SEMI – ANNUAL QUALITY ASSURANCE

CHURCH ROCK SITE

JANUARY AND APRIL OF 2010 SAMPLING EVENTS

AUGUST - 2010

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1.0 REQUIREMENTS

The quality assurance and control procedures are contained in Sec. 3.0 of the Remedial Action Plan of Church Rock Site dated April 1989. The procedure address sampling, chain of custody, laboratory quality control, and data validation. These requirements became effective July3, 1989, when United Nuclear received the Administrative Order on the Church Rock Site from the U.S. Environmental Protection Agency (USEPA).

2.0 FIELD SAMPLING PROCEDURES AND QA/QC REPORT

Copies of the 2010 quarterly (1st and 2nd) field low flow purging and sampling data sheets are included in Appendix A. These sheets indicate the field parameter of pH, temperature, conductivity, and the water level drop in the well if any, during the sampling. The quarterly QA/QC Field Blank and Duplicate analysis report are included in Appendix B.

3.0 CHAIN OF CUSTODY

Copies of the quarterly Chain of Custody report are included in Appendix C. Energy Laboratories, Inc., our contract laboratory is located in Casper, Wyoming. Energy Labs inspect the sample shipment upon arrival to verify the information of the Chain of Custody form and to determine if sample arrive at the appropriate temperature.

4.0 LABORATORY CONTROL

Copies of the quarterly internal Quality Control reports prepared by Energy Laboratories and associated EPA performance evaluations are included in Appendix D (1 of 2 and 2 of 2).

5.0 DATA EVALUATION

Analytical reports are reviewed by the Remedial Project Managers and site Radiation Safety Officer after receipt from Energy Labs. Significant increase or decrease and out of range values are identified and the laboratory is requested to recheck the suspect values. The laboratory responds by checking transcription for these items, and where necessary, repeats the analysis. A revised report is then issued for that sample if an error is discovered.

APPENDIX – A

QUARTERLY

FIELD DATA SHEET

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	4.16	1-4-10/0849	[illegible]
7-Buffer	7.24	1-4-10/0851	[illegible]

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GROUND WATER MONITORING FIELD DATA SHEET
First QUARTER 2010
SAMPLING

Cond. Standard Verification Check

STD. µS/cm	Reading	Date/Time	Initial
1413 µS/cm	1581	1-4-10/0859	[illegible]

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	509-D			1st Cond. 4,880	2nd Cond. 5,960	Stable Cond. 6,260	Ending Cond. 6,250
				1st pH 6.79	2nd pH 6.81	Stable pH 6.77	Ending pH 6.54
		78.20'	78.35'	1st Temp. 9.6	2nd Temp. 9.8	Stable Temp. 10.0	Ending Temp. 11.3
1-4-10	Time	Bubbler Start	Bubbler End	Comments: Conductivity is in uS/cm Temperature is in °C pH is in std. units			
	0932	2.400'	2.285'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	EPA-23			1st Cond. 2,520	2nd Cond. 4,370	Stable Cond. 4,410	Ending Cond. 4,930
				1st pH 7.03	2nd pH 7.00	Stable pH 6.90	Ending pH 6.60
		54.75'	55.00'	1st Temp. 10.2	2nd Temp. 10.4	Stable Temp. 10.5	Ending Temp. 12.0
1-4-10	Time	Bubbler Start	Bubbler End	Comments:			
	1015	7.207'	6.998'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	803			1st Cond. 4,810	2nd Cond. 5,790	Stable Cond. 6,230	Ending Cond. 6,430
				1st pH 6.68	2nd pH 6.64	Stable pH 6.55	Ending pH 6.46
		62.10'	62.20'	1st Temp. 10.6	2nd Temp. 10.9	Stable Temp. 10.9	Ending Temp. 11.9
1-4-10	Time	Bubbler Start	Bubbler End	Comments:			
	1052	14.830'	14.692'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	808			1st Cond. 5,210	2nd Cond. 6,060	Stable Cond. 6,280	Ending Cond. 6,410
				1st pH 6.77	2nd pH 6.73	Stable pH 6.60	Ending pH 6.44
		49.45'	49.55'	1st Temp. 10.8	2nd Temp. 11.1	Stable Temp. 11.2	Ending Temp. 12.5
1-4-10	Time	Bubbler Start	Bubbler End	Comments:			
	1130	14.234'	14.197'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	802			1st Cond. 6,760	2nd Cond. 6,890	Stable Cond. 7,070	Ending Cond. 7,390
				1st pH 6.47	2nd pH 6.47	Stable pH 6.47	Ending pH 6.46
		47.85'	47.90'	1st Temp. 11.7	2nd Temp. 11.8	Stable Temp. 11.8	Ending Temp. 12.5
1-4-10	Time	Bubbler Start	Bubbler End	Comments:			
	1205	20.015'	19.933'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	801			1st Cond. 5,940	2nd Cond. 6,020	Stable Cond. 6,080	Ending Cond. 5,980
				1st pH 6.77	2nd pH 6.76	Stable pH 6.77	Ending pH 6.54
		51.50'	52.60'	1st Temp. 11.1	2nd Temp. 11.1	Stable Temp. 11.0	Ending Temp. 11.5
1-4-10	Time	Bubbler Start	Bubbler End	Comments:			
	1245	10.304'	9.329'				

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	4.03	1-5-10/0830	rc
7-Buffer	7.04	1-5-10/0827	rc

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Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1622	1-5-10/0834	rc

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-4-10	GW-2	55.95'	56.50'	1st Cond. 6,700	2nd Cond. 7,180	Stable Cond. 7,510	Ending Cond. 7,800
				1st pH 6.49	2nd pH 6.49	Stable pH 6.46	Ending pH 6.35
				1st Temp. 6.8	2nd Temp. 6.9	Stable Temp. 7.1	Ending Temp. 9.6
	Time	Bubbler Start	Bubbler End	Comments:			
	1325	14.929'	14.418'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-4-10	GW-1	61.65'	61.70'	1st Cond. 4,820	2nd Cond. 5,240	Stable Cond. 5,500	Ending Cond. 6,800
				1st pH 7.30	2nd pH 7.24	Stable pH 7.04	Ending pH 6.62
				1st Temp. 10.5	2nd Temp. 10.6	Stable Temp. 10.6	Ending Temp. 10.8
	Time	Bubbler Start	Bubbler End	Comments:			
	1415	9.192'	9.159'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-4-10	632	44.55'	47.00'	1st Cond. 5,560	2nd Cond. 6,390	Stable Cond. 6,610	Ending Cond. 6,850
				1st pH 6.58	2nd pH 6.56	Stable pH 6.52	Ending pH 6.35
				1st Temp. 10.8	2nd Temp. 10.8	Stable Temp. 10.8	Ending Temp. 11.9
	Time	Bubbler Start	Bubbler End	Comments:			
	1456	12.616'	9.930'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-5-10	624	51.00'	51.05'	1st Cond. 4,520	2nd Cond. 4,620	Stable Cond. 5,040	Ending Cond. 5,210
				1st pH 6.88	2nd pH 6.78	Stable pH 6.63	Ending pH 6.55
				1st Temp. 9.8	2nd Temp. 10.0	Stable Temp. 10.3	Ending Temp. 10.9
	Time	Bubbler Start	Bubbler End	Comments:			
	0908	11.686'	11.676'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-5-10	SBL-1	50.45'	51.25'	1st Cond. 7,340	2nd Cond. 7,610	Stable Cond. 7,570	Ending Cond. 7,490
				1st pH 6.90	2nd pH 6.90	Stable pH 6.88	Ending pH 6.70
				1st Temp. 8.6	2nd Temp. 9.0	Stable Temp. 9.5	Ending Temp. 10.2
	Time	Bubbler Start	Bubbler End	Comments:			
	0950	9.455'	8.672'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-5-10	EPA-28	63.05'	63.35'	1st Cond. 4,210	2nd Cond. 4,660	Stable Cond. 4,740	Ending Cond. 4,810
				1st pH 7.08	2nd pH 7.04	Stable pH 6.96	Ending pH 6.70
				1st Temp. 10.1	2nd Temp. 10.2	Stable Temp. 10.2	Ending Temp. 12.0
	Time	Bubbler Start	Bubbler End	Comments:			
	1030	7.465'	7.149'				

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer			
7-Buffer			

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Cond. Standard Verification Check

STD. µS/cm	Reading	Date/Time	Initial
1413 µS/cm			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 4,810	2nd Cond. 4,840	Stable Cond. 4,820	Ending Cond. 4,780
	EPA-28			1st pH 6.70	2nd pH 6.69	Stable pH 6.69	Ending pH 6.72
	DUPLICATE	63.35'	63.40'	1st Temp. 11.7	2nd Temp. 11.7	Stable Temp. 11.6	Ending Temp. 12.0
1-5-10	Time	Bubbler Start	Bubbler End	Comments:			
	1104	7.149'	7.039'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 4,370	2nd Cond. 4,680	Stable Cond. 4,870	Ending Cond. 5,440
	GW-3			1st pH 7.07	2nd pH 7.08	Stable pH 6.98	Ending pH 6.60
		52.90'	54.35'	1st Temp. 11.7	2nd Temp. 11.7	Stable Temp. 11.6	Ending Temp. 12.1
1-5-10	Time	Bubbler Start	Bubbler End	Comments:			
	1200	2.795'	1.336'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 3,620	2nd Cond. 3,680	Stable Cond. 3,760	Ending Cond. 4,310
	EPA-25			1st pH 7.11	2nd pH 7.09	Stable pH 7.00	Ending pH 6.65
		53.60'	53.70'	1st Temp. 12.4	2nd Temp. 12.2	Stable Temp. 12.2	Ending Temp. 12.7
1-5-10	Time	Bubbler Start	Bubbler End	Comments:			
	1300	7.328'	7.227'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 4,270	2nd Cond. 4,480	Stable Cond. 4,570	Ending Cond. 4,640
	627			1st pH 6.88	2nd pH 6.86	Stable pH 6.85	Ending pH 6.90
		58.40'	58.55'	1st Temp. 12.8	2nd Temp. 12.7	Stable Temp. 12.6	Ending Temp. 12.9
1-5-10	Time	Bubbler Start	Bubbler End	Comments:			
	1350	4.181'	4.122'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 8,730	2nd Cond. 9,080	Stable Cond. 9,230	Ending Cond. 9,610
	613			1st pH 3.17	2nd pH 3.13	Stable pH 3.10	Ending pH 2.94
		79.10'	80.20'	1st Temp. 12.2	2nd Temp. 12.0	Stable Temp. 11.9	Ending Temp. 11.8
1-5-10	Time	Bubbler Start	Bubbler End	Comments:			
	1440	5.730'	4.842'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 4,460	2nd Cond. 4,820	Stable Cond. 4,900	Ending Cond. 5,260
	EPA-14			1st pH 4.48	2nd pH 4.49	Stable pH 4.50	Ending pH 4.30
		118.95'	119.00'	1st Temp. 11.7	2nd Temp. 11.7	Stable Temp. 11.7	Ending Temp. 12.5
1-5-10	Time	Bubbler Start	Bubbler End	Comments:			
	1520	2.475'	3.348'				

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	4.04	1-6-10/0829	[illegible]
7-Buffer	6.95	1-6-10/0828	[illegible]

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Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1611	1-6-10/0830	[illegible]

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	515-A			1st Cond. 5,200	2nd Cond. 6,670	Stable Cond. 6,970	Ending Cond. 7,160
				1st pH 6.25	2nd pH 6.29	Stable pH 6.34	Ending pH 6.44
		103.55'	109.20'	1st Temp. 9.0	2nd Temp. 9.6	Stable Temp. 9.8	Ending Temp. 11.6
1-6-10	Time	Bubbler Start	Bubbler End	Comments:			
	0930	5.590'	0.006				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	604			1st Cond. 4,670	2nd Cond. 4,970	Stable Cond. 6,030	Ending Cond. 6,290
				1st pH 7.17	2nd pH 6.84	Stable pH 6.72	Ending pH 6.46
		102.60'	103.30'	1st Temp. 9.5	2nd Temp. 9.8	Stable Temp. 10.6	Ending Temp. 10.7
1-6-10	Time	Bubbler Start	Bubbler End	Comments:			
	1035	6.989'	6.341				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	614			1st Cond. 4,900	2nd Cond. 5,200	Stable Cond. 5,980	Ending Cond. 6,840
				1st pH 6.96	2nd pH 7.03	Stable pH 7.09	Ending pH 7.18
		103.45'	104.20'	1st Temp. 11.3	2nd Temp. 11.3	Stable Temp. 11.4	Ending Temp. 11.4
1-6-10	Time	Bubbler Start	Bubbler End	Comments:			
	1155	3.119'	2.465'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	FIELD			1st Cond. 19	2nd Cond.	Stable Cond.	Ending Cond.
	BLANK			1st pH 8.27	2nd pH	Stable pH	Ending pH
1-6-10				1st Temp. 10.8	2nd Temp.	Stable Temp.	Ending Temp.
	Time	Bubbler Start	Bubbler End	Comments:			
	1230						

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond.	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH	2nd pH	Stable pH	Ending pH
				1st Temp.	2nd Temp.	Stable Temp.	Ending Temp.
	Time	Bubbler Start	Bubbler End	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond.	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH	2nd pH	Stable pH	Ending pH
				1st Temp.	2nd Temp.	Stable Temp.	Ending Temp.
	Time	Bubbler Start	Bubbler End	Comments:			

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	4.00	1-11-10/0842	[illegible]
7-Buffer	7.10	1-11-10/0838	[illegible]

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First QUARTER 2010

SAMPLING

Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1460	1-11-10/0844	[illegible]

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-11-10	EPA-4	206.50'	206.90'	1st Cond. 3,820	2nd Cond. 4,090	Stable Cond. 4,200	Ending Cond. 4,390
				1st pH 6.99	2nd pH 7.00	Stable pH 7.01	Ending pH 6.80
				1st Temp. 9.4	2nd Temp. 9.2	Stable Temp. 9.9	Ending Temp. 11.1
	Time	Bubbler Start	Bubbler End	Comments:			
	0920	16.483'	16.080'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-11-10	EPA-5	124.90'	125.40'	1st Cond. 4,290	2nd Cond. 4,360	Stable Cond. 4,430	Ending Cond. 4,460
				1st pH 6.42	2nd pH 6.40	Stable pH 6.36	Ending pH 6.01
				1st Temp. 11.7	2nd Temp. 11.7	Stable Temp. 11.8	Ending Temp. 12.3
	Time	Bubbler Start	Bubbler End	Comments:			
	1011	5.980'	5.447'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-11-10	EPA-7	114.55'	116.10'	1st Cond. 7,610	2nd Cond. 7,740	Stable Cond. 7,780	Ending Cond. 7,590
				1st pH 7.37	2nd pH 7.40	Stable pH 7.43	Ending pH 5.95
				1st Temp. 11.0	2nd Temp. 11.1	Stable Temp. 11.2	Ending Temp. 12.1
	Time	Bubbler Start	Bubbler End	Comments:			
	1050	12.673'	11.107'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-11-10	EPA-2	173.15'	173.85'	1st Cond. 2,400	2nd Cond. 2,770	Stable Cond. 2,930	Ending Cond. 2,880
				1st pH 6.81	2nd pH 6.87	Stable pH 6.92	Ending pH 6.86
				1st Temp. 11.5	2nd Temp. 11.5	Stable Temp. 11.6	Ending Temp. 11.9
	Time	Bubbler Start	Bubbler End	Comments:			
	1138	8.442'	7.757'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-11-10	EPA-2 DUPLICATE	173.85'	174.10'	1st Cond. 2,890	2nd Cond. 2,900	Stable Cond. 2,920	Ending Cond. 2,940
				1st pH 6.88	2nd pH 6.84	Stable pH 6.82	Ending pH 6.84
				1st Temp. 11.9	2nd Temp. 11.8	Stable Temp. 11.9	Ending Temp. 12.0
	Time	Bubbler Start	Bubbler End	Comments:			
	1225	7.757'	7.556'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-11-10	517	103.00'	108.55'	1st Cond. 4,520	2nd Cond. 4,920	Stable Cond. 5,110	Ending Cond. 4,650
				1st pH 2.73	2nd pH 2.73	Stable pH 2.75	Ending pH 3.59
				1st Temp. 11.2	2nd Temp. 11.2	Stable Temp. 11.2	Ending Temp. 11.4
	Time	Bubbler Start	Bubbler End	Comments:			
	1255	3.724'	0.285'				

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	3.85	1-12-10/0832	[illegible]
7-Buffer	6.96	1-12-10/0830	[illegible]

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GROUND WATER MONITORING FIELD DATA SHEET

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SAMPLING

Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1460	1-12-10/0835	[illegible]

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-11-10	708	153.25'	154.40'	1st Cond. 5,040	2nd Cond. 5,420	Stable Cond. 5,600	Ending Cond. 5,040
				1st pH 2.63	2nd pH 2.63	Stable pH 2.63	Ending pH 3.41
				1st Temp. 10.4	2nd Temp. 10.5	Stable Temp. 10.6	Ending Temp. 11.3
	Time	Bubbler Start	Bubbler End	Comments:			
	1400	5.343'	4.258'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-11-10	711	181.75'	182.80'	1st Cond. 3,710	2nd Cond. 4,040	Stable Cond. 4,600	Ending Cond. 4,360
				1st pH 2.86	2nd pH 2.86	Stable pH 2.87	Ending pH 4.43
				1st Temp. 9.8	2nd Temp. 10.1	Stable Temp. 10.4	Ending Temp. 11.7
	Time	Bubbler Start	Bubbler End	Comments:			
	1440	10.442'	9.505'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-11-10	711 DUPLICATE	182.80'	183.35'	1st Cond. 4,390	2nd Cond. 4,390	Stable Cond. 4,400	Ending Cond. 4,320
				1st pH 4.45	2nd pH 4.47	Stable pH 4.48	Ending pH 4.64
				1st Temp. 11.7	2nd Temp. 11.7	Stable Temp. 11.6	Ending Temp. 11.7
	Time	Bubbler Start	Bubbler End	Comments:			
	1520	9.505'	8.725'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-12-10	EPA-13	167.15'	168.25'	1st Cond. 5,700	2nd Cond. 5,750	Stable Cond. 5,770	Ending Cond. 5,730
				1st pH 6.30	2nd pH 6.35'	Stable pH 6.40	Ending pH 5.84
				1st Temp. 8.2	2nd Temp. 8.5	Stable Temp. 8.4	Ending Temp. 10.9
	Time	Bubbler Start	Bubbler End	Comments: Check freeze line due to leakage.			
	0910	5.835'	4.732'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-12-10	504-B	167.30'	167.30'	1st Cond. 2,560	2nd Cond. 4,910	Stable Cond. 5,020	Ending Cond. 5,020
				1st pH 4.54	2nd pH 4.52	Stable pH 4.56	Ending pH 4.56
				1st Temp. 8.7	2nd Temp. 9.0	Stable Temp. 9.1	Ending Temp. 9.1
	Time	Bubbler Start	Bubbler End	Comments: Check bladder pump assembly and line.			
	1000	0.601'	0.601'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-12-10	719	166.90'	167.35'	1st Cond. 3,790	2nd Cond. 4,650	Stable Cond. 4,950	Ending Cond. 4,800
				1st pH 3.25	2nd pH 3.24	Stable pH 3.23	Ending pH 3.77
				1st Temp. 10.1	2nd Temp. 10.0	Stable Temp. 10.0	Ending Temp. 11.9
	Time	Bubbler Start	Bubbler End	Comments:			
	1020	0.423'	0.458'				

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer			
7-Buffer			

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First QUARTER 2010
SAMPLING

Cond. Standard Verification Check

STD. µS/cm	Reading	Date/Time	Initial
1413 µS/cm			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	420			1st Cond. 3,130	2nd Cond. 3,250	Stable Cond. 3,320	Ending Cond. 3,250
				1st pH 6.99	2nd pH 7.05	Stable pH 7.14	Ending pH 6.48
		148.95'	149.60'	1st Temp. 11.7	2nd Temp. 11.6	Stable Temp. 11.7	Ending Temp. 13.6
1-12-10	Time	Bubbler Start	Bubbler End	Comments:			
	1105	5,577'	4,902'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	717			1st Cond. 4,110	2nd Cond. 5,190	Stable Cond. 5,560	Ending Cond. 5,710
				1st pH 4.57	2nd pH 4.14	Stable pH 4.10	Ending pH 3.96
		129.20'	129.20'	1st Temp. 18.2	2nd Temp. 12.5	Stable Temp. 12.4	Ending Temp. 13.0
1-12-10	Time	Bubbler Start	Bubbler End	Comments:			
	1145	2,506'	2,500'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	TWQ-142			1st Cond. 1,438	2nd Cond. 1,589	Stable Cond. 1,690	Ending Cond. 1,697
				1st pH 7.17	2nd pH 7.19	Stable pH 7.20	Ending pH 7.78
		201.30'	201.85'	1st Temp. 12.0	2nd Temp. 12.1	Stable Temp. 11.9	Ending Temp. 12.8
1-12-10	Time	Bubbler Start	Bubbler End	Comments:			
	1300	19.580'	19,079'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	NBL-1			1st Cond. 4,090	2nd Cond. 4,120	Stable Cond. 4,130	Ending Cond. 4,150
				1st pH 5.99	2nd pH 6.13	Stable pH 6.24	Ending pH 6.31
		184.55'	184.75'	1st Temp. 12.4	2nd Temp. 12.4	Stable Temp. 12.4	Ending Temp. 12.4
1-12-10	Time	Bubbler Start	Bubbler End	Comments: Check and replace bladder unit.			
	1350	7,360'	7,099'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	FIELD BLANK			1st Cond. 10	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 6.31	2nd pH	Stable pH	Ending pH
				1st Temp. 14.5	2nd Temp.	Stable Temp.	Ending Temp.
1-12-10	Time	Bubbler Start	Bubbler End	Comments:			
	1600						

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond.	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH	2nd pH	Stable pH	Ending pH
				1st Temp.	2nd Temp.	Stable Temp.	Ending Temp.
	Time	Bubbler Start	Bubbler End	Comments:			

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	3.85	1-12-10/0832	[illegible]
7-Buffer	6.96	1-12-10/0830	[illegible]

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Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1460	1-12-10/0835	[illegible]

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-12-10	NBL-2	158.40'	158.75'	1st Cond. 3,000	2nd Cond. 3,280	Stable Cond. 3,370	Ending Cond. 3,460
				1st pH 6.18	2nd pH 6.21	Stable pH 6.24	Ending pH 6.39
				1st Temp. 12.0	2nd Temp. 11.9	Stable Temp. 12.0	Ending Temp. 12.4
	Time 1240	Bubbler Start 4.993'	Bubbler End 4.838'	Comments: Check freeze line connection.			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-12-10	PB-3	182.15'	182.20'	1st Cond. 3,160	2nd Cond. 3,450	Stable Cond. 3,530	Ending Cond. 3,600
				1st pH 6.74	2nd pH 6.77	Stable pH 6.79	Ending pH 5.45
				1st Temp. 12.2	2nd Temp. 12.2	Stable Temp. 12.1	Ending Temp. 12.9
	Time 1420	Bubbler Start	Bubbler End	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-12-10	PB-4	181.80'	181.80'	1st Cond. 4,130	2nd Cond. 4,170	Stable Cond. 4,280	Ending Cond. 4,300
				1st pH 2.75	2nd pH 2.76	Stable pH 2.76	Ending pH 2.76
				1st Temp. 12.9	2nd Temp. 12.9	Stable Temp. 12.8	Ending Temp. 12.8
	Time 1432	Bubbler Start	Bubbler End	Comments: Inspect check valve fitting.			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-12-10	PB-2	185.45'		1st Cond. 4,460	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 5.50	2nd pH	Stable pH	Ending pH
				1st Temp. 19.3	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1500	Bubbler Start	Bubbler End	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-12-10	RW-A	174.05'		1st Cond. 3,850	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 6.06	2nd pH	Stable pH	Ending pH
				1st Temp. 19.3	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1515	Bubbler Start	Bubbler End	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-12-10	NW-3	178.55'		1st Cond. 3,680	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 6.33	2nd pH	Stable pH	Ending pH
				1st Temp. 12.2	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1530	Bubbler Start	Bubbler End	Comments:			

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	4.02	1-13-10/0848	[illegible]
7-Buffer	7.08	1-13-10/0836	[illegible]

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Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1460	1-13-10/0847	[illegible]

