WESTERN NUCLEAR, INC.

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August 7, 2007

Keith McConnell, Deputy Director
Division of Waste Management and Environmental Protection
Office of Federal and State Materials and Environmental Management Programs
U.S. Nuclear Regulatory Commission
Mailstop T8F5
Washington, DC 20555-0001

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

Dear Mr. McConnell:

Please find enclosed for Nuclear Regulatory Commission review, the surface water and groundwater sampling results for the first half of 2007 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 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. No data were reported for monitor well SWAB-12 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 within expected ranges and that the system is behaving as predicted.

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

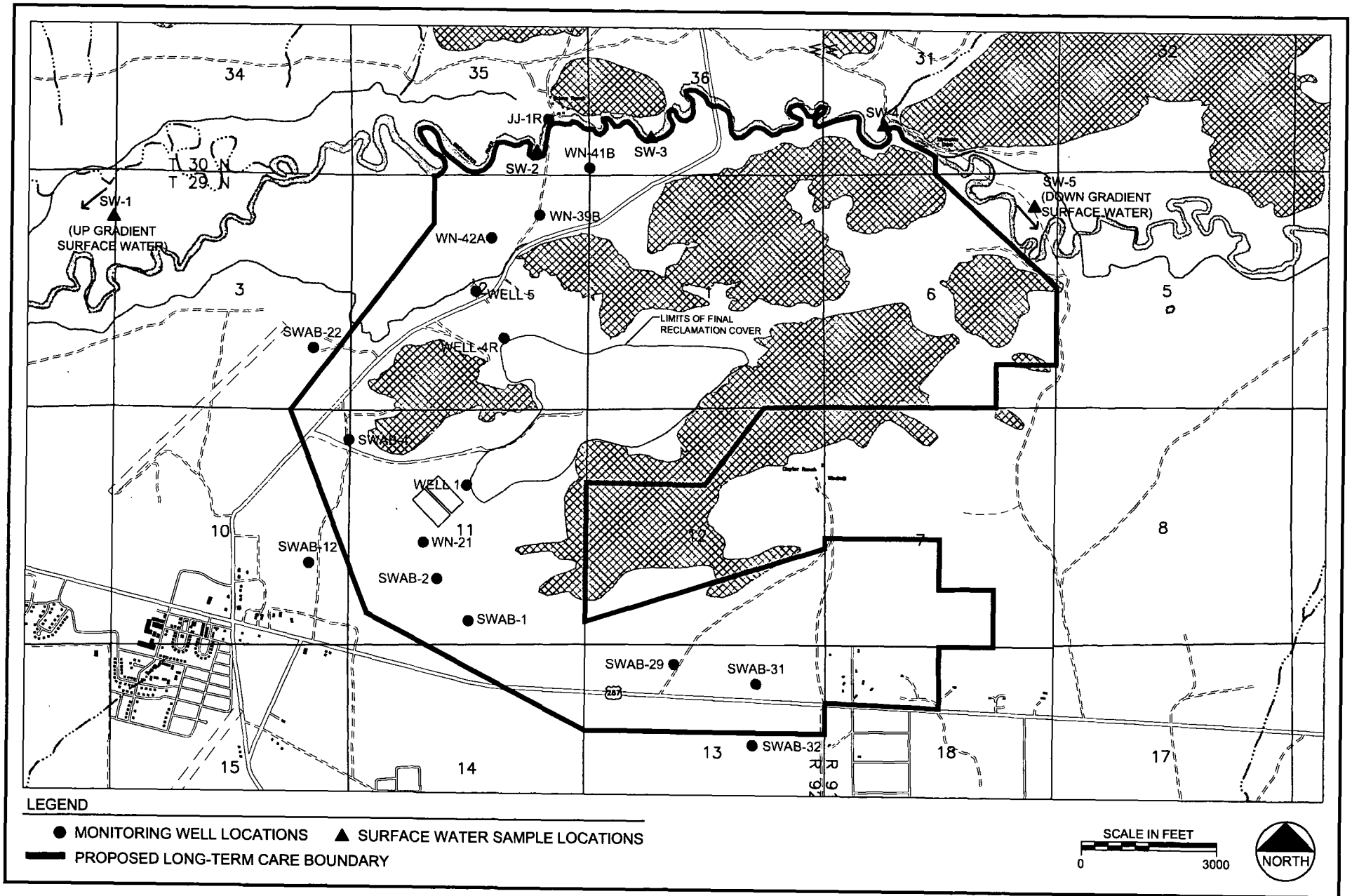
Sincerely,

for

Lawrence J. Corte
President

Enclosure

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 2007

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

1st Half-2007 (Sampled: 4/18/2007 to 4/19/2007)

Groundwater

Parameter	*WELL-1*	*WELL-4R*	*WELL-5*	*WN-21*	*WN-39B*	*WN-41B*	*WN-42A*
Aluminum (D) (mg/L)	<0.1	1.4	<0.1	<0.1			
Ammonia as N (mg/L)	0.0044	0.1647	0.0003	0.0315			
Antimony (mg/L)	<0.05	<0.05	<0.05	<0.05			
Arsenic (D) (mg/L)	<0.01	<0.01	<0.01	<0.01			
Beryllium (D) (mg/L)	<0.004	<0.004	<0.004	<0.004			
Cadmium (D) (mg/L)	<0.001	0.021	<0.001	<0.001			
Chloride (mg/L)	102	110	118	14			
Cond Field (uS/cm)	3970	6570	4000	847	1054	2520	4290
Lead (D) (mg/L)	<0.005	<0.005	<0.005	<0.005			
Manganese (D) (mg/L)	1.97	85.8	0.4	0.48			
Molybdenum (D) (mg/L)	<0.1	<0.1	<0.1	<0.1			
Nickel (D) (mg/L)	<0.05	0.5	<0.05	<0.05			
Nitrate + Nitrite as N (mg/L)	27	108	46.5	5.6			
pH Field (std. units)	6.08	6.1	6.59	7.3	7.56	8.26	6.84
Radium-226 (D) (pCi/L)	1.1+/-0.4	<1	<1	<1			
Radium-228 (D) (pCi/L)	<2	<2	<2	<2			
Selenium (D) (mg/L)	<0.005	0.027	0.017	<0.005			
Sulfate (mg/L)	1490	3080	1710	120	213	390	2340
TDS (mg/L)	3390	4760	3680	382			
Temp Field (C)	10.67	9.72	10.61	10.78	8.67	8.83	9.28
Thalium (mg/L)	<0.1	<0.1	<0.1	<0.1			
Thorium-230 (D) (mg/L)	<0.4	<0.4	<0.4	<0.4			
Uranium (D) (mg/L)	5.36	0.354	1.99	0.105	0.313	0.021	0.92

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-2007 (Sampled: 4/18/2007 to 4/19/2007)

	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)	669	1880		4840	463	532	485
Lead (D) (mg/L)							
Manganese (D) (mg/L)							
Molybdenum (D) (mg/L)							
Nickel (D) (mg/L)							
Nitrate + Nitrite as N (mg/L)							
pH Field (std. units)	7.48	7.27		6.5	7.28	7.42	7.9
Radium-226 (D) (pCi/L)							
Radium-228 (D) (pCi/L)							
Selenium (D) (mg/L)							
Sulfate (mg/L)	56	444		1270	46	54	34
TDS (mg/L)							
Temp Field (C)	8.67	8.06		7.89	8.44	6.72	8.06
Thalium (mg/L)							
Thorium-230 (D) (mg/L)							
Uranium (D) (mg/L)	0.014	0.65		1.62	0.022	0.053	0.034

SWAB-12 not sampled, no water

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

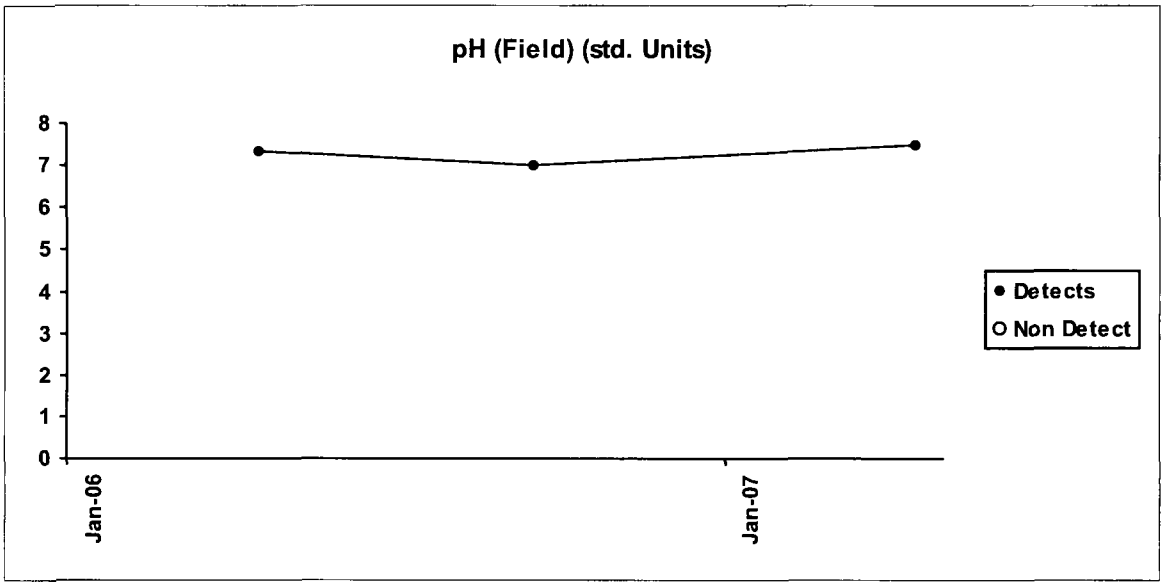
1st Half-2007 (Sampled: 4/18/2007 to 4/19/2007)

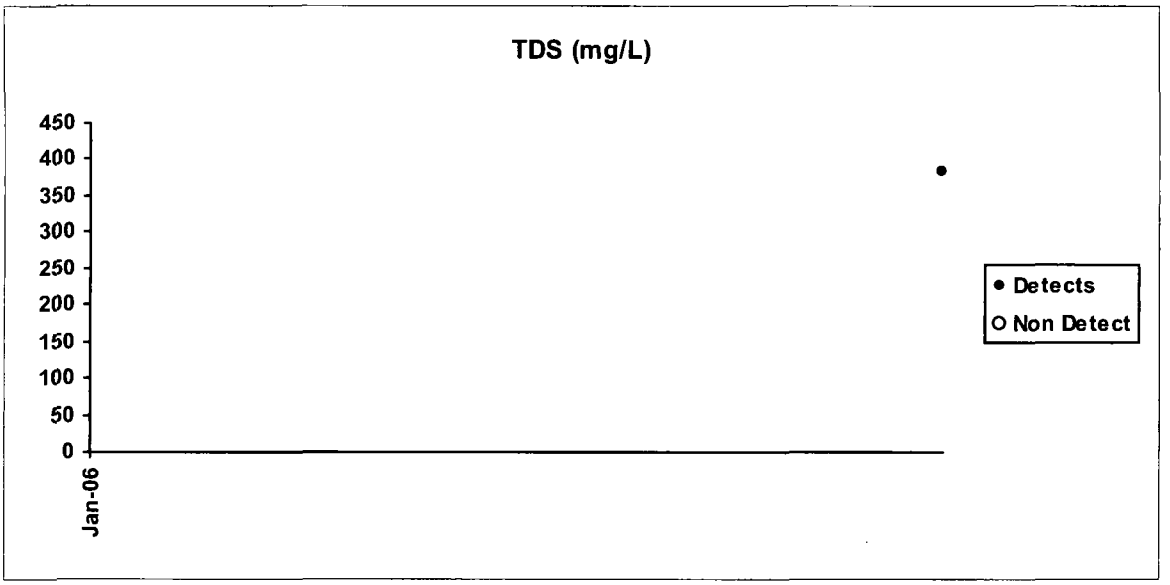
		Groundwater		*Surface Water*			
Parameter	***SWAB-32***	***SWAB-4***	***SW-1***	***SW-2***	***SW-3***	***SW-4***	***SWR-5***
Aluminum (D) (mg/L)							
Ammonia as N (mg/L)							
Antimony (mg/L)							
Arsenic (D) (mg/L)							
Beryllium (D) (mg/L)							
Cadmium (D) (mg/L)							
Chloride (mg/L)							
Cond Field (uS/cm)	599	1960	251	248	288	246	252
Lead (D) (mg/L)							
Manganese (D) (mg/L)							
Molybdenum (D) (mg/L)							
Nickel (D) (mg/L)							
Nitrate + Nitrite as N (mg/L)							
pH Field (std. units)	7.85	7.19	7.9	7.9	8.38	8.55	8.28
Radium-226 (D) (pCi/L)							
Radium-228 (D) (pCi/L)							
Selenium (D) (mg/L)							
Sulfate (mg/L)	55	569	17	17	18	18	19
TDS (mg/L)							
Temp Field (C)	9.06	5.5	9.89	9.61	10.4	9.39	9.61
Thalium (mg/L)							
Thorium-230 (D) (mg/L)							
Uranium (D) (mg/L)	0.135	0.995	0.002	0.002	0.003	0.003	0.003

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





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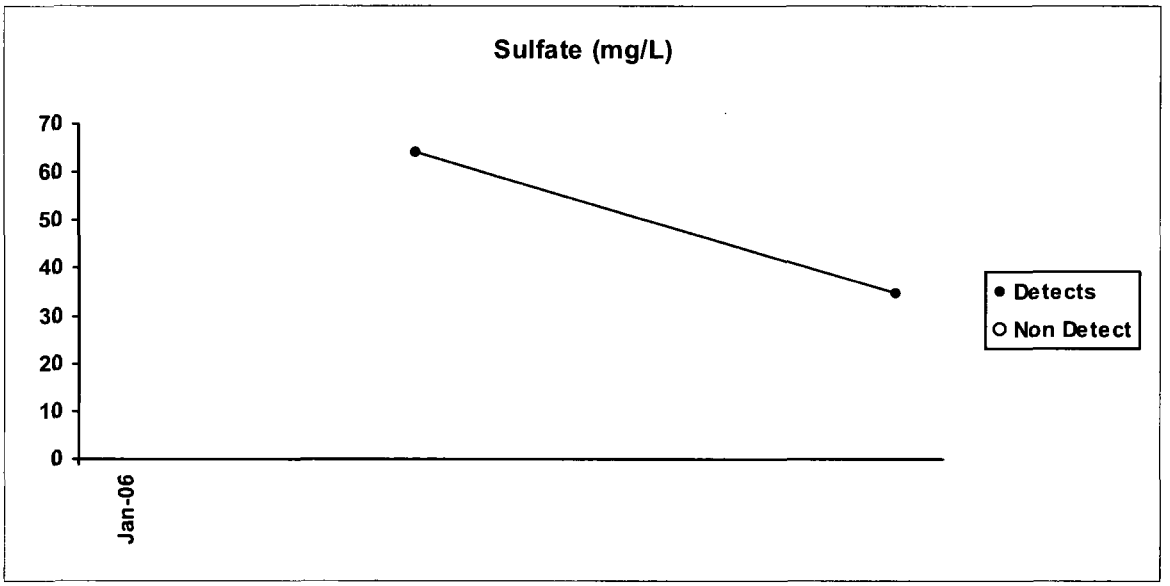

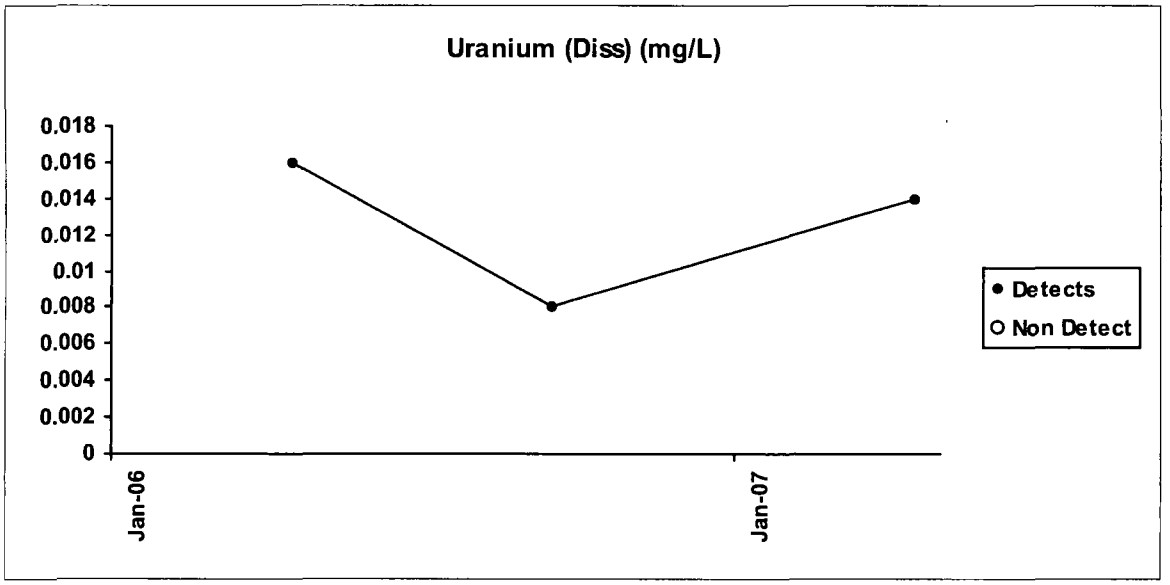

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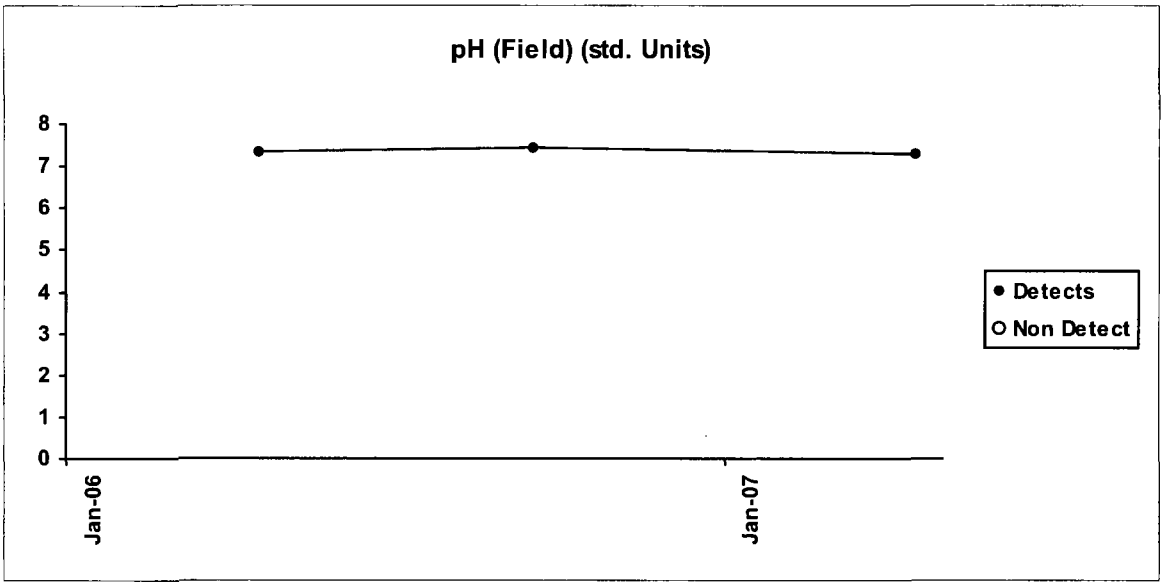

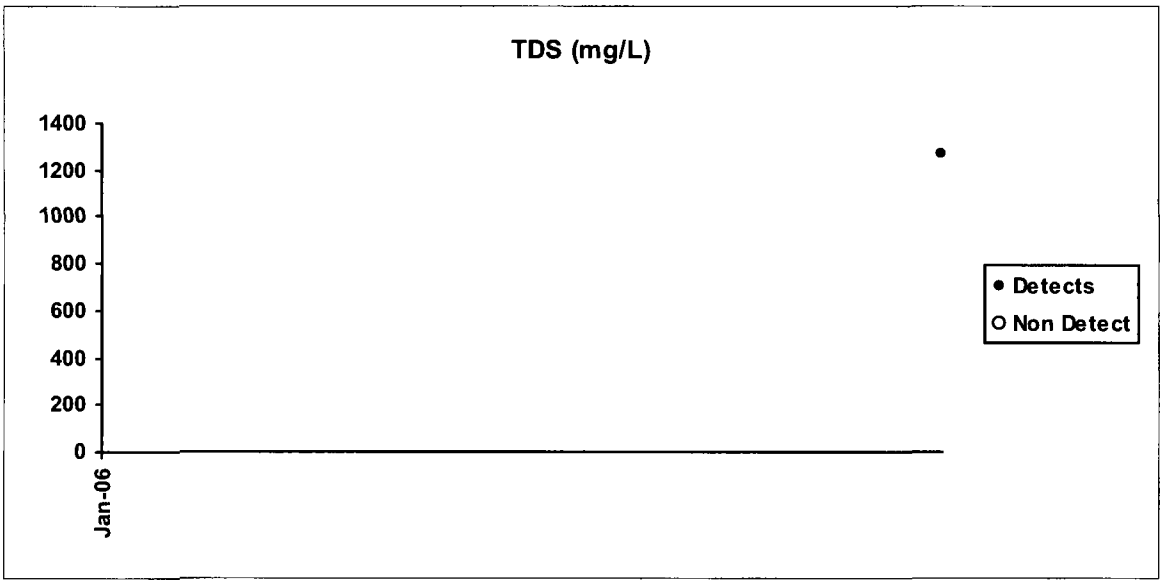

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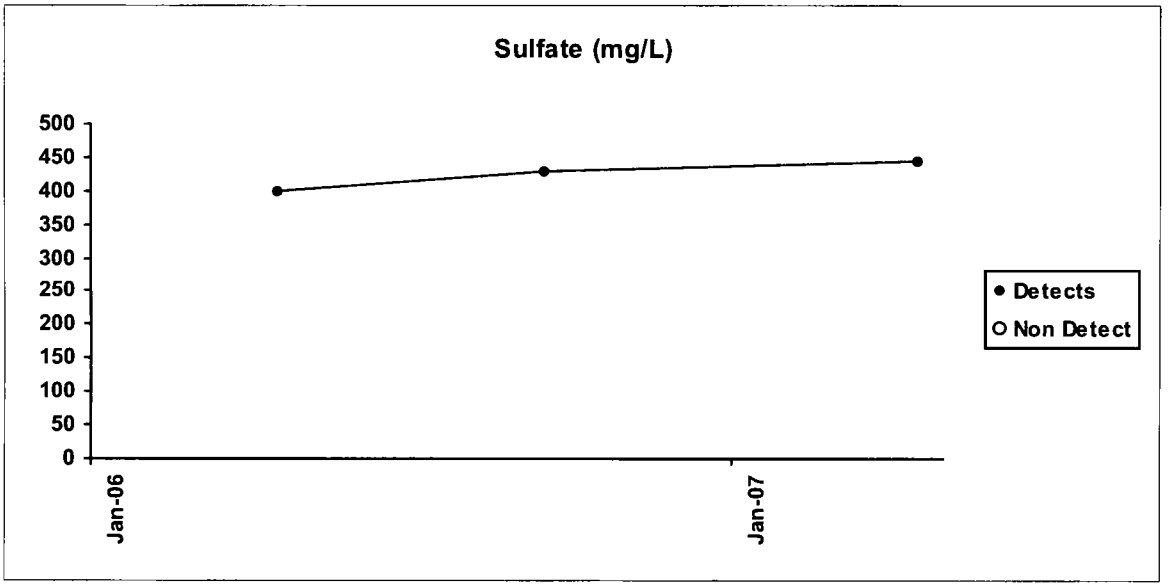

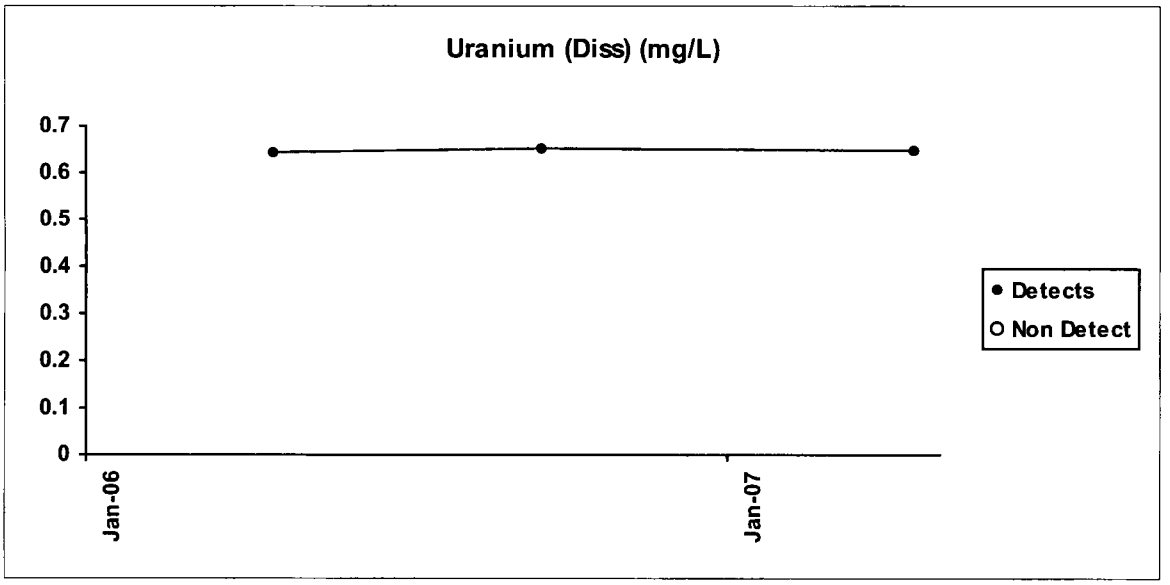

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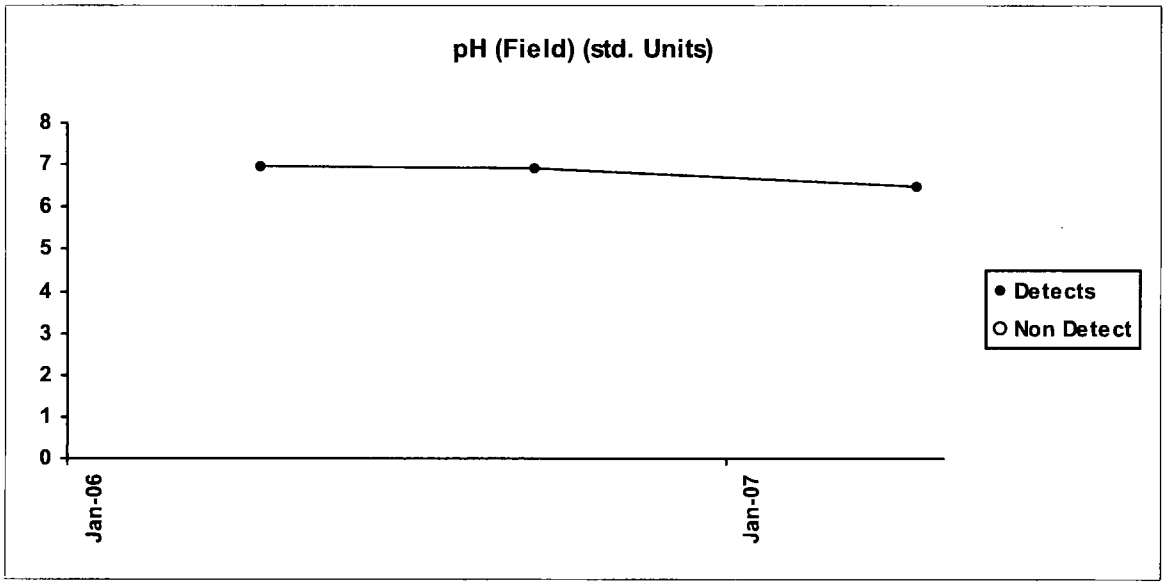

