Radium 228	ND	pCi/L		2.0		RA-05	04/19/06 14:30 / trs
Thorium 230	ND	pCi/L		0.4		E907.0	05/01/06 11:00 / df
FIELD PARAMETERS							
pH	6.58	s.u.				FIELD	04/07/06 00:00 / ks

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

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LABORATORY ANALYTICAL REPORT

Client: Western Nuclear Inc
Project: Split Rock Mill Site
Lab ID: C06040349-025
Client Sample ID: WN-5S

Report Date: 05/15/06
Collection Date: Not Provided
Date Received: 04/10/06
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	141	mg/L		1		E200.7	04/12/06 19:03 / ts
Fluoride	ND	mg/L		0.1		A4500-F C	04/10/06 12:09 / th
Nitrogen, Ammonia as N	0.18	mg/L		0.05		A4500-NH3 G	04/11/06 12:40 / jal
Nitrogen, Nitrate+Nitrite as N	60	mg/L	D	2		E353.2	04/13/06 11:34 / jal
Sulfate	1800	mg/L	D	8		E200.7	04/12/06 19:06 / ts
PHYSICAL PROPERTIES							
pH	7.20	s.u.		0.01		A4500-H B	04/10/06 14:26 / th
Solids, Total Dissolved TDS @ 180 C	3790	mg/L		10		A2540 C	04/10/06 14:59 / jc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/12/06 13:30 / sml
Antimony	ND	mg/L		0.05		E200.8	04/12/06 13:30 / sml
Arsenic	ND	mg/L		0.01		E200.8	04/12/06 13:30 / sml
Beryllium	ND	mg/L		0.004		E200.8	04/12/06 13:30 / sml
Cadmium	ND	mg/L		0.001		E200.8	04/12/06 13:30 / sml
Lead	ND	mg/L		0.005		E200.8	04/12/06 13:30 / sml
Manganese	0.34	mg/L		0.05		E200.8	04/12/06 13:30 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/12/06 13:30 / sml
Nickel	ND	mg/L		0.05		E200.8	04/12/06 13:30 / sml
Selenium	0.024	mg/L		0.005		E200.8	04/12/06 13:30 / sml
Thallium	ND	mg/L		0.1		E200.8	04/12/06 13:30 / sml
Uranium	2.04	mg/L		0.001		E200.8	04/12/06 13:30 / sml
RADIONUCLIDES - DISSOLVED							
Radium 226	ND	pCi/L		1.0		E903.0	04/19/06 14:30 / trs
Radium 228	ND	pCi/L		2.0		RA-05	04/19/06 14:30 / trs
Thorium 230	ND	pCi/L		0.4		E907.0	05/01/06 11:00 / df
FIELD PARAMETERS							
pH	6.58	s.u.				FIELD	04/07/06 00:00 / ks

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

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LABORATORY ANALYTICAL REPORT

Client: Western Nuclear Inc
Project: Split Rock Mill Site
Lab ID: C06040349-004
Client Sample ID: WN-21

Report Date: 05/15/06
Collection Date: 04/06/06 10:15
Date Received: 04/10/06
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	13	mg/L		1		E200.7	04/12/06 16:58 / ts
Fluoride	0.2	mg/L		0.1		A4500-F C	04/10/06 11:57 / th
Nitrogen, Ammonia as N	1.48	mg/L		0.05		A4500-NH3 G	04/11/06 12:30 / jal
Nitrogen, Nitrate+Nitrite as N	7.9	mg/L	D	0.3		E353.2	04/13/06 11:19 / jal
Sulfate	124	mg/L		1		E200.7	04/12/06 16:58 / ts
PHYSICAL PROPERTIES							
pH	8.13	s.u.		0.01		A4500-H B	04/10/06 14:21 / th
Solids, Total Dissolved TDS @ 180 C	472	mg/L		10		A2540 C	04/10/06 14:58 / jc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/12/06 12:30 / sml
Antimony	ND	mg/L		0.05		E200.8	04/12/06 12:30 / sml
Arsenic	ND	mg/L		0.01		E200.8	04/12/06 12:30 / sml
Beryllium	ND	mg/L		0.004		E200.8	04/12/06 12:30 / sml
Cadmium	ND	mg/L		0.001		E200.8	04/12/06 12:30 / sml
Lead	ND	mg/L		0.005		E200.8	04/12/06 12:30 / sml
Manganese	0.26	mg/L		0.05		E200.8	04/12/06 12:30 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/12/06 12:30 / sml
Nickel	ND	mg/L		0.05		E200.8	04/12/06 12:30 / sml
Selenium	ND	mg/L		0.005		E200.8	04/12/06 12:30 / sml
Thallium	ND	mg/L		0.1		E200.8	04/12/06 12:30 / sml
Uranium	0.122	mg/L		0.001		E200.8	04/12/06 12:30 / sml
RADIONUCLIDES - DISSOLVED							
Radium 226	ND	pCi/L		1.0		E903.0	04/19/06 14:30 / trs
Radium 228	ND	pCi/L		2.0		RA-05	04/19/06 14:30 / trs
Thorium 230	ND	pCi/L		0.4		E907.0	05/01/06 11:00 / df
FIELD PARAMETERS							
pH	7.54	s.u.				FIELD	04/06/06 10:15 / ks

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

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LABORATORY ANALYTICAL REPORT

Client: Western Nuclear Inc
Project: Split Rock Mill Site
Lab ID: C06040349-020
Client Sample ID: WN-39B

Report Date: 05/15/06
Collection Date: 04/07/06 09:40
Date Received: 04/10/06
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	296	mg/L	D	2		E200.7	04/12/06 18:27 / ts
METALS - DISSOLVED							
Uranium	0.377	mg/L		0.001		E200.8	04/10/06 19:54 / sml