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-12-10	NW-5	178.55'		1st Cond. 3,680	2nd Cond.	Stable Cond.	Ending Cond.
	Time 1550	Bubbler Start	Bubbler End	1st pH 6.35	2nd pH	Stable pH	Ending pH
				1st Temp. 11.6	2nd Temp.	Stable Temp.	Ending Temp.
				Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-13-10	NW-2	185.10'		1st Cond. 3,820	2nd Cond.	Stable Cond.	Ending Cond.
	Time 0940	Bubbler Start	Bubbler End	1st pH 6.26	2nd pH	Stable pH	Ending pH
				1st Temp. 16.2	2nd Temp.	Stable Temp.	Ending Temp.
				Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-13-10	NW-4	193.95'		1st Cond. 4,230	2nd Cond.	Stable Cond.	Ending Cond.
	Time 0950	Bubbler Start	Bubbler End	1st pH 6.10	2nd pH	Stable pH	Ending pH
				1st Temp. 13.6	2nd Temp.	Stable Temp.	Ending Temp.
				Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-13-10	NW-1	198.29'		1st Cond. 4,310	2nd Cond.	Stable Cond.	Ending Cond.
	Time 1005	Bubbler Start	Bubbler End	1st pH 6.68	2nd pH	Stable pH	Ending pH
				1st Temp. 8.3	2nd Temp.	Stable Temp.	Ending Temp.
				Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond.	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH	2nd pH	Stable pH	Ending pH
				1st Temp.	2nd Temp.	Stable Temp.	Ending Temp.
	Time	Bubbler Start	Bubbler End	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond.	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH	2nd pH	Stable pH	Ending pH
				1st Temp.	2nd Temp.	Stable Temp.	Ending Temp.
	Time	Bubbler Start	Bubbler End	Comments:			

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	4.07	4-5-10/0843	rc
7-Buffer	7.01	4-5-10/0842	rc

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Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1435	4-5-10/0844	rc

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-5-10	509-D	78.20'	78.20'	1st Cond. 4,550	2nd Cond. 5,310	Stable Cond. 5,940	Ending Cond. 6,400
				1st pH 6.77	2nd pH 6.81	Stable pH 6.82	Ending pH 6.41
				1st Temp. 11.1	2nd Temp. 11.3	Stable Temp. 11.5	Ending Temp. 12.5
	Time	Bubbler Start	Bubbler End	Comments: Conductivity is in uS/cm Temperature is in °C pH is in std. units			
	0915	2.309'	2.265'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-5-10	EPA-23	54.65'	54.95'	1st Cond. 4,140	2nd Cond. 4,420	Stable Cond. 4,600	Ending Cond. 4,420
				1st pH 6.78	2nd pH 6.76	Stable pH 6.71	Ending pH 6.65
				1st Temp. 12.3	2nd Temp. 12.2	Stable Temp. 12.2	Ending Temp. 13.5
	Time	Bubbler Start	Bubbler End	Comments:			
	0955	7.275'	7.038'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-5-10	803	61.90'	62.05'	1st Cond. 5,070	2nd Cond. 5,460	Stable Cond. 5,830	Ending Cond. 6,400
				1st pH 7.03	2nd pH 6.81	Stable pH 6.60	Ending pH 6.38
				1st Temp. 13.1	2nd Temp. 13.2	Stable Temp. 13.1	Ending Temp. 13.6
	Time	Bubbler Start	Bubbler End	Comments:			
	1040	14.889'	14.773'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-5-10	808	49.35'	49.45'	1st Cond. 5,680	2nd Cond. 6,010	Stable Cond. 6,270	Ending Cond. 6,280
				1st pH 6.64	2nd pH 6.61	Stable pH 6.56	Ending pH 6.44
				1st Temp. 13.1	2nd Temp. 13.1	Stable Temp. 13.1	Ending Temp. 13.8
	Time	Bubbler Start	Bubbler End	Comments:			
	1115	14.319'	14.258'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-5-10	802	47.75'	47.80'	1st Cond. 5,030	2nd Cond. 6,260	Stable Cond. 7,000	Ending Cond. 7,390
				1st pH 6.71	2nd pH 6.60	Stable pH 6.53	Ending pH 6.45
				1st Temp. 14.0	2nd Temp. 13.9	Stable Temp. 13.8	Ending Temp. 13.9
	Time	Bubbler Start	Bubbler End	Comments:			
	1150	19.991'	19.937'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-5-10	801	51.40'	52.75'	1st Cond. 5,490	2nd Cond. 5,600	Stable Cond. 5,760	Ending Cond. 5,970
				1st pH 6.67	2nd pH 6.62	Stable pH 6.59	Ending pH 6.42
				1st Temp. 13.5	2nd Temp. 13.5	Stable Temp. 13.3	Ending Temp. 13.5
	Time	Bubbler Start	Bubbler End	Comments:			
	1225	10.256'	9.018'				

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	3.97	4-6-10/0820	rc
7-Buffer	7.03	4-6-10/0818	rc

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Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1476	4-6-10/0819	rc

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-5-10	GW-2	55.75'	56.55'	1st Cond. 2,590	2nd Cond. 6,930	Stable Cond. 7,420	Ending Cond. 7,520
				1st pH 6.29	2nd pH 6.29	Stable pH 6.30	Ending pH 6.22
				1st Temp. 10.6	2nd Temp. 10.6	Stable Temp. 10.5	Ending Temp. 12.6
	Time	Bubbler Start	Bubbler End	Comments:			
	1300	15.055'	14.297'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-5-10	GW-1	61.55'	61.65'	1st Cond. 5,540	2nd Cond. 5,740	Stable Cond. 5,930	Ending Cond. 6,720
				1st pH 6.86	2nd pH 6.74	Stable pH 6.64	Ending pH 6.52
				1st Temp. 14.3	2nd Temp. 13.9	Stable Temp. 14.1	Ending Temp. 13.8
	Time	Bubbler Start	Bubbler End	Comments:			
	1340	9.205'	9.169'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-5-10	632	44.40'	48.30'	1st Cond. 6,170	2nd Cond. 6,460	Stable Cond. 6,650	Ending Cond. 6,960
				1st pH 6.46	2nd pH 6.44	Stable pH 6.42	Ending pH 6.34
				1st Temp. 14.2	2nd Temp. 14.4	Stable Temp. 14.1	Ending Temp. 13.5
	Time	Bubbler Start	Bubbler End	Comments:			
	1435	12.617'	8.722'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-6-10	624	50.85'	50.90'	1st Cond. 4,110	2nd Cond. 4,980	Stable Cond. 5,200	Ending Cond. 5,250
				1st pH 6.70	2nd pH 6.74	Stable pH 6.67	Ending pH 6.58
				1st Temp. 11.0	2nd Temp. 11.1	Stable Temp. 11.3	Ending Temp. 11.7
	Time	Bubbler Start	Bubbler End	Comments:			
	0850	11.555'	11.654'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-6-10	SBL-1	50.40'	51.30'	1st Cond. 6,280	2nd Cond. 7,030	Stable Cond. 7,540	Ending Cond. 7,080
				1st pH 7.10	2nd pH 7.07	Stable pH 7.00	Ending pH 6.63
				1st Temp. 10.4	2nd Temp. 10.4	Stable Temp. 10.6	Ending Temp. 12.0
	Time	Bubbler Start	Bubbler End	Comments:			
	0925	4.363'	3.465'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-6-10	EPA-28	63.15'	63.60'	1st Cond. 3,980	2nd Cond. 4,260	Stable Cond. 4,710	Ending Cond. 4,880
				1st pH 7.23	2nd pH 7.23	Stable pH 7.20	Ending pH 6.82
				1st Temp. 10.7	2nd Temp. 10.6	Stable Temp. 10.8	Ending Temp. 12.1
	Time	Bubbler Start	Bubbler End	Comments:			
	1000	7.351'	6.849'				

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer			
7-Buffer			

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Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	EPA-28			1st Cond. 4,910	2nd Cond. 4,910	Stable Cond. 4,920	Ending Cond. 4,830
	DUPLICATE			1st pH 6.80	2nd pH 6.78	Stable pH 6.78	Ending pH 6.82
		63.60'	63.70'	1st Temp. 12.0	2nd Temp. 12.0	Stable Temp. 12.0	Ending Temp. 12.2
4-6-10	Time	Bubbler Start	Bubbler End	Comments:			
	1025	6.849'	6.809'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	GW-3			1st Cond. 4,710	2nd Cond. 5,110	Stable Cond. 5,240	Ending Cond. 5,520
				1st pH 6.76	2nd pH 6.78	Stable pH 6.78	Ending pH 6.64
		52.90'	55.00'	1st Temp. 11.3	2nd Temp. 11.4	Stable Temp. 11.4	Ending Temp. 12.0
4-6-10	Time	Bubbler Start	Bubbler End	Comments:			
	1115	2.716'	0.621'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	EPA-25			1st Cond. 3,220	2nd Cond. 3,480	Stable Cond. 3,730	Ending Cond. 4,290
				1st pH 7.18	2nd pH 7.15	Stable pH 7.09	Ending pH 6.80
		53.70'	53.85'	1st Temp. 11.9	2nd Temp. 11.8	Stable Temp. 12.0	Ending Temp. 12.7
4-6-10	Time	Bubbler Start	Bubbler End	Comments:			
	1150	7.246'	7.117'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	627			1st Cond. 4,000	2nd Cond. 4,320	Stable Cond. 4,630	Ending Cond. 4,780
				1st pH 7.06	2nd pH 7.03	Stable pH 6.98	Ending pH 6.91
		58.55'	58.65'	1st Temp. 12.9	2nd Temp. 12.9	Stable Temp. 12.8	Ending Temp. 13.0
4-6-10	Time	Bubbler Start	Bubbler End	Comments:			
	1240	4.117'	3.979'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	613			1st Cond. 9,080	2nd Cond. 9,190	Stable Cond. 9,320	Ending Cond. 9,550
				1st pH 3.04	2nd pH 3.03	Stable pH 3.06	Ending pH 2.87
		79.00'	80.10'	1st Temp. 11.5	2nd Temp. 11.6	Stable Temp. 11.6	Ending Temp. 12.4
4-6-10	Time	Bubbler Start	Bubbler End	Comments: Need to replace small rubber O-ring fitting seal on well cap for bubbler to function properly.			
	1330						

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	517			1st Cond. 3,910	2nd Cond. 4,770	Stable Cond. 5,000	Ending Cond. 5,070
				1st pH 2.76	2nd pH 2.76	Stable pH 2.76	Ending pH 2.78
		102.85'	108.55'	1st Temp. 12.4	2nd Temp. 12.4	Stable Temp. 12.4	Ending Temp. 12.4
4-6-10	Time	Bubbler Start	Bubbler End	Comments:			
	1405	3.911'	0.355'				

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	4.03	4-7-10/0842	rc
7-Buffer	7.04	4-7-10/0840	rc

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Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1450	4-7-10/0845	rc

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-6-10	EPA-14	119.30'	119.40'	1st Cond. 4,790	2nd Cond. 4,930	Stable Cond. 5,210	Ending Cond. 5,420
				1st pH 4.36	2nd pH 4.38	Stable pH 4.37	Ending pH 4.36
				1st Temp. 12.2	2nd Temp. 12.1	Stable Temp. 12.1	Ending Temp. 12.3
	Time 1455	Bubbler Start 1.113'	Bubbler End 1.172'	Comments: Need to check bubbler setup (i.e. transducer and line connections).			
Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-7-10	604	102.80'	103.45'	1st Cond. 3,780	2nd Cond. 5,550	Stable Cond. 5,970	Ending Cond. 6,380
				1st pH 5.26	2nd pH 5.28	Stable pH 5.30	Ending pH 5.32
				1st Temp. 10.1	2nd Temp. 10.1	Stable Temp. 10.2	Ending Temp. 10.5
	Time 0905	Bubbler Start 6.855'	Bubbler End 6.198'	Comments:			
Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-7-10	515-A	103.80'	109.05'	1st Cond. 3,640	2nd Cond. 6,770	Stable Cond. 7,000	Ending Cond. 7,330
				1st pH 5.89	2nd pH 6.21	Stable pH 6.23	Ending pH 6.26
				1st Temp. 9.9	2nd Temp. 10.5	Stable Temp. 10.8	Ending Temp. 10.8
	Time 0950	Bubbler Start 5.417'	Bubbler End 0.340	Comments:			
Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-7-10	614	103.70'	104.30'	1st Cond. 7,180	2nd Cond. 7,220	Stable Cond. 7,210	Ending Cond. 7,330
				1st pH 4.57	2nd pH 5.83	Stable pH 6.41	Ending pH 7.15
				1st Temp. 14.3	2nd Temp. 11.0	Stable Temp. 12.5	Ending Temp. 11.3
	Time 1050	Bubbler Start 2.895'	Bubbler End 2.230'	Comments:			
Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-7-10	FIELD BLANK			1st Cond. 13	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 8.47	2nd pH	Stable pH	Ending pH
				1st Temp. 12.4	2nd Temp.	Stable Temp.	Ending Temp.
	Time 1200	Bubbler Start	Bubbler End	Comments:			
Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond.	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH	2nd pH	Stable pH	Ending pH
				1st Temp.	2nd Temp.	Stable Temp.	Ending Temp.
	Time	Bubbler Start	Bubbler End	Comments:			

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	4.04	4-12-10/0856	[illegible]
7-Buffer	7.06	4-12-10/0855	[illegible]

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Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1460	4-12-10/0857	[illegible]

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 3,570	2nd Cond. 3,990	Stable Cond. 4,060	Ending Cond. 4,220
	EPA-4	206.30'	206.80'	1st pH 6.87	2nd pH 6.87	Stable pH 6.87	Ending pH 6.67
				1st Temp. 13.2	2nd Temp. 13.2	Stable Temp. 13.1	Ending Temp. 14.2
4-12-10	Time	Bubbler Start	Bubbler End	Comments:			
	0916	16.727'	16.364'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 3,650	2nd Cond. 3,960	Stable Cond. 4,120	Ending Cond. 4,250
	EPA-5	124.75'	125.37'	1st pH 5.69	2nd pH 5.67	Stable pH 5.52	Ending pH 6.03
				1st Temp. 14.3	2nd Temp. 14.1	Stable Temp. 14.0	Ending Temp. 14.7
4-12-10	Time	Bubbler Start	Bubbler End	Comments:			
	1007	6.189'	5.592'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 6,870	2nd Cond. 7,220	Stable Cond. 7,300	Ending Cond. 7,430
	EPA-7	114.55'	116.10'	1st pH 7.24	2nd pH 7.28	Stable pH 7.28	Ending pH 6.07
				1st Temp. 13.5	2nd Temp. 13.5	Stable Temp. 13.4	Ending Temp. 14.1
4-12-10	Time	Bubbler Start	Bubbler End	Comments:			
	1045	12.699'	11.025'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 2,160	2nd Cond. 2,610	Stable Cond. 2,810	Ending Cond. 2,980
	EPA-2	172.90'	173.75'	1st pH 6.89	2nd pH 6.94	Stable pH 6.93	Ending pH 6.76
				1st Temp. 15.6	2nd Temp. 15.1	Stable Temp. 15.0	Ending Temp. 14.4
4-12-10	Time	Bubbler Start	Bubbler End	Comments:			
	1125	6.688'	5.897'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 2,960	2nd Cond. 2,980	Stable Cond. 2,970	Ending Cond. 2,960
	EPA-2	173.75'	173.90'	1st pH 6.76	2nd pH 6.76	Stable pH 6.76	Ending pH 6.75
	DUPLICATE			1st Temp. 14.2	2nd Temp. 14.2	Stable Temp. 14.0	Ending Temp. 15.0
4-12-10	Time	Bubbler Start	Bubbler End	Comments:			
	1155	5.897'	5.782'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 4,330	2nd Cond. 4,720	Stable Cond. 4,900	Ending Cond. 4,880
	708	153.20'	154.20'	1st pH 2.85	2nd pH 2.85	Stable pH 2.85	Ending pH 3.77
				1st Temp. 15.0	2nd Temp. 15.0	Stable Temp. 14.7	Ending Temp. 14.8
4-12-10	Time	Bubbler Start	Bubbler End	Comments:			
	1235	5.386'	4.367'				

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	4.07	4-13-10/0819	[illegible]
7-Buffer	7.05	4-13-10/0815	[illegible]

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Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1459	4-13-10/0827	[illegible]

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	711			1st Cond. 3,650	2nd Cond. 4,050	Stable Cond. 4,390	Ending Cond. 4,220
				1st pH 3.11	2nd pH 3.11	Stable pH 3.11	Ending pH 4.70
		181.60'	182.55'	1st Temp. 16.1	2nd Temp. 15.9	Stable Temp. 15.4	Ending Temp. 15.5
4-12-10	Time	Bubbler Start	Bubbler End	Comments:			
	1315	10.583'	9.667'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	711			1st Cond. 4,300	2nd Cond. 4,700	Stable Cond. 4,310	Ending Cond. 4,220
	DUPLICATE			1st pH 4.27	2nd pH 4.28	Stable pH 4.71	Ending pH 4.88
		182.55'	183.05'	1st Temp. 16.7	2nd Temp. 16.7	Stable Temp. 15.3	Ending Temp. 15.3
4-12-10	Time	Bubbler Start	Bubbler End	Comments:			
	1355	9.667'	9.180'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	717			1st Cond. 4,790	2nd Cond. 5,080	Stable Cond. 5,340	Ending Cond. 5,500
				1st pH 4.30	2nd pH 4.30	Stable pH 4.30	Ending pH 4.20
		129.25'	129.30'	1st Temp. 16.2	2nd Temp. 15.9	Stable Temp. 15.9	Ending Temp. 15.7
4-12-10	Time	Bubbler Start	Bubbler End	Comments:			
	1440	2.408'	2.376'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	504-B			1st Cond.	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH	2nd pH	Stable pH	Ending pH
		168.05'		1st Temp.	2nd Temp.	Stable Temp.	Ending Temp.
4-13-10	Time	Bubbler Start	Bubbler End	Comments: No water sample was collected after purging and pumping the well for one hour and 45 minutes, possibly due to the very low water volume in well.			
	0900	0.470'					

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	EPA-13			1st Cond. 4,970	2nd Cond. 5,510	Stable Cond. 5,630	Ending Cond. 5,500
				1st pH 6.41	2nd pH 6.46	Stable pH 6.50	Ending pH 6.02
		167.00'	168.15'	1st Temp. 11.6	2nd Temp. 11.6	Stable Temp. 11.6	Ending Temp. 13.2
4-13-10	Time	Bubbler Start	Bubbler End	Comments:			
	1050	4.508'	3.369'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	719			1st Cond. 4,380	2nd Cond. 4,630	Stable Cond. 4,820	Ending Cond. 4,800
				1st pH 3.59	2nd pH 3.58	Stable pH 3.57	Ending pH 4.51
		167.00'	167.50'	1st Temp. 11.8	2nd Temp. 11.9	Stable Temp. 12.1	Ending Temp. 13.5
4-13-10	Time	Bubbler Start	Bubbler End	Comments:			
	1125	0.378'	0.422'				

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer			
7-Buffer			

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GROUND WATER MONITORING FIELD DATA SHEET
Second QUARTER **2010**
SAMPLING

Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 3,100	2nd Cond. 3,190	Stable Cond. 3,290	Ending Cond. 3,350
	420			1st pH 7.32	2nd pH 7.39	Stable pH 7.45	Ending pH 6.69
		149.10'	149.85'	1st Temp. 12.1	2nd Temp. 12.1	Stable Temp. 12.0	Ending Temp. 13.1
4-13-10	Time	Bubbler Start	Bubbler End	Comments:			
	1210	5.490'	4.645'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 1,580	2nd Cond. 1,641	Stable Cond. 1,664	Ending Cond. 1,723
	TWQ-142			1st pH 7.66	2nd pH 7.66	Stable pH 7.66	Ending pH 7.96
		201.00'	201.85'	1st Temp. 13.1	2nd Temp. 13.1	Stable Temp. 13.2	Ending Temp. 13.6
4-13-10	Time	Bubbler Start	Bubbler End	Comments:			
	1300	19.806'	19.067'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 2,580	2nd Cond. 3,990	Stable Cond. 4,050	Ending Cond. 4,000
	NBL-1			1st pH 3.60	2nd pH 3.61	Stable pH 3.57	Ending pH 5.40
		184.85'	185.00'	1st Temp. 13.7	2nd Temp. 13.7	Stable Temp. 13.7	Ending Temp. 14.4
4-13-10	Time	Bubbler Start	Bubbler End	Comments:			
	1345	7.179'	7.088'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 46	2nd Cond.	Stable Cond.	Ending Cond.
	FIELD			1st pH 5.78	2nd pH	Stable pH	Ending pH
	BLANK			1st Temp. 23.1	2nd Temp.	Stable Temp.	Ending Temp.
4-13-10	Time	Bubbler Start	Bubbler End	Comments:			
	1630						

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond.	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH	2nd pH	Stable pH	Ending pH
				1st Temp.	2nd Temp.	Stable Temp.	Ending Temp.
	Time	Bubbler Start	Bubbler End	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond.	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH	2nd pH	Stable pH	Ending pH
				1st Temp.	2nd Temp.	Stable Temp.	Ending Temp.
	Time	Bubbler Start	Bubbler End	Comments:			

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	4.07	4-13-10/0819	[illegible]
7-Buffer	7.05	4-13-10/0815	[illegible]

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Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1459	4-13-10/0827	[illegible]

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-13-10	NBL-2	158.65'	159.00'	1st Cond. 2,900	2nd Cond. 3,000	Stable Cond. 3,300	Ending Cond. 3,500
	Time	Bubbler Start	Bubbler End	1st pH 6.58	2nd pH 6.62	Stable pH 6.65	Ending pH 6.67
	1245	4.785'	4.572'	1st Temp. 12.8	2nd Temp. 13.0	Stable Temp. 12.8	Ending Temp. 13.0
				Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-13-10	PB-3	182.45'	182.55'	1st Cond. 3,420	2nd Cond. 3,440	Stable Cond. 3,450	Ending Cond. 3,490
	Time	Bubbler Start	Bubbler End	1st pH 6.55	2nd pH 6.58	Stable pH 6.61	Ending pH 6.38
	1430			1st Temp. 13.7	2nd Temp. 13.5	Stable Temp. 13.6	Ending Temp. 15.5
				Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-13-10	PB-4	181.90'		1st Cond. 3,860	2nd Cond. 3,930	Stable Cond. 4,410	Ending Cond. 4,410
	Time	Bubbler Start	Bubbler End	1st pH 2.97	2nd pH 2.97	Stable pH 2.95	Ending pH 2.95
	1510			1st Temp. 14.5	2nd Temp. 14.2	Stable Temp. 14.1	Ending Temp. 14.1
				Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-13-10	PB-2	182.35'		1st Cond. 4,680	2nd Cond.	Stable Cond.	Ending Cond.
	Time	Bubbler Start	Bubbler End	1st pH 5.42	2nd pH	Stable pH	Ending pH
	1545			1st Temp. 20.2	2nd Temp.	Stable Temp.	Ending Temp.
				Comments: Pumping well.			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-14-10	NW-2	185.55'		1st Cond. 3,930	2nd Cond.	Stable Cond.	Ending Cond.
	Time	Bubbler Start	Bubbler End	1st pH 5.96	2nd pH	Stable pH	Ending pH
	0842			1st Temp. 22.9	2nd Temp.	Stable Temp.	Ending Temp.
				Comments: Pumping well.			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-14-10	NW-4	186.85'		1st Cond. 4,260	2nd Cond.	Stable Cond.	Ending Cond.
	Time	Bubbler Start	Bubbler End	1st pH 5.76	2nd pH	Stable pH	Ending pH
	0900			1st Temp. 15.1	2nd Temp.	Stable Temp.	Ending Temp.
				Comments: Pumping well.			