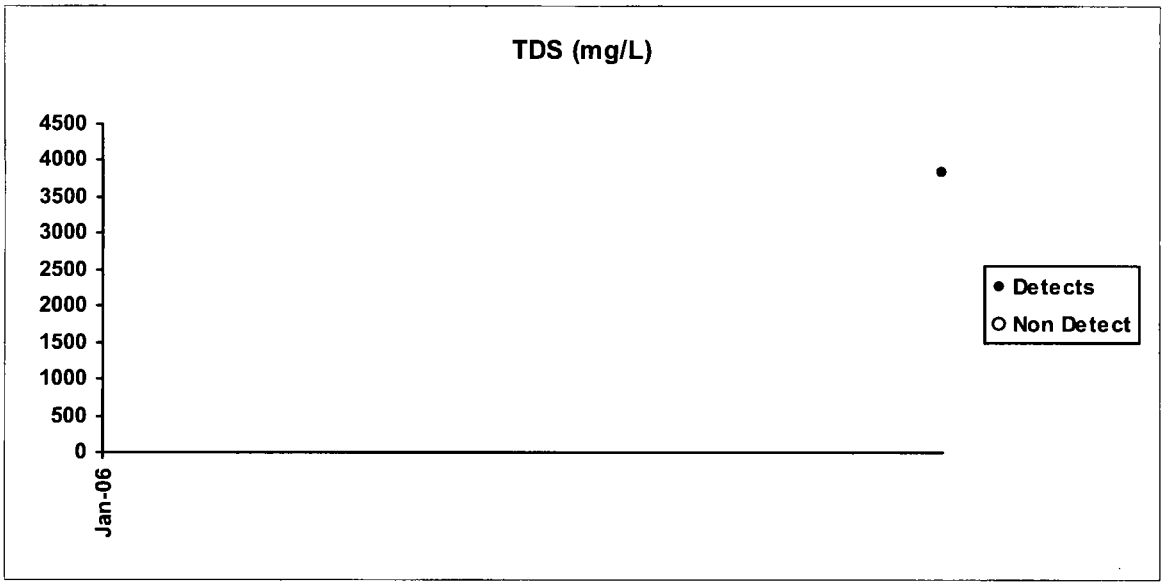

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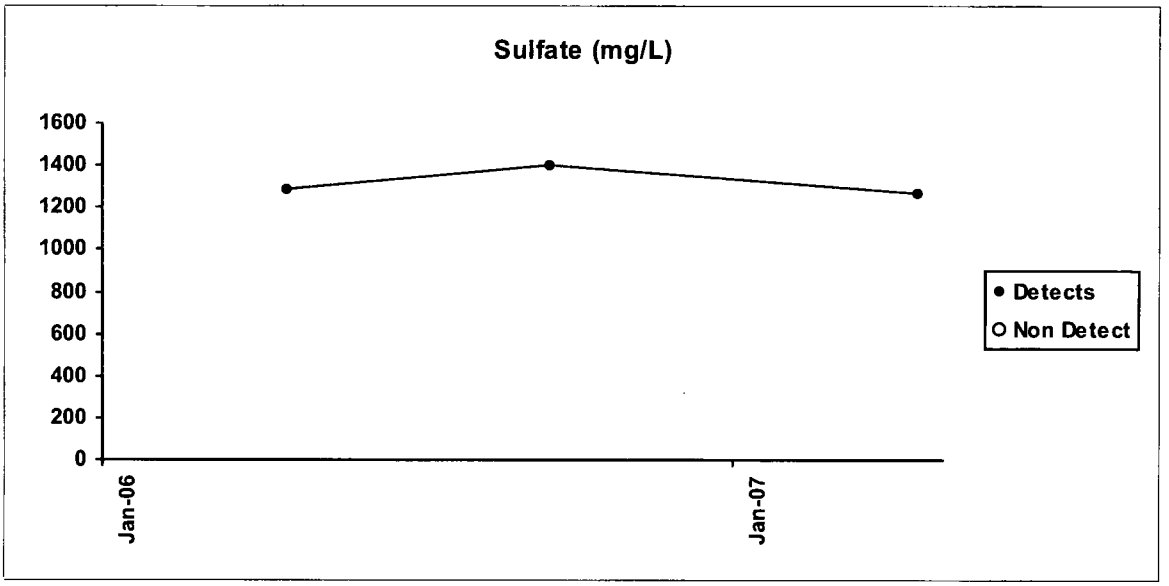

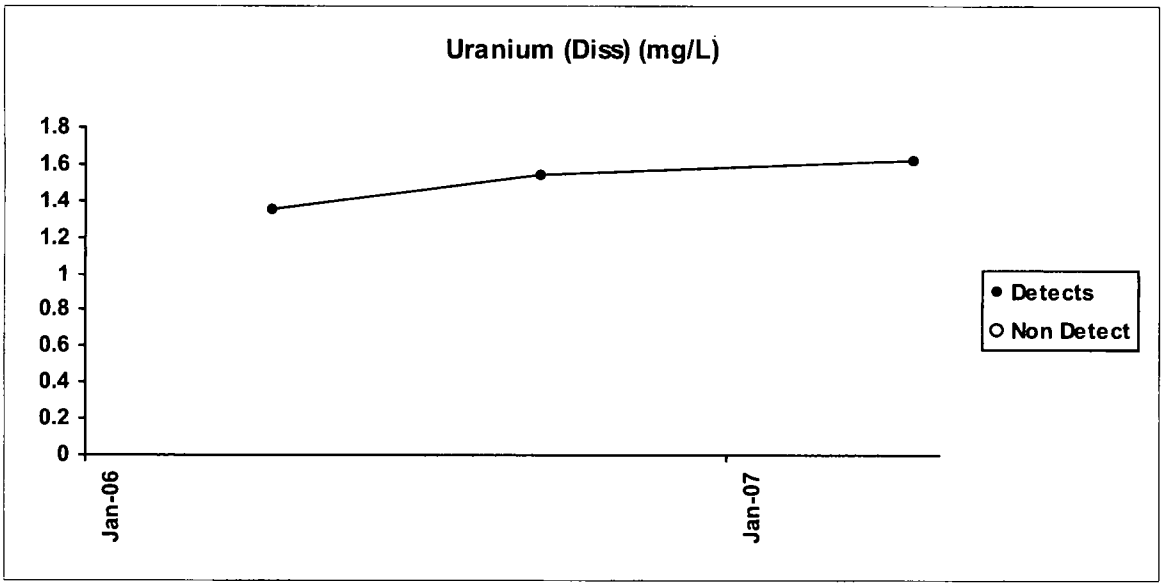

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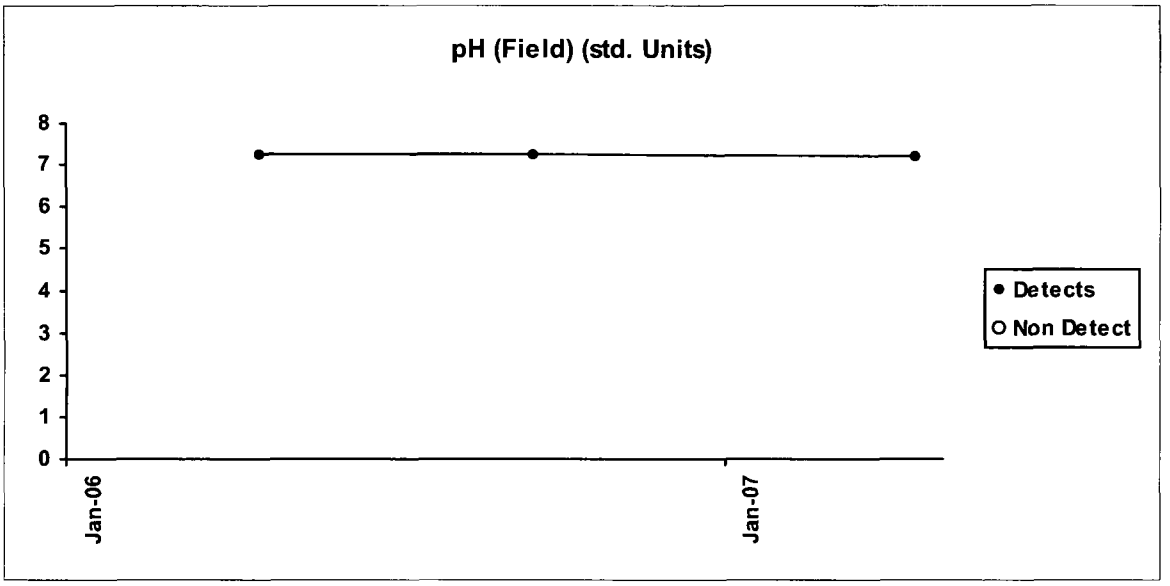

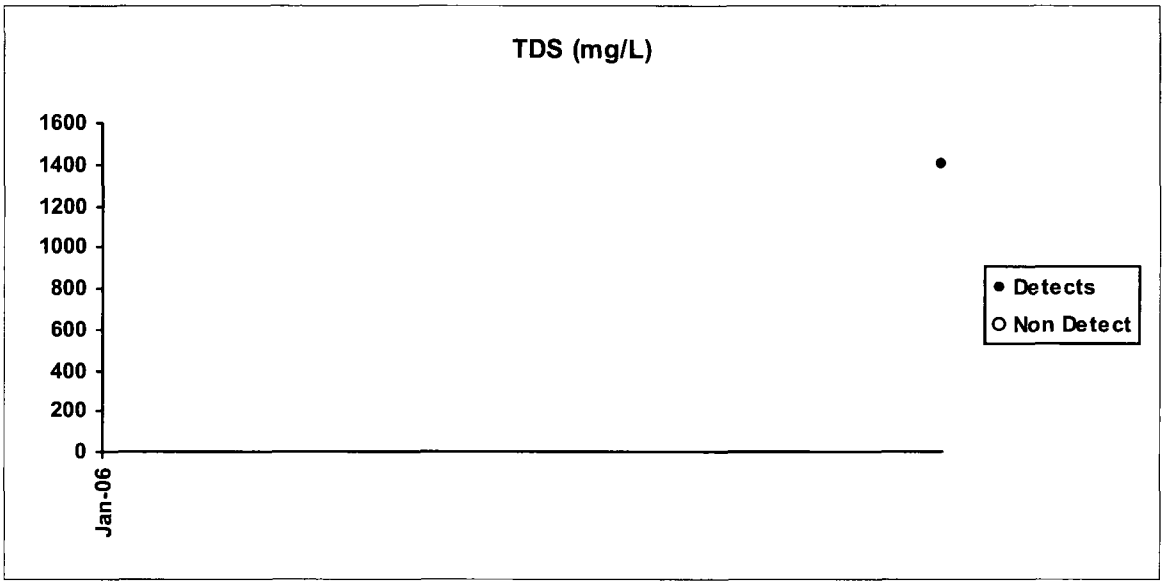

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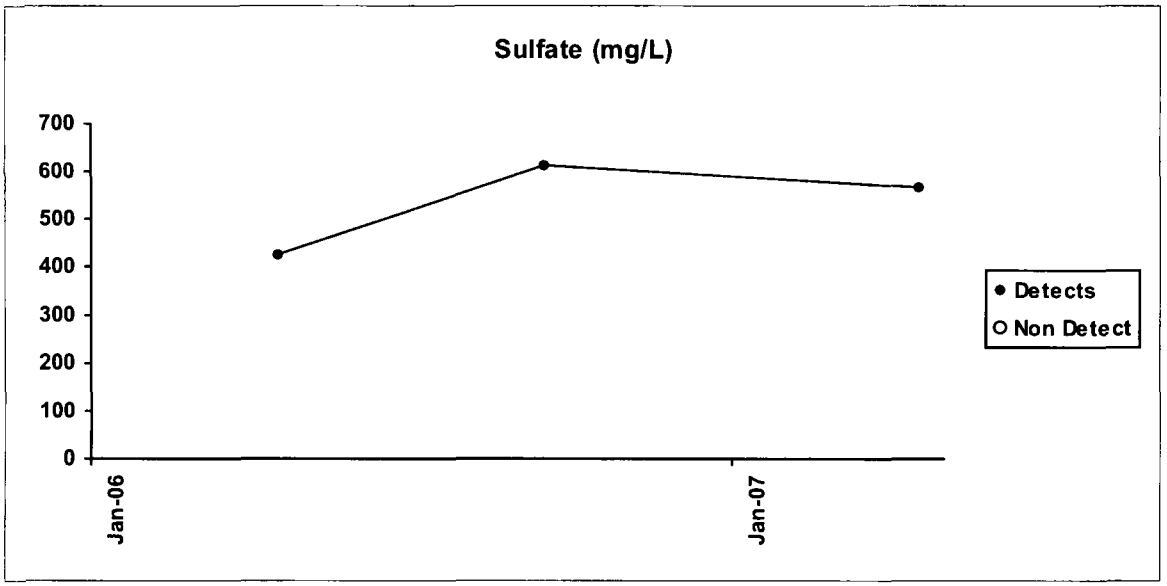

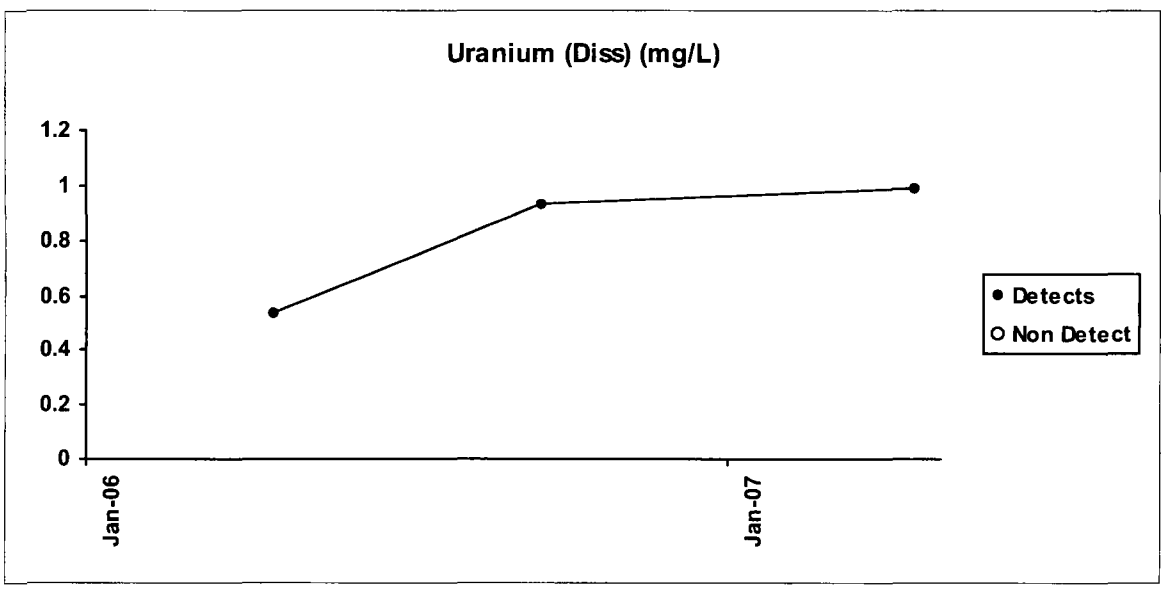

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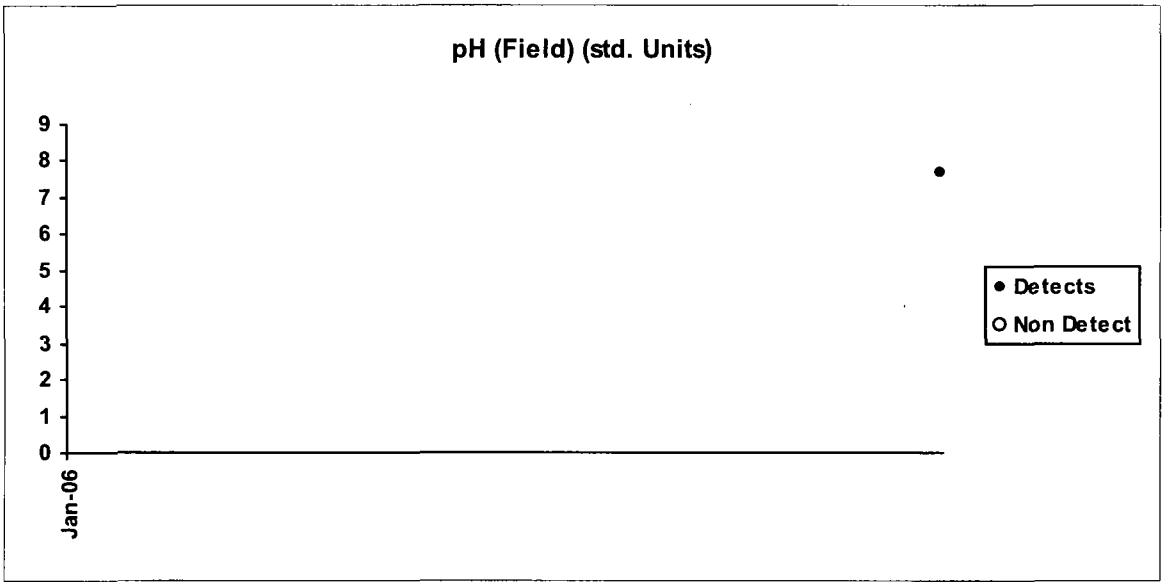

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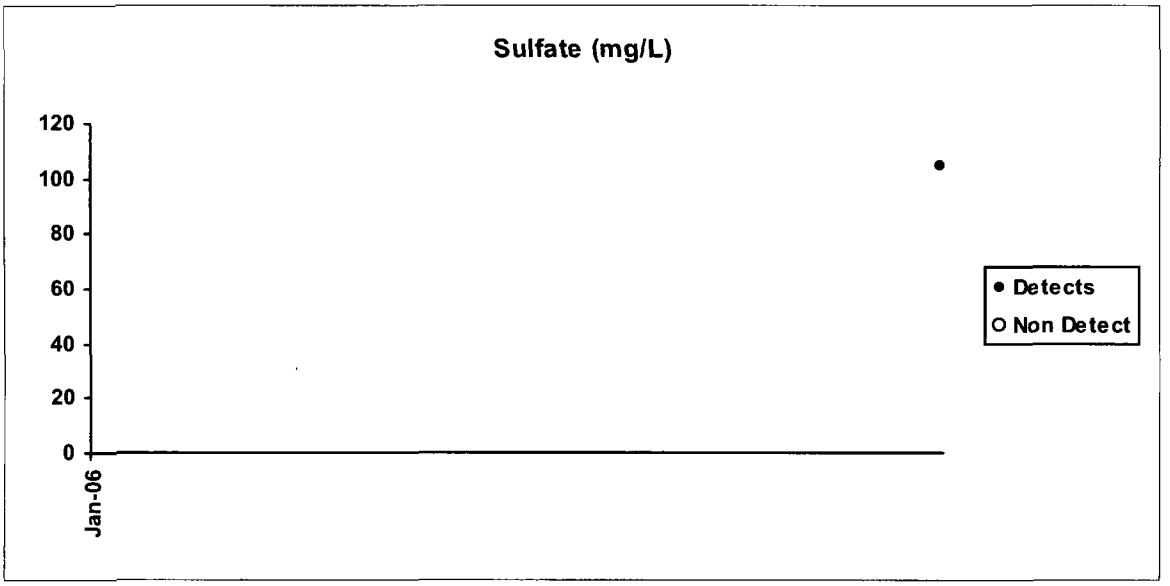

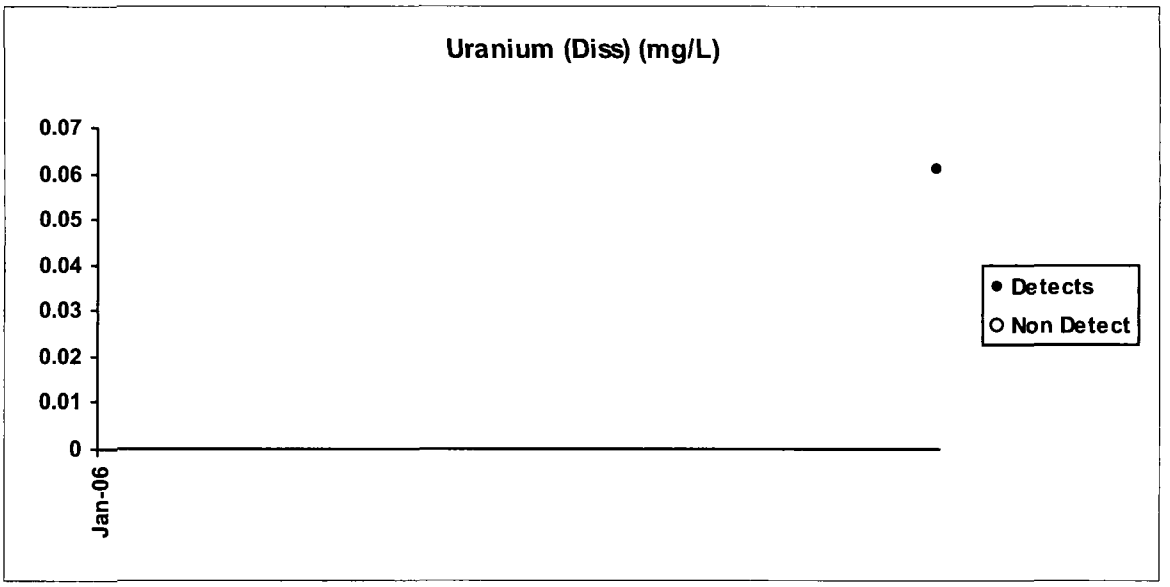

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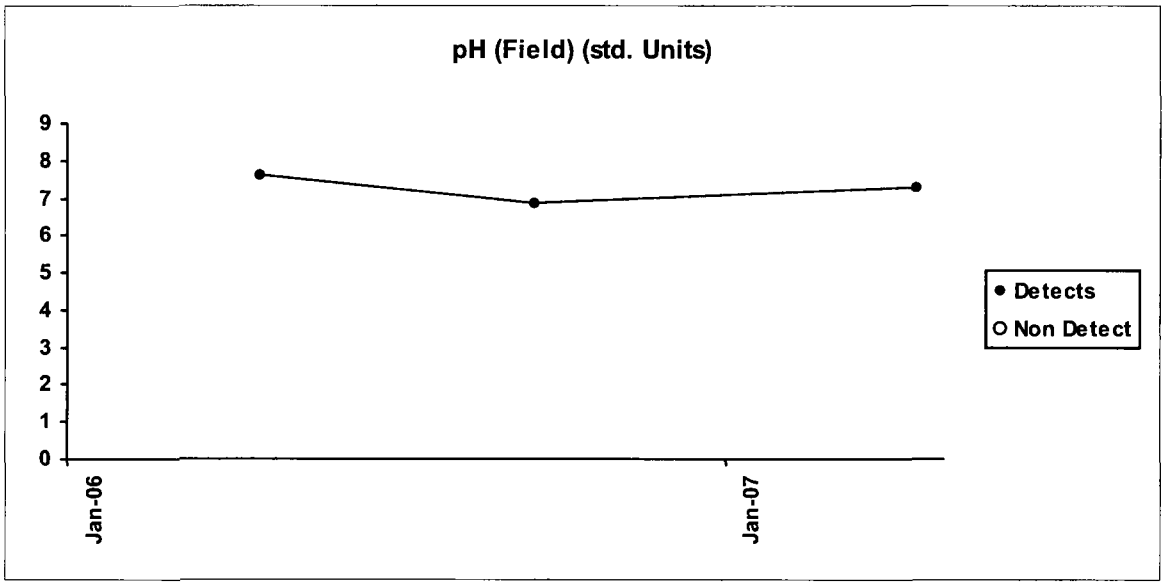