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

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LABORATORY ANALYTICAL REPORT

Client: Western Nuclear Inc
Project: Split Rock Mill Site
Lab ID: C06040349-021
Client Sample ID: WN-41B

Report Date: 05/15/06
Collection Date: 04/07/06 09:06
Date Received: 04/10/06
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	370	mg/L	D	2		E200.7	04/12/06 18:30 / ts
METALS - DISSOLVED							
Uranium	0.010	mg/L		0.001		E200.8	04/10/06 19:58 / sml

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

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LABORATORY ANALYTICAL REPORT

Client: Western Nuclear Inc
Project: Split Rock Mill Site
Lab ID: C06040349-022
Client Sample ID: WN-42A

Report Date: 05/15/06
Collection Date: 04/07/06 10:25
Date Received: 04/10/06
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	2100	mg/L	D	2		E200.7	04/12/06 18:33 / ts
METALS - DISSOLVED							
Uranium	0.952	mg/L	D	0.001		E200.8	04/10/06 20:02 / sml

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

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LABORATORY ANALYTICAL REPORT

Client: Western Nuclear Inc
Project: Split Rock Mill Site
Lab ID: C06040349-005
Client Sample ID: Field Blank

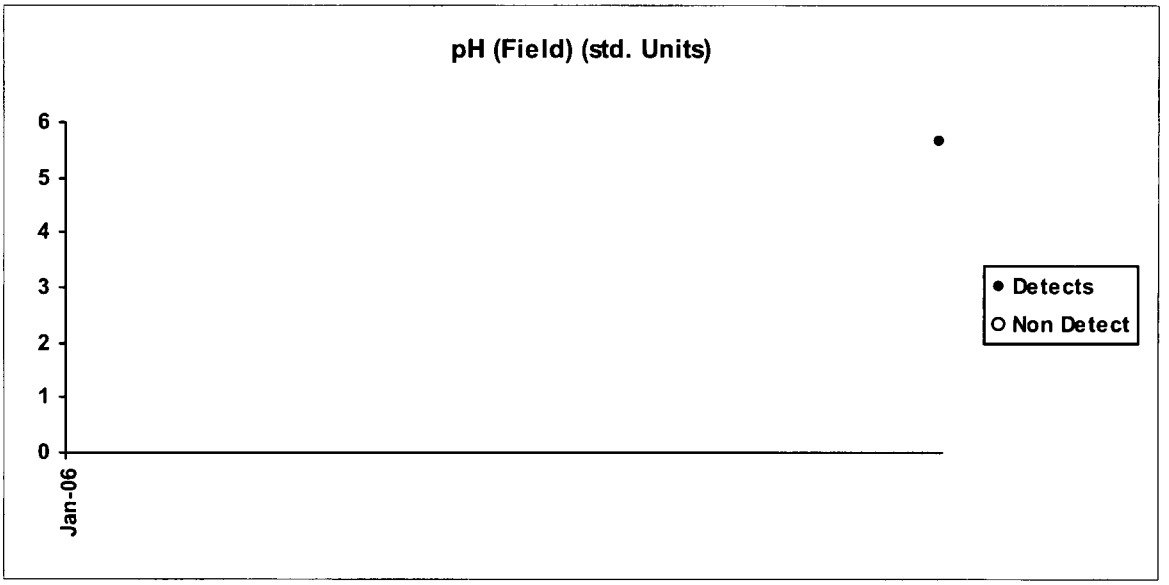
Report Date: 05/15/06
Collection Date: 04/07/06 15:30
Date Received: 04/10/06
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	ND	mg/L		1		E200.7	04/12/06 17:01 / ts
Fluoride	ND	mg/L		0.1		A4500-F C	04/10/06 12:01 / th
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	04/11/06 12:32 / jal
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/13/06 11:27 / jal
Sulfate	ND	mg/L		1		E200.7	04/12/06 17:01 / ts
PHYSICAL PROPERTIES							
pH	8.10	s.u.		0.01		A4500-H B	04/10/06 14:22 / th
Solids, Total Dissolved TDS @ 180 C	12	mg/L		10		A2540 C	04/10/06 14:58 / jc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/12/06 12:37 / sml
Antimony	ND	mg/L		0.05		E200.8	04/12/06 12:37 / sml
Arsenic	ND	mg/L		0.01		E200.8	04/12/06 12:37 / sml
Beryllium	ND	mg/L		0.004		E200.8	04/12/06 12:37 / sml
Cadmium	ND	mg/L		0.001		E200.8	04/12/06 12:37 / sml
Lead	ND	mg/L		0.005		E200.8	04/12/06 12:37 / sml
Manganese	ND	mg/L		0.05		E200.8	04/12/06 12:37 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/12/06 12:37 / sml
Nickel	ND	mg/L		0.05		E200.8	04/12/06 12:37 / sml
Selenium	ND	mg/L		0.005		E200.8	04/12/06 12:37 / sml
Thallium	ND	mg/L		0.1		E200.8	04/12/06 12:37 / sml
Uranium	ND	mg/L		0.001		E200.8	04/12/06 12:37 / sml
RADIONUCLIDES - DISSOLVED							
Radium 226	ND	pCi/L		1.0		E903.0	04/19/06 14:30 / trs
Radium 228	ND	pCi/L		2.0		RA-05	04/19/06 14:30 / trs
Thorium 230	ND	pCi/L		0.4		E907.0	05/01/06 11:00 / df
FIELD PARAMETERS							
pH	5.70	s.u.				FIELD	04/07/06 15:30 / ks