PH Standard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	4.08	4-14-10/0831	rc
7-Buffer	6.88	4-14-10/0830	rc

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Cond. Standard Verification Check

STD.	µS/cm Reading	Date/Time	Initial
1413 µS/cm	1570	4-14-10/0832	rc

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	NW-1			1st Cond. 4,560	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 5.72	2nd pH	Stable pH	Ending pH
		196.30'		1st Temp. 11.2	2nd Temp.	Stable Temp.	Ending Temp.
4-14-10	Time 0920	Bubbler Start	Bubbler End	Comments: Pumping well.			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	NW-5			1st Cond. 3,960	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 6.32	2nd pH	Stable pH	Ending pH
		178.70'		1st Temp. 14.6	2nd Temp.	Stable Temp.	Ending Temp.
4-14-10	Time 0940	Bubbler Start	Bubbler End	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	NW-3			1st Cond. 3,950	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 6.22	2nd pH	Stable pH	Ending pH
		179.00'		1st Temp. 14.3	2nd Temp.	Stable Temp.	Ending Temp.
4-14-10	Time 0955	Bubbler Start	Bubbler End	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	RW-A			1st Cond. 4,080	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 6.10	2nd pH	Stable pH	Ending pH
		172.10'		1st Temp. 15.0	2nd Temp.	Stable Temp.	Ending Temp.
4-14-10	Time 1045	Bubbler Start	Bubbler End	Comments: Pumping well.			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond.	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH	2nd pH	Stable pH	Ending pH
				1st Temp.	2nd Temp.	Stable Temp.	Ending Temp.
	Time	Bubbler Start	Bubbler End	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond.	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH	2nd pH	Stable pH	Ending pH
				1st Temp.	2nd Temp.	Stable Temp.	Ending Temp.
	Time	Bubbler Start	Bubbler End	Comments:			

APPENDIX B

QUARTERLY SAMPLING

SEMI-ANNUAL GROUND WATER MONITORING REPORT

JANUARY AND APRIL OF 2010

QA/QC CONTROLS

FIELD BLANKS

EPA-28 AND EPA-28 DUPLICATE FOR SW ALLUVIUM

EPA – 2 AND EPA – 2 DUPLICATE FOR ZONE – 1

711 AND 711 DUPLICATE FOR ZONE - 3

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 1
Lab ID: C10010247-004
Client Sample ID: Field Blank

Report Date: 02/04/10
Collection Date: 01/06/10 12:30
DateReceived: 01/08/10
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	7	mg/L		5		A2320 B	01/12/10 19:12 / ljl
Calcium	ND	mg/L		1		E200.7	01/11/10 19:58 / cp
Chloride	ND	mg/L		1		A4500-Cl B	01/15/10 14:36 / dvg
Magnesium	ND	mg/L		1		E200.7	01/11/10 19:58 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	01/25/10 12:15 / jal
Nitrogen, Nitrate+Nitrite as N	0.47	mg/L		0.10		E353.2	01/21/10 13:38 / jal
Potassium	ND	mg/L		1		E200.7	01/11/10 19:58 / cp
Sodium	1	mg/L		1		E200.7	01/11/10 19:58 / cp
Sulfate	2	mg/L		1		A4500-SO4 E	01/12/10 10:56 / lr
PHYSICAL PROPERTIES							
pH	7.1	s.u.		0.010		A4500-H B	01/11/10 11:04 / lr
Solids, Total Dissolved TDS @ 180 C	ND	mg/L		10		A2540 C	01/11/10 09:53 / lr
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	01/16/10 03:53 / sml
Beryllium	ND	mg/L		0.01		E200.8	01/16/10 03:53 / sml
Cadmium	ND	mg/L		0.005		E200.8	01/16/10 03:53 / sml
Cobalt	ND	mg/L		0.01		E200.8	01/16/10 03:53 / sml
Lead	ND	mg/L		0.05		E200.8	01/16/10 03:53 / sml
Manganese	ND	mg/L		0.01		E200.8	01/16/10 03:53 / sml
Molybdenum	ND	mg/L		0.1		E200.8	01/16/10 03:53 / sml
Nickel	ND	mg/L		0.05		E200.8	01/16/10 03:53 / sml
Uranium	ND	mg/L		0.0003		E200.8	01/16/10 03:53 / sml
Vanadium	ND	mg/L		0.1		E200.8	01/16/10 03:53 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		E1632AM	01/28/10 15:04 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	01/12/10 14:17 / jp
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	0.2	pCi/L	U			E900.1	01/26/10 15:23 / cgr
Gross Alpha minus Rn & U Precision (±)	0.4	pCi/L				E900.1	01/26/10 15:23 / cgr
Gross Alpha minus Rn & U MDC	0.6	pCi/L				E900.1	01/26/10 15:23 / cgr
Lead 210	0.1	pCi/L	U			E909.0M	01/25/10 09:40 / dm
Lead 210 precision (±)	2.4	pCi/L				E909.0M	01/25/10 09:40 / dm
Lead 210 MDC	4.1	pCi/L				E909.0M	01/25/10 09:40 / dm
Radium 226	-0.1	pCi/L	U			E903.0	02/01/10 22:58 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	02/01/10 22:58 / trs
Radium 226 MDC	0.17	pCi/L				E903.0	02/01/10 22:58 / trs
Radium 228	0.49	pCi/L	U			RA-05	01/27/10 12:05 / plj
Radium 228 precision (±)	0.71	pCi/L				RA-05	01/27/10 12:05 / plj
Radium 228 MDC	1.2	pCi/L				RA-05	01/27/10 12:05 / plj

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

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corp
Project: Zone 1
Lab ID: C10010247-004
Client Sample ID: Field Blank

Report Date: 02/04/10
Collection Date: 01/06/10 12:30
DateReceived: 01/08/10
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.005	pCi/L	U			E907.0	01/13/10 09:13 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E907.0	01/13/10 09:13 / dmf
Thorium 230 MDC	0.2	pCi/L				E907.0	01/13/10 09:13 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-42.1	%				Calculation	01/18/10 10:22 / kbh
Anions	0.158	meq/L				Calculation	01/18/10 10:22 / kbh
Cations	0.0645	meq/L				Calculation	01/18/10 10:22 / kbh
- The ion balance is not appropriate for samples having a conductivity less than 300 umhos/cm.							
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	0.53	ug/L		0.50		E624	01/13/10 16:06 / jlr
Bromoform	0.89	ug/L		0.50		E624	01/13/10 16:06 / jlr
Chlorodibromomethane	1.07	ug/L		0.50		E624	01/13/10 16:06 / jlr
Chloroform	ND	ug/L		0.50		E624	01/13/10 16:06 / jlr
Trihalomethanes, Total	2.49	ug/L		0.50		E624	01/13/10 16:06 / jlr
Surr: 1,2-Dichlorobenzene-d4	118	%REC		80-120		E624	01/13/10 16:06 / jlr
Surr: Dibromofluoromethane	106	%REC		80-120		E624	01/13/10 16:06 / jlr
Surr: p-Bromofluorobenzene	111	%REC		80-120		E624	01/13/10 16:06 / jlr
Surr: Toluene-d8	99.0	%REC		80-120		E624	01/13/10 16:06 / jlr

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

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Zone 1
Lab ID: C10010509-008
Client Sample ID: Field Blank

Report Date: 02/23/10
Collection Date: 01/12/10 16:00
DateReceived: 01/15/10
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	ND	mg/L		5		A2320 B	01/19/10 18:51 / dvg
Calcium	ND	mg/L		1		E200.7	02/03/10 19:04 / cp
Chloride	ND	mg/L		1		A4500-Cl B	01/27/10 11:06 / dvg
Magnesium	ND	mg/L		1		E200.7	02/03/10 19:04 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	01/26/10 14:40 / jal
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.10		E353.2	01/21/10 15:46 / jal
Potassium	ND	mg/L		1		E200.7	02/03/10 19:04 / cp
Sodium	1	mg/L		1		E200.7	02/03/10 19:04 / cp
Sulfate	ND	mg/L		1		A4500-SO4 E	02/01/10 16:12 / dvg
PHYSICAL PROPERTIES							
pH	6.62	s.u.		0.01		A4500-H B	01/18/10 10:34 / lr
Solids, Total Dissolved TDS @ 180 C	24	mg/L		10		A2540 C	01/18/10 11:27 / lr
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	01/29/10 19:17 / ts
Beryllium	ND	mg/L		0.01		E200.8	01/29/10 19:17 / ts
Cadmium	ND	mg/L		0.005		E200.8	01/20/10 03:29 / sml
Cobalt	ND	mg/L		0.01		E200.8	01/20/10 03:29 / sml
Lead	ND	mg/L		0.05		E200.8	01/20/10 03:29 / sml
Manganese	ND	mg/L		0.01		E200.8	01/20/10 03:29 / sml
Molybdenum	ND	mg/L		0.1		E200.8	01/20/10 03:29 / sml
Nickel	ND	mg/L		0.05		E200.8	01/20/10 03:29 / sml
Uranium	ND	mg/L		0.0003		E200.8	01/20/10 03:29 / sml
Vanadium	ND	mg/L		0.1		E200.8	01/20/10 03:29 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L	H	0.001		E1632AM	02/12/10 11:15 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	01/21/10 11:54 / jp
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	0.2	pCi/L	U			E900.1	02/17/10 16:06 / cgr
Gross Alpha minus Rn & U Precision (±)	0.3	pCi/L				E900.1	02/17/10 16:06 / cgr
Gross Alpha minus Rn & U MDC	0.4	pCi/L				E900.1	02/17/10 16:06 / cgr
Lead 210	0.8	pCi/L	U			E909.0M	01/27/10 07:45 / dm
Lead 210 precision (±)	2.4	pCi/L				E909.0M	01/27/10 07:45 / dm
Lead 210 MDC	3.9	pCi/L				E909.0M	01/27/10 07:45 / dm
Radium 226	-0.02	pCi/L	U			E903.0	02/08/10 23:24 / jah
Radium 226 precision (±)	0.09	pCi/L				E903.0	02/08/10 23:24 / jah
Radium 226 MDC	0.17	pCi/L				E903.0	02/08/10 23:24 / jah
Radium 228	1.0	pCi/L	U			RA-05	02/03/10 13:21 / plj
Radium 228 precision (±)	0.77	pCi/L				RA-05	02/03/10 13:21 / plj
Radium 228 MDC	1.2	pCi/L				RA-05	02/03/10 13:21 / plj

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Zone 1
Lab ID: C10010509-008
Client Sample ID: Field Blank

Report Date: 02/23/10
Collection Date: 01/12/10 16:00
DateReceived: 01/15/10
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.006	pCi/L	U			E907.0	01/22/10 08:59 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E907.0	01/22/10 08:59 / dmf
Thorium 230 MDC	0.2	pCi/L				E907.0	01/22/10 08:59 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-23.4	%				Calculation	02/05/10 12:07 / kbh
Anions	0.0750	meq/L				Calculation	02/05/10 12:07 / kbh
Cations	0.0465	meq/L				Calculation	02/05/10 12:07 / kbh
- The ion balance is not appropriate for samples having a conductivity less than 300 umhos/cm.							
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/18/10 22:38 / jlr
Bromoform	0.80	ug/L		0.50		E624	01/18/10 22:38 / jlr
Chlorodibromomethane	0.85	ug/L		0.50		E624	01/18/10 22:38 / jlr
Chloroform	0.70	ug/L		0.50		E624	01/18/10 22:38 / jlr
Trihalomethanes, Total	2.34	ug/L		0.50		E624	01/18/10 22:38 / jlr
Surr: 1,2-Dichlorobenzene-d4	116	%REC		80-120		E624	01/18/10 22:38 / jlr
Surr: Dibromofluoromethane	102	%REC		80-120		E624	01/18/10 22:38 / jlr
Surr: p-Bromofluorobenzene	108	%REC		80-120		E624	01/18/10 22:38 / jlr
Surr: Toluene-d8	99.0	%REC		80-120		E624	01/18/10 22:38 / jlr

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

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Zone 1 (517- Zone 3)
Lab ID: C10040365-005
Client Sample ID: Field Blank

Report Date: 05/10/10
Collection Date: 04/07/10 12:00
DateReceived: 04/12/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	7	mg/L		5		A2320 B	04/13/10 17:59 / dvg
Calcium	ND	mg/L		1		E200.7	04/19/10 14:26 / cp
Chloride	ND	mg/L		1		A4500-Cl B	04/13/10 16:37 / dvg
Magnesium	ND	mg/L		1		E200.7	04/15/10 19:12 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	04/19/10 16:50 / ljl
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/23/10 16:48 / ljl
Potassium	ND	mg/L		1		E200.7	04/19/10 14:26 / cp
Sodium	2	mg/L		1		E200.7	04/19/10 14:26 / cp
Sulfate	ND	mg/L		1		A4500-SO4 E	04/30/10 13:27 / dvg
PHYSICAL PROPERTIES							
pH	6.94	s.u.		0.01		A4500-H B	04/12/10 16:08 / lr
Solids, Total Dissolved TDS @ 180 C	ND	mg/L		10		A2540 C	04/13/10 11:22 / lr
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	04/16/10 19:29 / ts
Beryllium	ND	mg/L		0.01		E200.8	04/15/10 19:32 / sml
Cadmium	ND	mg/L		0.005		E200.8	04/13/10 20:54 / ts
Cobalt	ND	mg/L		0.01		E200.8	04/15/10 19:32 / sml
Lead	ND	mg/L		0.05		E200.8	04/13/10 20:54 / ts
Manganese	ND	mg/L		0.01		E200.8	04/15/10 19:32 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/13/10 20:54 / ts
Nickel	ND	mg/L		0.05		E200.8	04/13/10 20:54 / ts
Uranium	ND	mg/L		0.0003		E200.8	04/13/10 20:54 / ts
Vanadium	ND	mg/L		0.1		E200.8	04/15/10 19:32 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		E1632AM	04/20/10 12:19 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/14/10 14:10 / jp
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	0.2	pCi/L	U			E900.1	04/16/10 17:11 / cgr
Gross Alpha minus Rn & U Precision (±)	0.4	pCi/L				E900.1	04/16/10 17:11 / cgr
Gross Alpha minus Rn & U MDC	0.6	pCi/L				E900.1	04/16/10 17:11 / cgr
Lead 210	-0.9	pCi/L	U			E909.0M	04/26/10 21:18 / dm
Lead 210 precision (±)	2.0	pCi/L				E909.0M	04/26/10 21:18 / dm
Lead 210 MDC	3.4	pCi/L				E909.0M	04/26/10 21:18 / dm
Radium 226	-0.02	pCi/L	U			E903.0	04/25/10 22:49 / plj
Radium 226 precision (±)	0.1	pCi/L				E903.0	04/25/10 22:49 / plj
Radium 226 MDC	0.18	pCi/L				E903.0	04/25/10 22:49 / plj
Radium 228	-0.06	pCi/L	U			RA-05	04/20/10 14:20 / plj
Radium 228 precision (±)	0.73	pCi/L				RA-05	04/20/10 14:20 / plj
Radium 228 MDC	1.2	pCi/L				RA-05	04/20/10 14:20 / plj

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

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Zone 1 (517- Zone 3)
Lab ID: C10040365-005
Client Sample ID: Field Blank

Report Date: 05/10/10
Collection Date: 04/07/10 12:00
DateReceived: 04/12/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	-0.03	pCi/L	U			E907.0	04/16/10 08:43 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E907.0	04/16/10 08:43 / dmf
Thorium 230 MDC	0.2	pCi/L				E907.0	04/16/10 08:43 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-2.45	%				Calculation	05/03/10 07:47 / kbh
Anions	0.124	meq/L				Calculation	05/03/10 07:47 / kbh
Cations	0.118	meq/L				Calculation	05/03/10 07:47 / kbh
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	0.50	ug/L		0.50		E624	04/15/10 22:18 / jlr
Bromoform	0.56	ug/L		0.50		E624	04/15/10 22:18 / jlr
Chlorodibromomethane	0.64	ug/L		0.50		E624	04/15/10 22:18 / jlr
Chloroform	ND	ug/L		0.50		E624	04/15/10 22:18 / jlr
Trihalomethanes, Total	2.17	ug/L		0.50		E624	04/15/10 22:18 / jlr
Surr: 1,2-Dichlorobenzene-d4	102	%REC		80-120		E624	04/15/10 22:18 / jlr
Surr: Dibromofluoromethane	100	%REC		80-120		E624	04/15/10 22:18 / jlr
Surr: p-Bromofluorobenzene	86.0	%REC		80-120		E624	04/15/10 22:18 / jlr
Surr: Toluene-d8	88.0	%REC		80-120		E624	04/15/10 22:18 / jlr

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

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Zone 3
Lab ID: C10040571-004
Client Sample ID: Field Blank

Report Date: 05/25/10
Collection Date: 04/13/10 16:30
DateReceived: 04/16/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	7	mg/L		5		A2320 B	04/24/10 19:19 / dvg
Calcium	ND	mg/L		1		E200.7	04/27/10 16:09 / cp
Chloride	ND	mg/L		1		A4500-Cl B	05/03/10 13:29 / dvg
Magnesium	ND	mg/L		1		E200.7	04/27/10 16:09 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	04/27/10 15:41 / ljl
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/24/10 17:26 / ljl
Potassium	ND	mg/L		1		E200.7	04/27/10 16:09 / cp
Sodium	3	mg/L		1		E200.7	04/27/10 16:09 / cp
Sulfate	1	mg/L		1		A4500-SO4 E	05/03/10 13:12 / ljl
PHYSICAL PROPERTIES							
pH	7.05	s.u.		0.01		A4500-H B	04/19/10 09:04 / lr
Solids, Total Dissolved TDS @ 180 C	ND	mg/L		10		A2540 C	04/19/10 09:19 / lr
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	04/22/10 17:32 / sml
Beryllium	ND	mg/L		0.01		E200.8	04/22/10 17:32 / sml
Cadmium	ND	mg/L		0.005		E200.8	04/22/10 17:32 / sml
Cobalt	ND	mg/L		0.01		E200.8	04/22/10 17:32 / sml
Lead	ND	mg/L		0.05		E200.8	04/22/10 17:32 / sml
Manganese	ND	mg/L		0.01		E200.8	04/22/10 17:32 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/22/10 17:32 / sml
Nickel	ND	mg/L		0.05		E200.8	04/22/10 17:32 / sml
Uranium	ND	mg/L		0.0003		E200.8	04/22/10 17:32 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/22/10 17:32 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		E1632AM	04/22/10 12:42 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/19/10 11:29 / jp
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	-0.04	pCi/L	U			E900.1	05/03/10 12:54 / cgr
Gross Alpha minus Rn & U Precision (±)	0.3	pCi/L				E900.1	05/03/10 12:54 / cgr
Gross Alpha minus Rn & U MDC	0.5	pCi/L				E900.1	05/03/10 12:54 / cgr
Lead 210	-0.01	pCi/L	U			E909.0M	05/15/10 00:12 / dm
Lead 210 precision (±)	1.6	pCi/L				E909.0M	05/15/10 00:12 / dm
Lead 210 MDC	2.7	pCi/L				E909.0M	05/15/10 00:12 / dm
Radium 226	-0.1	pCi/L	U			E903.0	05/03/10 12:41 / jah
Radium 226 precision (±)	0.07	pCi/L				E903.0	05/03/10 12:41 / jah
Radium 226 MDC	0.18	pCi/L				E903.0	05/03/10 12:41 / jah
Radium 228	-0.2	pCi/L	U			RA-05	04/28/10 14:29 / plj
Radium 228 precision (±)	0.88	pCi/L				RA-05	04/28/10 14:29 / plj
Radium 228 MDC	1.5	pCi/L				RA-05	04/28/10 14:29 / plj

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

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Zone 3
Lab ID: C10040571-004
Client Sample ID: Field Blank

Report Date: 05/25/10
Collection Date: 04/13/10 16:30
DateReceived: 04/16/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.06	pCi/L	U			E907.0	04/22/10 09:11 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E907.0	04/22/10 09:11 / dmf
Thorium 230 MDC	0.1	pCi/L				E907.0	04/22/10 09:11 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-6.32	%				Calculation	05/04/10 09:37 / kbh
Anions	0.137	meq/L				Calculation	05/04/10 09:37 / kbh
Cations	0.121	meq/L				Calculation	05/04/10 09:37 / kbh
- The ion balance is not appropriate for samples having a conductivity less than 300 umhos/cm.							
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/20/10 03:41 / wen
Bromoform	0.60	ug/L		0.50		E624	04/20/10 03:41 / wen
Chlorodibromomethane	0.66	ug/L		0.50		E624	04/20/10 03:41 / wen
Chloroform	0.58	ug/L		0.50		E624	04/20/10 03:41 / wen
Trihalomethanes, Total	1.84	ug/L		0.50		E624	04/20/10 03:41 / wen
Surr: 1,2-Dichlorobenzene-d4	108	%REC		80-120		E624	04/20/10 03:41 / wen
Surr: Dibromofluoromethane	114	%REC		80-120		E624	04/20/10 03:41 / wen
Surr: p-Bromofluorobenzene	114	%REC		80-120		E624	04/20/10 03:41 / wen
Surr: Toluene-d8	104	%REC		80-120		E624	04/20/10 03:41 / wen

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

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Alluvium
Lab ID: C10010243-013
Client Sample ID: EPA-28 Duplicate

Report Date: 02/23/10
Collection Date: 01/05/10 11:04
DateReceived: 01/08/10
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	742	mg/L		5		A2320 B	01/12/10 17:34 / ljl
Calcium	549	mg/L	D	2		E200.7	01/11/10 18:25 / cp
Chloride	124	mg/L		1		A4500-Cl B	01/15/10 13:21 / dvg
Magnesium	464	mg/L		1		E200.7	01/11/10 18:25 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	01/22/10 12:32 / jal
Nitrogen, Nitrate+Nitrite as N	31	mg/L	D	2		E353.2	01/19/10 15:26 / jal
Potassium	11	mg/L		1		E200.7	01/11/10 18:25 / cp
Sodium	236	mg/L		1		E200.7	01/11/10 18:25 / cp
Sulfate	3070	mg/L	D	60		A4500-SO4 E	01/12/10 10:17 / lr
PHYSICAL PROPERTIES							
pH	7.06	s.u.		0.01		A4500-H B	01/11/10 09:51 / lr
Solids, Total Dissolved TDS @ 180 C	5160	mg/L	D	10		A2540 C	01/11/10 09:49 / lr
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	01/16/10 02:47 / sml
Beryllium	ND	mg/L		0.01		E200.8	01/16/10 02:47 / sml
Cadmium	ND	mg/L		0.005		E200.8	01/16/10 02:47 / sml
Cobalt	ND	mg/L		0.01		E200.8	01/16/10 02:47 / sml
Lead	ND	mg/L		0.05		E200.8	01/16/10 02:47 / sml
Manganese	0.56	mg/L		0.01		E200.8	01/16/10 02:47 / sml
Molybdenum	ND	mg/L		0.1		E200.8	01/16/10 02:47 / sml
Nickel	ND	mg/L		0.05		E200.8	01/16/10 02:47 / sml
Uranium	0.0392	mg/L		0.0003		E200.8	01/16/10 02:47 / sml
Vanadium	ND	mg/L		0.1		E200.8	01/16/10 02:47 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		E1632AM	01/28/10 14:07 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	01/12/10 13:58 / jp
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	0.9	pCi/L				E900.1	01/19/10 14:16 / cgr
Gross Alpha minus Rn & U Precision (±)	0.4	pCi/L				E900.1	01/19/10 14:16 / cgr
Gross Alpha minus Rn & U MDC	0.5	pCi/L				E900.1	01/19/10 14:16 / cgr
Lead 210	-0.2	pCi/L	U			E909.0M	01/22/10 08:45 / dm
Lead 210 precision (±)	2.3	pCi/L				E909.0M	01/22/10 08:45 / dm
Lead 210 MDC	3.8	pCi/L				E909.0M	01/22/10 08:45 / dm
Radium 226	0.15	pCi/L	U			E903.0	02/01/10 21:23 / trs
Radium 226 precision (±)	0.13	pCi/L				E903.0	02/01/10 21:23 / trs
Radium 226 MDC	0.18	pCi/L				E903.0	02/01/10 21:23 / trs
Radium 228	1.5	pCi/L				RA-05	01/27/10 12:05 / plj
Radium 228 precision (±)	0.81	pCi/L				RA-05	01/27/10 12:05 / plj
Radium 228 MDC	1.2	pCi/L				RA-05	01/27/10 12:05 / plj

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

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Alluvium
Lab ID: C10010243-013
Client Sample ID: EPA-28 Duplicate