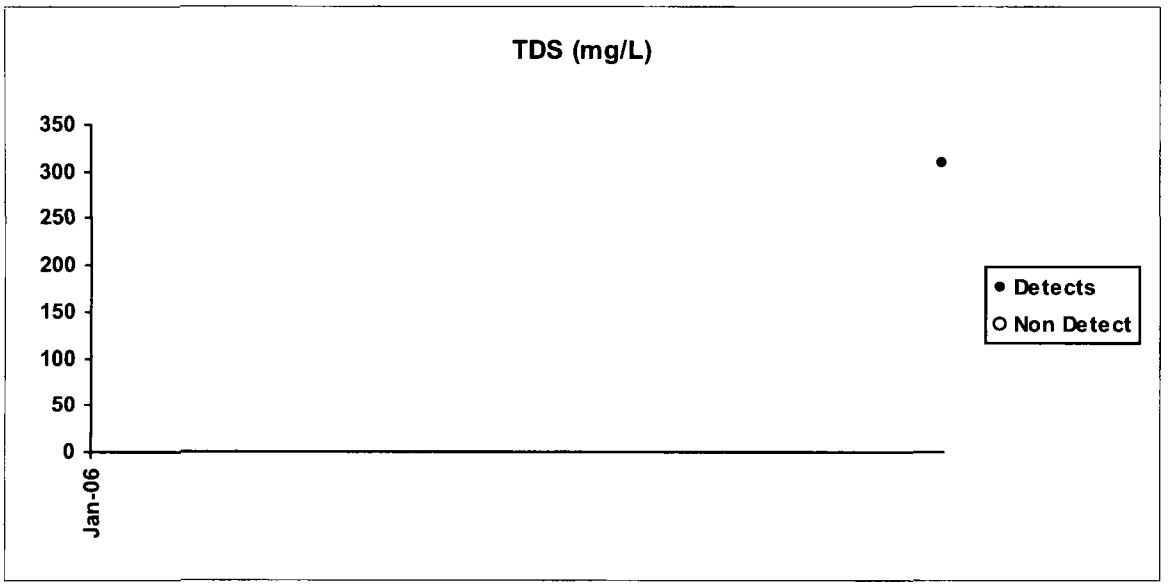

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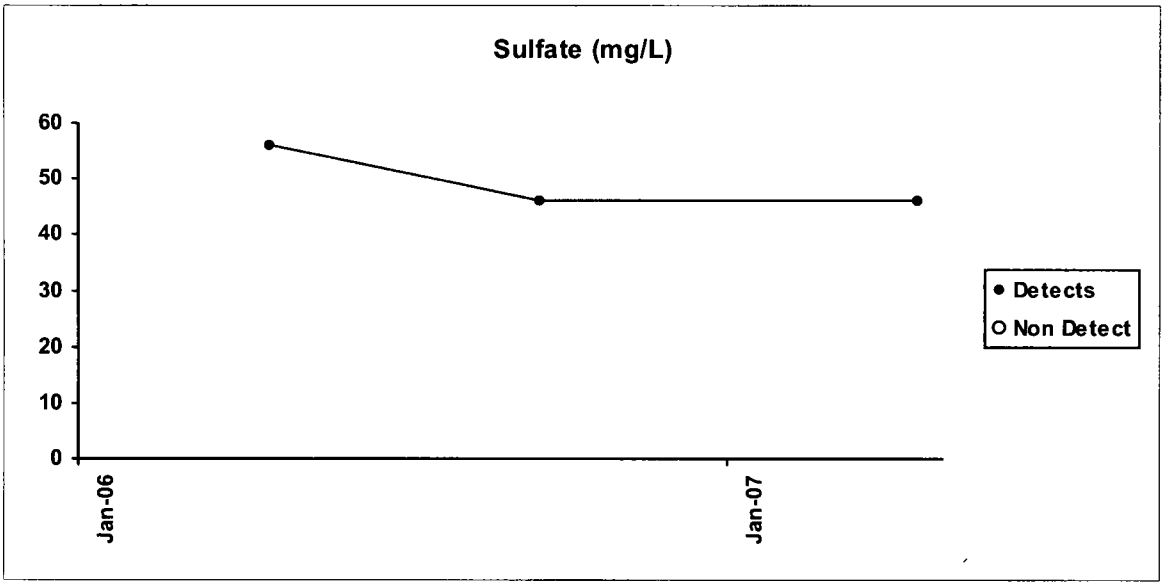

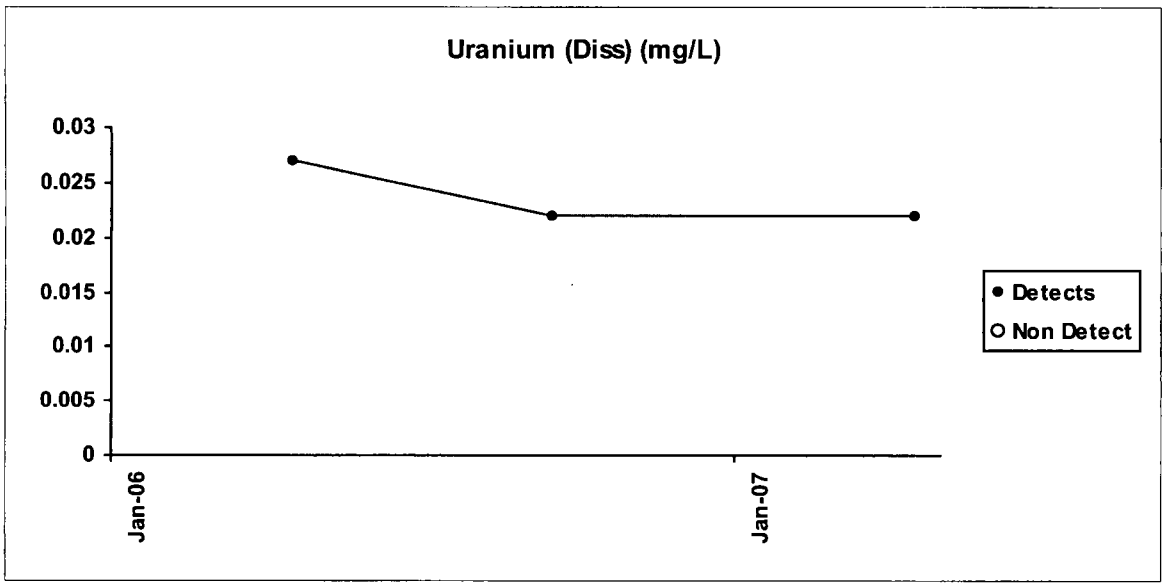

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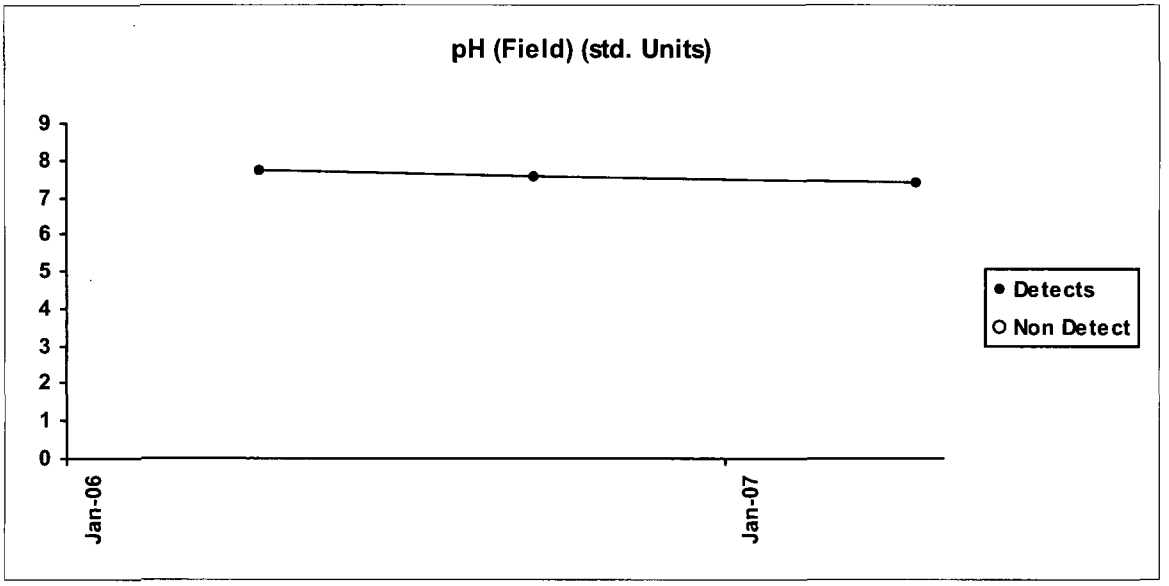

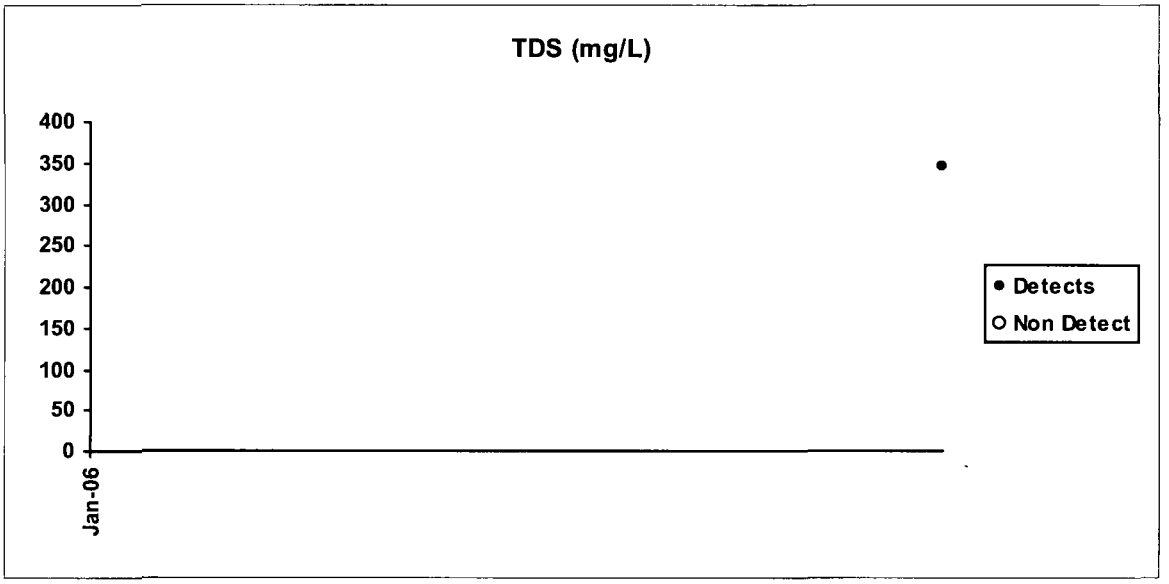

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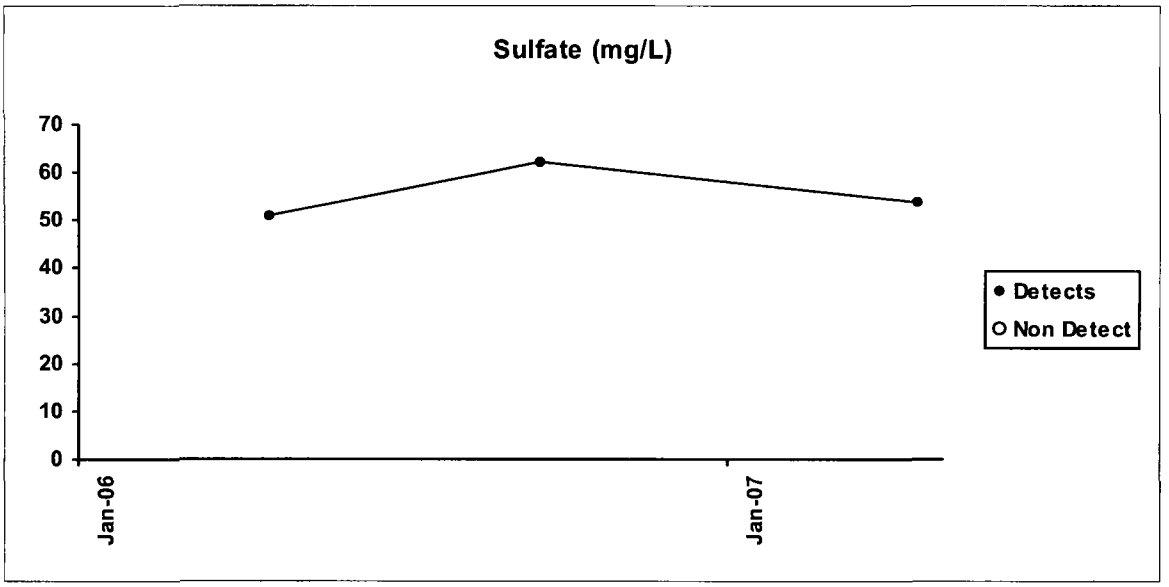

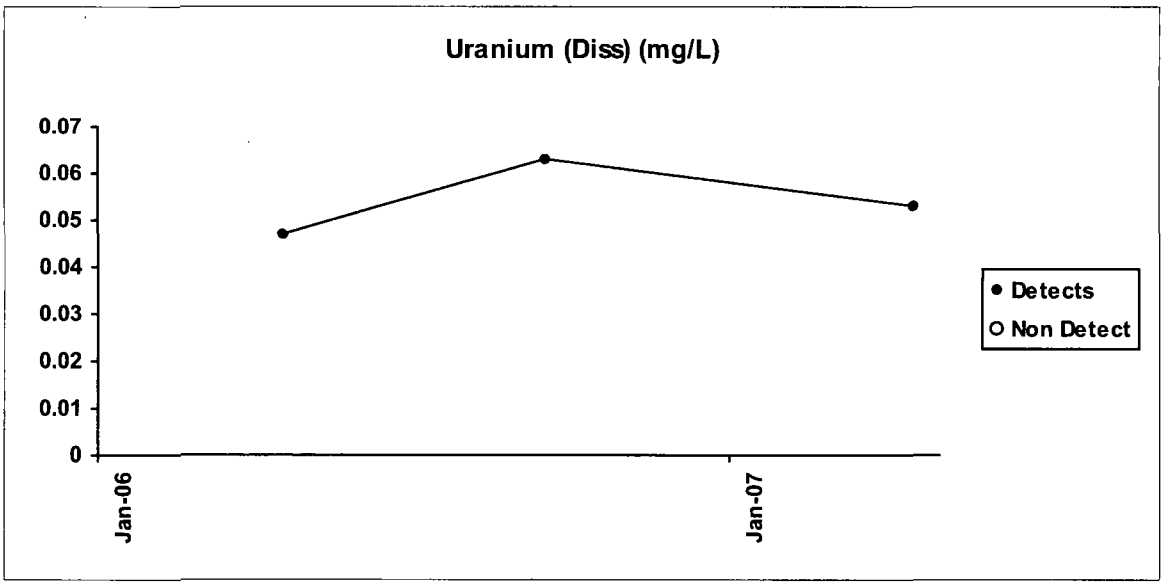

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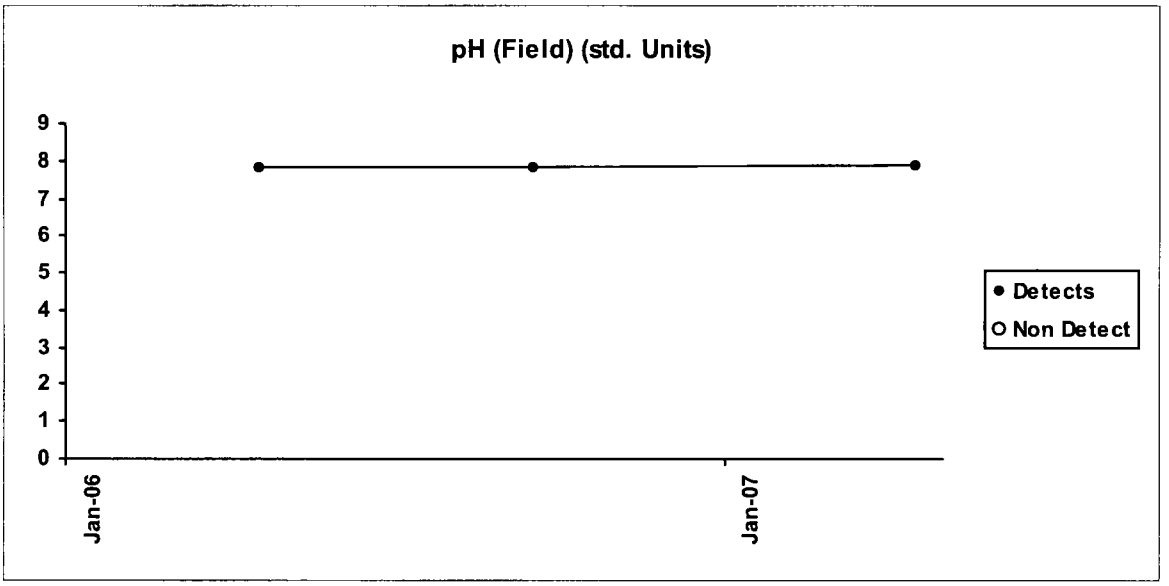

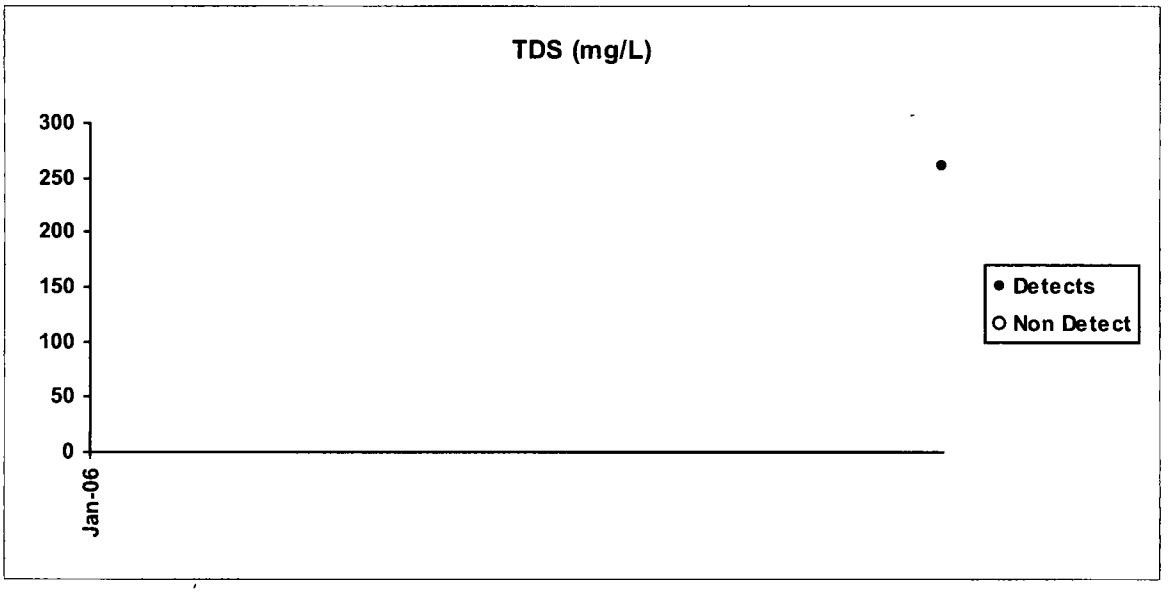

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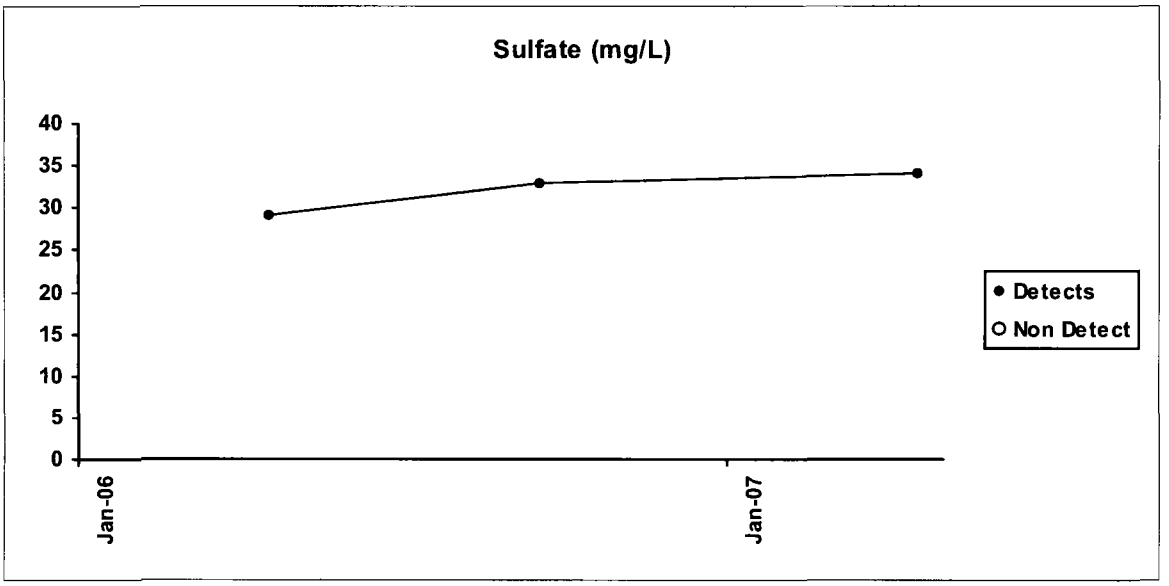

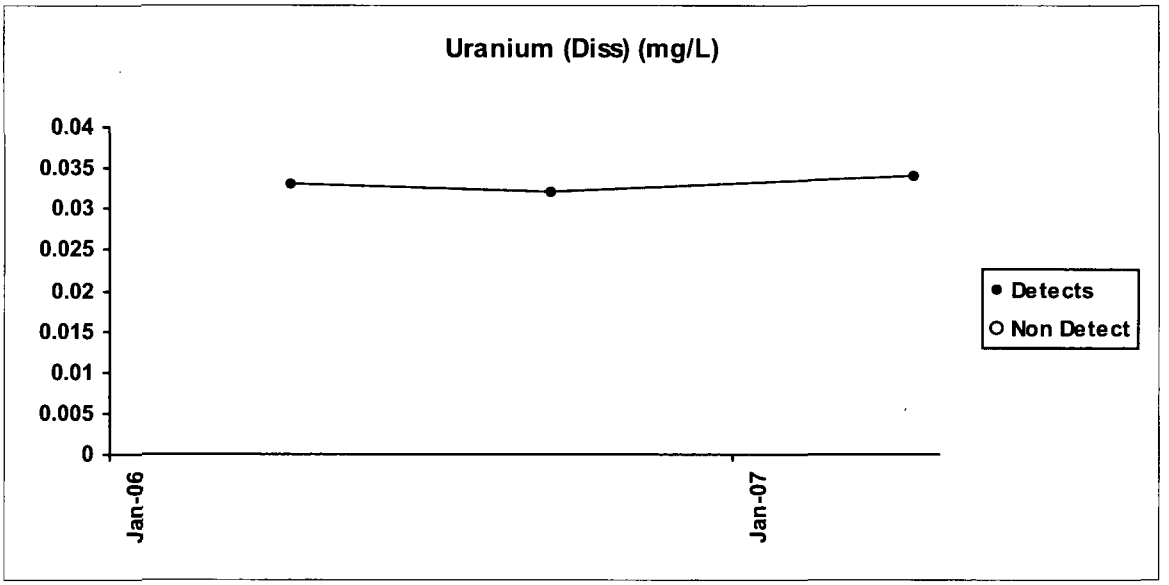

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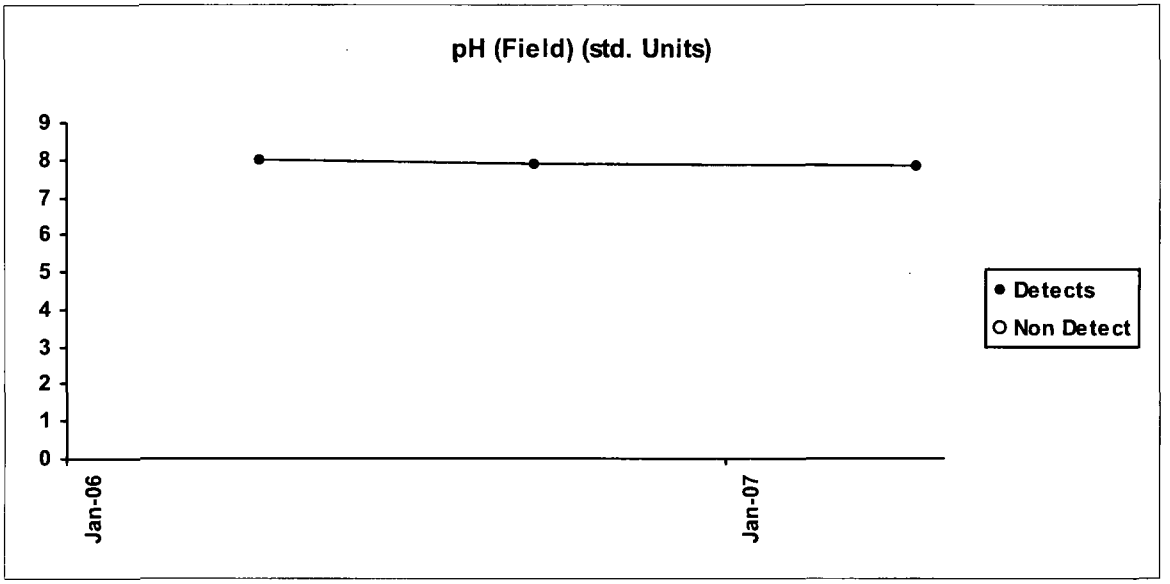