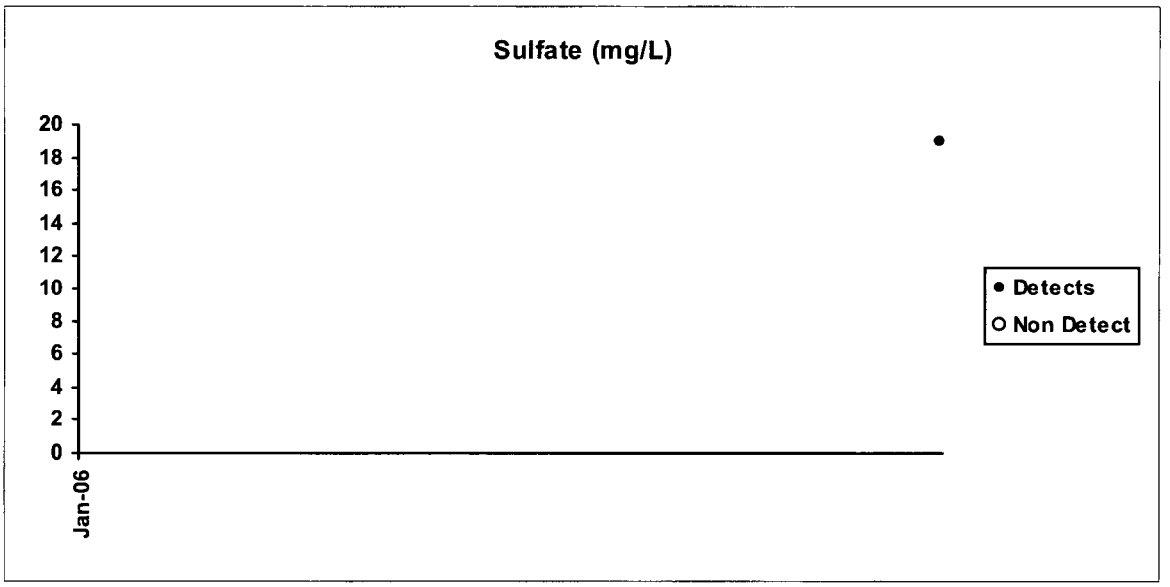
Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