Report Date: 02/23/10
Collection Date: 01/05/10 11:04
DateReceived: 01/08/10
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	-0.05	pCi/L	U			E907.0	01/14/10 09:08 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E907.0	01/14/10 09:08 / dmf
Thorium 230 MDC	0.2	pCi/L				E907.0	01/14/10 09:08 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-2.12	%				Calculation	01/18/10 09:23 / kbh
Anions	79.5	meq/L				Calculation	01/18/10 09:23 / kbh
Cations	76.2	meq/L				Calculation	01/18/10 09:23 / kbh
Solids, Total Dissolved Calculated	4820	mg/L				Calculation	01/18/10 09:23 / kbh
TDS Balance (0.80 - 1.20)	1.07					Calculation	01/18/10 09:23 / kbh
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/12/10 03:18 / jlr
Bromoform	ND	ug/L		0.50		E624	01/12/10 03:18 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/12/10 03:18 / jlr
Chloroform	ND	ug/L		0.50		E624	01/12/10 03:18 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	01/12/10 03:18 / jlr
Surr: 1,2-Dichlorobenzene-d4	118	%REC		80-120		E624	01/12/10 03:18 / jlr
Surr: Dibromofluoromethane	107	%REC		80-120		E624	01/12/10 03:18 / jlr
Surr: p-Bromofluorobenzene	104	%REC		80-120		E624	01/12/10 03:18 / jlr
Surr: Toluene-d8	100	%REC		80-120		E624	01/12/10 03:18 / jlr

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

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Alluvium
Lab ID: C10040364-013
Client Sample ID: EPA-28 Duplicate

Report Date: 05/10/10
Collection Date: 04/06/10 10:25
DateReceived: 04/12/10
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	770	mg/L		5		A2320 B	04/15/10 16:07 / dvg
Calcium	540	mg/L	D	2		E200.7	05/03/10 15:05 / cp
Chloride	121	mg/L		1		A4500-Cl B	05/03/10 13:04 / dvg
Magnesium	487	mg/L		1		E200.7	05/03/10 15:05 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	04/19/10 16:22 / ljl
Nitrogen, Nitrate+Nitrite as N	28.6	mg/L	D	0.8		E353.2	04/21/10 22:20 / ljl
Potassium	12	mg/L		1		E200.7	05/03/10 15:05 / cp
Sodium	233	mg/L	D	3		E200.7	05/03/10 15:05 / cp
Sulfate	2980	mg/L	D	60		A4500-SO4 E	04/30/10 17:05 / dvg
PHYSICAL PROPERTIES							
pH	7.06	s.u.		0.01		A4500-H B	04/12/10 15:19 / lr
Solids, Total Dissolved TDS @ 180 C	5150	mg/L	D	14		A2540 C	04/13/10 11:20 / lr
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	04/13/10 18:32 / ts
Beryllium	ND	mg/L		0.01		E200.8	04/13/10 18:32 / ts
Cadmium	ND	mg/L		0.005		E200.8	04/13/10 18:32 / ts
Cobalt	ND	mg/L		0.01		E200.8	04/13/10 18:32 / ts
Lead	ND	mg/L		0.05		E200.8	04/13/10 18:32 / ts
Manganese	0.57	mg/L		0.01		E200.8	04/13/10 18:32 / ts
Molybdenum	ND	mg/L		0.1		E200.8	04/13/10 18:32 / ts
Nickel	ND	mg/L		0.05		E200.8	04/13/10 18:32 / ts
Uranium	0.0416	mg/L		0.0003		E200.8	04/13/10 18:32 / ts
Vanadium	ND	mg/L		0.1		E200.8	04/13/10 18:32 / ts
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		E1632AM	04/20/10 13:47 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/14/10 12:59 / jp
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	0.3	pCi/L	U			E900.1	04/26/10 12:24 / cgr
Gross Alpha minus Rn & U Precision (±)	0.4	pCi/L				E900.1	04/26/10 12:24 / cgr
Gross Alpha minus Rn & U MDC	0.5	pCi/L				E900.1	04/26/10 12:24 / cgr
Lead 210	2.1	pCi/L	U			E909.0M	04/28/10 09:20 / dm
Lead 210 precision (±)	1.9	pCi/L				E909.0M	04/28/10 09:20 / dm
Lead 210 MDC	3.1	pCi/L				E909.0M	04/28/10 09:20 / dm
Radium 226	0.53	pCi/L				E903.0	04/25/10 23:08 / trs
Radium 226 precision (±)	0.14	pCi/L				E903.0	04/25/10 23:08 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	04/25/10 23:08 / trs
Radium 228	1.6	pCi/L				RA-05	04/20/10 12:11 / trs
Radium 228 precision (±)	0.65	pCi/L				RA-05	04/20/10 12:11 / trs
Radium 228 MDC	0.97	pCi/L				RA-05	04/20/10 12:11 / trs

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

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Alluvium
Lab ID: C10040364-013
Client Sample ID: EPA-28 Duplicate

Report Date: 05/10/10
Collection Date: 04/06/10 10:25
DateReceived: 04/12/10
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	-0.02	pCi/L	U			E907.0	04/16/10 13:03 / ep
Thorium 230 precision (±)	0.05	pCi/L				E907.0	04/16/10 13:03 / ep
Thorium 230 MDC	0.1	pCi/L				E907.0	04/16/10 13:03 / ep
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-1.76	%				Calculation	05/04/10 07:56 / kbh
Anions	80.2	meq/L				Calculation	05/04/10 07:56 / kbh
Cations	77.4	meq/L				Calculation	05/04/10 07:56 / kbh
Solids, Total Dissolved Calculated	4900	mg/L				Calculation	05/04/10 07:56 / kbh
TDS Balance (0.80 - 1.20)	1.05					Calculation	05/04/10 07:56 / kbh
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/14/10 02:51 / jlr
Bromoform	ND	ug/L		0.50		E624	04/14/10 02:51 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	04/14/10 02:51 / jlr
Chloroform	ND	ug/L		0.50		E624	04/14/10 02:51 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	04/14/10 02:51 / jlr
Surr: 1,2-Dichlorobenzene-d4	99.0	%REC		80-120		E624	04/14/10 02:51 / jlr
Surr: Dibromofluoromethane	101	%REC		80-120		E624	04/14/10 02:51 / jlr
Surr: p-Bromofluorobenzene	87.0	%REC		80-120		E624	04/14/10 02:51 / jlr
Surr: Toluene-d8	91.0	%REC		80-120		E624	04/14/10 02:51 / jlr

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

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UNC Mining and Milling ChurchRock Operations
GroundWater Monitoring Summary: Alluvium Monitor Wells

Well ID:		EPA-28 Duplicate	EPA-28 Duplicate	EPA-28 Duplicate	EPA-28 Duplicate
Collection Date:		4/6/2010	1/5/2010	10/5/2009	7/7/2009
Receive Date:		4/12/2010	1/8/2010	10/9/2009	7/10/2009
Report Date:		5/10/2010	2/24/2010	11/19/2009	8/25/2009
Analyte	Units	C10040364-013	C10010243-013	C09100421-009	C09070417-013
Bicarbonate as HCO3	mg/L	770	742	707	670
Calcium	mg/L	540	549	514	518
Chloride	mg/L	121	124	124	119
Magnesium	mg/L	487	464	469	453
Nitrogen, Ammonia as N	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Nitrogen, Nitrate+Nitrite as N	mg/L	28.6	31	30.1	25
Potassium	mg/L	12	11	11	11
Sodium	mg/L	233	236	218	215
Sulfate	mg/L	2980	3070	2990	2840
pH	s.u.	7.06	7.06	7.80	7.11
Solids, Total Dissolved TDS @ 180 C	mg/L	5150	5160	5060	5050
Aluminum	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Beryllium	mg/L	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.01)
Cadmium	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Cobalt	mg/L	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.01)
Lead	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Manganese	mg/L	0.57	0.56	0.58	0.60
Molybdenum	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Nickel	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Uranium	mg/L	0.0416	0.0392	0.0406	0.0370
Vanadium	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Arsenic-III	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	0.3	0.9	0.4	1.1
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.4	0.4	0.5	0.4
Gross Alpha minus Rn & U MDC	pCi/L	0.5	0.5	0.7	0.3
Lead 210	pCi/L	2.1	-0.2	1.9	0.2
Lead 210 precision (±)	pCi/L	1.9	2.3	3.6	1.6
Lead 210 MDC	pCi/L	3.1	3.8	6.0	2.6
Radium 226	pCi/L	0.53	0.15	0.68	0.61
Radium 226 precision (±)	pCi/L	0.14	0.13	0.22	0.15
Radium 226 MDC	pCi/L	0.1	0.18	0.17	0.10
Radium 228	pCi/L	1.6	1.5	0.71	1.4
Radium 228 precision (±)	pCi/L	0.65	0.81	1.1	0.78
Radium 228 MDC	pCi/L	0.97	1.2	1.7	1.2
Thorium 230	pCi/L	-0.02	-0.05	0.09	0.3
Thorium 230 precision (±)	pCi/L	0.05	0.06	0.1	0.3
Thorium 230 MDC	pCi/L	0.1	0.2	0.2	0.3
A/C Balance (± 5)	%	-1.76	-2.12	-3.62	-1.70
Anions	meq/L	80.2	79.5	79.5	75.2
Cations	meq/L	77.4	76.2	74.0	72.7
Solids, Total Dissolved Calculated	mg/L	4900	4820	4820	4610
TDS Balance (0.80 - 1.20)		1.05	1.07	1.05	1.10
Trihalomethanes, Total	ug/L	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)

****Note: The data presented on this form is intended for summary purposes only. Laboratory approved data is contained within the attached database reports.**

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Zone 3
Lab ID: C10010505-003
Client Sample ID: 711 Duplicate

Report Date: 02/26/10
Collection Date: 01/11/10 15:20
DateReceived: 01/15/10
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	5	mg/L		5		A2320 B	01/18/10 20:00 / dvg
Calcium	501	mg/L	D	2		E200.7	02/03/10 16:50 / cp
Chloride	16	mg/L		1		A4500-Cl B	01/22/10 16:01 / dvg
Magnesium	484	mg/L		1		E200.7	02/03/10 16:50 / cp
Nitrogen, Ammonia as N	0.41	mg/L		0.05		A4500-NH3 G	01/25/10 12:40 / jal
Nitrogen, Nitrate+Nitrite as N	0.11	mg/L		0.10		E353.2	01/21/10 14:28 / jal
Potassium	11	mg/L		1		E200.7	02/03/10 16:50 / cp
Sodium	101	mg/L		1		E200.7	02/03/10 16:50 / cp
Sulfate	3550	mg/L	D	60		A4500-SO4 E	01/28/10 16:13 / dvg
PHYSICAL PROPERTIES							
pH	4.89	s.u.		0.01		A4500-H B	01/18/10 09:20 / lr
Solids, Total Dissolved TDS @ 180 C	4880	mg/L	D	10		A2540 C	01/18/10 11:03 / lr
METALS - TOTAL							
Aluminum	0.2	mg/L		0.1		E200.8	01/28/10 22:49 / ts
Beryllium	ND	mg/L		0.01		E200.8	01/28/10 22:49 / ts
Cadmium	ND	mg/L		0.005		E200.8	01/20/10 01:42 / sml
Cobalt	0.31	mg/L		0.01		E200.8	01/20/10 01:42 / sml
Lead	ND	mg/L		0.05		E200.8	01/20/10 01:42 / sml
Manganese	5.36	mg/L		0.01		E200.8	01/20/10 01:42 / sml
Molybdenum	0.1	mg/L		0.1		E200.8	01/20/10 01:42 / sml
Nickel	0.29	mg/L		0.05		E200.8	01/20/10 01:42 / sml
Uranium	0.0149	mg/L		0.0003		E200.8	01/20/10 01:42 / sml
Vanadium	ND	mg/L		0.1		E200.8	01/20/10 01:42 / sml
METALS - SPECIATED							
Arsenic-III	0.002	mg/L	H	0.001		E1632AM	02/12/10 11:41 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	01/21/10 11:05 / jp
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	5.2	pCi/L				E900.1	02/02/10 11:28 / cgr
Gross Alpha minus Rn & U Precision (±)	0.8	pCi/L				E900.1	02/02/10 11:28 / cgr
Gross Alpha minus Rn & U MDC	0.4	pCi/L				E900.1	02/02/10 11:28 / cgr
Lead 210	1.3	pCi/L	U			E909.0M	01/27/10 09:30 / dm
Lead 210 precision (±)	2.3	pCi/L				E909.0M	01/27/10 09:30 / dm
Lead 210 MDC	3.9	pCi/L				E909.0M	01/27/10 09:30 / dm
Radium 226	3.7	pCi/L				E903.0	02/08/10 20:10 / trs
Radium 226 precision (±)	0.37	pCi/L				E903.0	02/08/10 20:10 / trs
Radium 226 MDC	0.14	pCi/L				E903.0	02/08/10 20:10 / trs
Radium 228	13	pCi/L				RA-05	02/03/10 11:13 / plj
Radium 228 precision (±)	1.2	pCi/L				RA-05	02/03/10 11:13 / plj
Radium 228 MDC	1.2	pCi/L				RA-05	02/03/10 11:13 / plj

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

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Zone 3
Lab ID: C10010505-003
Client Sample ID: 711 Duplicate

Report Date: 02/26/10
Collection Date: 01/11/10 15:20
DateReceived: 01/15/10
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.02	pCi/L	U			E907.0	01/21/10 09:22 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E907.0	01/21/10 09:22 / dmf
Thorium 230 MDC	0.1	pCi/L				E907.0	01/21/10 09:22 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-3.47	%				Calculation	02/05/10 11:57 / kbh
Anions	74.5	meq/L				Calculation	02/05/10 11:57 / kbh
Cations	69.5	meq/L				Calculation	02/05/10 11:57 / kbh
Solids, Total Dissolved Calculated	4680	mg/L				Calculation	02/05/10 11:57 / kbh
TDS Balance (0.80 - 1.20)	1.04					Calculation	02/05/10 11:57 / kbh
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/18/10 22:57 / wen
Bromoform	ND	ug/L		0.50		E624	01/18/10 22:57 / wen
Chlorodibromomethane	ND	ug/L		0.50		E624	01/18/10 22:57 / wen
Chloroform	ND	ug/L		0.50		E624	01/18/10 22:57 / wen
Trihalomethanes, Total	ND	ug/L		0.50		E624	01/18/10 22:57 / wen
Surr: 1,2-Dichlorobenzene-d4	115	%REC		80-120		E624	01/18/10 22:57 / wen
Surr: Dibromofluoromethane	114	%REC		80-120		E624	01/18/10 22:57 / wen
Surr: p-Bromofluorobenzene	108	%REC		80-120		E624	01/18/10 22:57 / wen
Surr: Toluene-d8	106	%REC		80-120		E624	01/18/10 22:57 / wen

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

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Zone 3
Lab ID: C10040567-003
Client Sample ID: 711 Duplicate

Report Date: 05/25/10
Collection Date: 04/12/10 13:55
DateReceived: 04/16/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	ND	mg/L		5		A2320 B	04/24/10 16:22 / dvg
Calcium	488	mg/L		1		E200.7	04/26/10 15:04 / cp
Chloride	16	mg/L		1		A4500-Cl B	04/21/10 15:38 / dvg
Magnesium	484	mg/L		1		E200.7	04/26/10 15:04 / cp
Nitrogen, Ammonia as N	0.57	mg/L		0.05		A4500-NH3 G	04/27/10 14:51 / ljl
Nitrogen, Nitrate+Nitrite as N	0.1	mg/L		0.1		E353.2	04/24/10 16:19 / ljl
Potassium	10	mg/L		1		E200.7	04/26/10 15:04 / cp
Sodium	102	mg/L		1		E200.7	04/26/10 15:04 / cp
Sulfate	3460	mg/L	D	30		A4500-SO4 E	05/03/10 11:53 / ljl
PHYSICAL PROPERTIES							
pH	4.90	s.u.		0.01		A4500-H B	04/16/10 14:37 / lr
Solids, Total Dissolved TDS @ 180 C	5000	mg/L	D	11		A2540 C	04/16/10 15:36 / lr
METALS - TOTAL							
Aluminum	0.2	mg/L		0.1		E200.8	04/22/10 15:57 / sml
Beryllium	ND	mg/L		0.01		E200.8	04/22/10 15:57 / sml
Cadmium	ND	mg/L		0.005		E200.8	04/22/10 15:57 / sml
Cobalt	0.30	mg/L		0.01		E200.8	04/22/10 15:57 / sml
Lead	ND	mg/L		0.05		E200.8	04/22/10 15:57 / sml
Manganese	5.50	mg/L		0.01		E200.8	04/22/10 15:57 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/22/10 15:57 / sml
Nickel	0.28	mg/L		0.05		E200.8	04/22/10 15:57 / sml
Uranium	0.0159	mg/L		0.0003		E200.8	05/21/10 15:04 / ts
Vanadium	ND	mg/L		0.1		E200.8	04/22/10 15:57 / sml
METALS - SPECIATED							
Arsenic-III	0.007	mg/L		0.001		E1632AM	04/21/10 12:26 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/19/10 10:33 / jp
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	5.6	pCi/L				E900.1	04/26/10 12:24 / cgr
Gross Alpha minus Rn & U Precision (±)	0.9	pCi/L				E900.1	04/26/10 12:24 / cgr
Gross Alpha minus Rn & U MDC	0.5	pCi/L				E900.1	04/26/10 12:24 / cgr
Lead 210	1.3	pCi/L	U			E909.0M	05/06/10 07:44 / dm
Lead 210 precision (±)	2.2	pCi/L				E909.0M	05/06/10 07:44 / dm
Lead 210 MDC	3.7	pCi/L				E909.0M	05/06/10 07:44 / dm
Radium 226	4.5	pCi/L				E903.0	05/01/10 17:51 / trs
Radium 226 precision (±)	0.45	pCi/L				E903.0	05/01/10 17:51 / trs
Radium 226 MDC	0.18	pCi/L				E903.0	05/01/10 17:51 / trs
Radium 228	9.8	pCi/L				RA-05	04/26/10 15:34 / plj
Radium 228 precision (±)	1.0	pCi/L				RA-05	04/26/10 15:34 / plj
Radium 228 MDC	1.1	pCi/L				RA-05	04/26/10 15:34 / plj

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

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Zone 3
Lab ID: C10040567-003
Client Sample ID: 711 Duplicate

Report Date: 05/25/10
Collection Date: 04/12/10 13:55
DateReceived: 04/16/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.3	pCi/L				E907.0	04/21/10 13:22 / dmf
Thorium 230 precision (±)	0.2	pCi/L				E907.0	04/21/10 13:22 / dmf
Thorium 230 MDC	0.2	pCi/L				E907.0	04/21/10 13:22 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-2.57	%				Calculation	05/04/10 08:04 / kbh
Anions	72.5	meq/L				Calculation	05/04/10 08:04 / kbh
Cations	68.8	meq/L				Calculation	05/04/10 08:04 / kbh
Solids, Total Dissolved Calculated	4560	mg/L				Calculation	05/04/10 08:04 / kbh
TDS Balance (0.80 - 1.20)	1.10					Calculation	05/04/10 08:04 / kbh
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/19/10 15:59 / wen
Bromoform	ND	ug/L		0.50		E624	04/19/10 15:59 / wen
Chlorodibromomethane	ND	ug/L		0.50		E624	04/19/10 15:59 / wen
Chloroform	ND	ug/L		0.50		E624	04/19/10 15:59 / wen
Trihalomethanes, Total	ND	ug/L		0.50		E624	04/19/10 15:59 / wen
Surr: 1,2-Dichlorobenzene-d4	109	%REC		80-120		E624	04/19/10 15:59 / wen
Surr: Dibromofluoromethane	118	%REC		80-120		E624	04/19/10 15:59 / wen
Surr: p-Bromofluorobenzene	120	%REC		80-120		E624	04/19/10 15:59 / wen
Surr: Toluene-d8	103	%REC		80-120		E624	04/19/10 15:59 / wen

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

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UNC Mining and Milling ChurchRock Operations

GroundWater Monitoring Summary: Zone 3 Monitor Wells

Well ID:		711 Duplicate	711 Duplicate	711 Duplicate	711 Duplicate
Collection Date:		4/12/2010	1/11/2010	10/12/2009	7/13/2009
Receive Date:		4/16/2010	1/15/2010	10/15/2009	7/17/2009
Report Date:		5/24/2010	2/25/2010	11/30/2009	9/9/2009
Analyte	Units	C10040567-003	C10010505-003	C09100637-004	C09070701-003
Bicarbonate as HCO3	mg/L	ND(5)	5	3	1
Calcium	mg/L	488	501	489	482
Chloride	mg/L	16	16	16	17
Magnesium	mg/L	484	484	475	453
Nitrogen, Ammonia as N	mg/L	0.57	0.41	0.41	0.32
Nitrogen, Nitrate+Nitrite as N	mg/L	0.1	0.11	ND(0.1)	ND(0.1)
Potassium	mg/L	10	11	11	11
Sodium	mg/L	102	101	94	93
Sulfate	mg/L	3460	3550	3550	3440
pH	s.u.	4.90	4.89	5.26	4.82
Solids, Total Dissolved TDS @ 180 C	mg/L	5000	4880	4890	4990
Aluminum	mg/L	0.2	0.2	0.4	0.2
Beryllium	mg/L	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.01)
Cadmium	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Cobalt	mg/L	0.30	0.31	0.32	0.32
Lead	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Manganese	mg/L	5.50	5.36	5.70	5.56
Molybdenum	mg/L	ND(0.1)	0.1	0.2	0.1
Nickel	mg/L	0.28	0.29	0.29	0.28
Uranium	mg/L	0.0159	0.0149	0.0161	0.0150
Vanadium	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Arsenic-III	mg/L	0.007	0.002	0.002	ND(0.001)
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	5.6	5.2	8.2	7.2
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.9	0.8	1.4	1
Gross Alpha minus Rn & U MDC	pCi/L	0.5	0.4	0.9	0.4
Lead 210	pCi/L	1.3	1.3	1.9	-0.2
Lead 210 precision (±)	pCi/L	2.2	2.3	2.2	1.9
Lead 210 MDC	pCi/L	3.7	3.9	3.7	3.2
Radium 226	pCi/L	4.5	3.7	4.8	3.9
Radium 226 precision (±)	pCi/L	0.45	0.37	0.45	0.40
Radium 226 MDC	pCi/L	0.18	0.14	0.20	0.19
Radium 228	pCi/L	9.8	13	11	12
Radium 228 precision (±)	pCi/L	1.0	1.2	1.1	1.1
Radium 228 MDC	pCi/L	1.1	1.2	1.2	1.1
Thorium 230	pCi/L	0.3	0.02	0.05	-0.08
Thorium 230 precision (±)	pCi/L	0.2	0.05	0.1	0.2
Thorium 230 MDC	pCi/L	0.2	0.1	0.2	0.5
A/C Balance (± 5)	%	-2.57	-3.47	-4.56	-4.63
Anions	meq/L	72.5	74.5	74.4	72.1
Cations	meq/L	68.8	69.5	67.9	65.7
Solids, Total Dissolved Calculated	mg/L	4560	4680	4650	4500
TDS Balance (0.80 - 1.20)		1.10	1.04	1.05	1.11
Trihalomethanes, Total	ug/L	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)

****Note: The data presented on this form is intended for summary purposes only. Laboratory approved data is contained within the attached database reports.**

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Zone 1
Lab ID: C10010509-005
Client Sample ID: EPA-2 Duplicate