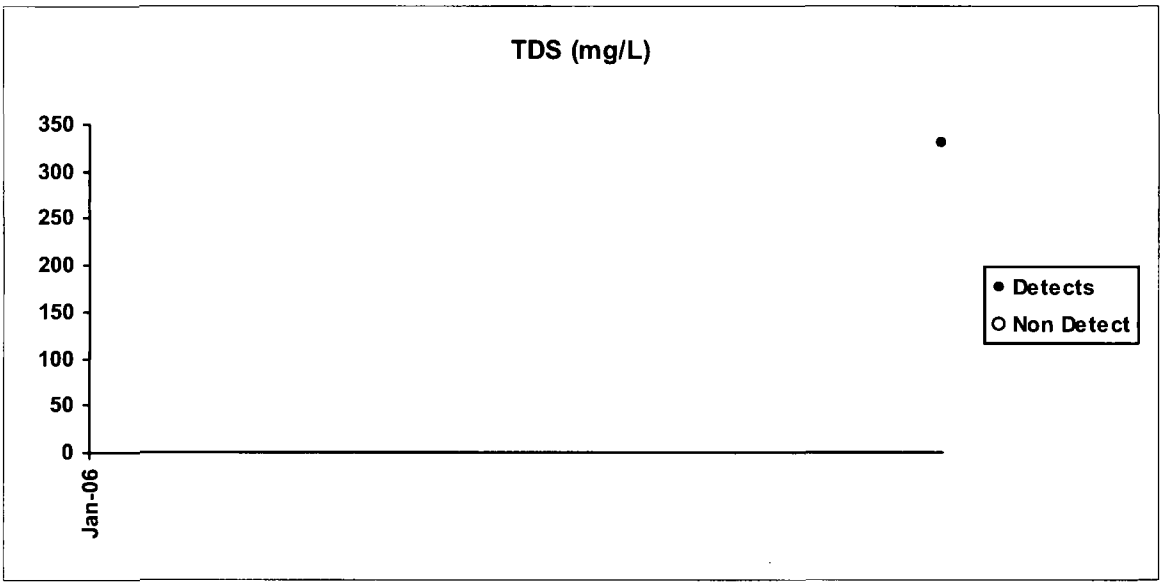

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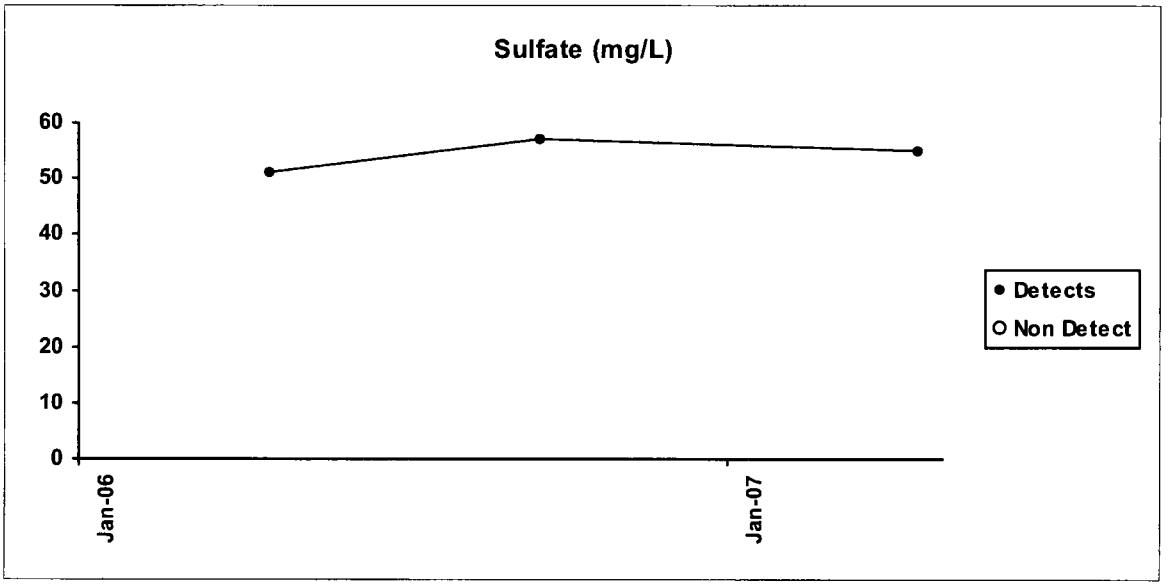
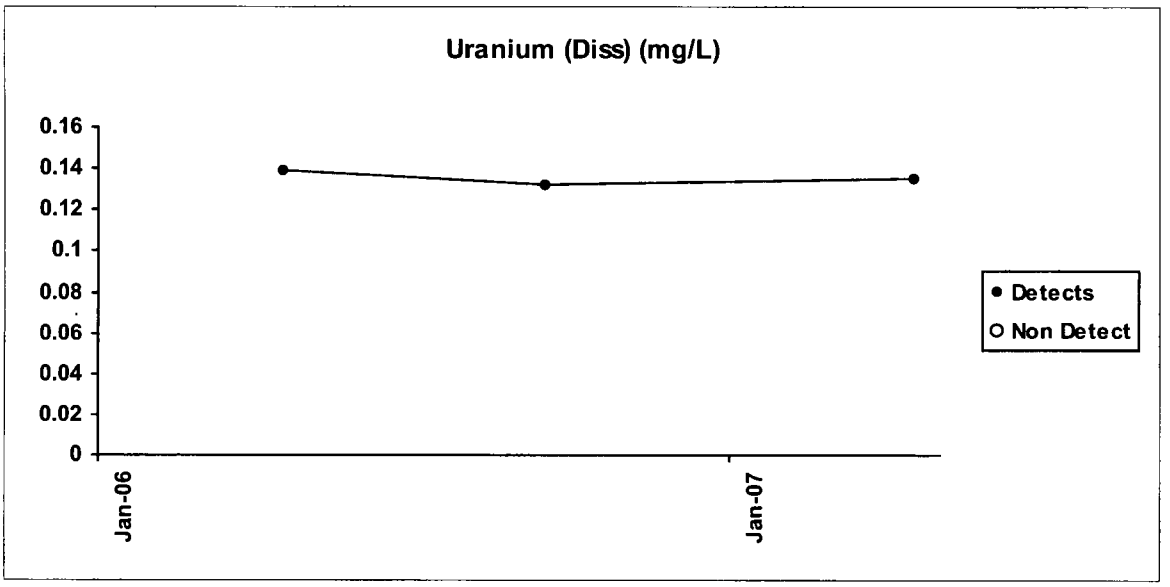
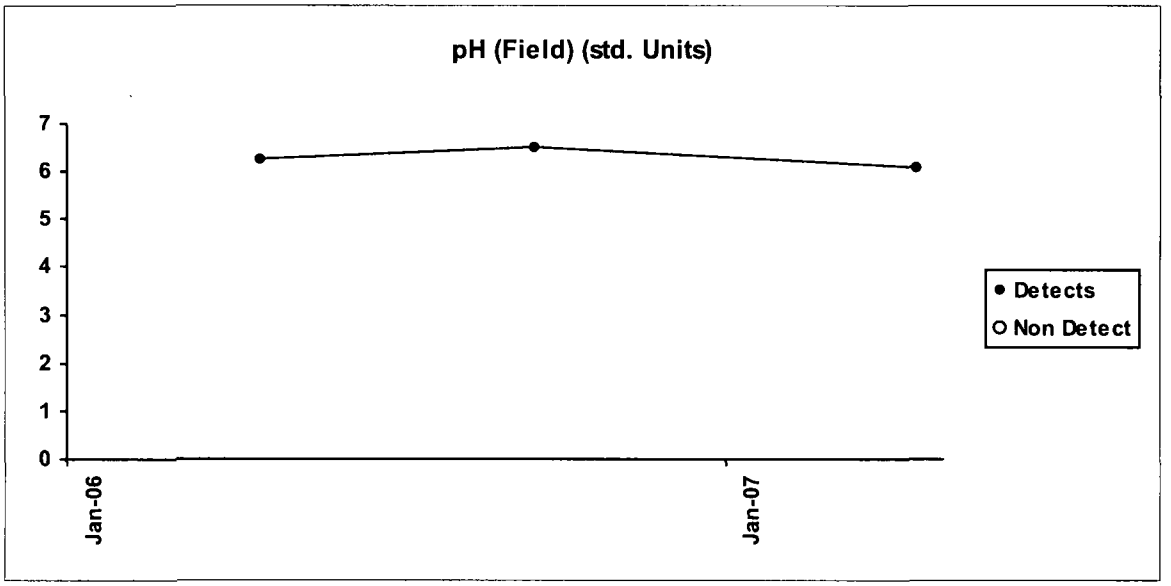
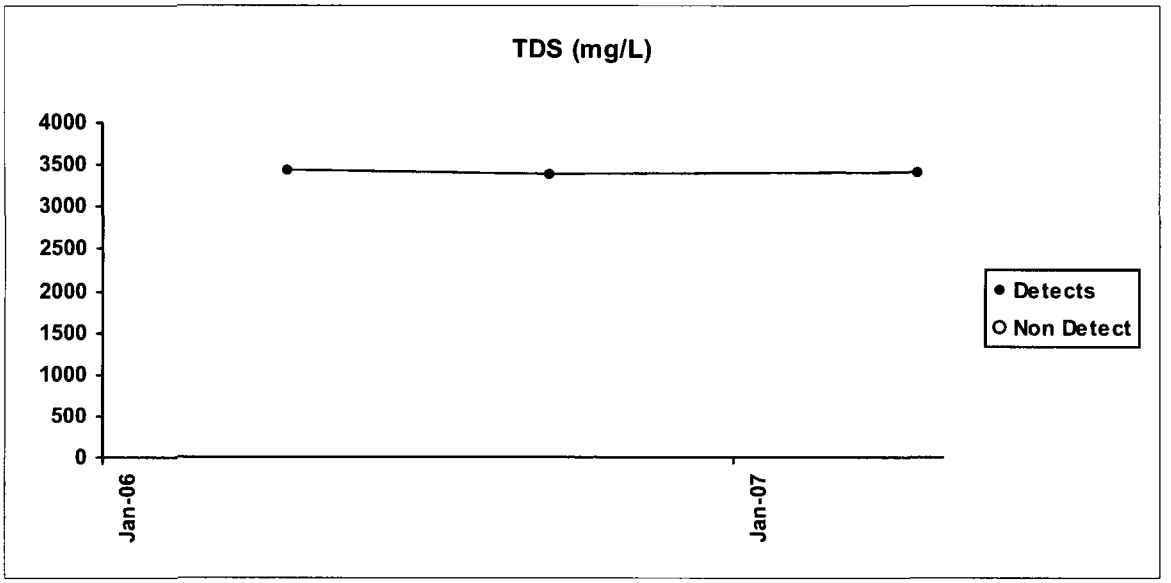