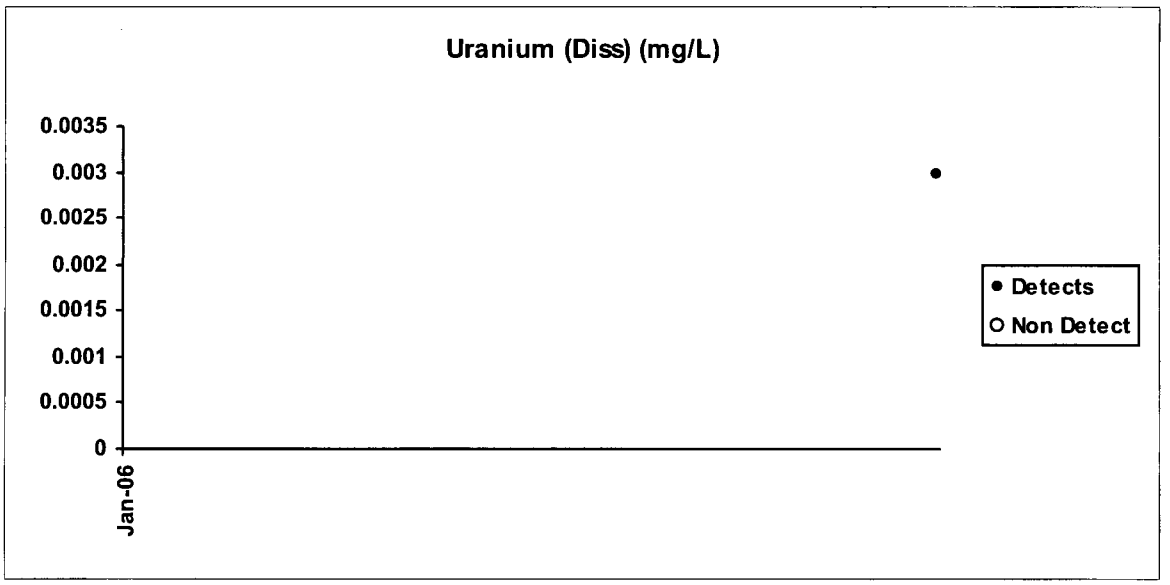
SURFACE WATER

Jeffrey City SW-1

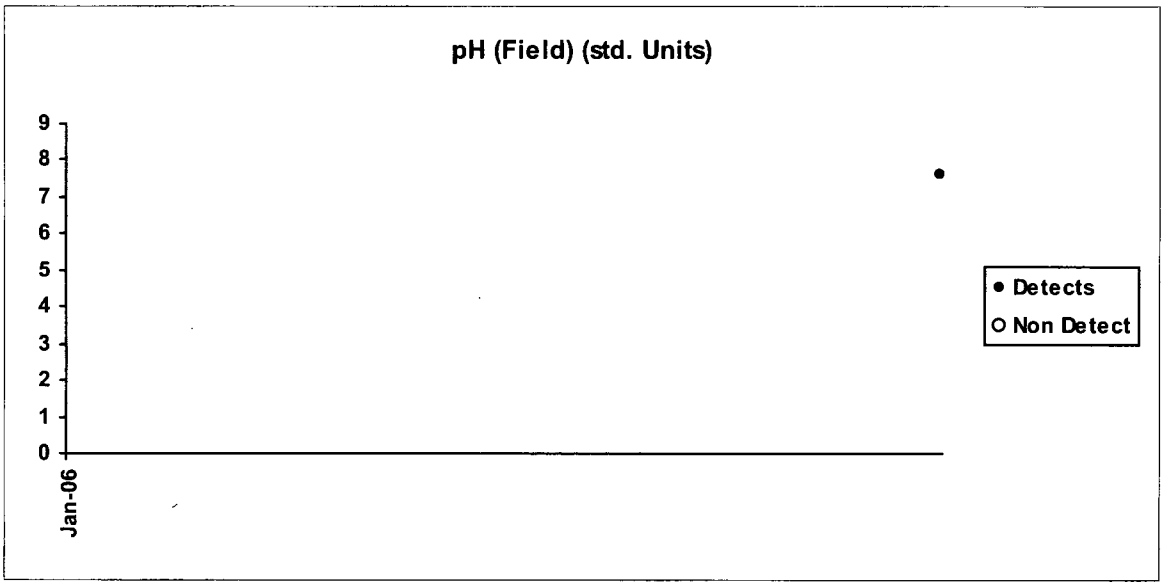


Jeffrey City SW-1

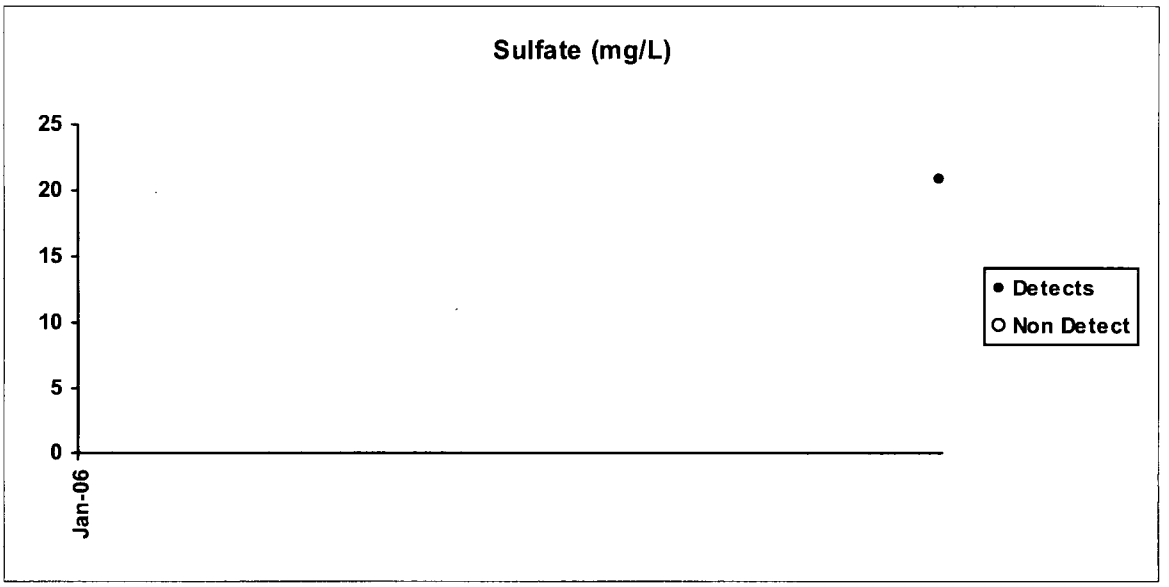


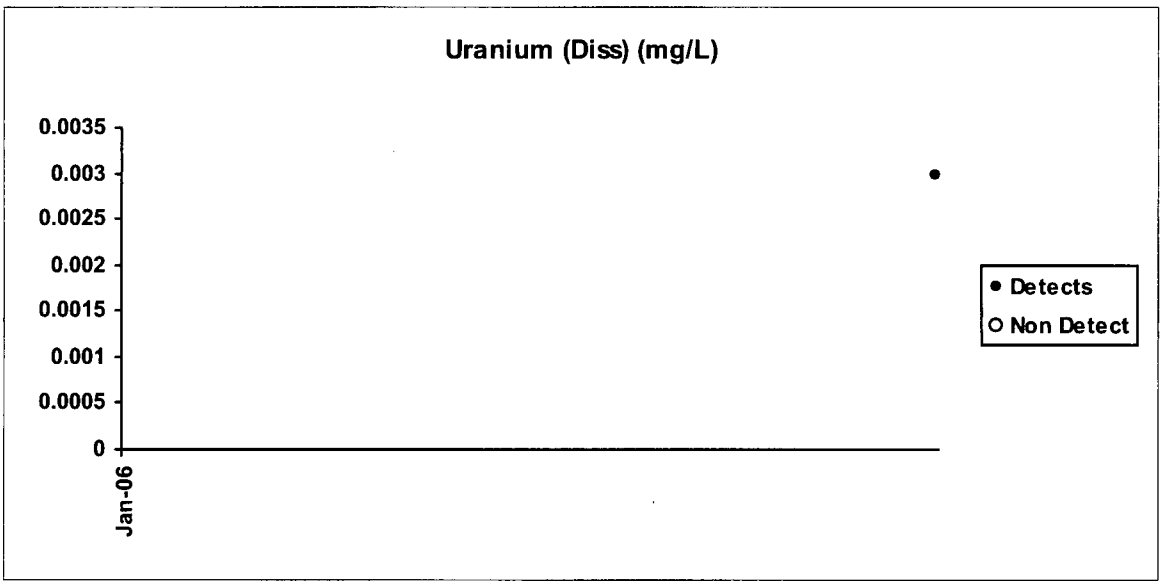


Jeffrey City SW-2

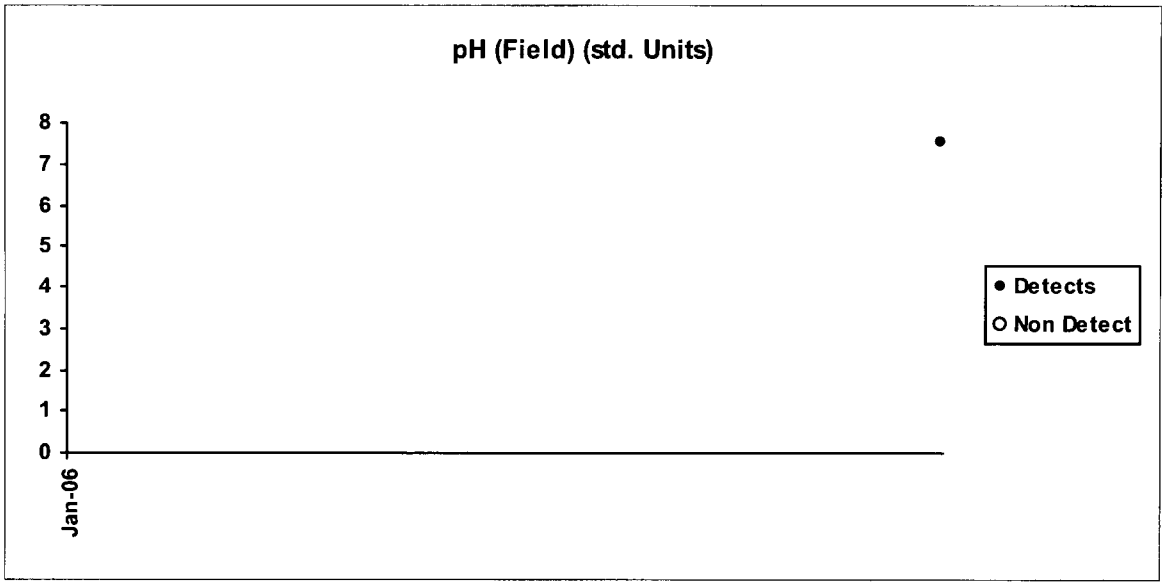


Jeffrey City SW-2

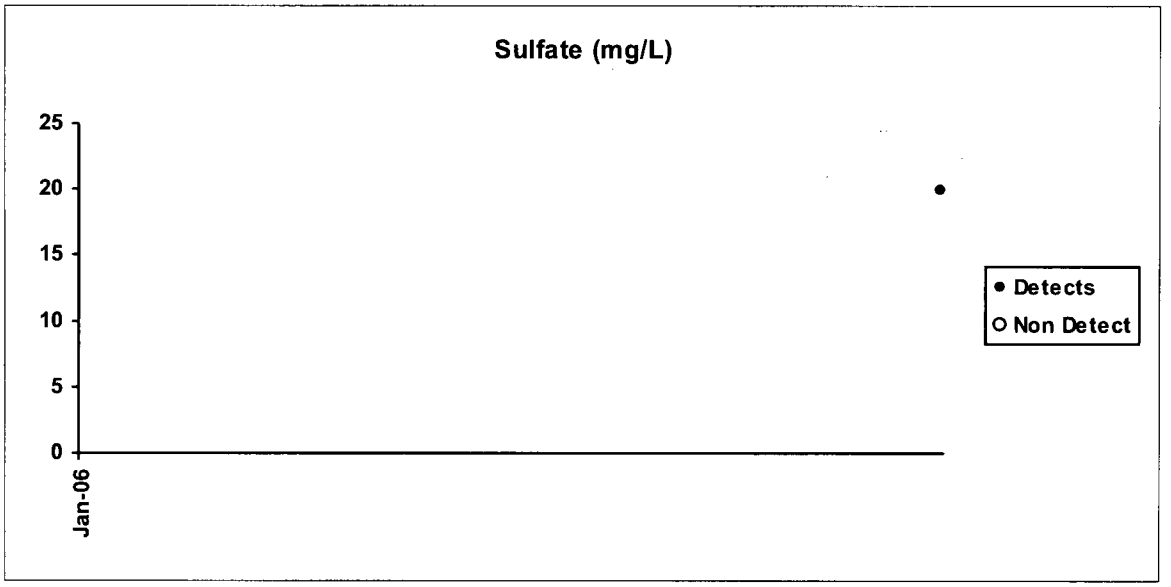


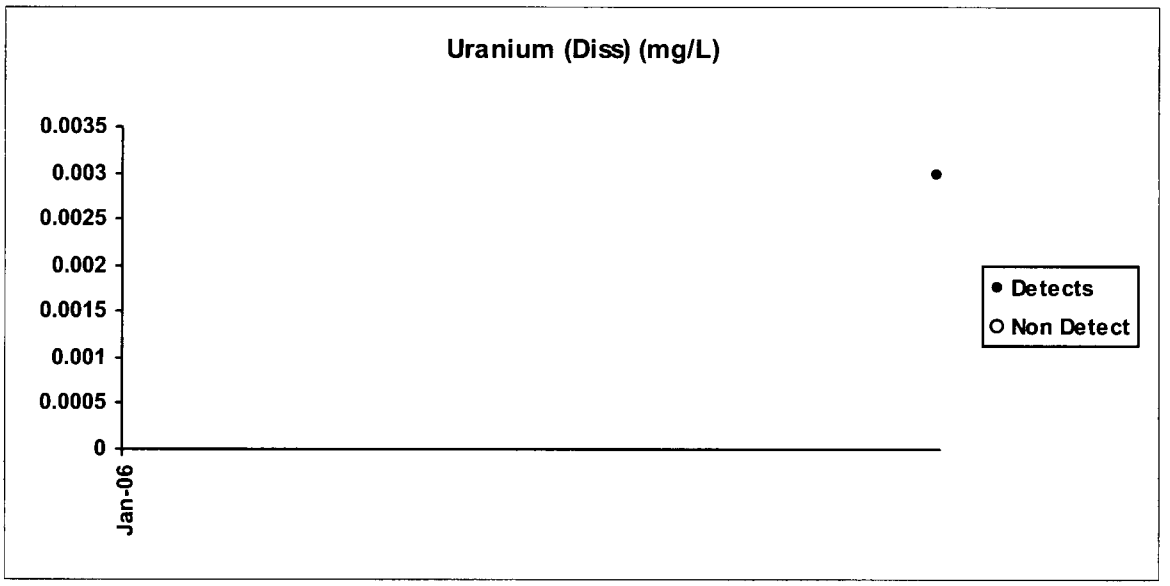


Jeffrey City SW-3

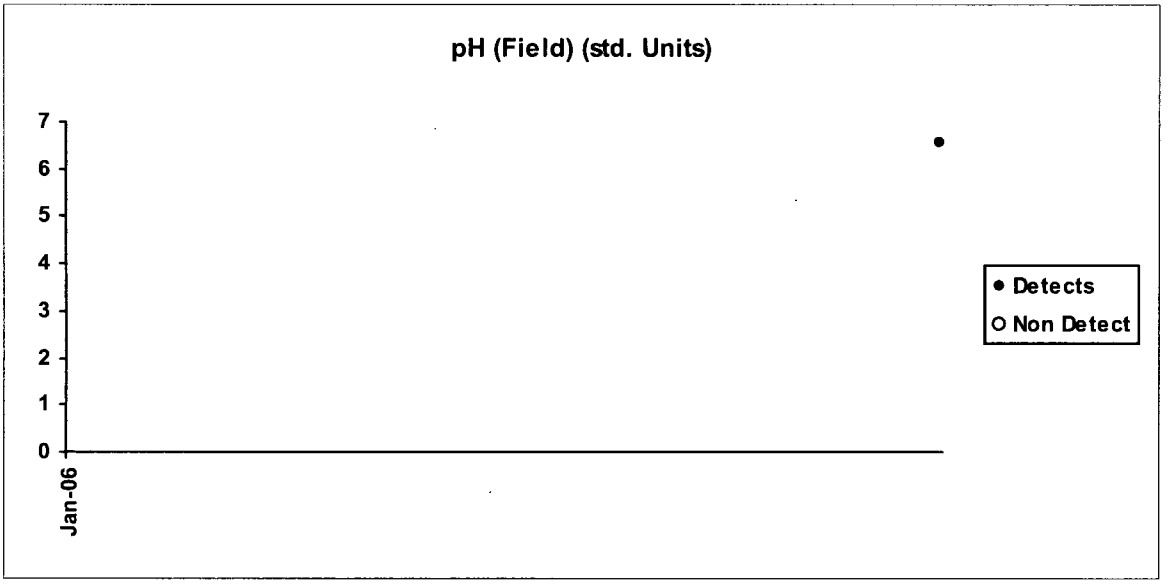


Jeffrey City SW-3

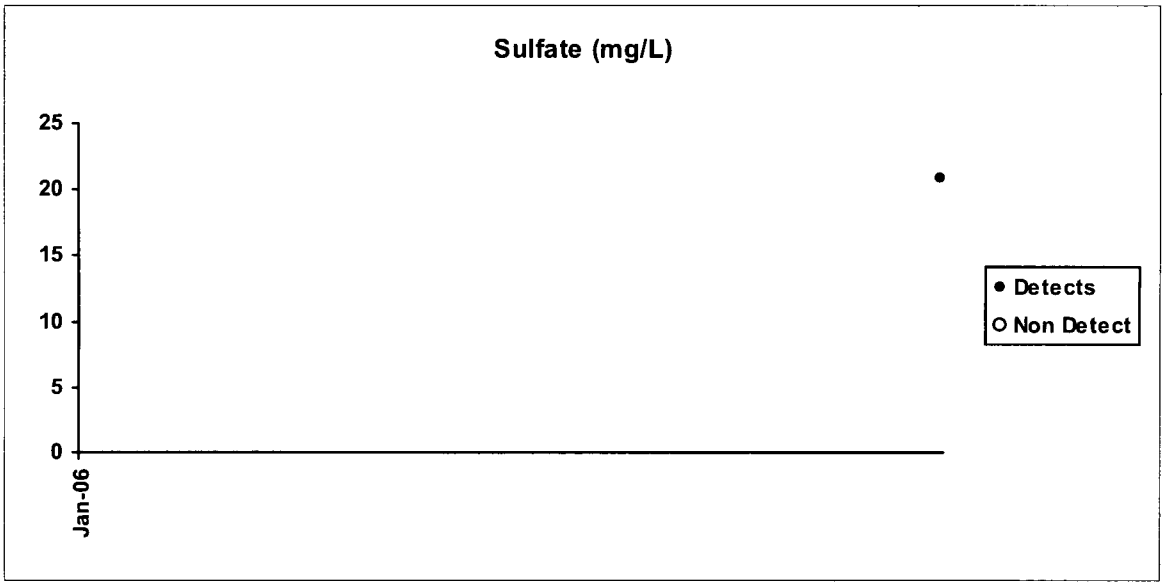


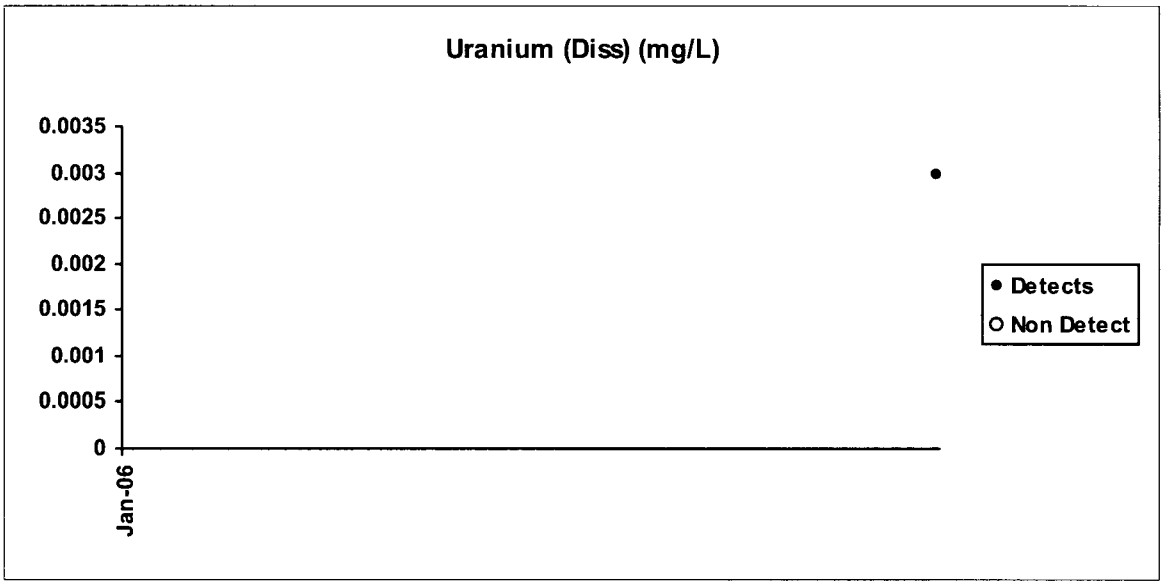


Jeffrey City SW-4

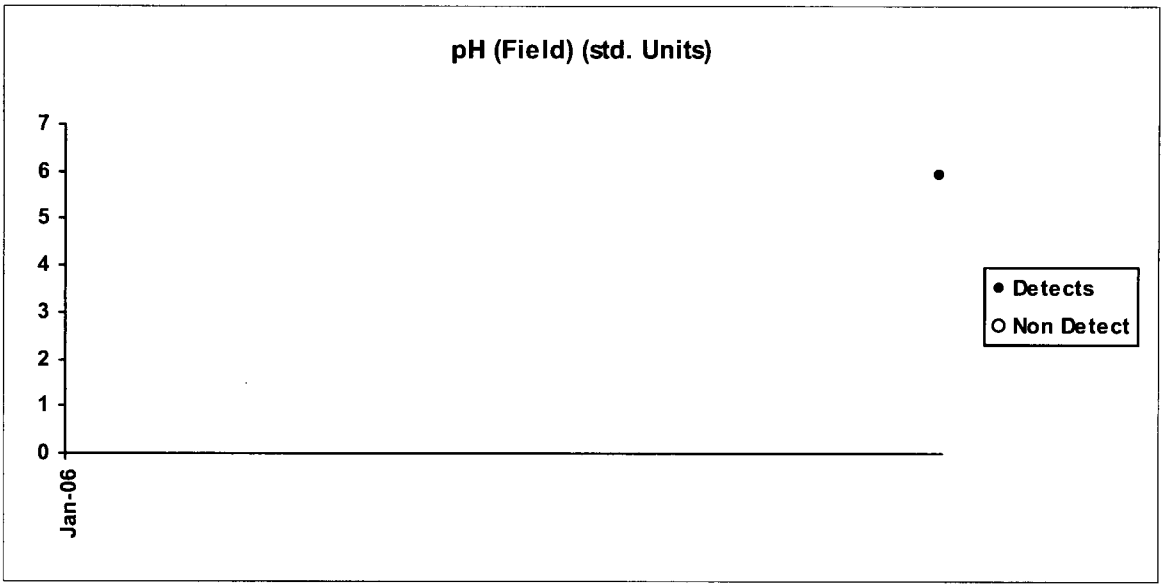


Jeffrey City SW-4