Report Date: 02/23/10
Collection Date: 01/11/10 12:25
DateReceived: 01/15/10
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	345	mg/L		5		A2320 B	01/18/10 23:52 / dvg
Calcium	384	mg/L		1		E200.7	02/03/10 18:31 / cp
Chloride	18	mg/L		1		A4500-Cl B	01/26/10 17:15 / dvg
Magnesium	173	mg/L		1		E200.7	02/03/10 18:31 / cp
Nitrogen, Ammonia as N	0.47	mg/L		0.05		A4500-NH3 G	01/26/10 14:30 / jal
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.10		E353.2	01/21/10 15:39 / jal
Potassium	7	mg/L		1		E200.7	02/03/10 18:31 / cp
Sodium	204	mg/L		1		E200.7	02/03/10 18:31 / cp
Sulfate	1860	mg/L	D	60		A4500-SO4 E	02/01/10 15:49 / dvg
PHYSICAL PROPERTIES							
pH	6.99	s.u.		0.01		A4500-H B	01/18/10 10:27 / lr
Solids, Total Dissolved TDS @ 180 C	2780	mg/L		10		A2540 C	01/18/10 11:26 / lr
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	01/29/10 18:57 / ts
Beryllium	ND	mg/L		0.01		E200.8	01/29/10 18:57 / ts
Cadmium	ND	mg/L		0.005		E200.8	01/20/10 02:58 / sml
Cobalt	ND	mg/L		0.01		E200.8	01/20/10 02:58 / sml
Lead	ND	mg/L		0.05		E200.8	01/20/10 02:58 / sml
Manganese	1.47	mg/L		0.01		E200.8	01/20/10 02:58 / sml
Molybdenum	ND	mg/L		0.1		E200.8	01/20/10 02:58 / sml
Nickel	ND	mg/L		0.05		E200.8	01/20/10 02:58 / sml
Uranium	0.0012	mg/L		0.0003		E200.8	01/20/10 02:58 / sml
Vanadium	ND	mg/L		0.1		E200.8	01/20/10 02:58 / sml
METALS - SPECIATED							
Arsenic-III	ND	mg/L		0.001		E1632AM	01/28/10 15:40 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	01/21/10 11:43 / jp
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	1.6	pCi/L				E900.1	02/08/10 13:06 / cgr
Gross Alpha minus Rn & U Precision (±)	0.6	pCi/L				E900.1	02/08/10 13:06 / cgr
Gross Alpha minus Rn & U MDC	0.6	pCi/L				E900.1	02/08/10 13:06 / cgr
Lead 210	0.8	pCi/L	U			E909.0M	01/27/10 07:45 / dm
Lead 210 precision (±)	2.4	pCi/L				E909.0M	01/27/10 07:45 / dm
Lead 210 MDC	3.9	pCi/L				E909.0M	01/27/10 07:45 / dm
Radium 226	1.2	pCi/L				E903.0	02/08/10 23:24 / jah
Radium 226 precision (±)	0.23	pCi/L				E903.0	02/08/10 23:24 / jah
Radium 226 MDC	0.15	pCi/L				E903.0	02/08/10 23:24 / jah
Radium 228	3.4	pCi/L				RA-05	02/03/10 13:21 / plj
Radium 228 precision (±)	0.80	pCi/L				RA-05	02/03/10 13:21 / plj
Radium 228 MDC	1.1	pCi/L				RA-05	02/03/10 13:21 / plj

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

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Zone 1
Lab ID: C10010509-005
Client Sample ID: EPA-2 Duplicate

Report Date: 02/23/10
Collection Date: 01/11/10 12:25
DateReceived: 01/15/10
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	-0.01	pCi/L	U			E907.0	01/22/10 08:59 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E907.0	01/22/10 08:59 / dmf
Thorium 230 MDC	0.2	pCi/L				E907.0	01/22/10 08:59 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-2.77	%				Calculation	02/05/10 12:04 / kbh
Anions	44.9	meq/L				Calculation	02/05/10 12:04 / kbh
Cations	42.5	meq/L				Calculation	02/05/10 12:04 / kbh
Solids, Total Dissolved Calculated	2850	mg/L				Calculation	02/05/10 12:04 / kbh
TDS Balance (0.80 - 1.20)	0.980					Calculation	02/05/10 12:04 / kbh
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	01/18/10 20:51 / jlr
Bromoform	ND	ug/L		0.50		E624	01/18/10 20:51 / jlr
Chlorodibromomethane	ND	ug/L		0.50		E624	01/18/10 20:51 / jlr
Chloroform	ND	ug/L		0.50		E624	01/18/10 20:51 / jlr
Trihalomethanes, Total	ND	ug/L		0.50		E624	01/18/10 20:51 / jlr
Surr: 1,2-Dichlorobenzene-d4	120	%REC		80-120		E624	01/18/10 20:51 / jlr
Surr: Dibromofluoromethane	106	%REC		80-120		E624	01/18/10 20:51 / jlr
Surr: p-Bromofluorobenzene	108	%REC		80-120		E624	01/18/10 20:51 / jlr
Surr: Toluene-d8	99.0	%REC		80-120		E624	01/18/10 20:51 / jlr

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

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Zone 1
Lab ID: C10040568-005
Client Sample ID: EPA-2 Duplicate

Report Date: 05/13/10
Collection Date: 04/12/10 11:55
DateReceived: 04/16/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Bicarbonate as HCO3	350	mg/L		5		A2320 B	04/24/10 17:54 / dvg
Calcium	368	mg/L		1		E200.7	04/27/10 15:49 / cp
Chloride	16	mg/L		1		A4500-Cl B	05/03/10 13:12 / dvg
Magnesium	167	mg/L		1		E200.7	04/27/10 15:49 / cp
Nitrogen, Ammonia as N	0.50	mg/L		0.05		A4500-NH3 G	04/27/10 15:21 / ljl
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/24/10 16:59 / ljl
Potassium	7	mg/L		1		E200.7	04/27/10 15:49 / cp
Sodium	209	mg/L		1		E200.7	04/27/10 15:49 / cp
Sulfate	1850	mg/L	D	60		A4500-SO4 E	05/03/10 12:54 / ljl
PHYSICAL PROPERTIES							
pH	7.10	s.u.		0.01		A4500-H B	04/16/10 15:22 / lr
Solids, Total Dissolved TDS @ 180 C	2850	mg/L		10		A2540 C	04/16/10 15:38 / lr
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		E200.8	04/22/10 17:12 / sml
Beryllium	ND	mg/L		0.01		E200.8	04/22/10 17:12 / sml
Cadmium	ND	mg/L		0.005		E200.8	04/22/10 17:12 / sml
Cobalt	ND	mg/L		0.01		E200.8	04/22/10 17:12 / sml
Lead	ND	mg/L		0.05		E200.8	04/22/10 17:12 / sml
Manganese	1.50	mg/L		0.01		E200.8	04/22/10 17:12 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/22/10 17:12 / sml
Nickel	ND	mg/L		0.05		E200.8	04/22/10 17:12 / sml
Uranium	0.0014	mg/L		0.0003		E200.8	04/22/10 17:12 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/22/10 17:12 / sml
METALS - SPECIATED							
Arsenic-III	0.002	mg/L		0.001		E1632AM	04/22/10 12:16 / eli-h
Selenium-IV	ND	mg/L		0.001		A3114 B	04/19/10 11:12 / jp
RADIONUCLIDES - TOTAL							
Gross Alpha minus Rn & U	1.7	pCi/L				E900.1	04/26/10 16:40 / cgr
Gross Alpha minus Rn & U Precision (±)	0.5	pCi/L				E900.1	04/26/10 16:40 / cgr
Gross Alpha minus Rn & U MDC	0.5	pCi/L				E900.1	04/26/10 16:40 / cgr
Lead 210	-1	pCi/L	U			E909.0M	05/07/10 04:02 / dm
Lead 210 precision (±)	2.3	pCi/L				E909.0M	05/07/10 04:02 / dm
Lead 210 MDC	3.9	pCi/L				E909.0M	05/07/10 04:02 / dm
Radium 226	1.3	pCi/L				E903.0	05/03/10 16:21 / trs
Radium 226 precision (±)	0.25	pCi/L				E903.0	05/03/10 16:21 / trs
Radium 226 MDC	0.16	pCi/L				E903.0	05/03/10 16:21 / trs
Radium 228	4.7	pCi/L				RA-05	04/27/10 11:49 / plj
Radium 228 precision (±)	1.0	pCi/L				RA-05	04/27/10 11:49 / plj
Radium 228 MDC	1.4	pCi/L				RA-05	04/27/10 11:49 / plj

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

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LABORATORY ANALYTICAL REPORT

Client: United Nuclear Corporation
Project: Zone 1
Lab ID: C10040568-005
Client Sample ID: EPA-2 Duplicate

Report Date: 05/13/10
Collection Date: 04/12/10 11:55
DateReceived: 04/16/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Thorium 230	0.03	pCi/L	U			E907.0	04/21/10 13:22 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E907.0	04/21/10 13:22 / dmf
Thorium 230 MDC	0.09	pCi/L				E907.0	04/21/10 13:22 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-4.02	%				Calculation	05/04/10 08:42 / kbh
Anions	44.8	meq/L				Calculation	05/04/10 08:42 / kbh
Cations	41.4	meq/L				Calculation	05/04/10 08:42 / kbh
Solids, Total Dissolved Calculated	2820	mg/L				Calculation	05/04/10 08:42 / kbh
TDS Balance (0.80 - 1.20)	1.01					Calculation	05/04/10 08:42 / kbh
VOLATILE ORGANIC COMPOUNDS							
Bromodichloromethane	ND	ug/L		0.50		E624	04/20/10 00:45 / wen
Bromoform	ND	ug/L		0.50		E624	04/20/10 00:45 / wen
Chlorodibromomethane	ND	ug/L		0.50		E624	04/20/10 00:45 / wen
Chloroform	ND	ug/L		0.50		E624	04/20/10 00:45 / wen
Trihalomethanes, Total	ND	ug/L		0.50		E624	04/20/10 00:45 / wen
Surr: 1,2-Dichlorobenzene-d4	109	%REC		80-120		E624	04/20/10 00:45 / wen
Surr: Dibromofluoromethane	114	%REC		80-120		E624	04/20/10 00:45 / wen
Surr: p-Bromofluorobenzene	118	%REC		80-120		E624	04/20/10 00:45 / wen
Surr: Toluene-d8	106	%REC		80-120		E624	04/20/10 00:45 / wen

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

ENERGY LABORATORIES, INC. • 2393 Salt Creek Highway (82601) • P.O. Box 3258 • Casper, WY 82602
Toll Free 888.235.0515 • 307.235.0515 • Fax 307.234.1639 • casper@energylab.com • www.energylab.com

UNC Mining and Milling ChurchRock Operations

GroundWater Monitoring Summary: Zone 1 Monitor Wells

Well ID:		EPA-2 Duplicate	EPA-2 Duplicate	EPA-2 Duplicate	EPA-2 Duplicate
Collection Date:		4/12/2010	1/11/2010	10/12/2009	7/13/2009
Receive Date:		4/16/2010	1/15/2010	10/15/2009	7/17/2009
Report Date:		5/13/2010	2/25/2010	11/20/2009	8/25/2009
Analyte	Units	C10040568-005	C10010509-005	C09100635-005	C09070725-005
Bicarbonate as HCO3	mg/L	350	345	331	332
Calcium	mg/L	368	384	351	353
Chloride	mg/L	16	18	24	17
Magnesium	mg/L	167	173	164	156
Nitrogen, Ammonia as N	mg/L	0.50	0.47	0.45	0.46
Nitrogen, Nitrate+Nitrite as N	mg/L	ND(0.1)	ND(0.10)	ND(0.1)	ND(0.1)
Potassium	mg/L	7	7	6	6
Sodium	mg/L	209	204	198	199
Sulfate	mg/L	1850	1860	1620	1720
pH	s.u.	7.10	6.99	7.20	7.09
Solids, Total Dissolved TDS @ 180 C	mg/L	2850	2780	2790	2770
Aluminum	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Beryllium	mg/L	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.01)
Cadmium	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Cobalt	mg/L	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.01)
Lead	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Manganese	mg/L	1.50	1.47	1.49	1.34
Molybdenum	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Nickel	mg/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Uranium	mg/L	0.0014	0.0012	0.0016	0.0012
Vanadium	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Arsenic-III	mg/L	0.002	ND(0.001)	ND(0.001)	ND(0.001)
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	1.7	1.6	2.0	3.0
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.5	0.6	0.7	0.7
Gross Alpha minus Rn & U MDC	pCi/L	0.5	0.6	0.8	0.5
Lead 210	pCi/L	-1	0.8	1.1	-0.4
Lead 210 precision (±)	pCi/L	2.3	2.4	2.4	1.4
Lead 210 MDC	pCi/L	3.9	3.9	4.1	2.4
Radium 226	pCi/L	1.3	1.2	1.1	1.4
Radium 226 precision (±)	pCi/L	0.25	0.23	0.23	0.20
Radium 226 MDC	pCi/L	0.16	0.15	0.18	0.09
Radium 228	pCi/L	4.7	3.4	3.0	2.8
Radium 228 precision (±)	pCi/L	1.0	0.80	0.78	0.89
Radium 228 MDC	pCi/L	1.4	1.1	1.1	1.3
Thorium 230	pCi/L	0.03	-0.01	0.06	0.02
Thorium 230 precision (±)	pCi/L	0.05	0.09	0.1	0.09
Thorium 230 MDC	pCi/L	0.09	0.2	0.2	0.2
A/C Balance (± 5)	%	-4.02	-2.77	-0.139	-3.04
Anions	meq/L	44.8	44.9	39.9	41.7
Cations	meq/L	41.4	42.5	39.8	39.3
Solids, Total Dissolved Calculated	mg/L	2820	2850	2560	2650
TDS Balance (0.80 - 1.20)		1.01	0.980	1.09	1.05
Trihalomethanes, Total	ug/L	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)

****Note: The data presented on this form is intended for summary purposes only. Laboratory approved data is contained within the attached database reports.**

APPENDIX - C

QUARTERLY

CHAIN OF CUSTODY REPORT

UNITED NUCLEAR CORPORATION
(State Road 566 - 21 Miles NE of Gallup)
P.O. Box 3077
Gallup, NM 87305-3077
505-905-6651

CHAIN OF CUSTODY

Energy Laboratories, Inc.
Laboratory

2393 N. Salt Creek Highway
Address

Casper WY 82601
City State Zip

307-235-0515
Phone No.

All analysis will be performed in accordance with EPA approved procedures and/or 15th Edition of Standard Methods

UNC Submittal No. TE- 1-1-2010 (Pg. 1 of 2)

Sample Description	Date	Time	Filter 0.45u	PRESERVATION plain	HNO_3	H_2SO_4	$Na_2S_2O_3$	NaOH	Preserved By	Analysis Required (For all samples listed)
509-D	1-4-10	0932		✓	✓	✓	✓		M. Chischilly	As, Be, Ca, Cd, Cl, HCO_3,
EPA-23		1015								K, Mg, Mn, Na, NH_4, Ni,
803		1052								NO_3, Pb, Pb-210, pH, Se,
808		1130								SO_4, TDS, Th-230, U, V,
802		1205								Chloroform, Gross
801		1245								Alpha (-) U & Rn,
GW-2		1325								Combined Ra-226 & Ra-228, Al,
GW-1		1415								Co, Mo & Total Trihalomethanes (TTHMs)
632		1456						NA		
624	1-5-10	0908								
SBL-1		0950								
EPA-28		1030								
EPA-28 DUPLICATE		1104								
GW-3		1200								
EPA-25		1300								

Sampled by: Max Chischilly Jr.
Dispatched by: [signature]
Carrier: UPS - Ground
7 Iced Cooler
Method of Shipment

Received by [signature]
1-6-10 1:15
Date Time

1-4-10 1456
1-5-10 1520
Date Time
[signature]
Lab Receipt Signature
1/8/10 935
Date Time

The above analysis to be performed is authorized by:
Max Chischilly Jr.
Signature
1-6-2010
Date

1/8/10 9:35
Cooler Seals
3

UNITED NUCLEAR CORPORATION
(State Road 566 - 21 Miles NE of Gallup)
P.O. Box 3077
Gallup, NM 87305-3077
505-905-6651

CHAIN OF CUSTODY

Energy Laboratories, Inc.
Laboratory

2393 N. Salt Creek Highway
Address

Casper WY 82601
City State Zip

307-235-0515
Phone No.

All analysis will be performed in accordance with EPA approved procedures and/or 15th Edition of Standard Methods

UNC Submittal No. TE-1-1-2010 (Pg. 2 of 2)

Sample Description	Date	Time	Filter 0.45u	PRESERVATION plain	HNO_3	H_2SO_4	$Na_2S_2O_3$	NaOH	Preserved By	Analysis Required (For all samples listed)
627	1-5-10	1350		✓ m	✓ m	✓ m	✓ m		m. Chischilly	As, Be, Ca, Cd, Cl, HCO_3,
613	1-5-10	1440		↓	↓	↓	↓		↓	K, Mg, Mn, Na, NH_4, Ni,
EPA-14	1-5-10	1520		↓	↓	↓	↓		↓	NO_3, Pb, Pb-210, pH, Se,
515-A	1-6-10	0930		↓	↓	↓	↓		↓	SO_4, TDS, Th-230, U, V,
604	1-6-10	1035		↓	↓	↓	↓		↓	Chloroform, Gross
614	1-6-10	1155		↓	↓	↓	↓		↓	Alpha (-) U & Rn,
FIELD BLANK	1-6-10	1230		↓	↓	↓	↓		↓	Combined Ra-226 & Ra-228, Al,
										Co, Mo & Total Trihalomethanes (TTHMs)
								N/A		

Sampled by: Mark Chischilly Jr.
Dispatched by: Doris Yong
Carrier: UPS- Ground
7 Iced Cooler
Method of Shipment

Received by Ronald Sa
1-6-10 1:15
Date Time

1-5-10 1520
1-6-10 1230
Date Time

Lab Receipt Signature
1/8/10 935
Date Time

The above analysis to be performed is authorized by:
Mark Chischilly Jr.
Signature
1-6-2010
Date

1/8/10 9:35
Chad Sears
3

Energy Laboratories Inc
Workorder Receipt Checklist

C10010243

United Nuclear Corporation

Login completed by: Corinne Wagner

Date and Time Received: 1/8/2010 9:35 AM

Reviewed by:

Received by: ckw

Reviewed Date:

Carrier name: Ground

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature:	3°C		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

Energy Laboratories Inc
Workorder Receipt Checklist

C10010246

United Nuclear Corporation

Login completed by: Corinne Wagner

Date and Time Received: 1/8/2010 9:35 AM

Reviewed by:

Received by: ckw

Reviewed Date:

Carrier name: Ground

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature:	3°C On Ice		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

Energy Laboratories Inc
Workorder Receipt Checklist

C10010247

United Nuclear Corporation

Login completed by: Corinne Wagner

Date and Time Received: 1/8/2010 9:35 AM

Reviewed by:

Received by: ckw

Reviewed Date:

Carrier name: Ground

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature:	3°C On Ice		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

UNITED NUCLEAR CORPORATION
(State Road 566 - 21 Miles NE of Gallup)
P.O. Box 3077
Gallup, NM 87305-3077
505-905-6651

CHAIN OF CUSTODY

Energy Laboratories, Inc.
Laboratory

2393 N. Salt Creek Highway
Address

Casper WY 82601
City State Zip

307-235-0515
Phone No.

All analysis will be performed in accordance with EPA approved procedures and/or 15th Edition of Standard Methods

UNC Submittal No. TE-2-1-2010 (Pg. 1 of 2)

Sample Description	Date	Time	Filter 0.45u	PRESERVATION plain	HNO_3	H_2SO_4	$Na_2S_2O_3$	NaOH	Preserved By	Analysis Required (For all samples listed)
EPA-4	1-11-10	0920		✓	✓	✓	✓		M. Chischilly	As, Be, Ca, Cd, Cl, HCO_3,
EPA-5		1011								K, Mg, Mn, Na, NH_4, Ni,
EPA-7		1050								NO_3, Pb, Pb-210, pH, Se,
EPA-2		1138								SO_4, TDS, Th-230, U, V,
EPA-2 DUPLICATE		1225								Chloroform, Gross
517		1255								Alpha (-) U & Rn,
708		1400								Combined Ra-226 & Ra-228, Al,
711		1440								Co, Mo & Total Trihalomethanes (TTHMs)
711 DUPLICATE		1520						N A		
EPA-13	1-12-10	0910								
504-B		1000								
719		1020								
420		1105								
717		1145								
TWQ-142		1300								

Sampled by: Mel Chischilly Jr.
Dispatched by: [signature]
Carrier: UPS-Ground
6 Iced Cooler
Method of Shipment

Received by Ronald Sam
1-13-10 1:10
Date Time

1-11-10 1600
1-12-10 1600
Date Time
[signature]
Lab Receipt Signature
01-15-10 925
Date Time

The above analysis to be performed is authorized by:
Mel Chischilly Jr.
Signature
1-13-2010
Date

UPS ARS GRD
6° ICE

C10010509

UNITED NUCLEAR CORPORATION
(State Road 566 - 21 Miles NE of Gallup)
P.O. Box 3077
Gallup, NM 87305-3077
505-905-6651

CHAIN OF CUSTODY

Energy Laboratories, Inc.
Laboratory

2393 N. Salt Creek Highway
Address

Casper WY 82601
City State Zip

307-235-0515
Phone No.

All analysis will be performed in accordance with EPA approved procedures and/or 15th Edition of Standard Methods

UNC Submittal No. TE-2-1-2010 (Pg. 2 of 2)

Sample Description	Date	Time	Filter 0.45u	PRESERVATION plain	HNO_3	H_2SO_4	$Na_2S_2O_3$	NaOH	Preserved By	Analysis Required (For all samples listed)
HBL-1	1-12-10	1350		✓	✓	✓	✓		M. Chischilly	As, Be, Ca, Cd, Cl, HCO_3,
FIELD BLANK	1-12-10	1600		✓	✓	✓	✓		M. Chischilly	K, Mg, Mn, Na, NH_4, Ni,
										NO_3, Pb, Pb-210, pH, Se,
										SO_4, TDS, Th-230, U, V,
										Chloroform, Gross
										Alpha (-) U & Rn,
										Combined Ra-226 & Ra-228, Al,
										Co, Mo & Total Trihalomethanes (TTHMs)
								N A		

Sampled by: Max Chischilly Jr.
Dispatched by: [illegible]
Carrier: UPS- Ground
6 Iced Cooler
Method of Shipment

Received by Ronald Sam
1-13-10 1:10
Date Time

1-12-10 1600
Date Time
[illegible]
Lab Receipt Signature
1/15/10 925
Date Time

The above analysis to be performed is authorized by:
Max Chischilly Jr.
Signature
1-13-2010
Date

Energy Laboratories Inc
Workorder Receipt Checklist

C10010505

United Nuclear Corporation

Login completed by: Corinne Wagner

Date and Time Received: 1/15/2010 9:25 AM

Reviewed by:

Received by: ckw

Reviewed Date:

Carrier name: Ground

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature:	6°C On Ice		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

Energy Laboratories Inc
Workorder Receipt Checklist

United Nuclear Corporation

C10010509

Login completed by: Corinne Wagner

Date and Time Received: 1/15/2010 9:25 AM

Reviewed by:

Received by: ckw

Reviewed Date:

Carrier name: Ground

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature:	6°C On Ice		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

UNC MINING & MILLING
(St. Rd. 566 - 21 Miles NE of Gallup)
P. O. Box 3077
Gallup, NM 87305-3077
(505) 722-6651

CHAIN OF CUSTODY

Energy Laboratories, Inc.
Laboratory

2393 N. Salt Creek Highway
Address

Casper WY 82601
City State Zip

(307) 235-0515
Phone No.

All analysis will be performed in accordance with EPA approved procedures and/or 15th Edition of Standard Methods

UNC Submittal No. EW- 1-1-2010

Sample Description	Date	Time	Filter 0.45u	PRESERVATION plain	HNO_3	H_2SO_4	$Na_2S_2O_3$	NaOH	Preserved By	Analysis Required
NBL-2	1-12-10	1240		✓					M. Chischilly	Bicarbonate (HCO_3), Chloride (Cl), pH, TDS
PB-3	1-12-10	1420								
PB-4	1-12-10	1432								
PB-2	1-12-10	1500								
RW-A	1-12-10	1515								
NW-3	1-12-10	1530								
NW-5	1-12-10	1550								
NW-2	1-13-10	0940								
NW-4	1-13-10	0950								
NW-1	1-13-10	1005								

Sampled By: Mel Chischilly Jr.
Dispatched By: [illegible]
Carrier: UPS- Ground
6 Iced Cooler
Method of Shipment

Received By: Ronald [illegible]
1-13-10 1:10
Date Time

1-12-10 1600
1-13-10 1100
Date Time

[illegible]
Lab Receipt Signature

01-15-10 9:25
Date Time

UPS ARS GRD
6° IC

The above analysis to be performed is authorized by:
Mel Chischilly Jr.
Signature
1-13-2010
Date

Energy Laboratories Inc
Workorder Receipt Checklist

United Nuclear Corporation

C10010508

Login completed by: Halley Ackerman

Date and Time Received: 1/15/2010 9:25 AM

Reviewed by:

Received by: ha

Reviewed Date:

Carrier name: Ground

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature:	6°C On Ice		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

UNITED NUCLEAR CORPORATION
(State Road 566 - 21 Miles NE of Gallup)
P.O. Box 3077
Gallup, NM 87305-3077
505-722-6651

CHAIN OF CUSTODY

Energy Laboratories, Inc.
Laboratory

2393 N. Salt Creek Highway
Address

Casper — WY — 82601
City — State — Zip

307-235-0515
Phone No.