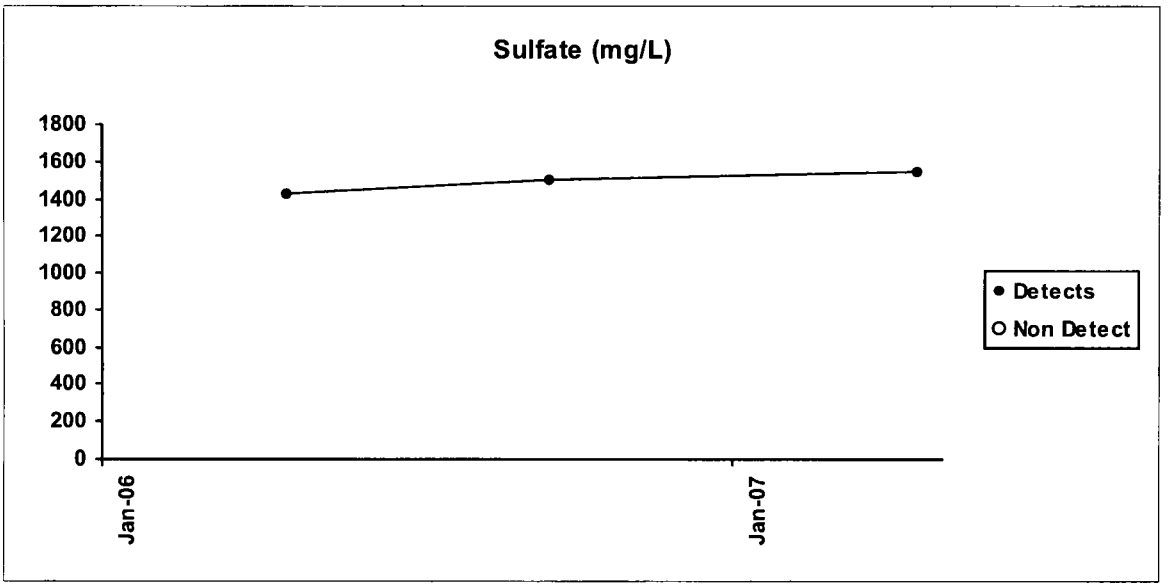


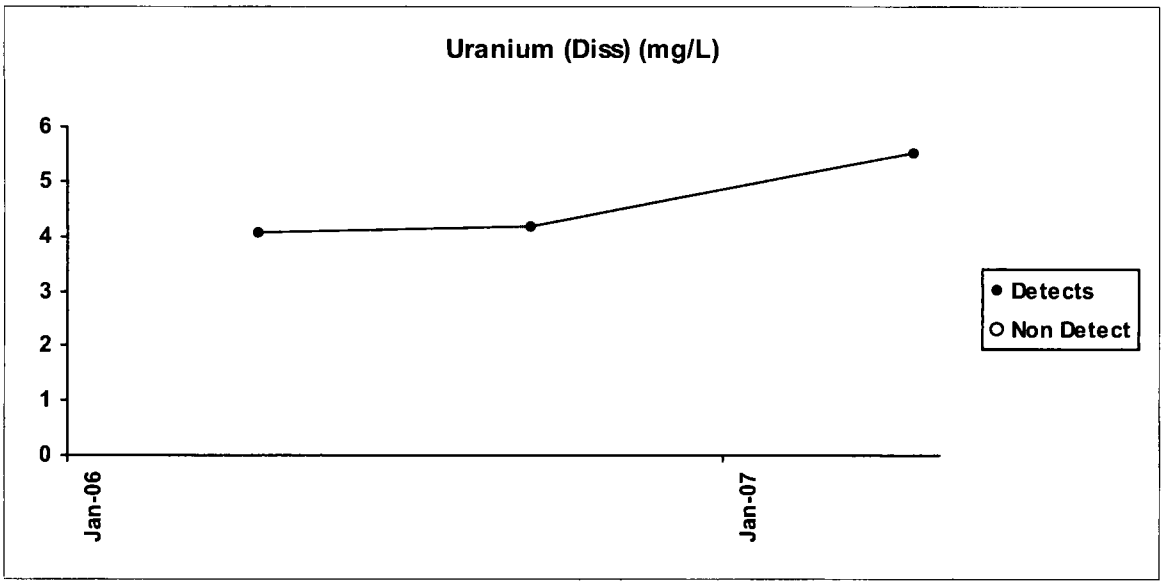
Jeffrey City WELL-1



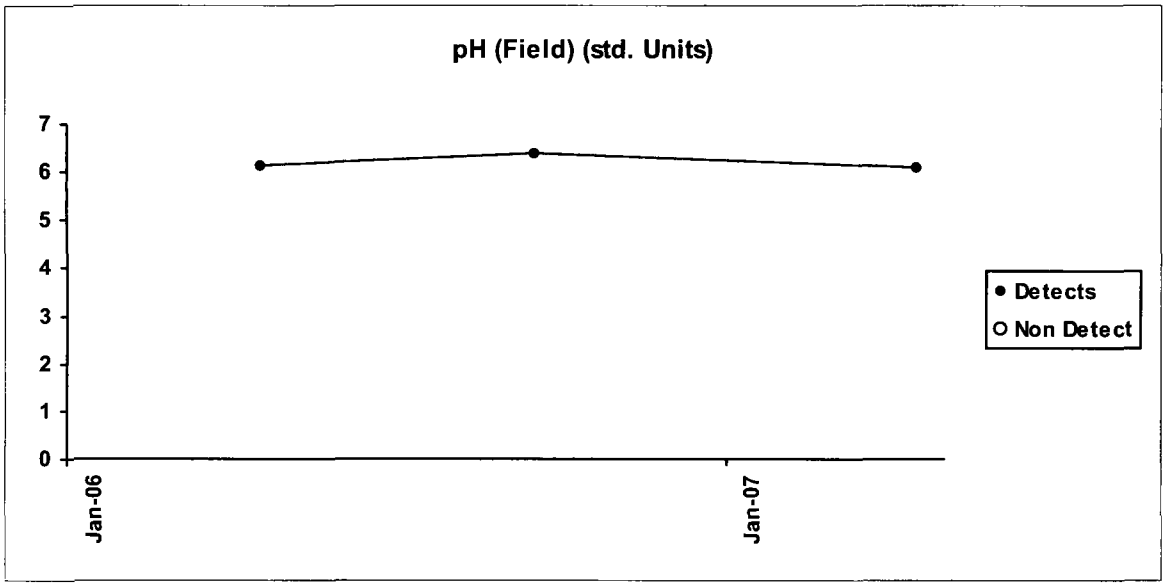


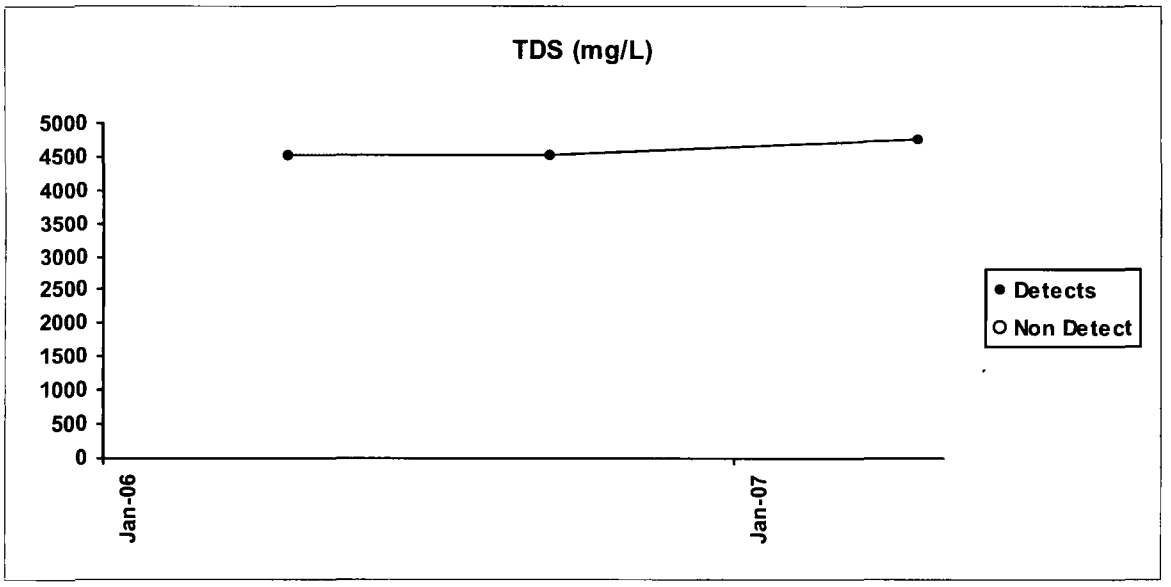
Jeffrey City WELL-1



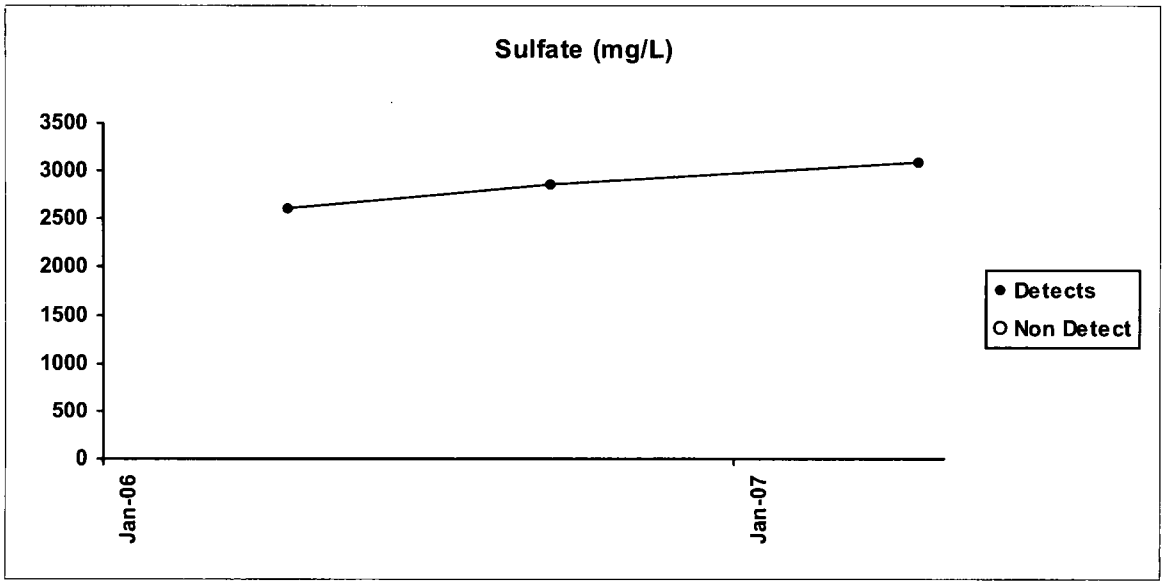


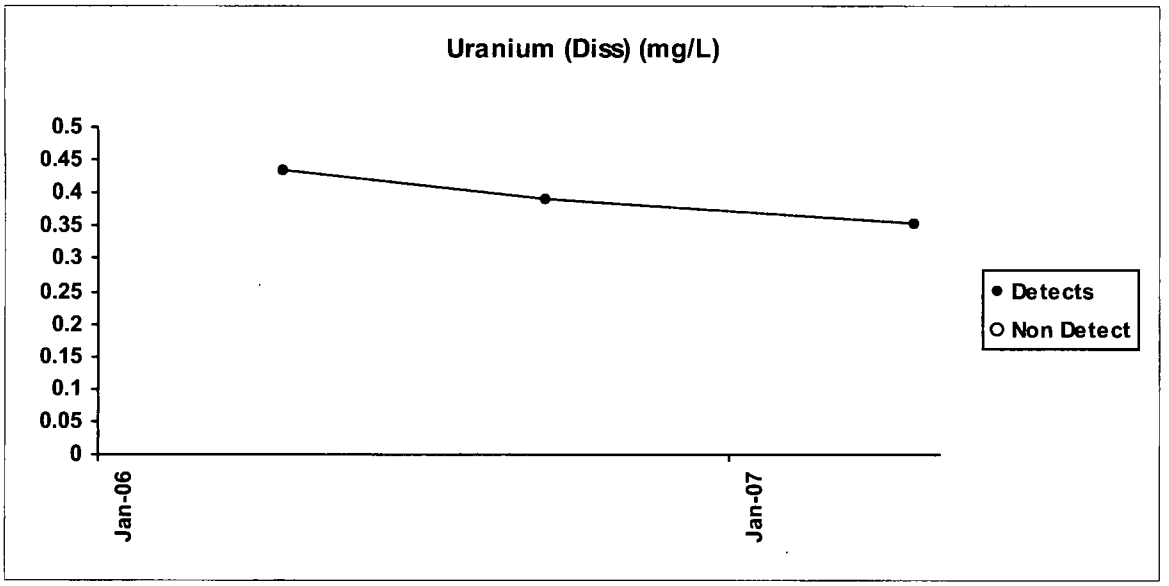
Jeffrey City WELL-4R



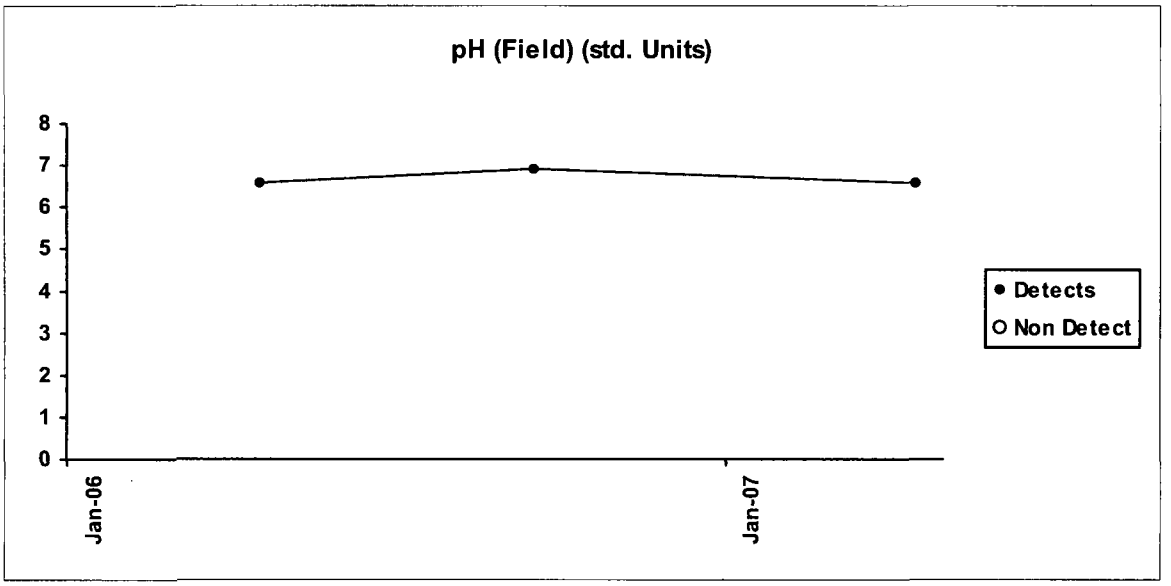


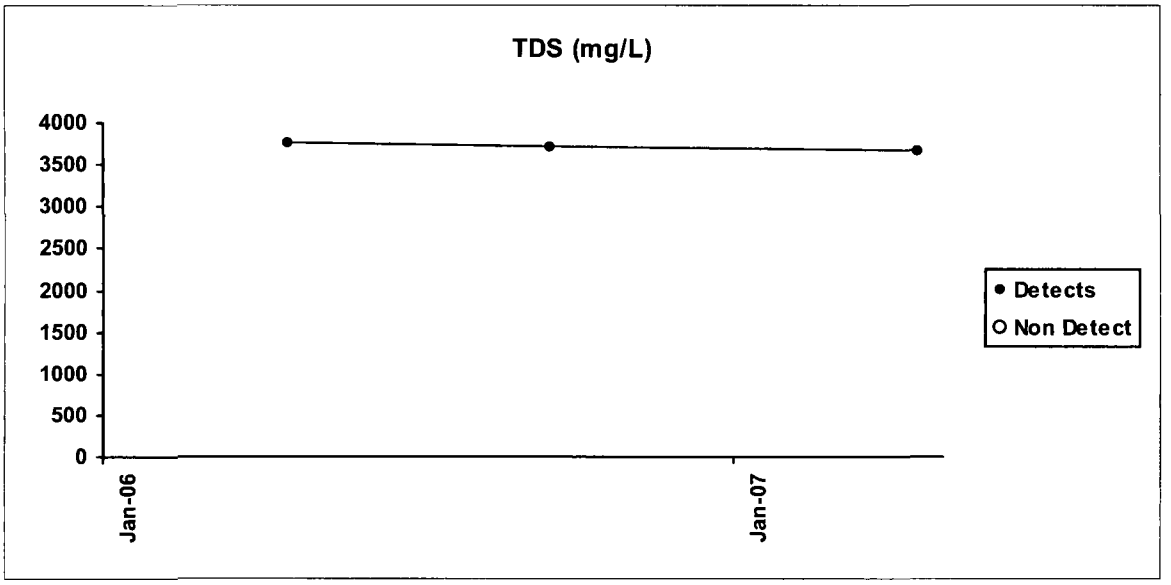
Jeffrey City WELL-4R



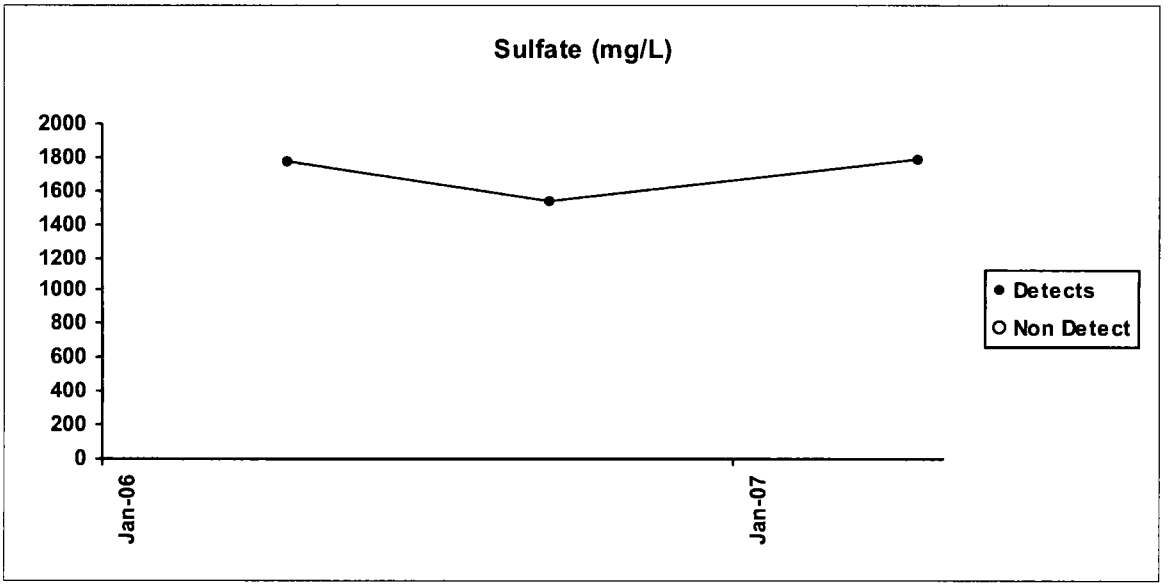


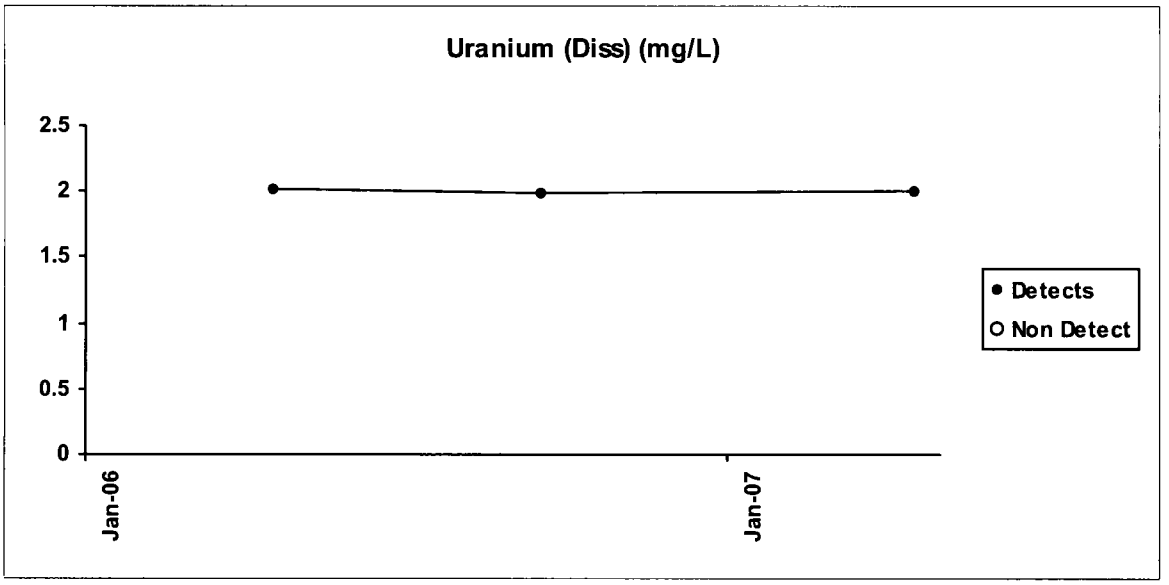
Jeffrey City WELL-5



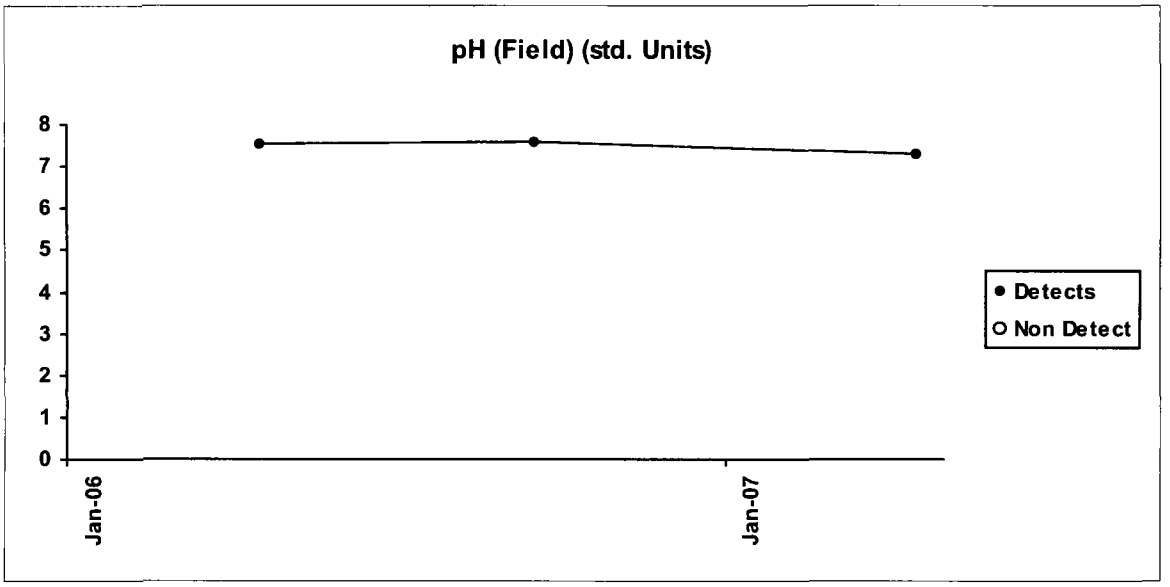


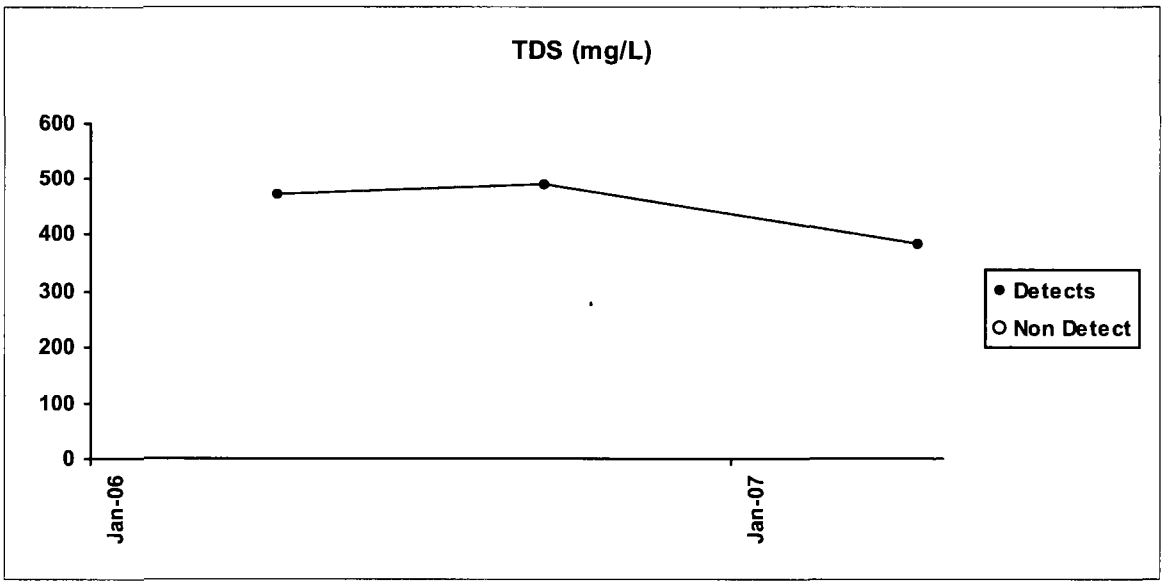
Jeffrey City WELL-5



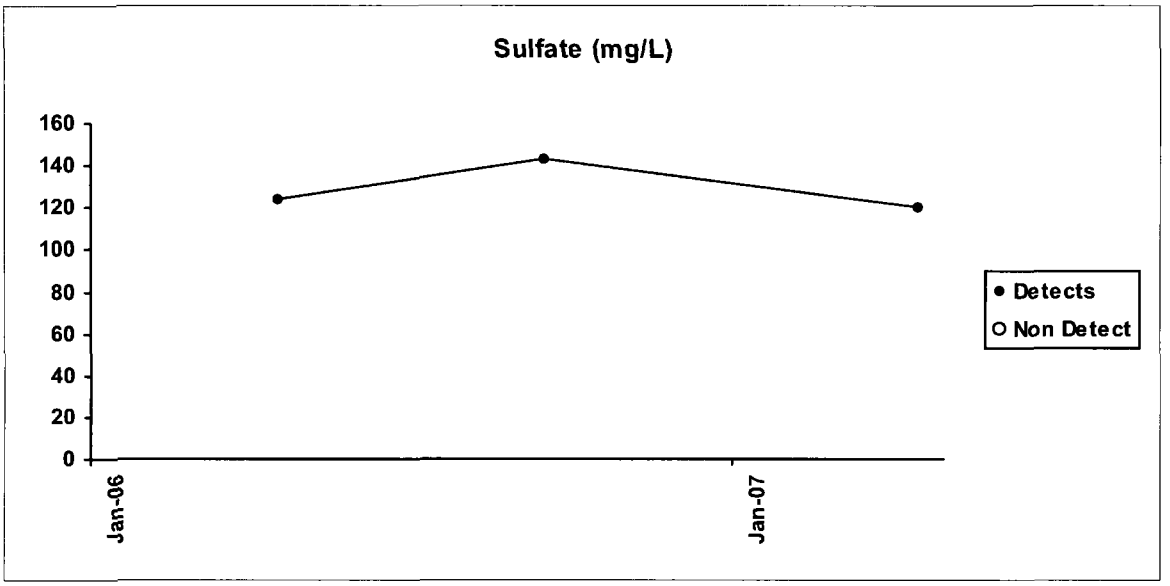


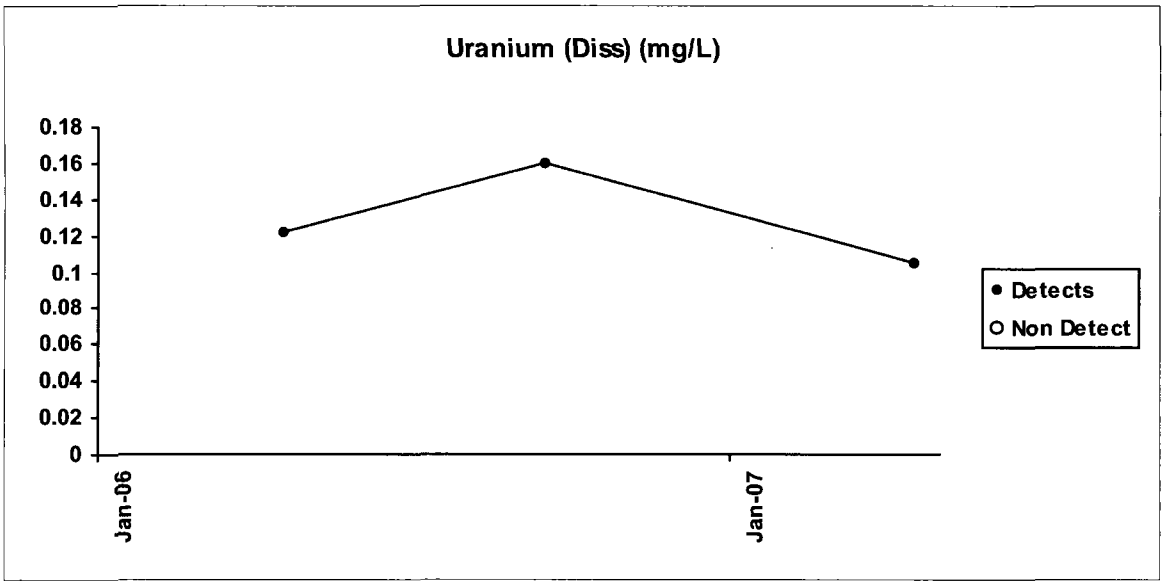
Jeffrey City WN-21



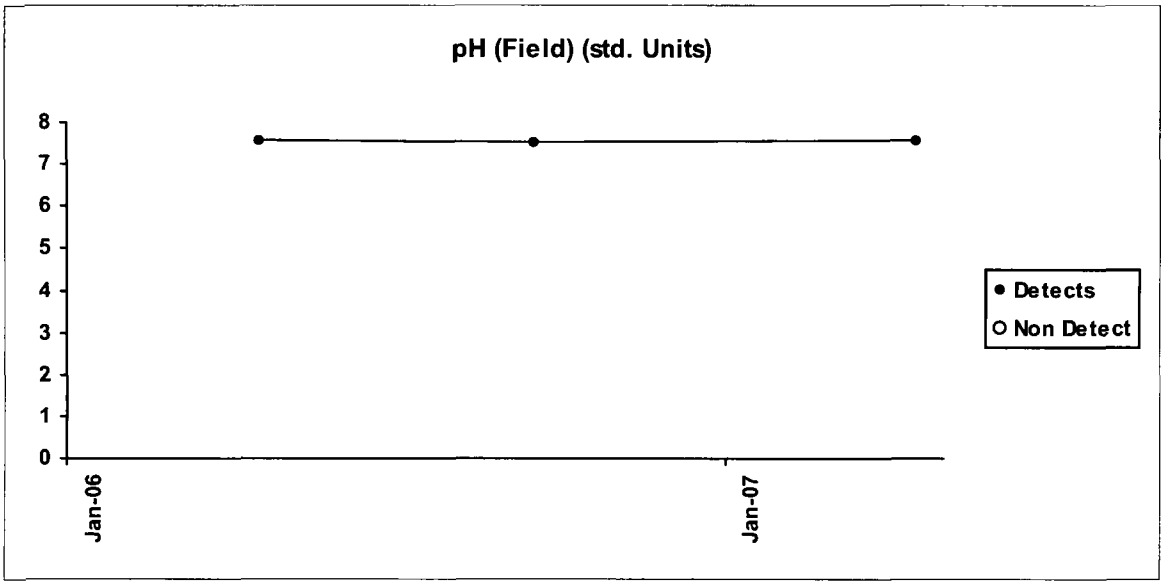


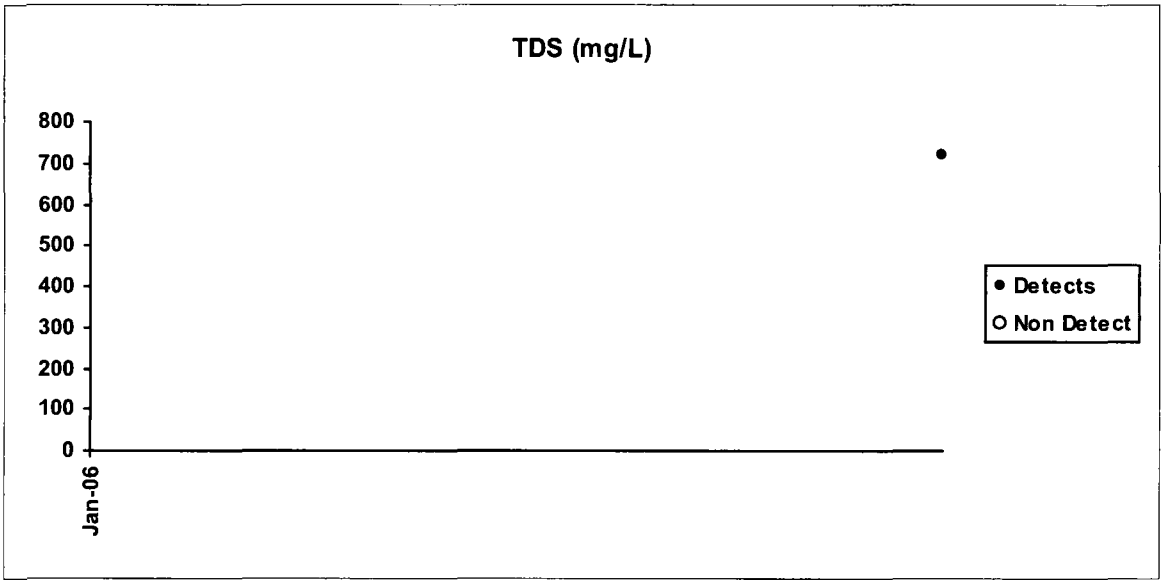
Jeffrey City WN-21



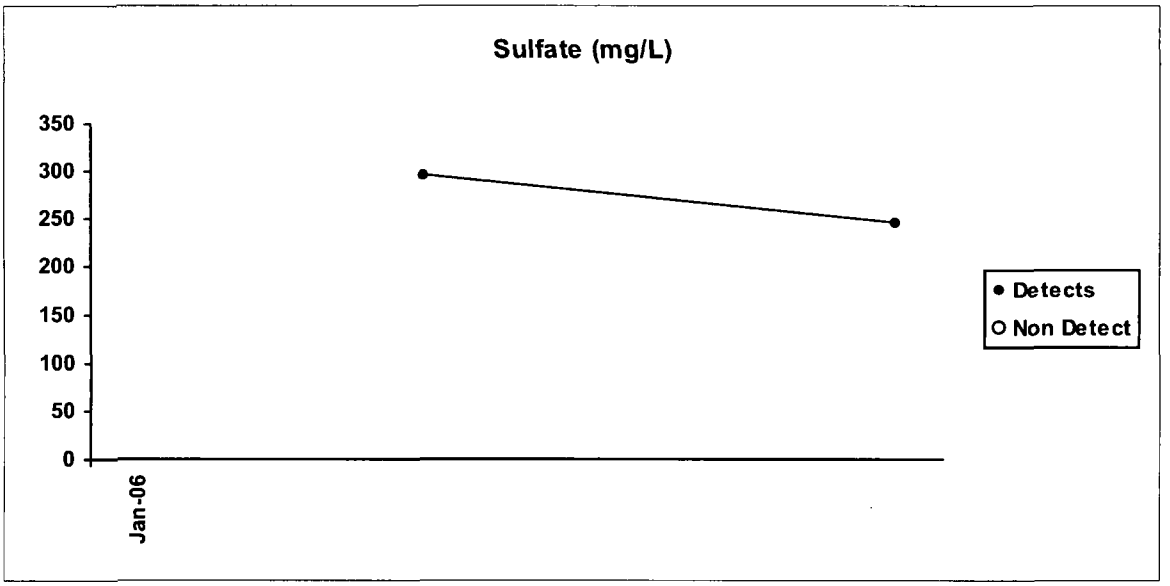


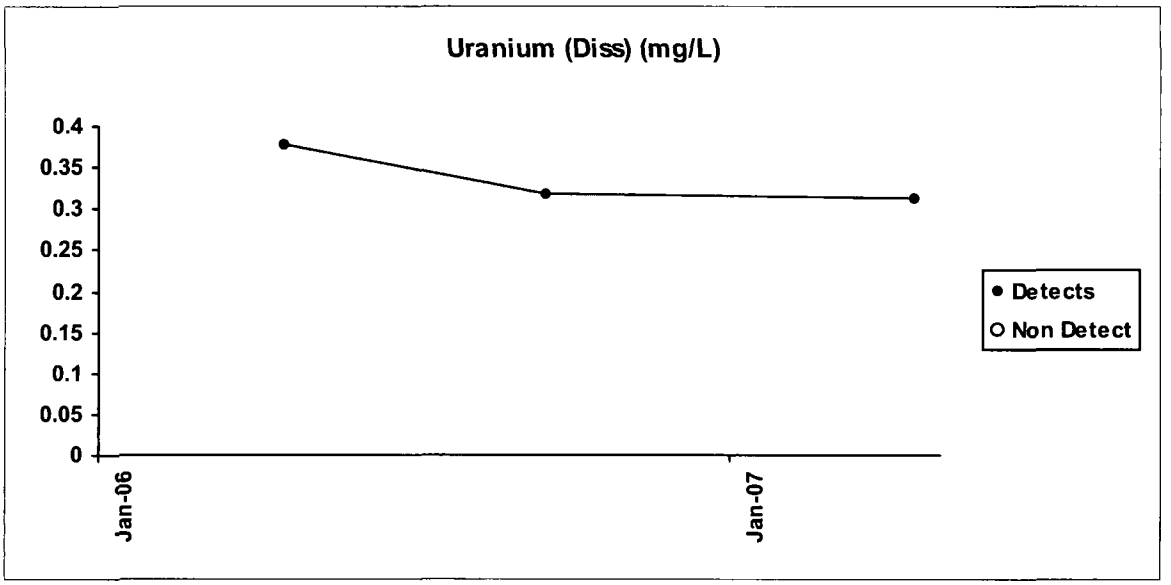
Jeffrey City WN-39B



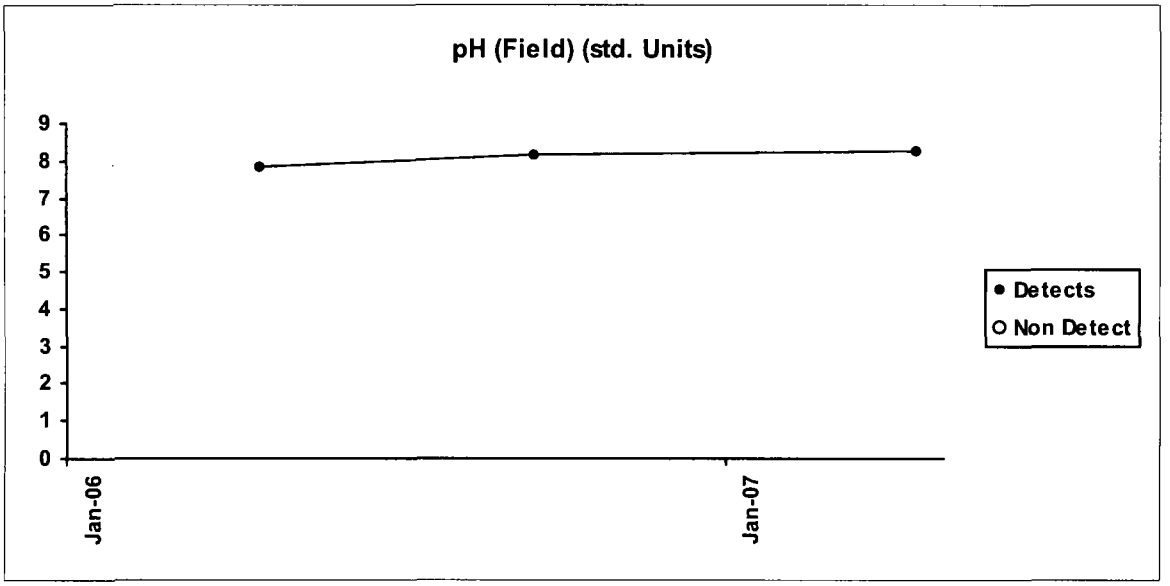


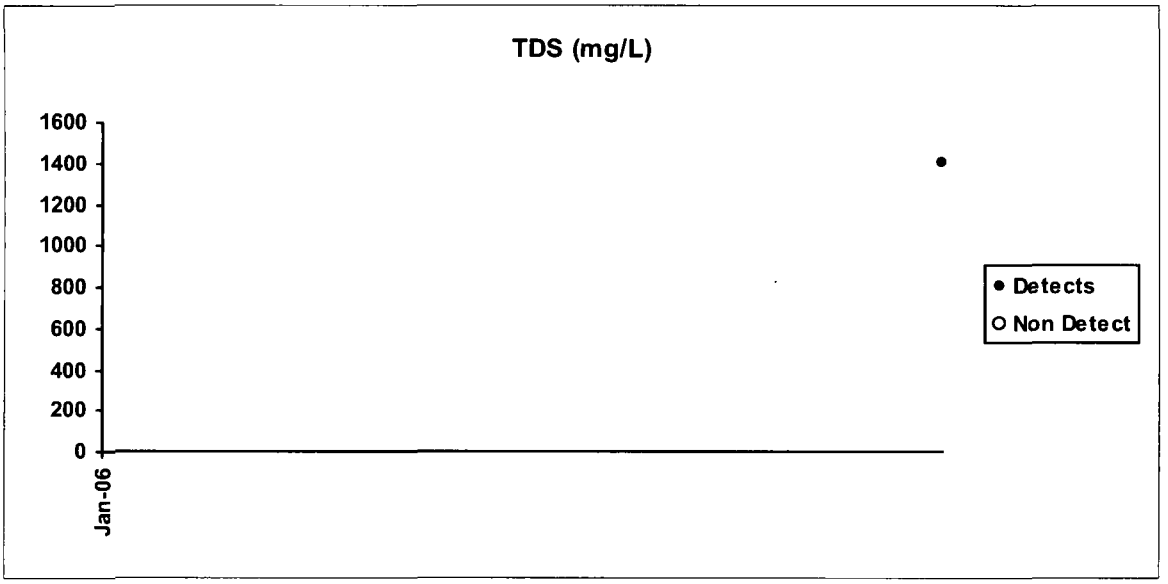
Jeffrey City WN-39B



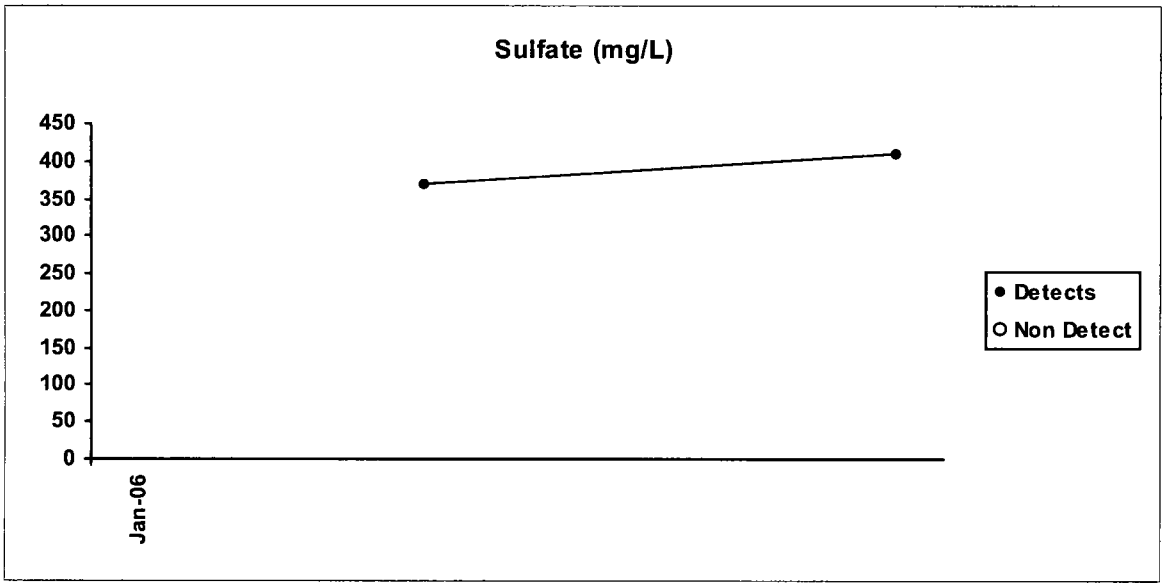


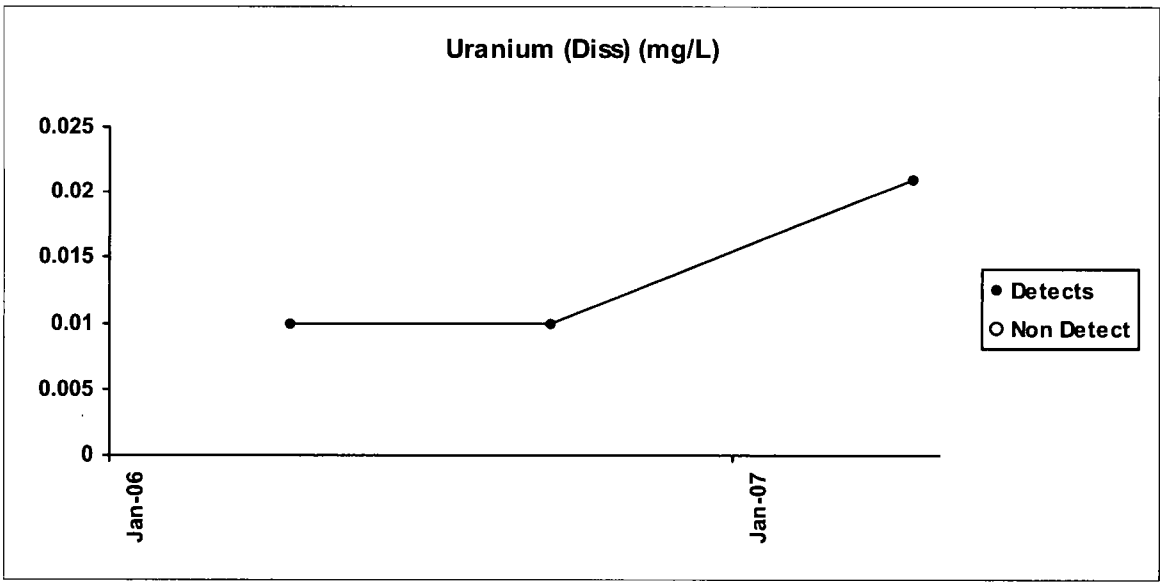
Jeffrey City WN-41B



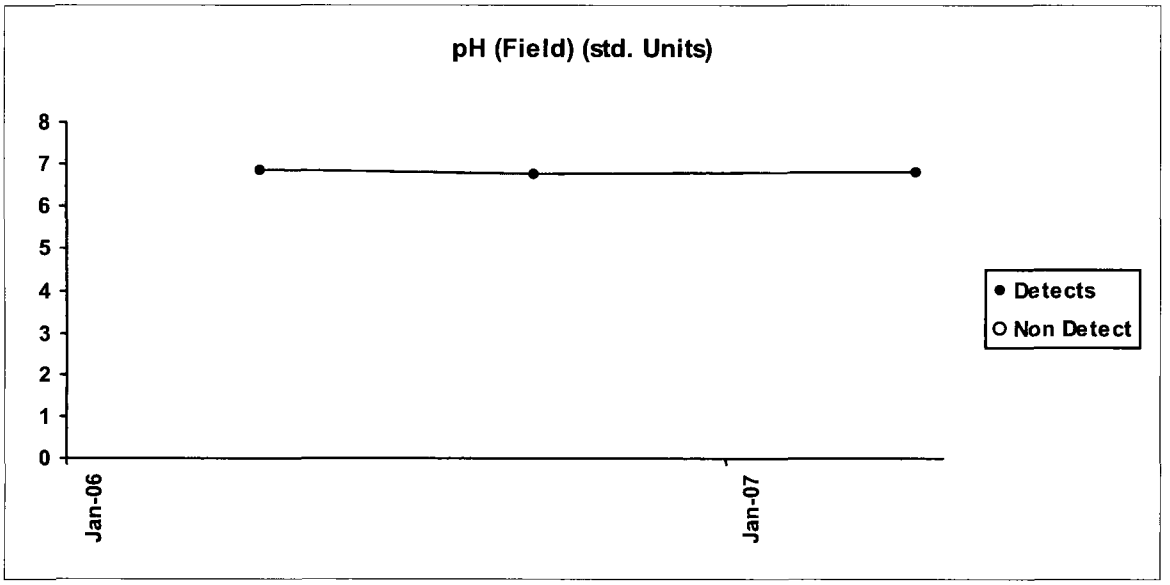


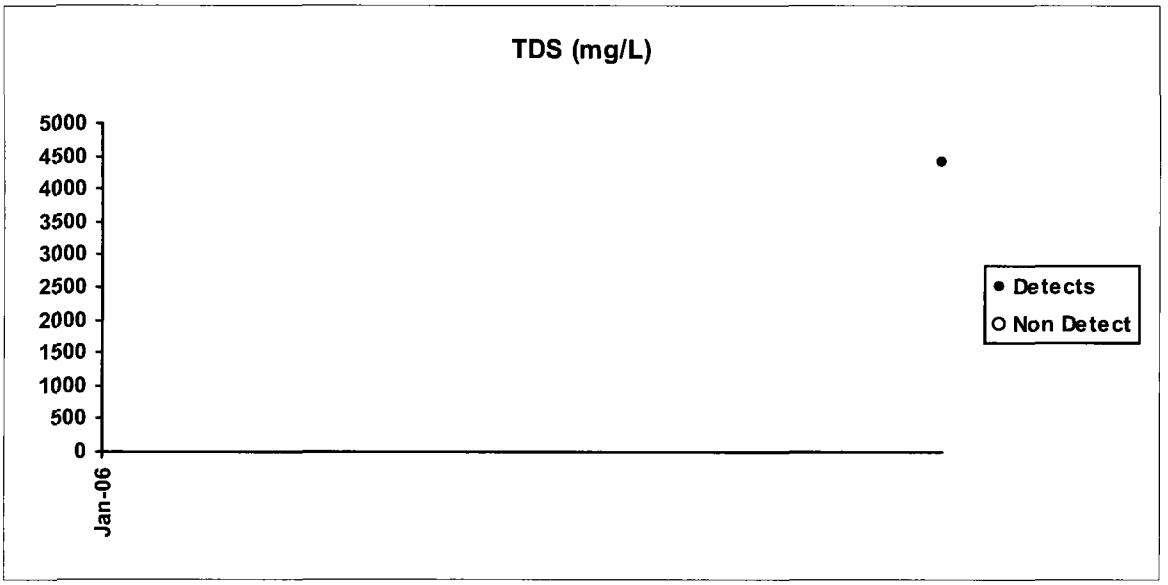
Jeffrey City WN-41B



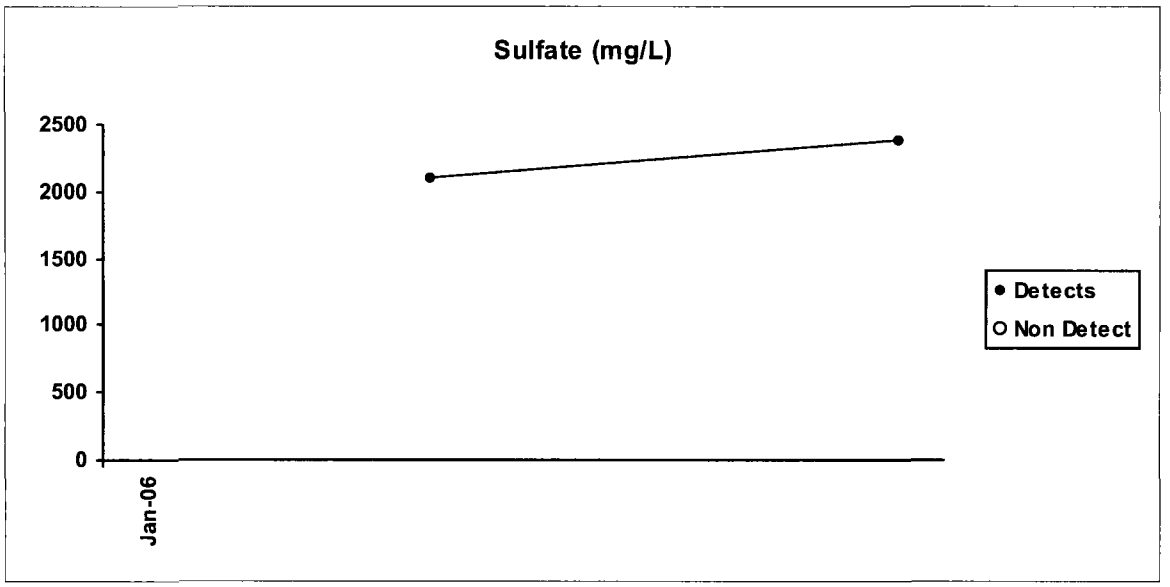


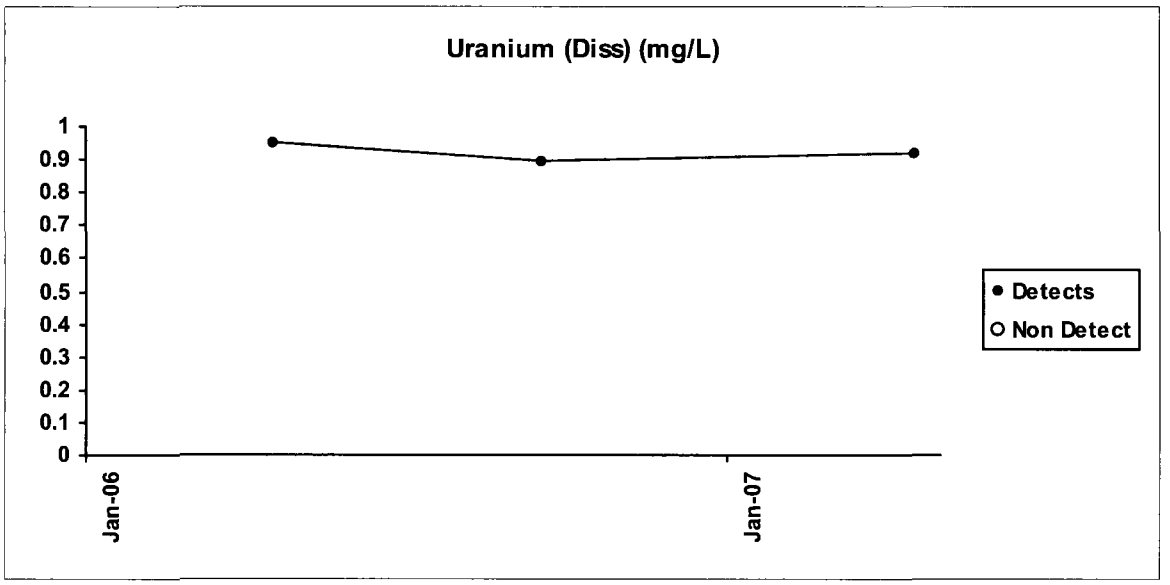
Jeffrey City WN-42A





Jeffrey City WN-42A





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LABORATORY ANALYTICAL REPORT

Client: Western Nuclear Inc
Project: Split Rock Mill Site
Lab ID: C07040980-008
Client Sample ID: JJ-1R

Report Date: 06/01/07
Collection Date: 04/18/07 09:20
DateReceived: 04/20/07
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	56	mg/L		5		E200.7	04/25/07 14:13 / ts
METALS - DISSOLVED							
Uranium	0.014	mg/L		0.001		E200.8	04/26/07 14:36 / aln
FIELD PARAMETERS							
pH	7.48	s.u.				FIELD	04/18/07 09:20 / ks

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
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: C07040980-014
Client Sample ID: SWAB-1

Report Date: 06/01/07
Collection Date: 04/19/07 11:00
DateReceived: 04/20/07
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	444	mg/L		5		E200.7	04/26/07 10:13 / ts
METALS - DISSOLVED							
Uranium	0.650	mg/L		0.001		E200.8	04/26/07 16:10 / aln
FIELD PARAMETERS							
pH	7.27	s.u.				FIELD	04/19/07 11:00 / ks

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level.
QCL - Quality control limit. 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: C07040980-015
Client Sample ID: SWAB-2

Report Date: 06/01/07
Collection Date: 04/19/07 10:35
DateReceived: 04/20/07
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	1270	mg/L		5		E200.7	04/26/07 10:16 / ts
METALS - DISSOLVED							
Uranium	1.62	mg/L		0.001		E200.8	04/26/07 16:17 / aln
FIELD PARAMETERS							
pH	6.50	s.u.				FIELD	04/19/07 10:35 / ks

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
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: C07040980-016
Client Sample ID: SWAB-4

Report Date: 06/01/07
Collection Date: 04/19/07 09:20
DateReceived: 04/20/07
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	569	mg/L		5		E200.7	04/26/07 10:20 / ts
METALS - DISSOLVED							
Uranium	0.995	mg/L		0.001		E200.8	04/26/07 16:23 / aln
FIELD PARAMETERS							
pH	7.19	s.u.				FIELD	04/19/07 09:20 / ks

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

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LABORATORY ANALYTICAL REPORT

Client:	Western Nuclear Inc	**Report Date:**	06/01/07
Project:	Split Rock Mill Site	**Collection Date:**	04/19/07 11:55
Lab ID:	C07040980-017	**DateReceived:**	04/20/07
Client Sample ID:	SWAB-22	**Matrix:**	Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	46	mg/L		5		E200.7	04/26/07 10:23 / ts
METALS - DISSOLVED							
Uranium	0.022	mg/L		0.001		E200.8	04/26/07 16:30 / aln
FIELD PARAMETERS							
pH	7.28	s.u.				FIELD	04/19/07 11:55 / ks

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

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LABORATORY ANALYTICAL REPORT

Client:	Western Nuclear Inc	**Report Date:**	06/01/07
Project:	Split Rock Mill Site	**Collection Date:**	04/19/07 13:45
Lab ID:	C07040980-018	**DateReceived:**	04/20/07
Client Sample ID:	SWAB-29	**Matrix:**	Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	54	mg/L		5		E200.7	04/26/07 10:26 / ts
METALS - DISSOLVED							
Uranium	0.053	mg/L		0.001		E200.8	04/26/07 16:37 / aln
FIELD PARAMETERS							
pH	7.42	s.u.				FIELD	04/19/07 13:45 / ks

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

Track#C07040980 R

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LABORATORY ANALYTICAL REPORT

Client: Western Nuclear Inc
Project: Split Rock Mill Site
Lab ID: C07040980-019
Client Sample ID: SWAB-31

Report Date: 06/01/07
Collection Date: 04/19/07 14:30
DateReceived: 04/20/07
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	34	mg/L		5		E200.7	04/26/07 10:37 / ts
METALS - DISSOLVED							
Uranium	0.034	mg/L		0.001		E200.8	04/26/07 17:11 / aln
FIELD PARAMETERS							
pH	7.90	s.u.				FIELD	04/19/07 14:30 / ks

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
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: C07040980-020
Client Sample ID: SWAB-32

Report Date: 06/01/07
Collection Date: 04/19/07 13:00
DateReceived: 04/20/07
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	55	mg/L		5		E200.7	04/26/07 10:40 / ts
METALS - DISSOLVED							
Uranium	0.135	mg/L		0.001		E200.8	04/26/07 17:17 / aln
FIELD PARAMETERS							
pH	7.85	s.u.				FIELD	04/19/07 13:00 / ks

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

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LABORATORY ANALYTICAL REPORT

Client:	Western Nuclear Inc	**Report Date:**	06/01/07
Project:	Split Rock Mill Site	**Collection Date:**	04/18/07 15:50
Lab ID:	C07040980-001	**DateReceived:**	04/20/07
Client Sample ID:	WN-1	**Matrix:**	Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	102	mg/L		5		E200.7	04/25/07 13:33 / ts
Fluoride	0.3	mg/L		0.1		A4500-F C	04/23/07 14:09 / jaj
Nitrogen, Ammonia as N	7.3	mg/L	D	0.1		A4500-NH3 G	04/25/07 09:40 / ljl
Nitrogen, Nitrate+Nitrite as N	27.0	mg/L	D	0.8		E353.2	04/23/07 12:39 / jal
Sulfate	1540	mg/L		5		E200.7	04/25/07 13:33 / ts
PHYSICAL PROPERTIES							
pH	6.68	s.u.		0.01		A4500-H B	04/23/07 09:39 / bas
Solids, Total Dissolved TDS @ 180 C	3420	mg/L		10		A2540 C	04/23/07 15:47 / bas
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/24/07 00:59 / sml
Antimony	ND	mg/L		0.05		E200.8	04/24/07 00:59 / sml
Arsenic	ND	mg/L		0.01		E200.8	04/24/07 00:59 / sml
Beryllium	ND	mg/L		0.004		E200.8	04/24/07 00:59 / sml
Cadmium	ND	mg/L		0.001		E200.8	04/24/07 00:59 / sml
Lead	ND	mg/L		0.005		E200.8	04/24/07 00:59 / sml
Manganese	1.97	mg/L		0.01		E200.8	04/24/07 00:59 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/24/07 00:59 / sml
Nickel	ND	mg/L		0.05		E200.8	04/24/07 00:59 / sml
Selenium	ND	mg/L		0.005		E200.8	04/24/07 00:59 / sml