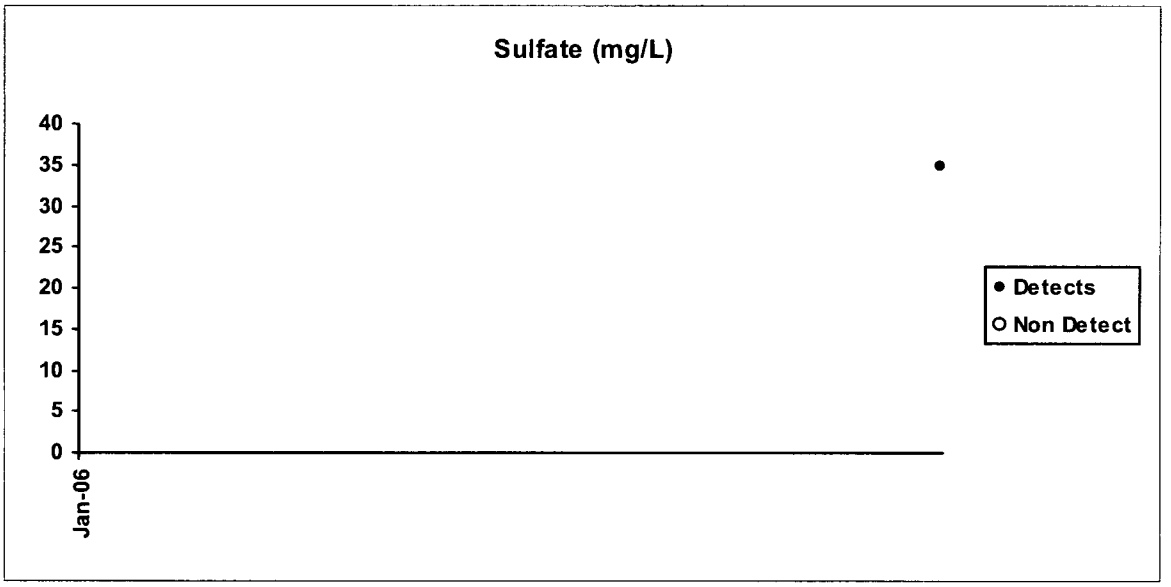


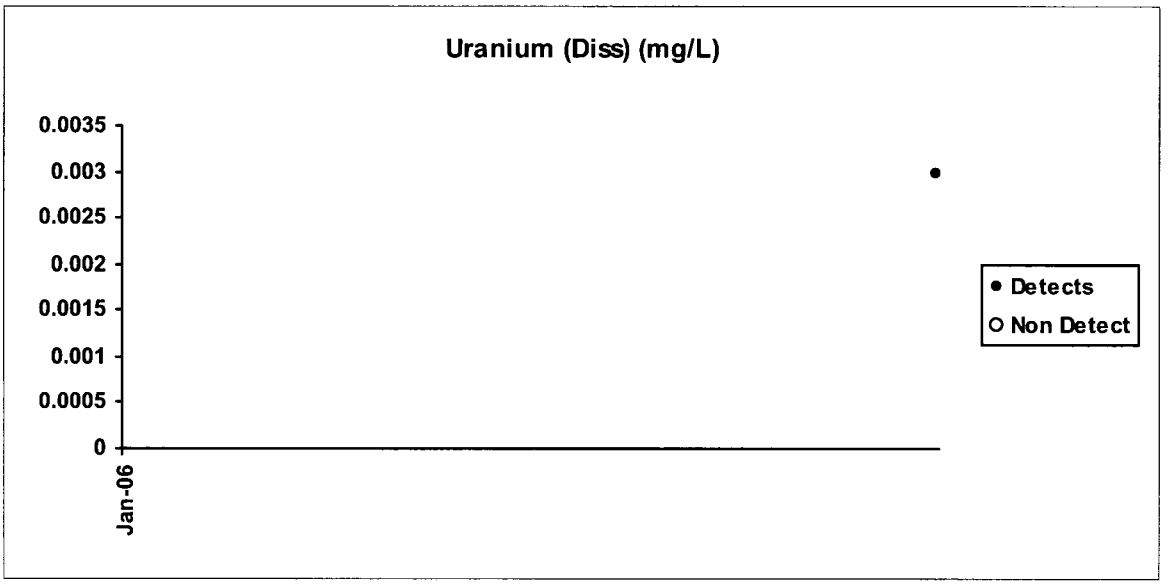


Jeffrey City SW-5



Jeffrey City SW-5





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LABORATORY ANALYTICAL REPORT

Client: Western Nuclear Inc
Project: Split Rock Mill Site
Lab ID: C06040349-007
Client Sample ID: SWR-A

Report Date: 05/15/06
Collection Date: 04/07/06 09:43
Date Received: 04/10/06
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	21	mg/L	D	2		E200.7	04/12/06 17:14 / ts
METALS - DISSOLVED							
Uranium	0.003	mg/L		0.001		E200.8	04/10/06 18:13 / sml

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