All analysis will be performed in accordance with EPA approved procedures and/or 15th Edition of Standard Methods

UNC Submittal No. TE- 3-4-2010 (Pg. 1 of 2)

Sample Description	Date	Time	Filter 0.45u	PRESERVATION plain	HNO_3	H_2SO_4	$Na_2S_2O_3$	NaOH	Preserved By	Analysis Required (For all samples listed)
509-D	4-5-10	0915	✓	✓	✓	✓	✓		M. Chischilly	As, Be, Ca, Cd, Cl, HCO_3,
EPA-23		0955								K, Mg, Mn, Na, NH_4, Ni,
803		1040								NO_3, Pb, Pb-210, pH, Se,
808		1115								SO_4, TDS, Th-230, U, V,
802		1150								Chloroform, Gross
801		1225								Alpha (-) U & Rn,
GW-2		1300								Combined Ra-226 & Ra-228, Al,
GW-1		1340								Co, Mo & Total Trihalomethanes (TTHMs)
632		1435						NA		
624	4-6-10	0850								
SBL-1		0925								Note: Preserved one 8 oz.
EPA-28		1000								Sample with HCl.
EPA-28 DUPLICATE		1025								
GW-3		1115								
EPA-25		1150								

Sampled by: Mel Chischilly Jr.
Dispatched by: Norie Young
Carrier: UPS-Ground
8 iced cooler
Method of Shipment

Received by Ronald B. Sam
4-7-10 1:20
Date Time

4-5-10 1530
4-6-10 1600
Date Time

Andrew
Lab Receipt Signature
4-12-10 945
Date Time

6° on ice

The above analysis to be performed is authorized by:
Mel Chischilly Jr.
Signature
4-7-2010
Date

UNITED NUCLEAR CORPORATION
(State Road 566 - 21 Miles NE of Gallup)
P.O. Box 3077
Gallup, NM 87305-3077
505-722-6651

CHAIN OF CUSTODY

Energy Laboratories, Inc.
Laboratory

2393 N. Salt Creek Highway
Address

Casper — WY — 82601
City — State — Zip

307-235-0515
Phone No.

All analysis will be performed in accordance with EPA approved procedures and/or 15th Edition of Standard Methods

UNC Submittal No. TE-3-4-2010 (Pg. 2 of 2)

Sample Description	Date	Time	Filter 0.45u	PRESERVATION plain	HNO_3	H_2SO_4	$Na_2S_2O_3$	NaOH	Preserved By	Analysis Required (For all samples listed)
627	4-6-10	1240	✓ MC	✓ MC	✓ MC	✓ MC	✓ MC		M. Chischilly	As, Be, Ca, Cd, Cl, HCO_3,
613	4-6-10	1330								K, Mg, Mn, Na, NH_4, Ni,
517	4-6-10	1405								NO_3, Pb, Pb-210, pH, Se,
EPA-14	4-6-10	1455								SO_4, TDS, Th-230, U, V,
604	4-7-10	0905								Chloroform, Gross
515-A	4-7-10	0950								Alpha (-) U & Rn,
614	4-7-10	1050								Combined Ra-226 & Ra-228, Al,
FIELD BLANK	4-7-10	1200	↓	↓	↓	↓	↓		↓	Co, Mo & Total Trihalomethanes (TTHMs)
								N A		
										Note: Preserved one 8oz. Sample with HCl.

Sampled by: Mark Chischilly Jr.
Dispatched by: Dorie Young
Carrier: UPS-Ground
8 iced cooler
Method of Shipment

Received by Ronald B. Sam
4-7-10 — 1:20
Date — Time

4-6-10 — 1600
4-7-10 — 1200
Date — Time

Andrew
Lab Receipt Signature

4-12-10 — 945
Date — Time

The above analysis to be performed is authorized by:
Mark Chischilly Jr.
Signature

4-7-2010
Date

C10040365

Energy Laboratories Inc
Workorder Receipt Checklist

United Nuclear Corporation

C10040363

Login completed by: Corinne Wagner

Date Received: 4/12/2010

Reviewed by:

Received by: al

Reviewed Date:

Carrier name: Ground

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature:	6°C On Ice		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

Energy Laboratories Inc
Workorder Receipt Checklist

C10040364

United Nuclear Corporation

Login completed by: Halley Ackerman

Reviewed by:

Reviewed Date:

Date Received: 4/12/2010

Received by: al

Carrier name: Ground

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature:	6°C On Ice		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

Energy Laboratories Inc
Workorder Receipt Checklist

C10040365

United Nuclear Corporation

Login completed by: Corinne Wagner

Reviewed by:

Reviewed Date:

Date Received: 4/12/2010

Received by: al

Carrier name: Ground

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature:	6°C On Ice		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

UNITED NUCLEAR CORPORATION
(State Road 566 - 21 Miles NE of Gallup)
P.O. Box 3077
Gallup, NM 87305-3077
505-722-6651

CHAIN OF CUSTODY

Energy Laboratories, Inc.
Laboratory

2393 N. Salt Creek Highway
Address

Casper — WY — 82601
City — State — Zip

307-235-0515
Phone No.

All analysis will be performed in accordance with EPA approved procedures and/or 15th Edition of Standard Methods

UNC Submittal No. TE- 4-4-2010 (Pg. 1 of 2)

Sample Description	Date	Time	Filter 0.45u	PRESERVATION plain	HNO_3	H_2SO_4	$Na_2S_2O_3$	NaOH	Preserved By	Analysis Required (For all samples listed)
EPA - 4	4-12-10	0916	✓	✓	✓	✓	✓		M. Chischilly	As, Be, Ca, Cd, Cl, HCO_3,
EPA- 5		1007								K, Mg, Mn, Na, NH_4, Ni,
EPA- 7		1045								NO_3, Pb, Pb-210, pH, Se,
EPA- 2		1125								SO_4, TDS, Th-230, U, V,
EPA-2 DUPLICATE		1155								Chloroform, Gross
708		1235								Alpha (-) U & Rn,
711		1315								Combined Ra-226 & Ra-228, Al,
711 DUPLICATE		1355								Co, Mo & Total Trihalomethanes (TTHMs)
717		1440						NA		
EPA-13	4-13-10	1050								
719		1125								Note: Preserved one 8 oz.
420		1210								sample with HCl.
TWQ - 142		1300								
HBL-1		1345								
PB-3		1430								

Sampled by: [signature]

Dispatched by: [signature]

Carrier: UPS - Ground

7 iced cooler
Method of Shipment

Received by [signature]
4-14-10 — 12:00
Date — Time

4-12-10 — 1530
4-13-10 — 1630
Date — Time

Lab Receipt Signature [signature]

4-16-10 — 920
Date — Time

1° on ice
UPS AIRS Grnd

The above analysis to be performed is authorized by:

Signature [signature]

4-14-2010
Date

C10040568

UNITED NUCLEAR CORPORATION
(State Road 566 - 21 Miles NE of Gallup)
P.O. Box 3077
Gallup, NM 87305-3077
505-722-6651

CHAIN OF CUSTODY

Energy Laboratories, Inc.
Laboratory

2393 N. Salt Creek Highway
Address

Casper — WY — 82601
City — State — Zip

307-235-0515
Phone No.

All analysis will be performed in accordance with EPA approved procedures and/or 15th Edition of Standard Methods

UNC Submittal No. TE- 4-4-2010 (Pg. 2 of 2)

Sample Description	Date	Time	Filter 0.45u		PRESERVATION plain		HNO_3		H_2SO_4		$Na_2S_2O_3$		NaOH	Preserved By	Analysis Required (For all samples listed)
PB-4	4-13-10	1510	✓	[illegible]	✓	[illegible]	✓	[illegible]	✓	[illegible]	✓	[illegible]		M. Chischilly	As, Be, Ca, Cd, Cl, HCO_3,
PB-2	4-13-10	1545	✓	[illegible]	✓	[illegible]	✓	[illegible]	✓	[illegible]	✓	[illegible]		↓	K, Mg, Mn, Na, NH_4, Ni,
FIELD BLANK	4-13-10	1630	✓	[illegible]	✓	[illegible]	✓	[illegible]	✓	[illegible]	✓	[illegible]		↓	NO_3, Pb, Pb-210, pH, Se,
															SO_4, TDS, Th-230, U, V,
															Chloroform, Gross
															Alpha (-) U & Rn,
															Combined Ra-226 & Ra-228, Al,
															Co, Mo & Total Trihalomethanes (TTHMs)
													N/A		
															Note: Preserved one 8 oz.
															sample with HCl.

Sampled by: Mel Chischilly Jr.
Dispatched by: [illegible]
Carrier: UPS- Ground
7 iced cooler
Method of Shipment

Received by [illegible]
4-14-10 12:00
Date Time

4-13-10 1630
Date Time
Lab Receipt Signature
4-16-10 920
Date Time
1° on ice
UPS ARS Grnd

The above analysis to be performed is authorized by:
Signature
4-14-2010
Date

Energy Laboratories Inc
Workorder Receipt Checklist

United Nuclear Corporation

C10040567

Login completed by: Halley Ackerman

Reviewed by:

Reviewed Date:

Date Received: 4/16/2010

Received by: al

Carrier name: Ground

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature:	1°C On Ice		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

Energy Laboratories Inc
Workorder Receipt Checklist

C10040571

United Nuclear Corporation

Login completed by: Corinne Wagner

Reviewed by:

Reviewed Date:

Date Received: 4/16/2010

Received by: al

Carrier name: Ground

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature:	1°C On Ice		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

UNC MINING & MILLING
(St. Rd. 566 - 21 Miles NE of Gallup)
P. O. Box 3077
Gallup, NM 87305-3077
(505) 722-6651

CHAIN OF CUSTODY

Energy Laboratories, Inc.
Laboratory

2393 N. Salt Creek Highway
Address

Casper WY 82601
City State Zip

(307) 235-0515
Phone No.

All analysis will be performed in accordance with EPA approved procedures and/or 15th Edition of Standard Methods

UNC Submittal No. EW- 2-4-2010

Sample Description	Date	Time	Filter 0.45u	PRESERVATION plain	HNO_3	H_2SO_4	$Na_2S_2O_3$	NaOH	Preserved By	Analysis Required
NW-2	4-14-10	0842		✓ ice					M. Chischilly	Bicarbonate (HCO_3), Chloride (Cl), pH, TDS
NW-4		0900								
NW-1		0920								
NW-5		0940								
NW-3		0955								
RW-A		1045								
NBL-2	4-13-10	1245		✓ ice					M. Chischilly	

Sampled By: [signature]
Dispatched By: [signature]
Carrier: UPS- Ground
7 iced cooler
Method of Shipment

Received By: [signature]
4-14-10 12:00
Date Time

4-14-10 1100
Date Time
Andrew [signature]
Lab Receipt Signature
4-16-10 920
Date Time
1° ups ARS Grnd
on ice

The above analysis to be performed is authorized by:
[signature]
Signature
4-14-2010
Date

Minutes

Energy Laboratories Inc
Workorder Receipt Checklist

United Nuclear Corporation

C10040572

Login completed by: Corinne Wagner

Date Received: 4/16/2010

Reviewed by:

Received by: al

Reviewed Date:

Carrier name: Ground

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature:	1°C On Ice		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

APPENDIX – D (1 OF 2)

FIRST QUARTER

LABORATORY QUALITY CONTROL AND

PERFORMANCE REPORT

ENERGY LABORATORIES, INC. • 2393 Salt Creek Highway (82601) • P.O. Box 3258 • Casper, WY 82602
Toll Free 888.235.0515 • 307.235.0515 • Fax 307.234.1639 • casper@energylab.com • www.energylab.com

ANALYTICAL SUMMARY REPORT

February 23, 2010

United Nuclear Corporation
21 Miles NE Of Gallup
Gallup, NM 87305

Workorder No.: C10010243 Quote ID: C129 - Quarterly Long List

Project Name: Alluvium

Energy Laboratories, Inc. received the following 16 samples for United Nuclear Corporation on 1/8/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C10010243-001	509-D	01/04/10 9:32	01/08/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Chloride Arsenic Speciation Selenium-IV, Total Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Metals Preparation by EPA 200.2 Gross Alpha minus Rn222 and Uranium Lead 210, Total Radium 226, Total Radium 228, Total Thorium, Isotopic Solids, Total Dissolved Sulfate E624 Purgeable Organics
C10010243-002	EPA-23	01/04/10 10:15	01/08/10	Aqueous	Same As Above
C10010243-003	803	01/04/10 10:52	01/08/10	Aqueous	Same As Above
C10010243-004	808	01/04/10 11:30	01/08/10	Aqueous	Same As Above
C10010243-005	802	01/04/10 12:05	01/08/10	Aqueous	Same As Above
C10010243-006	801	01/04/10 12:45	01/08/10	Aqueous	Same As Above
C10010243-007	GW-2	01/04/10 13:25	01/08/10	Aqueous	Same As Above
C10010243-008	GW-1	01/04/10 14:15	01/08/10	Aqueous	Same As Above
C10010243-009	632	01/04/10 14:56	01/08/10	Aqueous	Same As Above
C10010243-010	624	01/05/10 9:08	01/08/10	Aqueous	Same As Above
C10010243-011	SBL-1	01/05/10 9:50	01/08/10	Aqueous	Same As Above
C10010243-012	EPA-28	01/05/10 10:30	01/08/10	Aqueous	Same As Above
C10010243-013	EPA-28 Duplicate	01/05/10 11:04	01/08/10	Aqueous	Same As Above
C10010243-014	GW-3	01/05/10 12:00	01/08/10	Aqueous	Same As Above
C10010243-015	EPA-25	01/05/10 13:00	01/08/10	Aqueous	Same As Above

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ANALYTICAL SUMMARY REPORT

C10010243-016 627	01/05/10 13:50 01/08/10	Aqueous	Same As Above

Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By: Stephanie D. Waldrop

Stephanie D. Waldrop
Reporting Supervisor

ENERGY LABORATORIES, INC. • 2393 Salt Creek Highway (82601) • P.O. Box 3258 • Casper, WY 82602
Toll Free 888.235.0515 • 307.235.0515 • Fax 307.234.1639 • casper@energylab.com • www.energylab.com

CLIENT: United Nuclear Corporation
Project: Alluvium
Sample Delivery Group: C10010243

Report Date: 02/23/10

CASE NARRATIVE

PB210 ANALYSIS
The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

RA226 ANALYSIS
The sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved on this sample due to matrix effects. Please consult with your local regulatory agency prior to using these results for compliance purposes.

BRANCH LABORATORY SUBCONTRACT ANALYSIS
Tests Associated with Analyst identified as ELI-B were subcontracted to Energy Laboratories Billings Branch, EPA Number MT00005.

Tests Associated with Analyst identified as ELI-H were subcontracted to Energy Laboratories Helena Branch, EPA Number MT00945.

ORIGINAL SAMPLE SUBMITTAL(S)
All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)
Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS
Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

RADON IN AIR ANALYSIS
The desired exposure time is 48 hours (2 days). The time delay in returning the canister to the laboratory for processing should be as short as possible to avoid excessive decay. Maximum recommended delay between end of exposure to beginning of counting should not exceed 8 days.

SUBCONTRACTING ANALYSIS
Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS
eli-b - Energy Laboratories, Inc. - Billings, MT; eli-g - Energy Laboratories, Inc. - Gillette, WY; eli-h - Energy Laboratories, Inc. - Helena, MT; eli-r - Energy Laboratories, Inc. - Rapid City, SD; eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:
USEPA: WY00002, Radiochemical WY00937; FL-DOH NELAC: E87641, Radiochemical E871017; California: 02118CA; Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:
The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER,WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

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Toll Free 888.235.0515 • 307.235.0515 • Fax 307.234.1639 • casper@energylab.com • www.energylab.com

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 02/23/10
Work Order: C10010243

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R128504
Sample ID: MBLK	2	Method Blank				Run: MANTECH_100112A				01/12/10 13:03
Alkalinity, Total as CaCO3		3	mg/L	1						
Bicarbonate as HCO3		4	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_100112A				01/12/10 13:20
Alkalinity, Total as CaCO3		191	mg/L	5.0	94	90	110			
Sample ID: LCS		Laboratory Control Sample				Run: MANTECH_100112A				01/12/10 13:29
Alkalinity, Total as CaCO3		52.8	mg/L	5.0	99	90	110			
Sample ID: C10010191-003AMS		Sample Matrix Spike				Run: MANTECH_100112A				01/12/10 14:19
Alkalinity, Total as CaCO3		200	mg/L	5.0	94	80	120			
Sample ID: C10010191-003AMSD		Sample Matrix Spike Duplicate				Run: MANTECH_100112A				01/12/10 14:27
Alkalinity, Total as CaCO3		203	mg/L	5.0	96	80	120	1.2	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

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Toll Free 888.235.0515 • 307.235.0515 • Fax 307.234.1639 • casper@energylab.com • www.energylab.com

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 02/23/10
Work Order: C10010243

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: 100111_1_SLDS-TDS-W	
Sample ID: MBLK1_100111		Method Blank				Run: BAL-1_100111A			01/11/10 09:44	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_100111		Laboratory Control Sample				Run: BAL-1_100111A			01/11/10 09:45	
Solids, Total Dissolved TDS @ 180 C		994	mg/L	10	99	90	110			
Sample ID: C10010243-009BMS		Sample Matrix Spike				Run: BAL-1_100111A			01/11/10 09:48	
Solids, Total Dissolved TDS @ 180 C		11500	mg/L	19	104	90	110			
Sample ID: C10010243-009BMSD		Sample Matrix Spike Duplicate				Run: BAL-1_100111A			01/11/10 09:48	
Solids, Total Dissolved TDS @ 180 C		11600	mg/L	20	102	90	110	0.8	10	
Sample ID: C10010243-016BMS		Sample Matrix Spike				Run: BAL-1_100111A			01/11/10 10:41	
Solids, Total Dissolved TDS @ 180 C		7520	mg/L	12	109	90	110			
Sample ID: C10010243-016BMSD		Sample Matrix Spike Duplicate				Run: BAL-1_100111A			01/11/10 10:41	
Solids, Total Dissolved TDS @ 180 C		7270	mg/L	12	98	90	110	3.4	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 02/23/10
Work Order: C10010243

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Batch: SE3114-100112A	
Sample ID: MBLK		Method Blank				Run: CVAA-C202_100112A			01/12/10 12:58	
Selenium-IV		0.0004	mg/L	0.0003						
Sample ID: As/Se 1.0ppm-Q 0105		Laboratory Control Sample				Run: CVAA-C202_100112A			01/12/10 13:00	
Selenium-IV		0.0515	mg/L	0.0010	102	90	110			
Sample ID: C10010243-001DMS		Sample Matrix Spike				Run: CVAA-C202_100112A			01/12/10 13:16	
Selenium-IV		0.0465	mg/L	0.0010	92	85	115			
Sample ID: C10010243-001DMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_100112A			01/12/10 13:18	
Selenium-IV		0.0469	mg/L	0.0010	93	85	115		10	
Sample ID: C10010243-011DMS		Sample Matrix Spike				Run: CVAA-C202_100112A			01/12/10 13:51	
Selenium-IV		0.0457	mg/L	0.0010	90	85	115			
Sample ID: C10010243-011DMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_100112A			01/12/10 13:54	
Selenium-IV		0.0466	mg/L	0.0010	92	85	115	1.9	10	
Method: A3114 B									Batch: SE3114-100113A	
Sample ID: MBLK		Method Blank				Run: CVAA-C202_100113A			01/13/10 13:12	
Selenium-IV		ND	mg/L	0.0003						
Sample ID: As/Se 1.0ppm-Q 0105		Laboratory Control Sample				Run: CVAA-C202_100113A			01/13/10 13:14	
Selenium-IV		0.0492	mg/L	0.0010	98	90	110			
Sample ID: C10010246-001DMS		Sample Matrix Spike				Run: CVAA-C202_100113A			01/13/10 13:33	
Selenium-IV		0.0476	mg/L	0.0010	92	85	115			
Sample ID: C10010246-001DMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_100113A			01/13/10 13:35	
Selenium-IV		0.0489	mg/L	0.0010	95	85	115	2.8	10	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 02/23/10
Work Order: C10010243

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-Cl B									Batch: 100115A-CL-TTR-W	
Sample ID: MBLK9-100115A		Method Blank				Run: TITRATION_100115A			01/15/10 11:47	
Chloride		ND	mg/L	0.4						
Sample ID: C10010243-002AMS		Sample Matrix Spike				Run: TITRATION_100115A			01/15/10 13:07	
Chloride		487	mg/L	1.0	106	90	110			
Sample ID: C10010243-002AMSD		Sample Matrix Spike Duplicate				Run: TITRATION_100115A			01/15/10 13:08	
Chloride		480	mg/L	1.0	104	90	110	1.5	10	
Sample ID: C10010247-001AMS		Sample Matrix Spike				Run: TITRATION_100115A			01/15/10 14:15	
Chloride		600	mg/L	1.0	97	90	110			
Sample ID: C10010247-001AMSD		Sample Matrix Spike Duplicate				Run: TITRATION_100115A			01/15/10 14:17	
Chloride		604	mg/L	1.0	98	90	110	0.6	10	
Sample ID: LCS35-100115A		Laboratory Control Sample				Run: TITRATION_100115A			01/15/10 14:22	
Chloride		3460	mg/L	1.0	98	90	110			

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 02/23/10
Work Order: C10010243

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_100111A		
Sample ID: ICV1_100111_1		Initial Calibration Verification Standard							01/11/10 08:32	
pH		6.9	s.u.	0.010	100	98	102			
Method: A4500-H B								Batch: 100111_1_PH-W_555A-2		
Sample ID: C10010243-009ADUP		Sample Duplicate				Run: ORION555A-2_100111A			01/11/10 09:30	
pH		7.0	s.u.	0.010						

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QA/QC Summary Report

Client: United Nuclear Corporation
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Report Date: 02/23/10
Work Order: C10010243

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R128843
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100122A				01/22/10 10:43
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100122A				01/22/10 10:45
Nitrogen, Ammonia as N		21.7	mg/L	0.20	108	80	120			
Sample ID: C10010571-005EMS		Sample Matrix Spike				Run: TECHNICON_100122A				01/22/10 10:57
Nitrogen, Ammonia as N		1.90	mg/L	0.050	94	80	120			
Sample ID: C10010571-005EMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100122A				01/22/10 10:59
Nitrogen, Ammonia as N		1.80	mg/L	0.050	89	80	120	5.4	20	
Sample ID: C10010571-009EMS		Sample Matrix Spike				Run: TECHNICON_100122A				01/22/10 12:53
Nitrogen, Ammonia as N		1.80	mg/L	0.050	83	80	120			
Sample ID: C10010571-009EMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100122A				01/22/10 12:55
Nitrogen, Ammonia as N		1.85	mg/L	0.050	86	80	120	2.7	20	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 02/23/10
Work Order: C10010243

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-SO4 E									Batch: 100112_1_SO4-TURB-W	
Sample ID: LCS-1_100112		Laboratory Control Sample				Run: TURB-2_100112A			01/12/10 09:23	
Sulfate		5160	mg/L	59	107	90	110			
Sample ID: MBLK-1_100112		Method Blank				Run: TURB-2_100112A			01/12/10 09:26	
Sulfate		ND	mg/L	0.6						
Sample ID: C10010243-010AMS		Sample Matrix Spike				Run: TURB-2_100112A			01/12/10 09:50	
Sulfate		4280	mg/L	59	99	90	110			
Sample ID: C10010243-010AMSD		Sample Matrix Spike Duplicate				Run: TURB-2_100112A			01/12/10 09:53	
Sulfate		4240	mg/L	59	97	90	110	0.9	10	
Method: A4500-SO4 E									Batch: 100209_1_SO4-TURB-W	
Sample ID: LCS-1_		Laboratory Control Sample				Run: TURB-2_100209A			02/09/10 10:38	
Sulfate		4880	mg/L	59	102	90	110			
Sample ID: MBLK-1_		Method Blank				Run: TURB-2_100209A			02/09/10 10:38	
Sulfate		ND	mg/L	0.6						
Sample ID: C10010243-012BMS		Sample Matrix Spike				Run: TURB-2_100209A			02/09/10 10:46	
Sulfate		7760	mg/L	150	101	90	110			
Sample ID: C10010243-012BMSD		Sample Matrix Spike Duplicate				Run: TURB-2_100209A			02/09/10 11:02	
Sulfate		7680	mg/L	150	100	90	110	1	10	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 02/23/10
Work Order: C10010243

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E1632AM									Batch: H_R59688	
Sample ID: MBLK_13r		Method Blank				Run: SUB-H59688			01/14/10 14:07	
Arsenic-III		ND	ug/L	0.3						
Sample ID: AS100114-LCS		Laboratory Control Sample				Run: SUB-H59688			01/14/10 14:12	
Arsenic-III		53.4	ug/L	5.0	107	90	110			
Sample ID: C10010243-005E		Sample Matrix Spike				Run: SUB-H59688			01/14/10 15:05	
Arsenic-III		54.7	ug/L	5.0	109	80	120			
Sample ID: C10010243-005E		Sample Matrix Spike Duplicate				Run: SUB-H59688			01/14/10 15:10	
Arsenic-III		51.6	ug/L	5.0	103	80	120	5.8	20	
Method: E1632AM									Batch: H_R59978	
Sample ID: MBLK_13r		Method Blank				Run: SUB-H59978			01/28/10 13:21	
Arsenic-III		ND	ug/L	0.3						
Sample ID: AS100128-LCS		Laboratory Control Sample				Run: SUB-H59978			01/28/10 13:26	
Arsenic-III		53.8	ug/L	5.0	108	90	110			
Sample ID: H10010115-010E MS		Sample Matrix Spike				Run: SUB-H59978			01/28/10 13:46	
Arsenic-III		55.6	ug/L	5.0	111	80	120			
Sample ID: H10010115-010E MSD		Sample Matrix Spike Duplicate				Run: SUB-H59978			01/28/10 13:51	
Arsenic-III		61.5	ug/L	5.0	123	80	120	10	20	S

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S - Spike recovery outside of advisory limits.