Thallium	ND	mg/L		0.1		E200.8	04/24/07 00:59 / sml
Uranium	5.50	mg/L		0.001		E200.8	04/24/07 00:59 / sml
RADIONUCLIDES - DISSOLVED							
Radium 226	1.1	pCi/L		1.0		E903.0	05/07/07 13:25 / trs
Radium 226 precision (±)	0.4	pCi/L				E903.0	05/07/07 13:25 / trs
Radium 228	ND	pCi/L		2.0		RA-05	05/02/07 13:40 / plj
Thorium 230	ND	pCi/L		0.4		E907.0	04/26/07 15:00 / dmf
FIELD PARAMETERS							
pH	6.08	s.u.				FIELD	04/18/07 15:50 / 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: C07040980-022
Client Sample ID: WN-1R

Report Date: 06/01/07
Collection Date: 04/18/07 15:50
DateReceived: 04/20/07
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	92	mg/L		5		E200.7	05/01/07 15:09 / ts
Fluoride	0.4	mg/L		0.1		A4500-F C	04/23/07 14:17 / jaj
Nitrogen, Ammonia as N	7.2	mg/L	D	0.2		A4500-NH3 G	04/25/07 09:48 / ljl
Nitrogen, Nitrate+Nitrite as N	27.7	mg/L	D	0.3		E353.2	04/23/07 13:16 / jal
Sulfate	1490	mg/L		5		E200.7	05/01/07 15:09 / ts
PHYSICAL PROPERTIES							
pH	6.66	s.u.		0.01		A4500-H B	04/23/07 09:44 / bas
Solids, Total Dissolved TDS @ 180 C	3390	mg/L		10		A2540 C	04/23/07 15:49 / bas
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/26/07 20:59 / aln
Antimony	ND	mg/L		0.05		E200.8	04/24/07 05:07 / sml
Arsenic	ND	mg/L		0.01		E200.8	04/24/07 05:07 / sml
Beryllium	ND	mg/L		0.004		E200.8	04/26/07 20:59 / aln
Cadmium	ND	mg/L		0.001		E200.8	04/24/07 05:07 / sml
Lead	ND	mg/L		0.005		E200.8	04/24/07 05:07 / sml
Manganese	2.25	mg/L		0.01		E200.8	04/26/07 20:59 / aln
Molybdenum	ND	mg/L		0.1		E200.8	04/24/07 05:07 / sml
Nickel	ND	mg/L		0.05		E200.8	04/24/07 05:07 / sml
Selenium	0.006	mg/L		0.005		E200.8	04/26/07 20:59 / aln
Thallium	ND	mg/L		0.1		E200.8	04/24/07 05:07 / sml
Uranium	5.36	mg/L		0.001		E200.8	04/24/07 05:07 / sml
RADIONUCLIDES - DISSOLVED							
Radium 226	1.2	pCi/L		1.0		E903.0	05/07/07 13:25 / trs
Radium 226 precision (±)	0.4	pCi/L				E903.0	05/07/07 13:25 / trs
Radium 228	ND	pCi/L		2.0		RA-05	05/02/07 13:40 / plj
Thorium 230	ND	pCi/L		0.4		E907.0	04/26/07 15:00 / dmf
FIELD PARAMETERS							
pH	6.08	s.u.				FIELD	04/18/07 15:50 / 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	**Report Date:**	06/01/07
Project:	Split Rock Mill Site	**Collection Date:**	04/18/07 11:48
Lab ID:	C07040980-002	**DateReceived:**	04/20/07
Client Sample ID:	WN-4R	**Matrix:**	Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	110	mg/L		5		E200.7	04/25/07 13:37 / ts
Fluoride	6.8	mg/L		0.1		A4500-F C	04/23/07 14:10 / jaj
Nitrogen, Ammonia as N	261	mg/L	D	2		A4500-NH3 G	04/25/07 09:42 / ljl
Nitrogen, Nitrate+Nitrite as N	108	mg/L	D	3		E353.2	04/23/07 12:41 / jal
Sulfate	3080	mg/L		5		E200.7	04/25/07 13:37 / ts
PHYSICAL PROPERTIES							
pH	6.28	s.u.		0.01		A4500-H B	04/23/07 09:40 / bas
Solids, Total Dissolved TDS @ 180 C	4760	mg/L		10		A2540 C	04/23/07 15:48 / bas
METALS - DISSOLVED							
Aluminum	1.4	mg/L		0.1		E200.8	04/24/07 01:07 / sml
Antimony	ND	mg/L		0.05		E200.8	04/24/07 01:07 / sml
Arsenic	ND	mg/L		0.01		E200.8	04/24/07 01:07 / sml
Beryllium	ND	mg/L		0.004		E200.8	04/24/07 01:07 / sml
Cadmium	0.021	mg/L		0.001		E200.8	04/24/07 01:07 / sml
Lead	ND	mg/L		0.005		E200.8	04/24/07 01:07 / sml
Manganese	85.8	mg/L		0.01		E200.7	04/25/07 13:37 / ts
Molybdenum	ND	mg/L		0.1		E200.8	04/24/07 01:07 / sml
Nickel	0.5	mg/L		0.1		E200.8	04/24/07 01:07 / sml
Selenium	0.027	mg/L		0.005		E200.8	04/24/07 01:07 / sml
Thallium	ND	mg/L		0.1		E200.8	04/24/07 01:07 / sml
Uranium	0.354	mg/L		0.001		E200.8	04/24/07 01:07 / sml
RADIONUCLIDES - DISSOLVED							
Radium 226	ND	pCi/L		1.0		E903.0	05/07/07 13:25 / trs
Radium 228	ND	pCi/L		2.0		RA-05	05/02/07 13:40 / plj
Thorium 230	ND	pCi/L		0.4		E907.0	04/26/07 15:00 / dmf
FIELD PARAMETERS							
pH	6.10	s.u.				FIELD	04/18/07 11:48 / 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: C07040980-003
Client Sample ID: WN-5

Report Date: 06/01/07
Collection Date: 04/18/07 14:48
DateReceived: 04/20/07
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	120	mg/L		5		E200.7	04/25/07 13:40 / ts
Fluoride	0.1	mg/L		0.1		A4500-F C	04/23/07 14:12 / jaj
Nitrogen, Ammonia as N	0.15	mg/L		0.05		A4500-NH3 G	04/25/07 09:44 / ljl
Nitrogen, Nitrate+Nitrite as N	46.5	mg/L	D	0.8		E353.2	04/23/07 13:11 / jal
Sulfate	1790	mg/L		5		E200.7	04/25/07 13:40 / ts
PHYSICAL PROPERTIES							
pH	6.89	s.u.		0.01		A4500-H B	04/23/07 09:42 / bas
Solids, Total Dissolved TDS @ 180 C	3680	mg/L		10		A2540 C	04/23/07 15:49 / bas
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/24/07 01:15 / sml
Antimony	ND	mg/L		0.05		E200.8	04/24/07 01:15 / sml
Arsenic	ND	mg/L		0.01		E200.8	04/24/07 01:15 / sml
Beryllium	ND	mg/L		0.004		E200.8	04/24/07 01:15 / sml
Cadmium	ND	mg/L		0.001		E200.8	04/24/07 01:15 / sml
Lead	ND	mg/L		0.005		E200.8	04/24/07 01:15 / sml
Manganese	0.40	mg/L		0.01		E200.8	04/24/07 01:15 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/24/07 01:15 / sml
Nickel	ND	mg/L		0.05		E200.8	04/24/07 01:15 / sml
Selenium	0.017	mg/L		0.005		E200.8	04/24/07 01:15 / sml
Thallium	ND	mg/L		0.1		E200.8	04/24/07 01:15 / sml
Uranium	2.01	mg/L		0.001		E200.8	04/24/07 01:15 / sml
RADIONUCLIDES - DISSOLVED							
Radium 226	ND	pCi/L		1.0		E903.0	05/07/07 13:25 / trs
Radium 228	ND	pCi/L		2.0		RA-05	05/02/07 13:40 / plj
Thorium 230	ND	pCi/L		0.4		E907.0	04/26/07 15:00 / dmf
FIELD PARAMETERS							
pH	6.08	s.u.				FIELD	04/18/07 14:48 / 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: C07040980-023
Client Sample ID: WN-5R

Report Date: 06/01/07
Collection Date: 04/18/07 14:48
DateReceived: 04/20/07
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	118	mg/L		5		E200.7	05/01/07 15:12 / ts
Fluoride	0.1	mg/L		0.1		A4500-F C	04/23/07 14:18 / jaj
Nitrogen, Ammonia as N	0.12	mg/L		0.05		A4500-NH3 G	04/25/07 09:56 / ljl
Nitrogen, Nitrate+Nitrite as N	49	mg/L	D	2		E353.2	04/23/07 13:19 / jal
Sulfate	1710	mg/L		5		E200.7	05/01/07 15:12 / ts
PHYSICAL PROPERTIES							
pH	6.91	s.u.		0.01		A4500-H B	04/23/07 09:46 / bas
Solids, Total Dissolved TDS @ 180 C	3700	mg/L		10		A2540 C	04/23/07 15:49 / bas
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/24/07 05:15 / sml
Antimony	ND	mg/L		0.05		E200.8	04/24/07 05:15 / sml
Arsenic	ND	mg/L		0.01		E200.8	04/24/07 05:15 / sml
Beryllium	ND	mg/L		0.004		E200.8	04/24/07 05:15 / sml
Cadmium	ND	mg/L		0.001		E200.8	04/24/07 05:15 / sml
Lead	ND	mg/L		0.005		E200.8	04/24/07 05:15 / sml
Manganese	0.41	mg/L		0.01		E200.8	04/24/07 05:15 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/24/07 05:15 / sml
Nickel	ND	mg/L		0.05		E200.8	04/24/07 05:15 / sml
Selenium	0.019	mg/L		0.005		E200.8	04/26/07 21:33 / aln
Thallium	ND	mg/L		0.1		E200.8	04/24/07 05:15 / sml
Uranium	1.99	mg/L		0.001		E200.8	04/24/07 05:15 / sml
RADIONUCLIDES - DISSOLVED							
Radium 226	ND	pCi/L		1.0		E903.0	05/07/07 13:25 / trs
Radium 228	ND	pCi/L		2.0		RA-05	05/02/07 13:40 / plj
Thorium 230	ND	pCi/L		0.4		E907.0	04/26/07 15:00 / dmf
FIELD PARAMETERS							
pH	6.59	s.u.				FIELD	04/18/07 14:48 / 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: C07040980-024
Client Sample ID: WN-5S