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LABORATORY ANALYTICAL REPORT

Client: Western Nuclear Inc
Project: Split Rock Mill Site
Lab ID: C06040349-006
Client Sample ID: SWR-B

Report Date: 05/15/06
Collection Date: 04/07/06 09:23
Date Received: 04/10/06
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	20	mg/L	D	2		E200.7	04/12/06 17:04 / ts
METALS - DISSOLVED							
Uranium	0.003	mg/L		0.001		E200.8	04/10/06 18:09 / sml

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

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LABORATORY ANALYTICAL REPORT

Client: Western Nuclear Inc
Project: Split Rock Mill Site
Lab ID: C06040349-008
Client Sample ID: SWR-C

Report Date: 05/15/06
Collection Date: 04/07/06 10:07
Date Received: 04/10/06
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	21	mg/L	D	2		E200.7	04/12/06 17:27 / ts
METALS - DISSOLVED							
Uranium	0.003	mg/L		0.001		E200.8	04/10/06 18:17 / sml

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

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LABORATORY ANALYTICAL REPORT

Client: Western Nuclear Inc
Project: Split Rock Mill Site
Lab ID: C06040349-010
Client Sample ID: SWR-UG

Report Date: 05/15/06
Collection Date: 04/07/06 11:01
Date Received: 04/10/06
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	19	mg/L	D	2		E200.7	04/12/06 17:34 / ts
METALS - DISSOLVED							
Uranium	0.003	mg/L		0.001		E200.8	04/10/06 18:25 / sml

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

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LABORATORY ANALYTICAL REPORT

Client: Western Nuclear Inc
Project: Split Rock Mill Site
Lab ID: C06040349-009
Client Sample ID: SWR-DG

Report Date: 05/15/06
Collection Date: 04/07/06 10:24
Date Received: 04/10/06
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	35	mg/L	D	2		E200.7	04/12/06 17:30 / ts
METALS - DISSOLVED							
Uranium	0.003	mg/L		0.001		E200.8	04/10/06 18:21 / sml

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