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 02/23/10
Work Order: C10010243

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R128464
Sample ID: MB-100111A	4	Method Blank				Run: ICP2-C_100111A				01/11/10 14:16
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.09						
Potassium		ND	mg/L	0.1						
Sodium		ND	mg/L	0.2						
Sample ID: LFB-100111A	4	Laboratory Fortified Blank				Run: ICP2-C_100111A				01/11/10 14:20
Calcium		49.8	mg/L	0.50	100	85	115			
Magnesium		47.4	mg/L	0.50	95	85	115			
Potassium		48.7	mg/L	0.50	97	85	115			
Sodium		48.5	mg/L	0.50	97	85	115			
Sample ID: C10010243-001CMS2	3	Sample Matrix Spike				Run: ICP2-C_100111A				01/11/10 16:20
Calcium		1410	mg/L	2.5	101	70	130			
Magnesium		861	mg/L	1.0	96	70	130			
Potassium		468	mg/L	1.0	89	70	130			
Sample ID: C10010243-001CMSD	3	Sample Matrix Spike Duplicate				Run: ICP2-C_100111A				01/11/10 16:24
Calcium		1380	mg/L	2.5	95	70	130	2.3	20	
Magnesium		871	mg/L	1.0	98	70	130	1.2	20	
Potassium		472	mg/L	1.0	90	70	130	0.7	20	
Sample ID: C10010243-011CMS2	4	Sample Matrix Spike				Run: ICP2-C_100111A				01/11/10 17:57
Calcium		979	mg/L	2.5	94	70	130			
Magnesium		1600	mg/L	1.0	99	70	130			
Potassium		484	mg/L	1.0	92	70	130			
Sodium		784	mg/L	2.3	97	70	130			
Sample ID: C10010243-011CMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_100111A				01/11/10 18:01
Calcium		963	mg/L	2.5	91	70	130	1.7	20	
Magnesium		1610	mg/L	1.0	100	70	130	0.4	20	
Potassium		476	mg/L	1.0	91	70	130	1.6	20	
Sodium		782	mg/L	2.3	97	70	130	0.3	20	
Method: E200.7										Batch: R128503
Sample ID: MB-100112A		Method Blank				Run: ICP2-C_100112A				01/12/10 12:03
Sodium		ND	mg/L	0.2						
Sample ID: LFB-100112A		Laboratory Fortified Blank				Run: ICP2-C_100112A				01/12/10 12:07
Sodium		45.8	mg/L	0.50	92	85	115			
Sample ID: C10010007-001AMS2		Sample Matrix Spike				Run: ICP2-C_100112A				01/12/10 12:59
Sodium		780	mg/L	1.2	93	70	130			
Sample ID: C10010007-001AMSD		Sample Matrix Spike Duplicate				Run: ICP2-C_100112A				01/12/10 13:06
Sodium		783	mg/L	1.2	94	70	130	0.4	20	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 02/23/10
Work Order: C10010243

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: B_R142545
Sample ID: MB-TJADIS100129A	4	Method Blank				Run: SUB-B142545				01/29/10 11:53
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.06						
Potassium		0.1	mg/L	0.05						
Sodium		ND	mg/L	0.02						
Sample ID: LFB-TJADIS100129A	4	Laboratory Fortified Blank				Run: SUB-B142545				01/29/10 11:56
Calcium		48.8	mg/L	1.0	98	85	115			
Magnesium		49.8	mg/L	1.0	100	85	115			
Potassium		50.4	mg/L	1.0	100	85	115			
Sodium		50.1	mg/L	1.0	100	85	115			
Sample ID: B10011802-002CMS2	4	Sample Matrix Spike				Run: SUB-B142545				01/29/10 17:19
Calcium		940	mg/L	2.1	95	70	130			
Magnesium		1020	mg/L	1.0	102	70	130			
Potassium		535	mg/L	1.0	105	70	130			
Sodium		699	mg/L	3.1	106	70	130			
Sample ID: B10011802-002CMSD	4	Sample Matrix Spike Duplicate				Run: SUB-B142545				01/29/10 17:22
Calcium		912	mg/L	2.1	90	70	130	3	20	
Magnesium		990	mg/L	1.0	96	70	130	2.8	20	
Potassium		536	mg/L	1.0	105	70	130	0.2	20	
Sodium		688	mg/L	3.1	103	70	130	1.7	20	

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QA/QC Summary Report

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Report Date: 02/23/10
Work Order: C10010243

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R128679
Sample ID: LRB	4	Method Blank				Run: ICPMS2-C_100118A				01/18/10 15:41
Aluminum		0.003	mg/L	0.002						
Beryllium		ND	mg/L	6E-05						
Cobalt		ND	mg/L	0.00010						
Manganese		ND	mg/L	5E-05						
Sample ID: LFB	4	Laboratory Fortified Blank				Run: ICPMS2-C_100118A				01/18/10 15:47
Aluminum		0.0510	mg/L	0.0022	95	85	115			
Beryllium		0.0503	mg/L	0.0010	100	85	115			
Cobalt		0.0512	mg/L	0.0010	102	85	115			
Manganese		0.0510	mg/L	0.0010	102	85	115			
Sample ID: C10010243-007DMS4	4	Sample Matrix Spike				Run: ICPMS2-C_100118A				01/19/10 02:14
Aluminum		0.439	mg/L	0.10	88	70	130			
Beryllium		0.453	mg/L	0.010	91	70	130			
Cobalt		0.495	mg/L	0.010	97	70	130			
Manganese		1.87	mg/L	0.010	96	70	130			
Sample ID: C10010243-007DMSD	4	Sample Matrix Spike Duplicate				Run: ICPMS2-C_100118A				01/19/10 02:48
Aluminum		0.458	mg/L	0.10	92	70	130	4.2	20	
Beryllium		0.485	mg/L	0.010	97	70	130	7	20	
Cobalt		0.499	mg/L	0.010	98	70	130	0.8	20	
Manganese		1.88	mg/L	0.010	99	70	130	0.7	20	
Method: E200.8										Batch: R128825
Sample ID: LRB		Method Blank				Run: ICPMS2-C_100121A				01/21/10 17:10
Beryllium		ND	mg/L	6E-05						
Sample ID: LFB		Laboratory Fortified Blank				Run: ICPMS2-C_100121A				01/21/10 17:28
Beryllium		0.0509	mg/L	0.0010	102	85	115			
Sample ID: C10010243-007DMS4		Sample Matrix Spike				Run: ICPMS2-C_100121A				01/21/10 21:50
Beryllium		0.243	mg/L	0.010	97	70	130			
Sample ID: C10010243-007DMSD		Sample Matrix Spike Duplicate				Run: ICPMS2-C_100121A				01/21/10 21:57
Beryllium		0.235	mg/L	0.010	94	70	130	3.2	20	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 02/23/10
Work Order: C10010243

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R128639
Sample ID: LRB	10	Method Blank				Run: ICPMS4-C_100115A				01/15/10 13:07
Aluminum		ND	mg/L	0.0004						
Beryllium		ND	mg/L	6E-05						
Cadmium		ND	mg/L	4E-05						
Cobalt		ND	mg/L	4E-05						
Lead		ND	mg/L	2E-05						
Manganese		ND	mg/L	3E-05						
Molybdenum		ND	mg/L	0.0001						
Nickel		ND	mg/L	6E-05						
Uranium		7E-05	mg/L	3E-05						
Vanadium		ND	mg/L	4E-05						
Sample ID: LFB	10	Laboratory Fortified Blank				Run: ICPMS4-C_100115A				01/15/10 13:12
Aluminum		0.0512	mg/L	0.0010	102	85	115			
Beryllium		0.0488	mg/L	0.010	98	85	115			
Cadmium		0.0518	mg/L	0.0010	104	85	115			
Cobalt		0.0514	mg/L	0.0010	103	85	115			
Lead		0.0501	mg/L	0.0010	100	85	115			
Manganese		0.0520	mg/L	0.0010	104	85	115			
Molybdenum		0.0512	mg/L	0.0010	102	85	115			
Nickel		0.0525	mg/L	0.0010	105	85	115			
Uranium		0.0513	mg/L	0.00030	102	85	115			
Vanadium		0.0517	mg/L	0.0010	103	85	115			
Sample ID: C10010243-008DMS4	10	Sample Matrix Spike				Run: ICPMS4-C_100115A				01/16/10 01:04
Aluminum		0.256	mg/L	0.10	103	70	130			
Beryllium		0.224	mg/L	0.010	90	70	130			
Cadmium		0.272	mg/L	0.010	109	70	130			
Cobalt		0.282	mg/L	0.010	112	70	130			
Lead		0.279	mg/L	0.050	112	70	130			
Manganese		0.324	mg/L	0.010	102	70	130			
Molybdenum		0.286	mg/L	0.10	115	70	130			
Nickel		0.279	mg/L	0.050	109	70	130			
Uranium		0.346	mg/L	0.00035	97	70	130			
Vanadium		0.288	mg/L	0.10	115	70	130			
Sample ID: C10010243-008DMSD	10	Sample Matrix Spike Duplicate				Run: ICPMS4-C_100115A				01/16/10 01:09
Aluminum		0.265	mg/L	0.10	106	70	130	3.3	20	
Beryllium		0.233	mg/L	0.010	93	70	130	3.9	20	
Cadmium		0.274	mg/L	0.010	110	70	130	0.7	20	
Cobalt		0.288	mg/L	0.010	114	70	130	2	20	
Lead		0.281	mg/L	0.050	113	70	130	0.9	20	
Manganese		0.330	mg/L	0.010	105	70	130	1.8	20	
Molybdenum		0.291	mg/L	0.10	117	70	130	1.8	20	
Nickel		0.283	mg/L	0.050	111	70	130	1.5	20	

Qualifiers:

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MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 02/23/10
Work Order: C10010243

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R128639
Sample ID: C10010243-008DMSD	10	Sample Matrix Spike Duplicate				Run: ICPMS4-C_100115A				01/16/10 01:09
Uranium		0.349	mg/L	0.00035	98	70	130	0.9	20	
Vanadium		0.292	mg/L	0.10	117	70	130	1.3	20	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 02/23/10
Work Order: C10010243

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: R128717	
Sample ID: LRB	9	Method Blank				Run: ICPMS4-C_100119A			01/19/10 12:18	
Aluminum		0.005	mg/L	0.0004						
Cadmium		ND	mg/L	4E-05						
Cobalt		ND	mg/L	4E-05						
Lead		ND	mg/L	2E-05						
Manganese		ND	mg/L	3E-05						
Molybdenum		ND	mg/L	0.0001						
Nickel		ND	mg/L	6E-05						
Uranium		ND	mg/L	3E-05						
Vanadium		ND	mg/L	4E-05						
Sample ID: LFB	9	Laboratory Fortified Blank				Run: ICPMS4-C_100119A			01/19/10 12:23	
Aluminum		0.0539	mg/L	0.0010	97	85	115			
Cadmium		0.0564	mg/L	0.0010	113	85	115			
Cobalt		0.0563	mg/L	0.0010	113	85	115			
Lead		0.0550	mg/L	0.0010	110	85	115			
Manganese		0.0565	mg/L	0.0010	113	85	115			
Molybdenum		0.0559	mg/L	0.0010	112	85	115			
Nickel		0.0556	mg/L	0.0010	111	85	115			
Uranium		0.0574	mg/L	0.00030	115	85	115			
Vanadium		0.0547	mg/L	0.0010	109	85	115			
Sample ID: C10010493-004CMS4	9	Sample Matrix Spike				Run: ICPMS4-C_100119A			01/19/10 23:38	
Aluminum		0.0553	mg/L	0.0013	101	70	130			
Cadmium		0.0539	mg/L	0.010	108	70	130			
Cobalt		0.0534	mg/L	0.010	106	70	130			
Lead		0.0544	mg/L	0.050	108	70	130			
Manganese		0.0593	mg/L	0.010	110	70	130			
Molybdenum		0.0558	mg/L	0.0010	109	70	130			
Nickel		0.0509	mg/L	0.050	101	70	130			
Uranium		0.491	mg/L	0.00030		70	130			A
Vanadium		0.0540	mg/L	0.0010	106	70	130			
Sample ID: C10010493-004CMSD	9	Sample Matrix Spike Duplicate				Run: ICPMS4-C_100119A			01/19/10 23:43	
Aluminum		0.0562	mg/L	0.0013	103	70	130	1.6	20	
Cadmium		0.0549	mg/L	0.010	110	70	130	1.8	20	
Cobalt		0.0549	mg/L	0.010	109	70	130	2.9	20	
Lead		0.0549	mg/L	0.050	109	70	130	0.8	20	
Manganese		0.0611	mg/L	0.010	113	70	130	2.9	20	
Molybdenum		0.0566	mg/L	0.0010	110	70	130	1.4	20	
Nickel		0.0509	mg/L	0.050	101	70	130	0	20	
Uranium		0.495	mg/L	0.00030		70	130	0.9	20	A
Vanadium		0.0539	mg/L	0.0010	106	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 02/23/10
Work Order: C10010243

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R128704
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100119A				01/19/10 14:19
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.03						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100119A				01/19/10 14:21
Nitrogen, Nitrate+Nitrite as N		2.63	mg/L	0.10	102	90	110			
Sample ID: C10010354-001AMS		Sample Matrix Spike				Run: TECHNICON_100119A				01/19/10 14:36
Nitrogen, Nitrate+Nitrite as N		2.64	mg/L	0.10	109	90	110			
Sample ID: C10010354-001AMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100119A				01/19/10 14:39
Nitrogen, Nitrate+Nitrite as N		2.67	mg/L	0.10	110	90	110	1.1	10	
Sample ID: C10010243-006GMS		Sample Matrix Spike				Run: TECHNICON_100119A				01/19/10 15:14
Nitrogen, Nitrate+Nitrite as N		4.35	mg/L	0.10	108	90	110			
Sample ID: C10010243-006GMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100119A				01/19/10 15:16
Nitrogen, Nitrate+Nitrite as N		4.38	mg/L	0.10	109	90	110	0.7	10	
Sample ID: C10010490-001EMS		Sample Matrix Spike				Run: TECHNICON_100119A				01/19/10 15:54
Nitrogen, Nitrate+Nitrite as N		1.91	mg/L	0.10	94	90	110			
Sample ID: C10010490-001EMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100119A				01/19/10 15:56
Nitrogen, Nitrate+Nitrite as N		1.87	mg/L	0.10	92	90	110	2.1	10	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 02/23/10
Work Order: C10010243

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R128509
Sample ID: 11-Jan-10_LCS_3	9	Laboratory Control Sample				Run: 5975VOC1_100111A				01/11/10 13:37
Bromodichloromethane		9.48	ug/L	1.0	95	70	130			
Bromoform		9.36	ug/L	1.0	94	70	130			
Chlorodibromomethane		10.4	ug/L	1.0	104	70	130			
Chloroform		10.2	ug/L	1.0	102	70	130			
Trihalomethanes, Total		39.4	ug/L	1.0	99	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	93	80	120			
Surr: Dibromofluoromethane				1.0	95	80	120			
Surr: p-Bromofluorobenzene				1.0	102	80	120			
Surr: Toluene-d8				1.0	108	80	120			
Sample ID: 11-Jan-10_MBLK_6	9	Method Blank				Run: 5975VOC1_100111A				01/11/10 15:23
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Trihalomethanes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichlorobenzene-d4				1.0	115	80	120			
Surr: Dibromofluoromethane				1.0	96	80	120			
Surr: p-Bromofluorobenzene				1.0	105	80	120			
Surr: Toluene-d8				1.0	101	80	120			
Sample ID: C10010246-002HMS	9	Sample Matrix Spike				Run: 5975VOC1_100111A				01/11/10 20:09
Bromodichloromethane		98.0	ug/L	10	98	70	130			
Bromoform		112	ug/L	10	112	70	130			
Chlorodibromomethane		108	ug/L	10	108	70	130			
Chloroform		105	ug/L	10	105	70	130			
Trihalomethanes, Total		423	ug/L	10	106	70	130			
Surr: 1,2-Dichlorobenzene-d4				10	117	80	120			
Surr: Dibromofluoromethane				10	101	80	120			
Surr: p-Bromofluorobenzene				10	106	80	120			
Surr: Toluene-d8				10	100	80	120			
Sample ID: C10010246-002HMSD	9	Sample Matrix Spike Duplicate				Run: 5975VOC1_100111A				01/11/10 20:45
Bromodichloromethane		100	ug/L	10	100	70	130	2	20	
Bromoform		118	ug/L	10	118	70	130	4.9	20	
Chlorodibromomethane		112	ug/L	10	112	70	130	4	20	
Chloroform		109	ug/L	10	109	70	130	4.1	20	
Trihalomethanes, Total		439	ug/L	10	110	70	130	3.8	20	
Surr: 1,2-Dichlorobenzene-d4				10	116	80	120			
Surr: Dibromofluoromethane				10	102	80	120			
Surr: p-Bromofluorobenzene				10	105	80	120			
Surr: Toluene-d8				10	100	80	120			

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 02/23/10
Work Order: C10010243

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.1										Batch: GA-0290
Sample ID: MB-GA-0290	3	Method Blank				Run: BERTHOLD 770-1_100115A				01/19/10 11:43
Gross Alpha minus Rn & U		0.1	pCi/L							U
Gross Alpha minus Rn & U Precision (±)		0.3	pCi/L							
Gross Alpha minus Rn & U MDC		0.5	pCi/L							
Sample ID: LCS-GA-0290		Laboratory Control Sample				Run: BERTHOLD 770-1_100115A				01/19/10 11:43
Gross Alpha minus Rn & U		26.9	pCi/L		102	70	130			
Sample ID: C09100421-007FMS		Sample Matrix Spike				Run: BERTHOLD 770-1_100115A				01/19/10 16:02
Gross Alpha minus Rn & U		48.1	pCi/L		89	70	130			
Sample ID: C09100421-007FMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-1_100115A				01/19/10 16:02
Gross Alpha minus Rn & U		50.2	pCi/L		93	70	130	4.3	24.3	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 02/23/10
Work Order: C10010243

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: RA226-4285
Sample ID: C10010243-016FMS		Sample Matrix Spike				Run: BERTHOLD 770-1_100112A				02/01/10 21:23
Radium 226		15	pCi/L		96	70	130			
Sample ID: C10010243-016FMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-1_100112A				02/01/10 21:23
Radium 226		16	pCi/L		102	70	130	7	25.1	
Sample ID: MB-RA226-4285	3	Method Blank				Run: BERTHOLD 770-1_100112A				02/01/10 22:58
Radium 226		-0.2	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4285		Laboratory Control Sample				Run: BERTHOLD 770-1_100112A				02/01/10 22:58
Radium 226		8.2	pCi/L		105	70	130			
Method: E903.0										Batch: RA226-4284
Sample ID: C10010243-001FMS		Sample Matrix Spike				Run: G542M_100112A				02/01/10 13:39
Radium 226		15	pCi/L		90	70	130			
Sample ID: C10010243-001FMSD		Sample Matrix Spike Duplicate				Run: G542M_100112A				02/01/10 13:39
Radium 226		15	pCi/L		95	70	130	5.4	22.8	
Sample ID: MB-RA226-4284	3	Method Blank				Run: G542M_100112A				02/01/10 13:39
Radium 226		-0.02	pCi/L							U
Radium 226 precision (±)		0.06pCi/L								
Radium 226 MDC		0.1	pCi/L							
Sample ID: LCS-RA226-4284		Laboratory Control Sample				Run: G542M_100112A				02/01/10 13:39
Radium 226		7.4	pCi/L		94	70	130			

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 02/23/10
Work Order: C10010243

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0										Batch: RA-TH-ISO-1066
Sample ID: LCS-RA-TH-ISO-1066		Laboratory Control Sample				Run: EGG-ORTEC_100111C				01/13/10 13:38
Thorium 230		5.4	pCi/L		89	70	130			
Sample ID: C10010243-004FMS		Sample Matrix Spike				Run: EGG-ORTEC_100111C				01/13/10 13:38
Thorium 230		12.4	pCi/L		93	70	130			
Sample ID: C10010243-004FMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_100111C				01/13/10 13:38
Thorium 230		14.3	pCi/L		105	70	130	14	34.9	
Sample ID: MB-RA-TH-ISO-1066	3	Method Blank				Run: EGG-ORTEC_100111C				01/14/10 09:08
Thorium 230		0.02	pCi/L							U
Thorium 230 precision (±)		0.06	pCi/L							
Thorium 230 MDC		0.1	pCi/L							

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 02/23/10
Work Order: C10010243

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M										Batch: R129298
Sample ID: C09070805-003AMS		Sample Matrix Spike				Run: BECKMAN 6100TA_100122A				01/22/10 08:45
Lead 210		220	pCi/L		100	70	130			
Sample ID: C09070805-003AMSD		Sample Matrix Spike Duplicate				Run: BECKMAN 6100TA_100122A				01/22/10 08:45
Lead 210		220	pCi/L		99	70	130	1.2	30	
Sample ID: MB-R129298	3	Method Blank				Run: BECKMAN 6100TA_100122A				01/22/10 08:45
Lead 210		ND	pCi/L							U
Lead 210 precision (±)		5	pCi/L							
Lead 210 MDC		8	pCi/L							
Sample ID: LCS-R129298		Laboratory Control Sample				Run: BECKMAN 6100TA_100122A				01/22/10 08:45
Lead 210		100	pCi/L		92	70	130			

Qualifiers:

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MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 02/23/10
Work Order: C10010243

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-3027
Sample ID: LCS-228-RA226-4284		Laboratory Control Sample				Run: TENNELEC-3_100112A				01/25/10 16:02
Radium 228		7.9	pCi/L		98	70	130			
Sample ID: MB-RA226-4284	3	Method Blank				Run: TENNELEC-3_100112A				01/25/10 16:02
Radium 228		0.04	pCi/L							U
Radium 228 precision (±)		0.8	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: C10010243-010FMS		Sample Matrix Spike				Run: TENNELEC-3_100112A				01/25/10 16:02
Radium 228		17	pCi/L		94	70	130			
Sample ID: C10010243-010FMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_100112A				01/25/10 16:02
Radium 228		16	pCi/L		90	70	130	4.2	36.3	
Method: RA-05										Batch: RA228-3028
Sample ID: LCS-228-RA226-4285		Laboratory Control Sample				Run: TENNELEC-3_100112B				01/27/10 12:05
Radium 228		8.6	pCi/L		103	70	130			
Sample ID: MB-RA226-4285	3	Method Blank				Run: TENNELEC-3_100112B				01/27/10 12:05
Radium 228		0.3	pCi/L							U
Radium 228 precision (±)		1	pCi/L							
Radium 228 MDC		2	pCi/L							
Sample ID: C10010247-001FMS		Sample Matrix Spike				Run: TENNELEC-3_100112B				01/27/10 12:05
Radium 228		19	pCi/L		95	70	130			
Sample ID: C10010247-001FMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_100112B				01/27/10 12:05
Radium 228		17	pCi/L		84	70	130	9.8	34.1	

Qualifiers:

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MDC - Minimum detectable concentration
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ANALYTICAL SUMMARY REPORT

February 04, 2010

United Nuclear Corp
PO Box 3077
Gallup, NM 87305

Workorder No.: C10010247 Quote ID: C129 - Quarterly Long List

Project Name: Zone 1

Energy Laboratories, Inc. received the following 4 samples for United Nuclear Corp on 1/8/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C10010247-001	515-A	01/06/10 09:30	01/08/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Chloride Arsenic Speciation Selenium-IV, Total Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Metals Preparation by EPA 200.2 Gross Alpha minus Rn222 and Uranium Lead 210, Total Radium 226, Total Radium 228, Total Thorium, Isotopic Solids, Total Dissolved Sulfate E624 Purgeable Organics
C10010247-002	604	01/06/10 10:35	01/08/10	Aqueous	Same As Above
C10010247-003	614	01/06/10 11:55	01/08/10	Aqueous	Same As Above
C10010247-004	Field Blank	01/06/10 12:30	01/08/10	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: Stephanie D. Waldrop

Stephanie D. Waldrop
Reporting Supervisor

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CLIENT: United Nuclear Corp
Project: Zone 1
Sample Delivery Group: C10010247

Date: *04-Feb-10*

CASE NARRATIVE

BRANCH LABORATORY SUBCONTRACT ANALYSIS
Tests Associated with Analyst identified as ELI-H were subcontracted to Energy Laboratories Helena Branch, EPA Number MT00945.