Report Date: 06/01/07
Collection Date: 04/18/07 14:48
DateReceived: 04/20/07
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	116	mg/L		5		E200.7	05/01/07 15:16 / ts
Fluoride	0.1	mg/L		0.1		A4500-F C	04/23/07 14:27 / jaj
Nitrogen, Ammonia as N	0.14	mg/L		0.05		A4500-NH3 G	04/25/07 09:58 / ljl
Nitrogen, Nitrate+Nitrite as N	48	mg/L	D	2		E353.2	04/23/07 13:21 / jal
Sulfate	1700	mg/L		5		E200.7	05/01/07 15:16 / ts
PHYSICAL PROPERTIES							
pH	6.88	s.u.		0.01		A4500-H B	04/23/07 09:49 / bas
Solids, Total Dissolved TDS @ 180 C	3700	mg/L		10		A2540 C	04/23/07 15:50 / bas
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/24/07 05:52 / sml
Antimony	ND	mg/L		0.05		E200.8	04/24/07 05:52 / sml
Arsenic	ND	mg/L		0.01		E200.8	04/24/07 05:52 / sml
Beryllium	ND	mg/L		0.004		E200.8	04/24/07 05:52 / sml
Cadmium	ND	mg/L		0.001		E200.8	04/24/07 05:52 / sml
Lead	ND	mg/L		0.005		E200.8	04/24/07 05:52 / sml
Manganese	0.43	mg/L		0.01		E200.8	04/24/07 05:52 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/24/07 05:52 / sml
Nickel	ND	mg/L		0.05		E200.8	04/24/07 05:52 / sml
Selenium	0.018	mg/L		0.005		E200.8	04/26/07 22:00 / aln
Thallium	ND	mg/L		0.1		E200.8	04/24/07 05:52 / sml
Uranium	1.91	mg/L		0.001		E200.8	04/24/07 05:52 / sml
RADIONUCLIDES - DISSOLVED							
Radium 226	ND	pCi/L		1.0		E903.0	05/07/07 13:25 / trs
Radium 228	ND	pCi/L		2.0		RA-05	05/02/07 13:40 / plj
Thorium 230	ND	pCi/L		0.4		E907.0	04/26/07 15:00 / dmf
FIELD PARAMETERS							
pH	6.59	s.u.				FIELD	04/18/07 14:48 / 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: C07040980-004
Client Sample ID: WN-21

Report Date: 06/01/07
Collection Date: 04/19/07 10:25
DateReceived: 04/20/07
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	14	mg/L		5		E200.7	04/25/07 13:59 / ts
Fluoride	0.3	mg/L		0.1		A4500-F C	04/23/07 14:14 / jaj
Nitrogen, Ammonia as N	3.15	mg/L		0.05		A4500-NH3 G	04/25/07 09:46 / ljl
Nitrogen, Nitrate+Nitrite as N	5.6	mg/L	D	0.2		E353.2	04/23/07 13:14 / jal
Sulfate	120	mg/L		5		E200.7	04/25/07 13:59 / ts
PHYSICAL PROPERTIES							
pH	6.99	s.u.		0.01		A4500-H B	04/23/07 09:43 / bas
Solids, Total Dissolved TDS @ 180 C	382	mg/L		10		A2540 C	04/23/07 15:49 / bas
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/24/07 01:22 / sml
Antimony	ND	mg/L		0.05		E200.8	04/24/07 01:22 / sml
Arsenic	ND	mg/L		0.01		E200.8	04/24/07 01:22 / sml
Beryllium	ND	mg/L		0.004		E200.8	04/24/07 01:22 / sml
Cadmium	ND	mg/L		0.001		E200.8	04/24/07 01:22 / sml
Lead	ND	mg/L		0.005		E200.8	04/24/07 01:22 / sml
Manganese	0.48	mg/L		0.01		E200.8	04/24/07 01:22 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/24/07 01:22 / sml
Nickel	ND	mg/L		0.05		E200.8	04/24/07 01:22 / sml
Selenium	ND	mg/L		0.005		E200.8	04/24/07 01:22 / sml
Thallium	ND	mg/L		0.1		E200.8	04/24/07 01:22 / sml
Uranium	0.105	mg/L		0.001		E200.8	04/24/07 01:22 / sml
RADIONUCLIDES - DISSOLVED							
Radium 226	ND	pCi/L		1.0		E903.0	05/07/07 13:25 / trs
Radium 228	ND	pCi/L		2.0		RA-05	05/02/07 13:40 / plj
Thorium 230	ND	pCi/L		0.4		E907.0	04/26/07 15:00 / dmf
FIELD PARAMETERS							
pH	7.30	s.u.				FIELD	04/19/07 10:25 / 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: C07040980-005
Client Sample ID: WN-39B

Report Date: 06/01/07
Collection Date: 04/18/07 10:09
DateReceived: 04/20/07
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	213	mg/L		5		E200.7	04/25/07 14:03 / ts
METALS - DISSOLVED							
Uranium	0.313	mg/L		0.001		E200.8	04/24/07 01:30 / sml
FIELD PARAMETERS							
pH	7.56	s.u.				FIELD	04/18/07 10:09 / ks

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
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: C07040980-006
Client Sample ID: WN-41B

Report Date: 06/01/07
Collection Date: 04/18/07 09:41
DateReceived: 04/20/07
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	390	mg/L		5		E200.7	04/25/07 14:06 / ts
METALS - DISSOLVED							
Uranium	0.021	mg/L		0.001		E200.8	04/26/07 14:22 / aln
FIELD PARAMETERS							
pH	8.26	s.u.				FIELD	04/18/07 09:41 / ks

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

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LABORATORY ANALYTICAL REPORT

Client:	Western Nuclear Inc	**Report Date:**	06/01/07
Project:	Split Rock Mill Site	**Collection Date:**	04/18/07 10:45
Lab ID:	C07040980-007	**DateReceived:**	04/20/07
Client Sample ID:	WN-42A	**Matrix:**	Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	2340	mg/L		5		E200.7	04/25/07 14:10 / ts
METALS - DISSOLVED							
Uranium	0.920	mg/L		0.001		E200.8	04/26/07 14:29 / aln
FIELD PARAMETERS							
pH	6.84	s.u.				FIELD	04/18/07 10:45 / ks

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
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: C07040980-021
Client Sample ID: Field Blank

Report Date: 06/01/07
Collection Date: 04/19/07 15:30
DateReceived: 04/20/07
Matrix: Aqueous

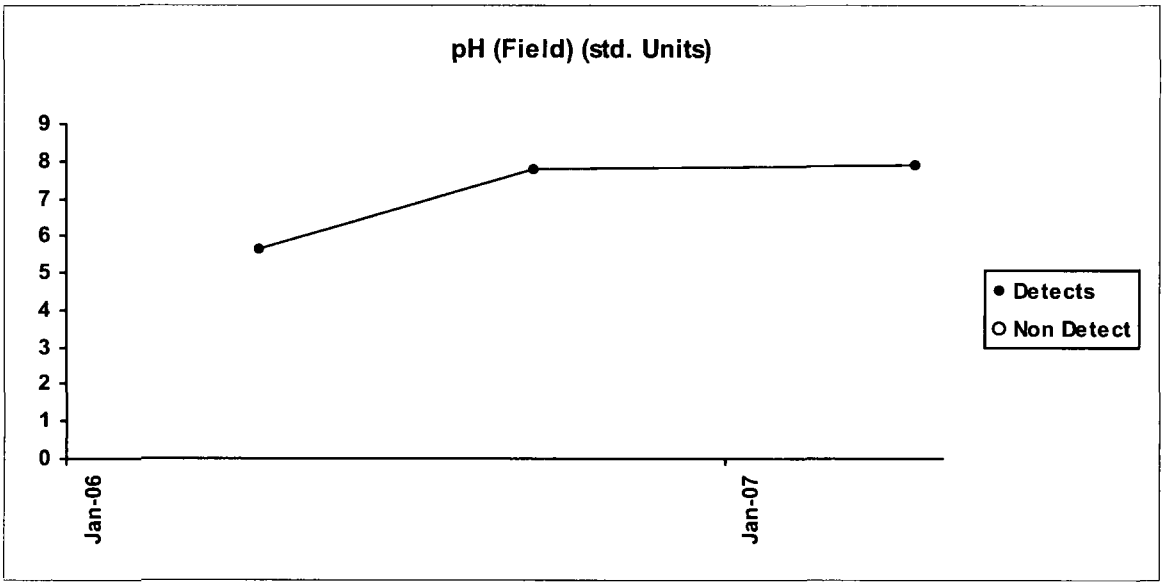
Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	ND	mg/L		5		E200.7	04/26/07 10:43 / ts
METALS - DISSOLVED							
Uranium	ND	mg/L		0.001		E200.8	04/26/07 17:44 / aln
FIELD PARAMETERS							
pH	7.52	s.u.				FIELD	04/19/07 15:30 / ks

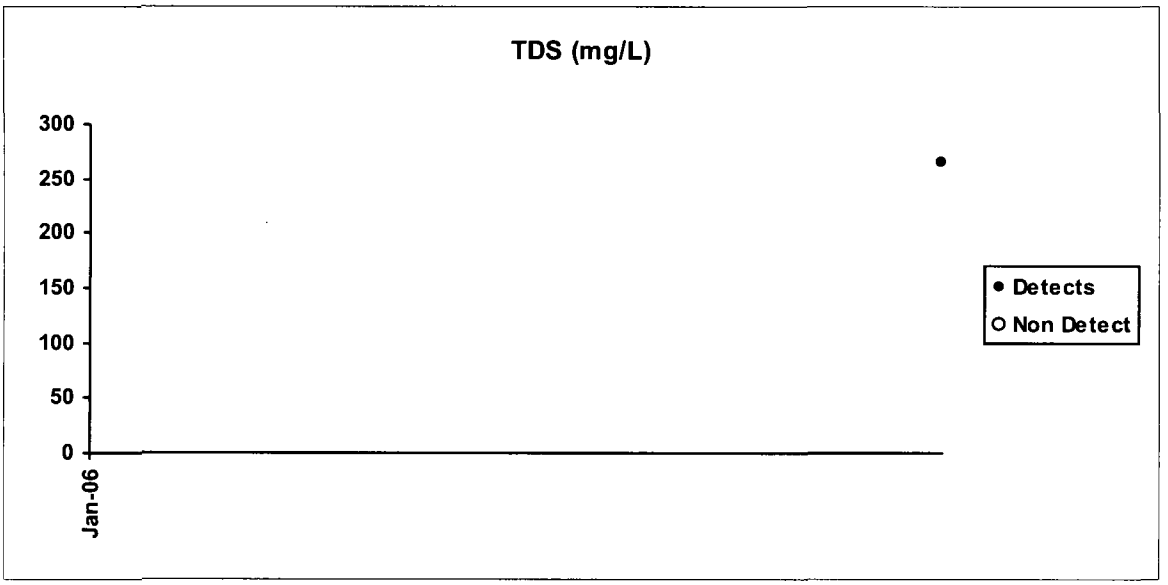
Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

Track#C07040980 D--

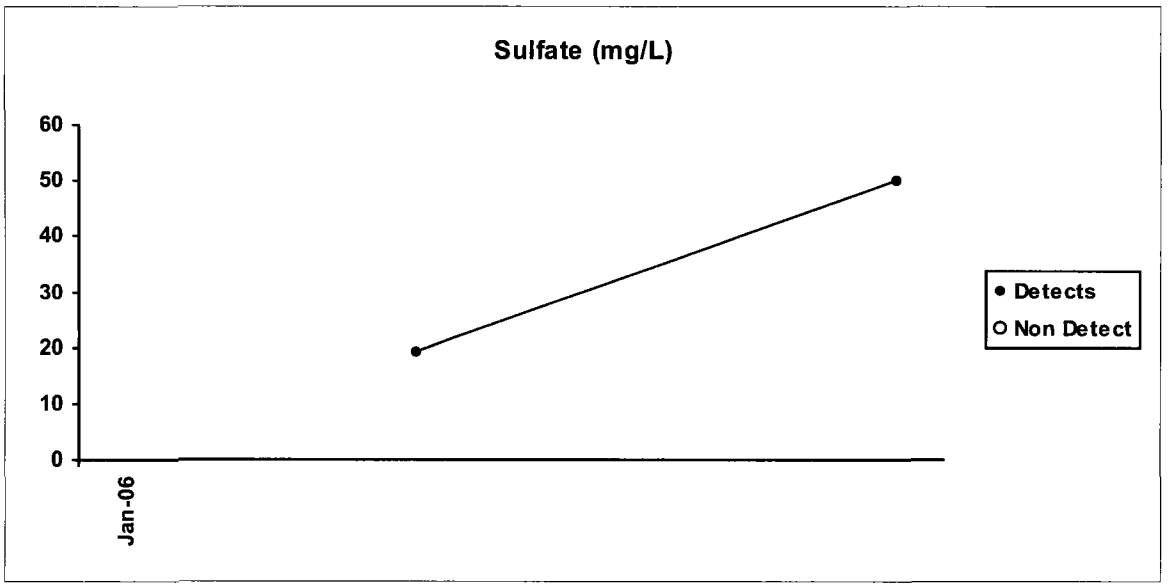
SURFACE WATER

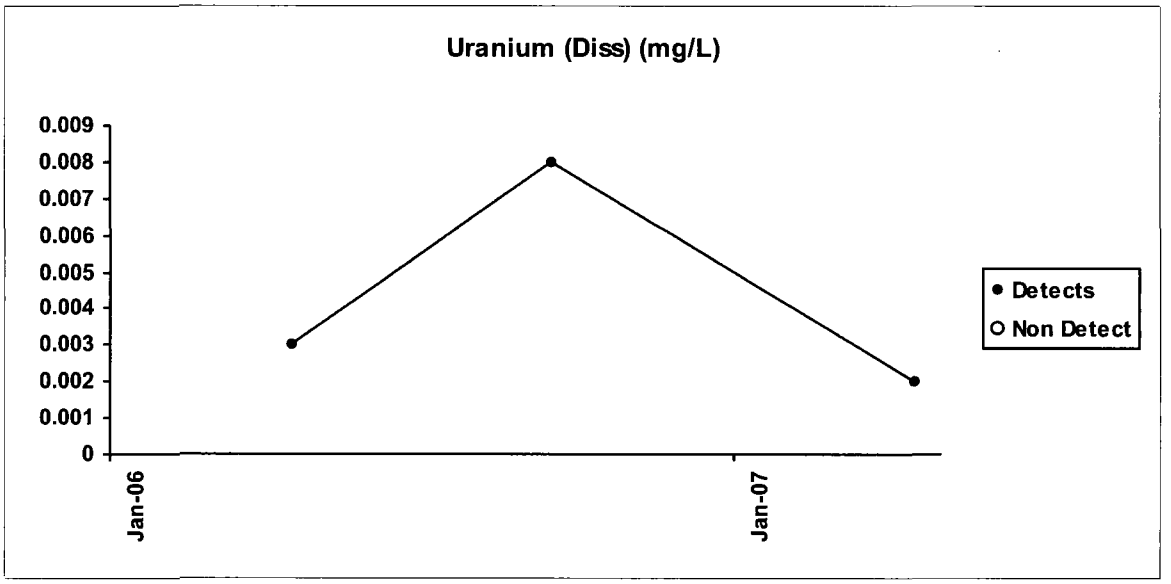
Jeffrey City SW-1



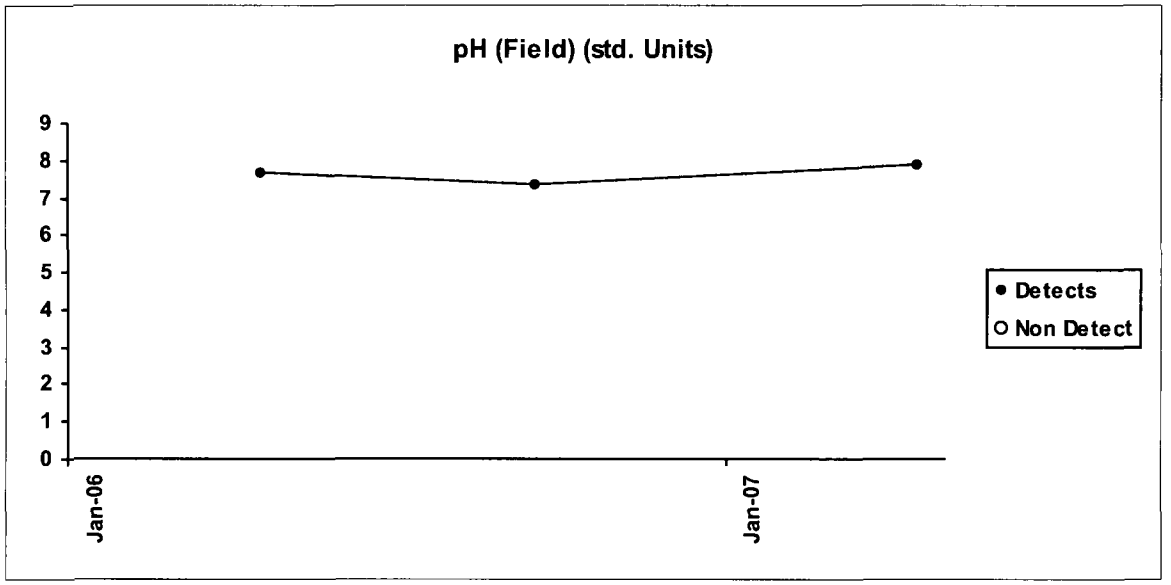


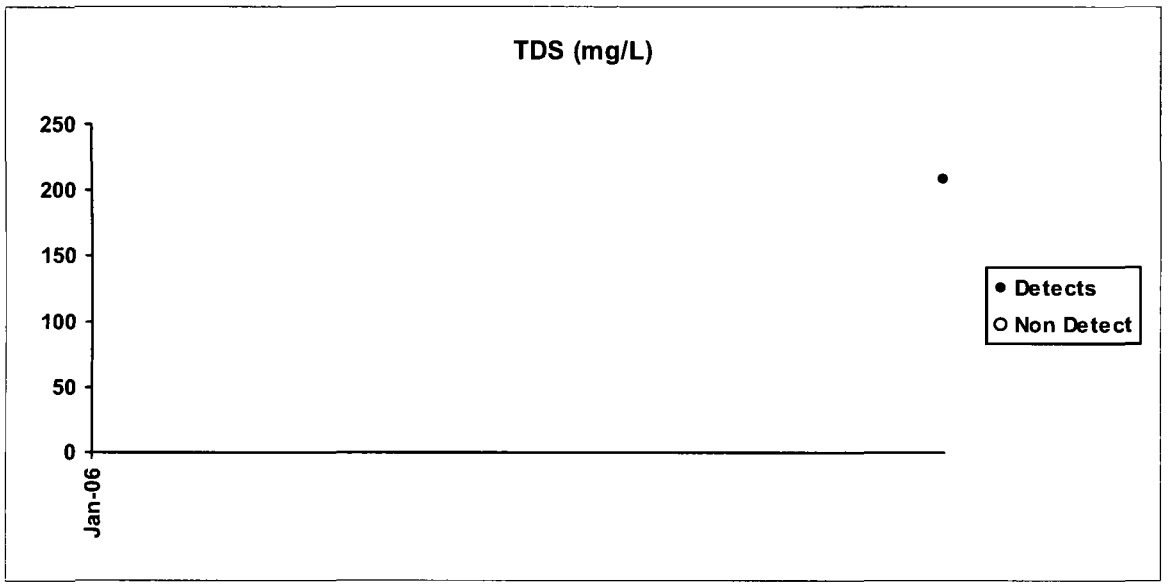
Jeffrey City SW-1



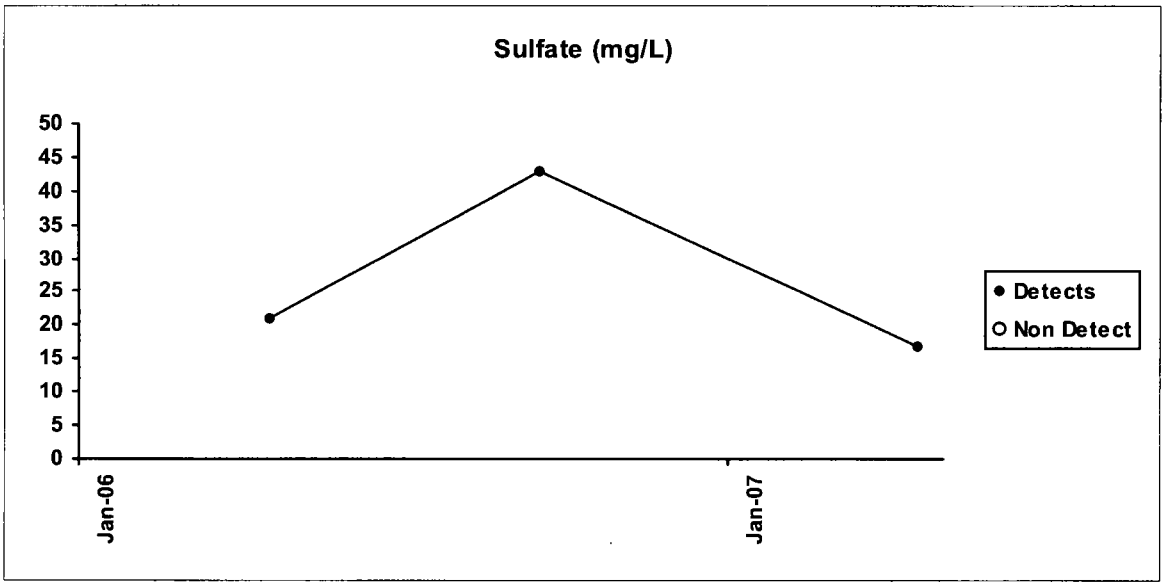


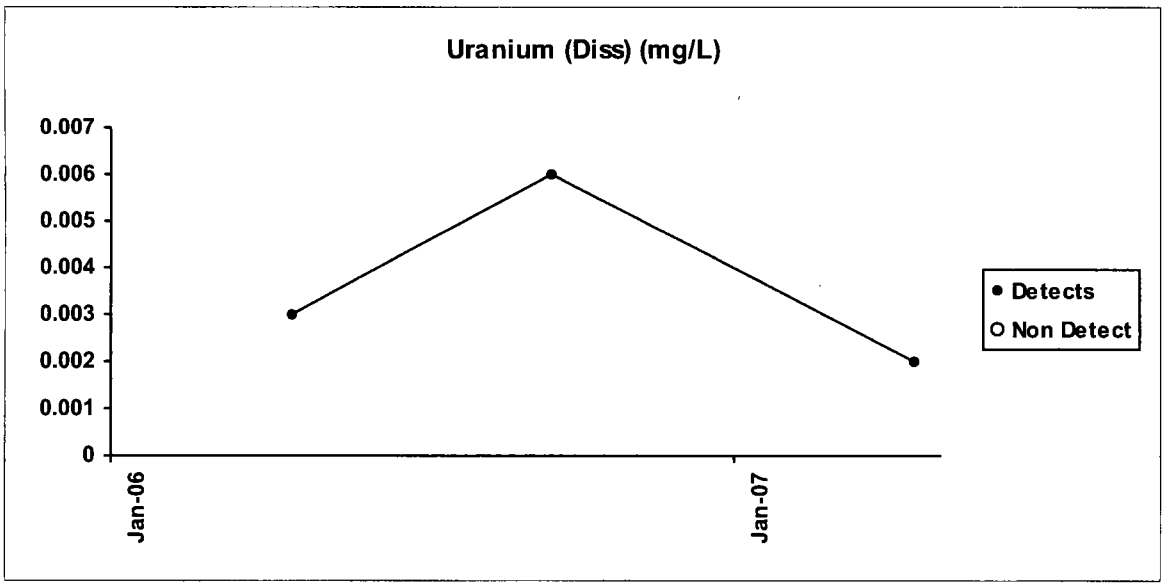
Jeffrey City SW-2



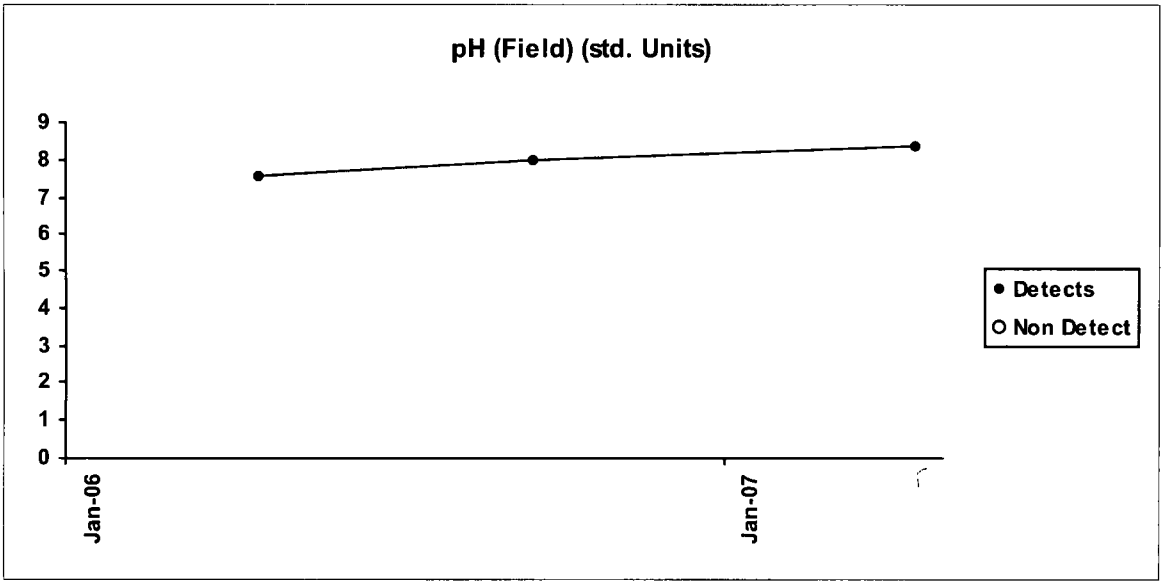


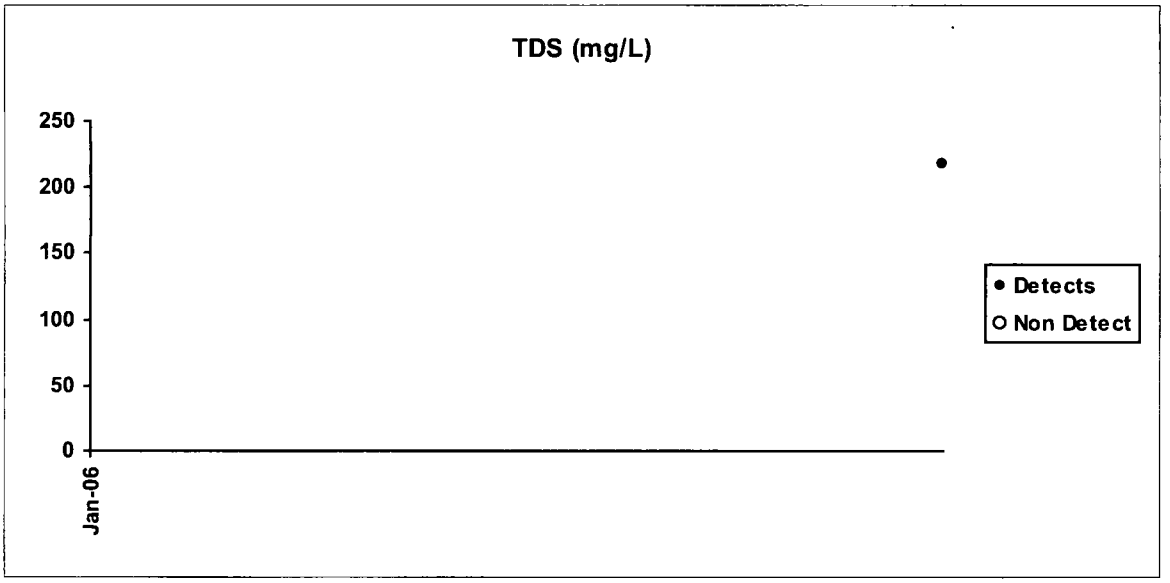
Jeffrey City SW-2



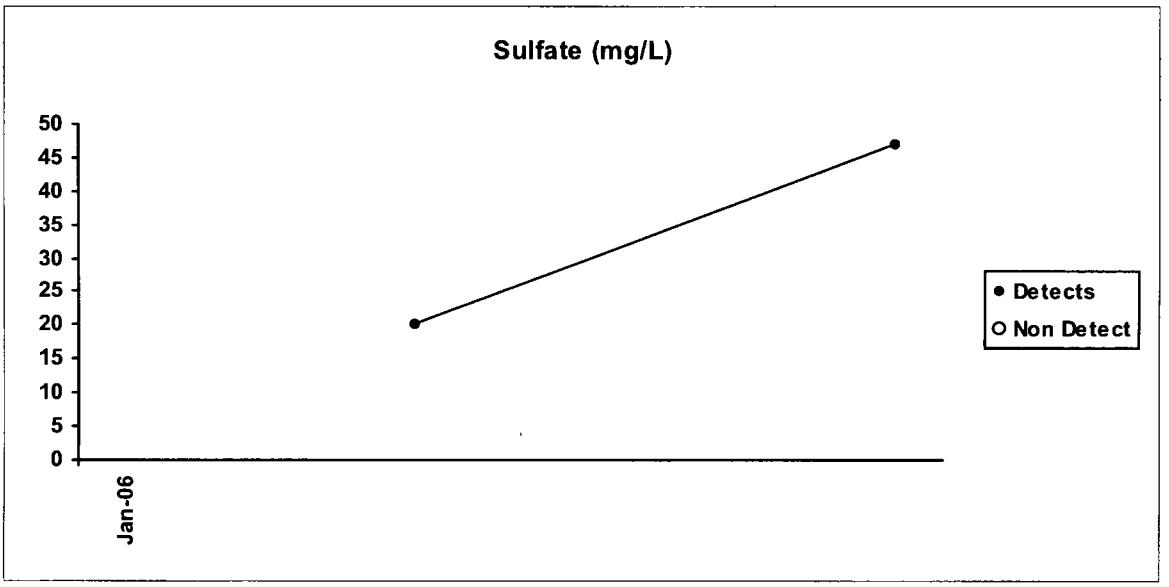


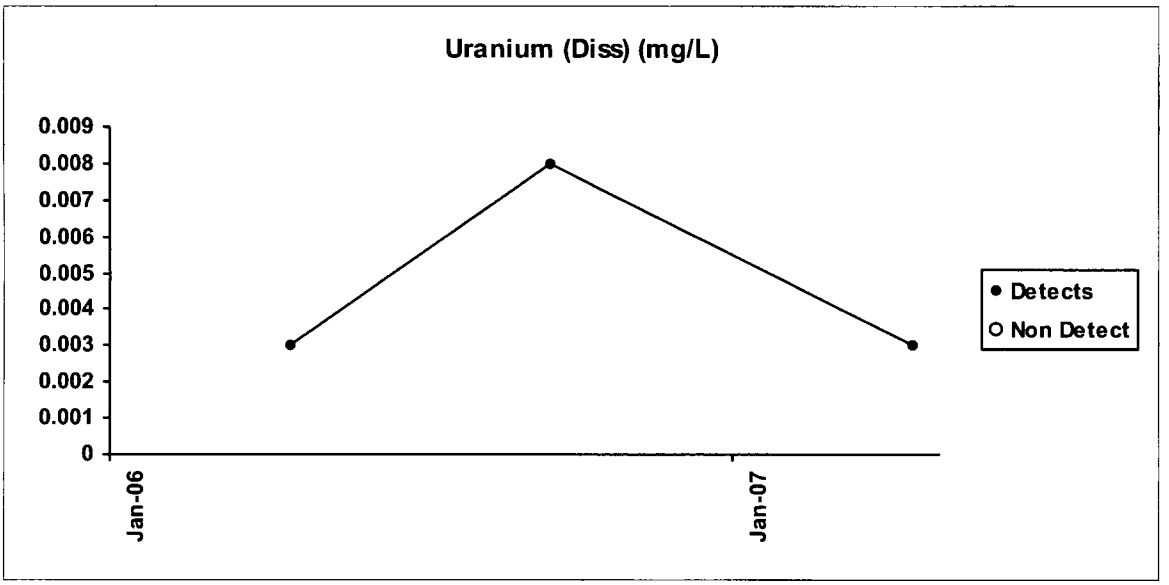
Jeffrey City SW-3



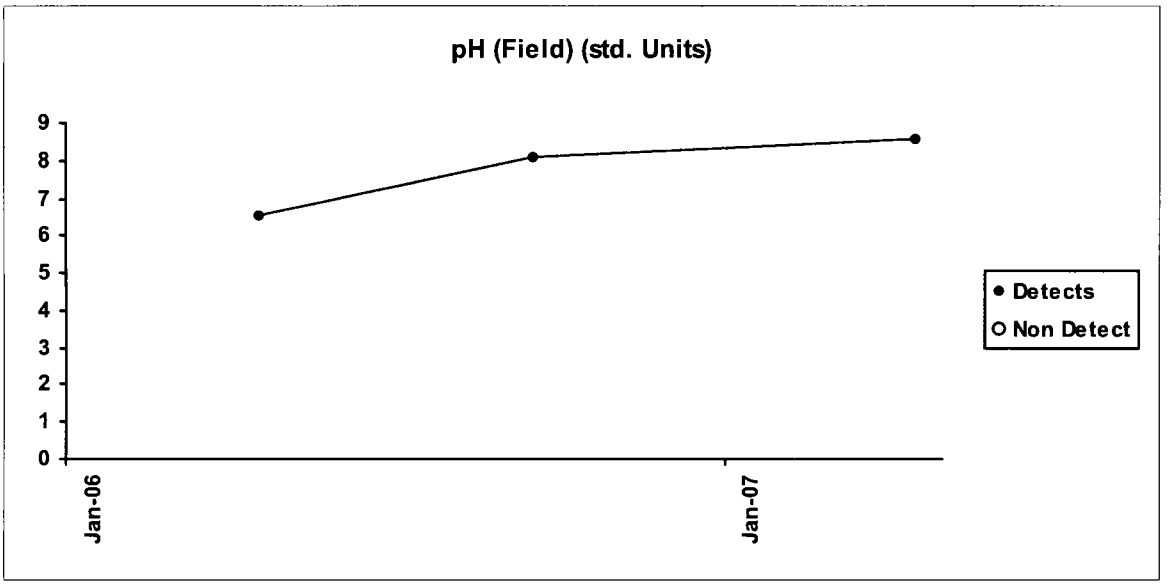


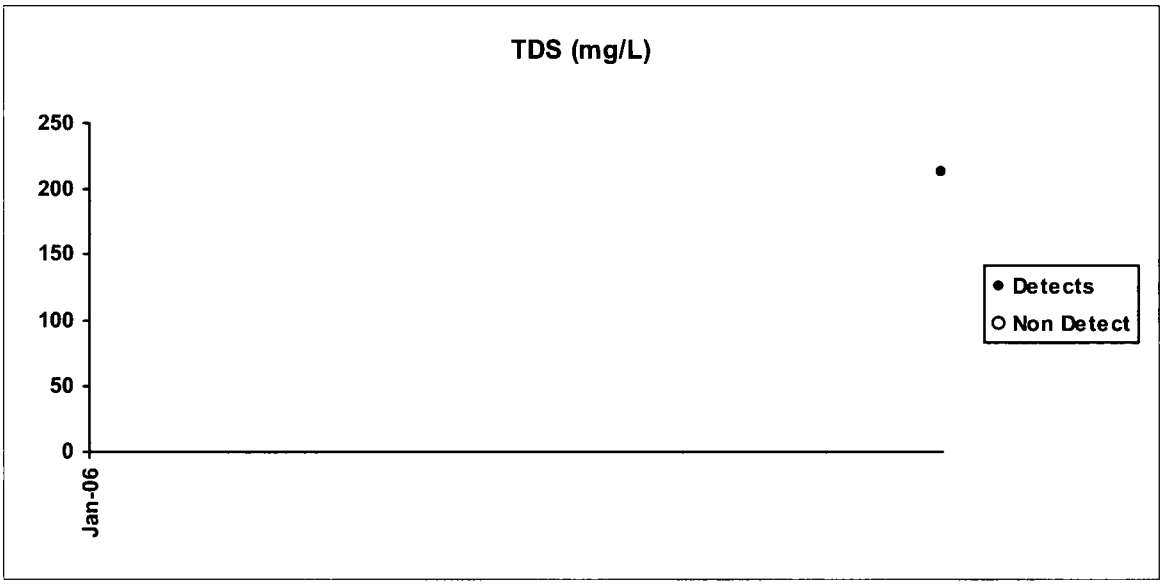
Jeffrey City SW-3



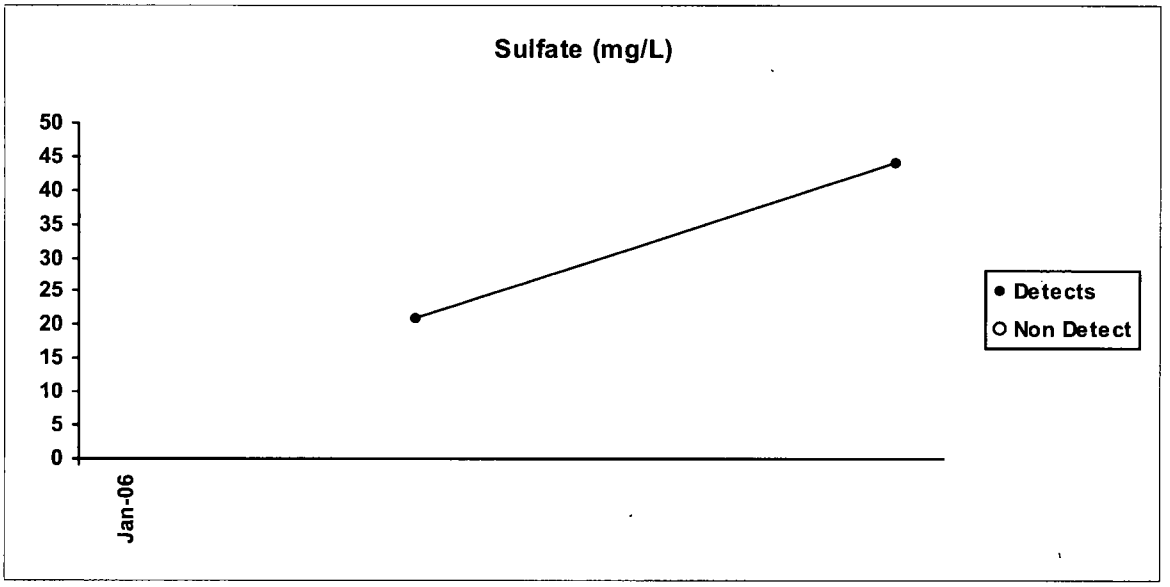


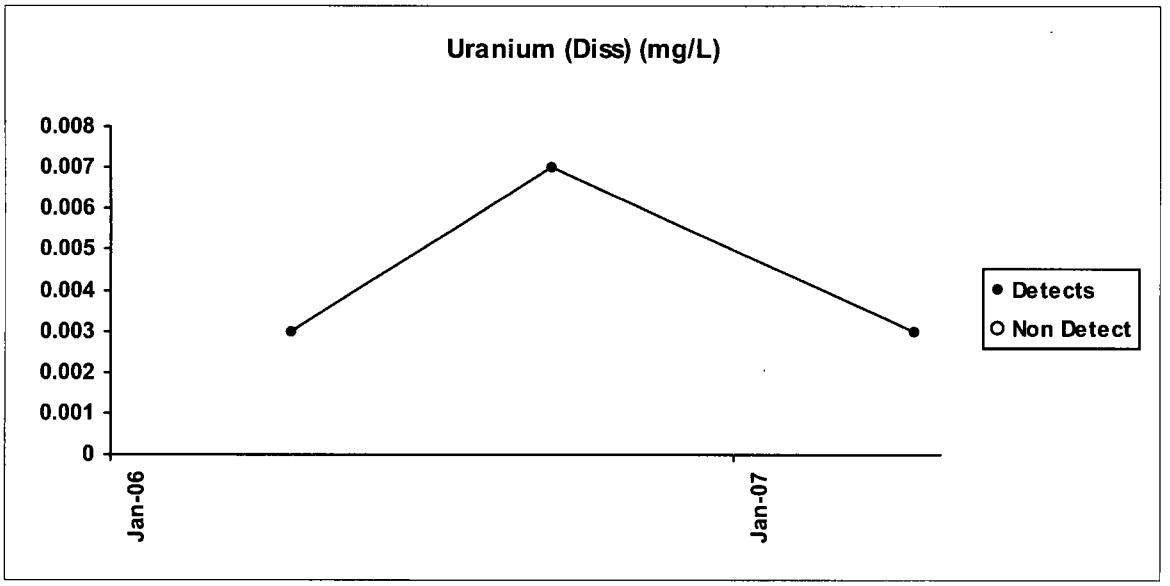
Jeffrey City SW-4



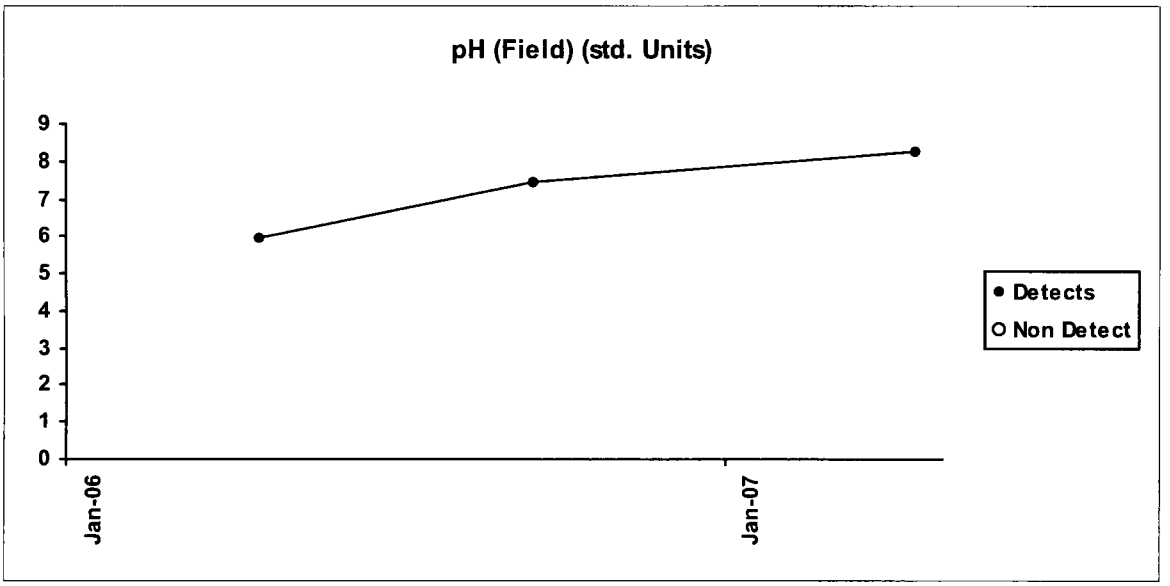


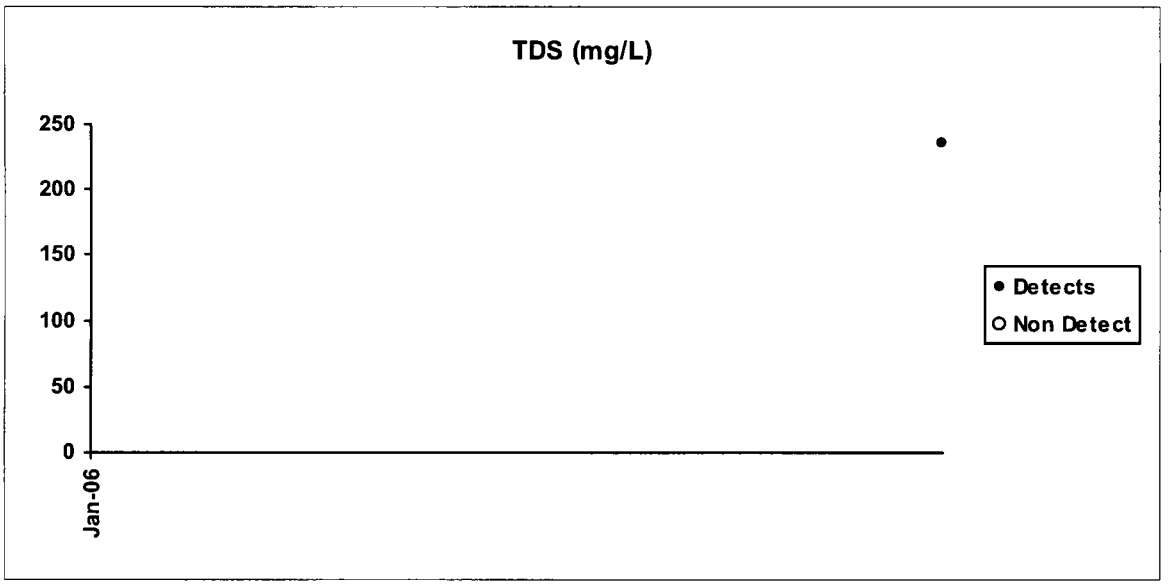
Jeffrey City SW-4



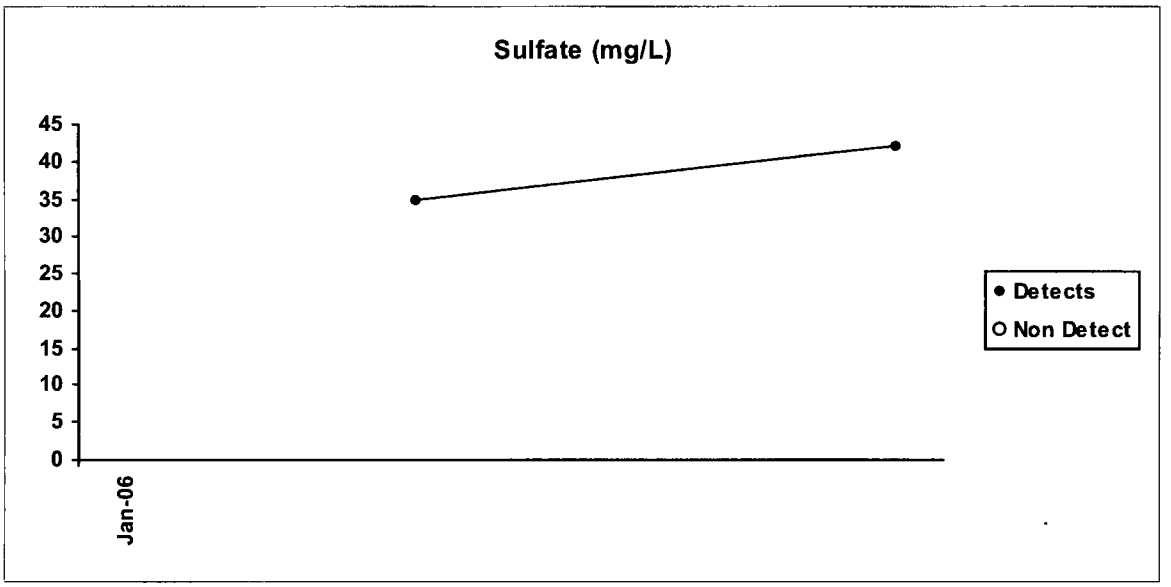


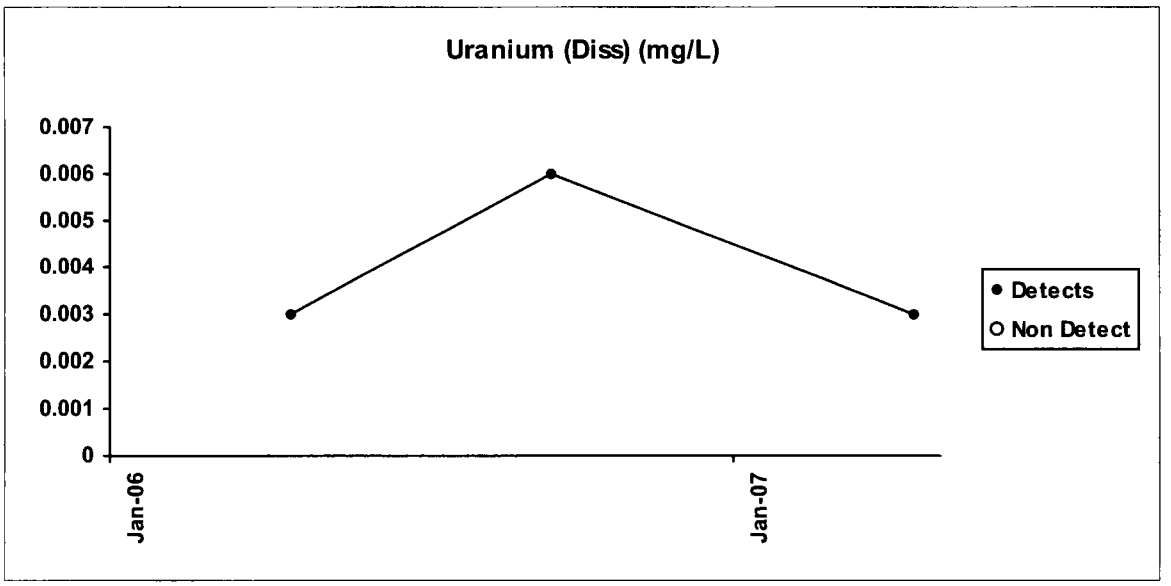
Jeffrey City SW-5





Jeffrey City SW-5





ENERGY LABORATORIES, INC. • 2393 Salt Creek Highway (82601) • P.O. Box 3258 • Casper, WY 82602
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LABORATORY ANALYTICAL REPORT

Client: Western Nuclear Inc
Project: Split Rock Mill Site
Lab ID: C07040980-010
Client Sample ID: SWR-A

Report Date: 06/01/07
Collection Date: 04/18/07 09:15
DateReceived: 04/20/07
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	17	mg/L		5		E200.7	04/25/07 14:20 / ts
METALS - DISSOLVED							
Uranium	0.002	mg/L		0.001		E200.8	04/26/07 14:49 / aln
FIELD PARAMETERS							
pH	7.90	s.u.				FIELD	04/18/07 09:15 / ks

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
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: C07040980-009
Client Sample ID: SWR-UG

Report Date: 06/01/07
Collection Date: 04/18/07 10:00
DateReceived: 04/20/07
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	17	mg/L		5		E200.7	04/25/07 14:16 / ts
METALS - DISSOLVED							
Uranium	0.002	mg/L		0.001		E200.8	04/26/07 14:42 / aln
FIELD PARAMETERS							
pH	7.90	s.u.				FIELD	04/18/07 10:00 / ks

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
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: C07040980-011
Client Sample ID: SWR-B

Report Date: 06/01/07
Collection Date: 04/18/07 09:40
DateReceived: 04/20/07
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	18	mg/L		5		E200.7	04/25/07 14:23 / ts
METALS - DISSOLVED							
Uranium	0.003	mg/L		0.001		E200.8	04/26/07 15:50 / aln
FIELD PARAMETERS							
pH	8.38	s.u.				FIELD	04/18/07 09:40 / ks

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
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: C07040980-012
Client Sample ID: SWR-C

Report Date: 06/01/07
Collection Date: 04/18/07 09:50
DateReceived: 04/20/07
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	18	mg/L		5		E200.7	04/25/07 14:27 / ts
METALS - DISSOLVED							
Uranium	0.003	mg/L		0.001		E200.8	04/26/07 15:56 / aln
FIELD PARAMETERS							
pH	8.55	s.u.				FIELD	04/18/07 09:50 / ks

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

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LABORATORY ANALYTICAL REPORT

Client:	Western Nuclear Inc	**Report Date:**	06/01/07
Project:	Split Rock Mill Site	**Collection Date:**	04/18/07 10:30
Lab ID:	C07040980-013	**DateReceived:**	04/20/07
Client Sample ID:	SWR-DG	**Matrix:**	Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Sulfate	19	mg/L		5		E200.7	04/25/07 14:39 / ts
METALS - DISSOLVED							
Uranium	0.003	mg/L		0.001		E200.8	04/26/07 16:03 / aln
FIELD PARAMETERS							
pH	8.28	s.u.				FIELD	04/18/07 10:30 / ks

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