ORIGINAL SAMPLE SUBMITTAL(S)
All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)
Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS
Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

RADON IN AIR ANALYSIS
The desired exposure time is 48 hours (2 days). The time delay in returning the canister to the laboratory for processing should be as short as possible to avoid excessive decay. Maximum recommended delay between end of exposure to beginning of counting should not exceed 8 days.

SOIL/SOLID SAMPLES
All samples reported on an as received basis unless otherwise indicated.

ATRAZINE, SIMAZINE AND PCB ANALYSIS
Data for PCBs, Atrazine and Simazine are reported from EPA 525.2. PCB data reported by ELI reflects the results for seven individual Aroclors. When the results for all seven are ND (not detected), the sample meets EPA compliance criteria for PCB monitoring.

SUBCONTRACTING ANALYSIS
Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS
eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:
USEPA: WY00002, Radiochemical WY00937; FL-DOH NELAC: E87641, Radiochemical E871017; California: 02118CA; Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:
The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER,WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

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Toll Free 888.235.0515 • 307.235.0515 • Fax 307.234.1639 • casper@energylab.com • www.energylab.com

QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 02/04/10
Work Order: C10010247

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R128504
Sample ID: MBLK	2	Method Blank				Run: MANTECH_100112A				01/12/10 13:03
Alkalinity, Total as CaCO3		3	mg/L	1						
Bicarbonate as HCO3		4	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_100112A				01/12/10 13:20
Alkalinity, Total as CaCO3		191	mg/L	5.0	94	90	110			
Sample ID: LCS		Laboratory Control Sample				Run: MANTECH_100112A				01/12/10 13:29
Alkalinity, Total as CaCO3		52.8	mg/L	5.0	99	90	110			
Sample ID: C10010243-010AMS		Sample Matrix Spike				Run: MANTECH_100112A				01/12/10 16:55
Alkalinity, Total as CaCO3		1350	mg/L	5.0	85	80	120			
Sample ID: C10010243-010AMSD		Sample Matrix Spike Duplicate				Run: MANTECH_100112A				01/12/10 17:07
Alkalinity, Total as CaCO3		1360	mg/L	5.0	93	80	120	0.8	20	
Method: A2540 C										Batch: 100111_1_SLDS-TDS-W
Sample ID: MBLK1_100111		Method Blank				Run: BAL-1_100111A				01/11/10 09:44
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_100111		Laboratory Control Sample				Run: BAL-1_100111A				01/11/10 09:45
Solids, Total Dissolved TDS @ 180 C		994	mg/L	10	99	90	110			
Sample ID: C10010247-004BMS		Sample Matrix Spike				Run: BAL-1_100111A				01/11/10 09:53
Solids, Total Dissolved TDS @ 180 C		2030	mg/L	10	101	90	110			
Sample ID: C10010247-004BMSD		Sample Matrix Spike Duplicate				Run: BAL-1_100111A				01/11/10 09:53
Solids, Total Dissolved TDS @ 180 C		2030	mg/L	10	102	90	110	0.4	10	
Method: A3114 B										Batch: SE3114-100112A
Sample ID: MBLK		Method Blank				Run: CVAA-C202_100112A				01/12/10 12:58
Selenium-IV		0.0004	mg/L	0.0003						
Sample ID: As/Se 1.0ppm-Q 0105		Laboratory Control Sample				Run: CVAA-C202_100112A				01/12/10 13:00
Selenium-IV		0.0515	mg/L	0.0010	102	90	110			
Sample ID: C10010243-011DMS		Sample Matrix Spike				Run: CVAA-C202_100112A				01/12/10 13:51
Selenium-IV		0.0457	mg/L	0.0010	90	85	115			
Sample ID: C10010243-011DMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_100112A				01/12/10 13:54
Selenium-IV		0.0466	mg/L	0.0010	92	85	115	1.9	10	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 02/04/10
Work Order: C10010247

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-Cl B									Batch: 100115A-CL-TTR-W	
Sample ID: MBLK9-100115A		Method Blank				Run: TITRATION_100115A			01/15/10 11:47	
Chloride		ND	mg/L	0.4						
Sample ID: C10010247-001AMS		Sample Matrix Spike				Run: TITRATION_100115A			01/15/10 14:15	
Chloride		600	mg/L	1.0	97	90	110			
Sample ID: C10010247-001AMSD		Sample Matrix Spike Duplicate				Run: TITRATION_100115A			01/15/10 14:17	
Chloride		604	mg/L	1.0	98	90	110	0.6	10	
Sample ID: LCS35-100115A		Laboratory Control Sample				Run: TITRATION_100115A			01/15/10 14:22	
Chloride		3460	mg/L	1.0	98	90	110			
Sample ID: C10010247-003AMS		Sample Matrix Spike				Run: TITRATION_100115A			01/15/10 14:42	
Chloride		487	mg/L	1.0	96	90	110			
Sample ID: C10010247-003AMSD		Sample Matrix Spike Duplicate				Run: TITRATION_100115A			01/15/10 14:45	
Chloride		486	mg/L	1.0	95	90	110	0.4	10	
Method: A4500-Cl B									Batch: 100122-CL-TTR-W	
Sample ID: MBLK9-100122		Method Blank				Run: TITRATION_100122B			01/22/10 14:47	
Chloride		ND	mg/L	0.4						
Sample ID: C10010505-004BMS		Sample Matrix Spike				Run: TITRATION_100122B			01/22/10 16:38	
Chloride		214	mg/L	1.0	98	90	110			
Sample ID: C10010505-004BMSD		Sample Matrix Spike Duplicate				Run: TITRATION_100122B			01/22/10 16:39	
Chloride		214	mg/L	1.0	98	90	110	0	10	
Sample ID: LCS35-100122		Laboratory Control Sample				Run: TITRATION_100122B			01/22/10 16:42	
Chloride		3460	mg/L	1.0	98	90	110			
Method: A4500-H B									Analytical Run: ORION555A-2_100111A	
Sample ID: ICV1_100111_1		Initial Calibration Verification Standard							01/11/10 08:32	
pH		6.9	s.u.	0.010	100	98	102			
Method: A4500-H B									Batch: 100111_1_PH-W_555A-2	
Sample ID: C10010247-001ADUP		Sample Duplicate				Run: ORION555A-2_100111A			01/11/10 10:42	
pH		7.4	s.u.	0.010						

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 02/04/10
Work Order: C10010247

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G									Batch: R128900	
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100125A			01/25/10 10:35	
Nitrogen, Ammonia as N		21.7	mg/L	0.20	108	80	120			
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100125A			01/25/10 10:39	
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: C10010493-005EMS		Sample Matrix Spike				Run: TECHNICON_100125A			01/25/10 11:06	
Nitrogen, Ammonia as N		1.67	mg/L	0.050	84	80	120			
Sample ID: C10010493-005EMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100125A			01/25/10 11:08	
Nitrogen, Ammonia as N		1.66	mg/L	0.050	83	80	120	0.6	20	
Sample ID: C10010556-001EMS		Sample Matrix Spike				Run: TECHNICON_100125A			01/25/10 12:32	
Nitrogen, Ammonia as N		1.63	mg/L	0.050	79	80	120			S
Sample ID: C10010556-001EMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100125A			01/25/10 12:34	
Nitrogen, Ammonia as N		1.68	mg/L	0.050	82	80	120	3	20	
Method: A4500-SO4 E									Batch: 100112_1_SO4-TURB-W	
Sample ID: BLNKB-1_100112		Method Blank				Run: TURB-2_100112A			01/12/10 09:21	
Sulfate		10	mg/L	0.6						
Sample ID: LCS-1_100112		Laboratory Control Sample				Run: TURB-2_100112A			01/12/10 09:23	
Sulfate		5160	mg/L	59	107	90	110			
Sample ID: C10010243-016AMS		Sample Matrix Spike				Run: TURB-2_100112A			01/12/10 10:33	
Sulfate		4550	mg/L	59	103	90	110			
Sample ID: C10010243-016AMSD		Sample Matrix Spike Duplicate				Run: TURB-2_100112A			01/12/10 10:34	
Sulfate		4370	mg/L	59	93	90	110	4.2	10	
Sample ID: C10010247-004AMS		Sample Matrix Spike				Run: TURB-2_100112A			01/12/10 10:59	
Sulfate		22.2	mg/L	1.0	107	90	110			
Sample ID: C10010247-004AMSD		Sample Matrix Spike Duplicate				Run: TURB-2_100112A			01/12/10 11:01	
Sulfate		22.1	mg/L	1.0	106	90	110	0.8	10	
Method: E1632AM									Batch: H_R59978	
Sample ID: MBLK_13r		Method Blank				Run: SUB-H59978			01/28/10 13:21	
Arsenic-III		ND	ug/L	0.3						
Sample ID: AS100128-LCS		Laboratory Control Sample				Run: SUB-H59978			01/28/10 13:26	
Arsenic-III		53.8	ug/L	5.0	108	90	110			
Sample ID: H10010115-010E MS		Sample Matrix Spike				Run: SUB-H59978			01/28/10 13:46	
Arsenic-III		55.6	ug/L	5.0	111	80	120			
Sample ID: H10010115-010E MSD		Sample Matrix Spike Duplicate				Run: SUB-H59978			01/28/10 13:51	
Arsenic-III		61.5	ug/L	5.0	123	80	120	10	20	S

Qualifiers:

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S - Spike recovery outside of advisory limits.

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 02/04/10
Work Order: C10010247

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R128464
Sample ID: MB-100111A	4	Method Blank				Run: ICP2-C_100111A				01/11/10 14:16
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.09						
Potassium		ND	mg/L	0.1						
Sodium		ND	mg/L	0.2						
Sample ID: LFB-100111A	4	Laboratory Fortified Blank				Run: ICP2-C_100111A				01/11/10 14:20
Calcium		49.8	mg/L	0.50	100	85	115			
Magnesium		47.4	mg/L	0.50	95	85	115			
Potassium		48.7	mg/L	0.50	97	85	115			
Sodium		48.5	mg/L	0.50	97	85	115			
Sample ID: C10010247-002CMS2	4	Sample Matrix Spike				Run: ICP2-C_100111A				01/11/10 19:42
Calcium		942	mg/L	2.5	99	70	130			
Magnesium		1300	mg/L	1.0	96	70	130			
Potassium		490	mg/L	1.0	94	70	130			
Sodium		788	mg/L	2.3	95	70	130			
Sample ID: C10010247-002CMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_100111A				01/11/10 19:46
Calcium		910	mg/L	2.5	92	70	130	3.5	20	
Magnesium		1320	mg/L	1.0	101	70	130	1.7	20	
Potassium		487	mg/L	1.0	93	70	130	0.6	20	
Sodium		788	mg/L	2.3	95	70	130	0	20	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 02/04/10
Work Order: C10010247

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R128639
Sample ID: LRB	10	Method Blank				Run: ICPMS4-C_100115A				01/15/10 13:07
Aluminum		ND	mg/L	0.0004						
Beryllium		ND	mg/L	6E-05						
Cadmium		ND	mg/L	4E-05						
Cobalt		ND	mg/L	4E-05						
Lead		ND	mg/L	2E-05						
Manganese		ND	mg/L	3E-05						
Molybdenum		ND	mg/L	0.0001						
Nickel		ND	mg/L	6E-05						
Uranium		7E-05	mg/L	3E-05						
Vanadium		ND	mg/L	4E-05						
Sample ID: LFB	10	Laboratory Fortified Blank				Run: ICPMS4-C_100115A				01/15/10 13:12
Aluminum		0.0512	mg/L	0.0010	102	85	115			
Beryllium		0.0488	mg/L	0.010	98	85	115			
Cadmium		0.0518	mg/L	0.0010	104	85	115			
Cobalt		0.0514	mg/L	0.0010	103	85	115			
Lead		0.0501	mg/L	0.0010	100	85	115			
Manganese		0.0520	mg/L	0.0010	104	85	115			
Molybdenum		0.0512	mg/L	0.0010	102	85	115			
Nickel		0.0525	mg/L	0.0010	105	85	115			
Uranium		0.0513	mg/L	0.00030	102	85	115			
Vanadium		0.0517	mg/L	0.0010	103	85	115			
Sample ID: C10010247-003DMS4	10	Sample Matrix Spike				Run: ICPMS4-C_100115A				01/16/10 03:38
Aluminum		0.236	mg/L	0.10	87	70	130			
Beryllium		0.179	mg/L	0.010	72	70	130			
Cadmium		0.251	mg/L	0.010	101	70	130			
Cobalt		0.259	mg/L	0.010	101	70	130			
Lead		0.261	mg/L	0.050	103	70	130			
Manganese		0.822	mg/L	0.010	87	70	130			
Molybdenum		0.258	mg/L	0.10	103	70	130			
Nickel		0.253	mg/L	0.050	99	70	130			
Uranium		0.328	mg/L	0.00035	111	70	130			
Vanadium		0.253	mg/L	0.10	101	70	130			
Sample ID: C10010247-003DMSD	10	Sample Matrix Spike Duplicate				Run: ICPMS4-C_100115A				01/16/10 03:43
Aluminum		0.234	mg/L	0.10	87	70	130	0.9	20	
Beryllium		0.178	mg/L	0.010	71	70	130	0.3	20	
Cadmium		0.250	mg/L	0.010	100	70	130	0.4	20	
Cobalt		0.258	mg/L	0.010	101	70	130	0.3	20	
Lead		0.259	mg/L	0.050	103	70	130	0.8	20	
Manganese		0.836	mg/L	0.010	92	70	130	1.7	20	
Molybdenum		0.258	mg/L	0.10	103	70	130	0.1	20	
Nickel		0.251	mg/L	0.050	98	70	130	0.7	20	
Uranium		0.328	mg/L	0.00035	111	70	130	0.2	20	
Vanadium		0.250	mg/L	0.10	100	70	130	1.1	20	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 02/04/10
Work Order: C10010247

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R128806
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100121A				01/21/10 13:25
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.03						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100121A				01/21/10 13:28
Nitrogen, Nitrate+Nitrite as N		2.5	mg/L	0.10	98	90	110			
Sample ID: C10010388-001CMS		Sample Matrix Spike				Run: TECHNICON_100121A				01/21/10 13:43
Nitrogen, Nitrate+Nitrite as N		2.1	mg/L	0.10	103	90	110			
Sample ID: C10010388-001CMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100121A				01/21/10 13:45
Nitrogen, Nitrate+Nitrite as N		2.2	mg/L	0.10	107	90	110			

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 02/04/10
Work Order: C10010247

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R128550
Sample ID: 13-Jan-10_LCS_3	9	Laboratory Control Sample				Run: 5975VOC1_100113A				01/13/10 11:34
Bromodichloromethane		9.08	ug/L	1.0	91	70	130			
Bromoform		8.44	ug/L	1.0	84	70	130			
Chlorodibromomethane		9.20	ug/L	1.0	92	70	130			
Chloroform		10.1	ug/L	1.0	101	70	130			
Trihalomethanes, Total		36.8	ug/L	1.0	92	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	98	80	120			
Surr: Dibromofluoromethane				1.0	97	80	120			
Surr: p-Bromofluorobenzene				1.0	100	80	120			
Surr: Toluene-d8				1.0	110	80	120			
Sample ID: 13-Jan-10_MBLK_6	9	Method Blank				Run: 5975VOC1_100113A				01/13/10 13:44
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Trihalomethanes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichlorobenzene-d4				1.0	119	80	120			
Surr: Dibromofluoromethane				1.0	99	80	120			
Surr: p-Bromofluorobenzene				1.0	108	80	120			
Surr: Toluene-d8				1.0	98	80	120			
Sample ID: C10010246-001HMS	9	Sample Matrix Spike				Run: 5975VOC1_100113A				01/13/10 18:30
Bromodichloromethane		90.4	ug/L	10	90	70	130			
Bromoform		88.4	ug/L	10	88	70	130			
Chlorodibromomethane		93.2	ug/L	10	93	70	130			
Chloroform		193	ug/L	10	111	70	130			
Trihalomethanes, Total		465	ug/L	10	96	70	130			
Surr: 1,2-Dichlorobenzene-d4				10	95	80	120			
Surr: Dibromofluoromethane				10	103	80	120			
Surr: p-Bromofluorobenzene				10	101	80	120			
Surr: Toluene-d8				10	109	80	120			
Sample ID: C10010246-001HMSD	9	Sample Matrix Spike Duplicate				Run: 5975VOC1_100113A				01/13/10 19:06
Bromodichloromethane		94.8	ug/L	10	95	70	130	4.8	20	
Bromoform		94.0	ug/L	10	94	70	130	6.1	20	
Chlorodibromomethane		98.4	ug/L	10	98	70	130	5.4	20	
Chloroform		195	ug/L	10	113	70	130	1	20	
Trihalomethanes, Total		482	ug/L	10	100	70	130	3.6	20	
Surr: 1,2-Dichlorobenzene-d4				10	97	80	120			
Surr: Dibromofluoromethane				10	102	80	120			
Surr: p-Bromofluorobenzene				10	100	80	120			
Surr: Toluene-d8				10	107	80	120			

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 02/04/10
Work Order: C10010247

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.1										Batch: GA-0292
Sample ID: MB-GA-0292	3	Method Blank				Run: BERTHOLD 770-1_100122A				01/26/10 12:48
Gross Alpha minus Rn & U		0.3	pCi/L							U
Gross Alpha minus Rn & U Precision (±)		0.4	pCi/L							
Gross Alpha minus Rn & U MDC		0.6	pCi/L							
Sample ID: LCS-GA-0292		Laboratory Control Sample				Run: BERTHOLD 770-1_100122A				01/26/10 12:48
Gross Alpha minus Rn & U		26.7	pCi/L		100	70	130			
Sample ID: C10010496-004BMS		Sample Matrix Spike				Run: BERTHOLD 770-1_100122A				01/26/10 15:23
Gross Alpha minus Rn & U		29.0	pCi/L		105	70	130			
Sample ID: C10010496-004BMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-1_100122A				01/26/10 15:23
Gross Alpha minus Rn & U		28.6	pCi/L		104	70	130	1.4	23.4	
Method: E903.0										Batch: RA226-4284
Sample ID: C10010243-001FMS		Sample Matrix Spike				Run: G542M_100112A				02/01/10 13:39
Radium 226		15	pCi/L		90	70	130			
Sample ID: C10010243-001FMSD		Sample Matrix Spike Duplicate				Run: G542M_100112A				02/01/10 13:39
Radium 226		15	pCi/L		95	70	130	5.4	22.8	
Sample ID: MB-RA226-4284	3	Method Blank				Run: G542M_100112A				02/01/10 13:39
Radium 226		-0.02	pCi/L							U
Radium 226 precision (±)		0.06	pCi/L							
Radium 226 MDC		0.1	pCi/L							
Sample ID: LCS-RA226-4284		Laboratory Control Sample				Run: G542M_100112A				02/01/10 13:39
Radium 226		7.4	pCi/L		94	70	130			
Method: E903.0										Batch: RA226-4285
Sample ID: C10010243-016FMS		Sample Matrix Spike				Run: BERTHOLD 770-1_100112A				02/01/10 21:23
Radium 226		15	pCi/L		96	70	130			
Sample ID: C10010243-016FMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-1_100112A				02/01/10 21:23
Radium 226		16	pCi/L		102	70	130	7	25.1	
Sample ID: MB-RA226-4285	3	Method Blank				Run: BERTHOLD 770-1_100112A				02/01/10 22:58
Radium 226		-0.2	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4285		Laboratory Control Sample				Run: BERTHOLD 770-1_100112A				02/01/10 22:58
Radium 226		8.2	pCi/L		105	70	130			

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 02/04/10
Work Order: C10010247

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0										Batch: RA-TH-ISO-1065
Sample ID: LCS-RA-TH-ISO-1065		Laboratory Control Sample				Run: EGG-ORTEC_100111A				01/13/10 09:13
Thorium 230		5.1	pCi/L		93	70	130			
Sample ID: C09120837-001DMS		Sample Matrix Spike				Run: EGG-ORTEC_100111A				01/13/10 09:13
Thorium 230		12	pCi/L		96	70	130			
Sample ID: C09120837-001DMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_100111A				01/13/10 09:13
Thorium 230		12	pCi/L		93	70	130	1.7	39.6	
Sample ID: MB-RA-TH-ISO-1065	3	Method Blank				Run: EGG-ORTEC_100111A				01/13/10 09:13
Thorium 230		0.007	pCi/L							U
Thorium 230 precision (±)		0.06	pCi/L							
Thorium 230 MDC		0.1	pCi/L							
Method: E909.0M										Batch: R129142
Sample ID: C09070904-006BMS		Sample Matrix Spike				Run: BECKMAN 6100TA_100125A				01/25/10 09:40
Lead 210		230	pCi/L		103	70	130			
Sample ID: C09070904-006BMSD		Sample Matrix Spike Duplicate				Run: BECKMAN 6100TA_100125A				01/25/10 09:40
Lead 210		230	pCi/L		101	70	130	1.9	30	
Sample ID: MB-R129142	3	Method Blank				Run: BECKMAN 6100TA_100125A				01/25/10 09:40
Lead 210		-0.4	pCi/L							U
Lead 210 precision (±)		5	pCi/L							
Lead 210 MDC		8	pCi/L							
Sample ID: LCS-R129142		Laboratory Control Sample				Run: BECKMAN 6100TA_100125A				01/25/10 09:40
Lead 210		93	pCi/L		83	70	130			
Method: RA-05										Batch: RA228-3027
Sample ID: LCS-228-RA226-4284		Laboratory Control Sample				Run: TENNELEC-3_100112A				01/25/10 16:02
Radium 228		7.9	pCi/L		98	70	130			
Sample ID: MB-RA226-4284	3	Method Blank				Run: TENNELEC-3_100112A				01/25/10 16:02
Radium 228		0.04	pCi/L							U
Radium 228 precision (±)		0.8	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: C10010243-010FMS		Sample Matrix Spike				Run: TENNELEC-3_100112A				01/25/10 16:02
Radium 228		17	pCi/L		94	70	130			
Sample ID: C10010243-010FMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_100112A				01/25/10 16:02
Radium 228		16	pCi/L		90	70	130	4.2	36.3	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 02/04/10
Work Order: C10010247

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-3028
Sample ID: LCS-228-RA226-4285		Laboratory Control Sample				Run: TENNELEC-3_100112B				01/27/10 12:05
Radium 228		8.6	pCi/L		103	70	130			
Sample ID: MB-RA226-4285	3	Method Blank				Run: TENNELEC-3_100112B				01/27/10 12:05
Radium 228		0.3	pCi/L							U
Radium 228 precision (±)		1	pCi/L							
Radium 228 MDC		2	pCi/L							
Sample ID: C10010247-001FMS		Sample Matrix Spike				Run: TENNELEC-3_100112B				01/27/10 12:05
Radium 228		19	pCi/L		95	70	130			
Sample ID: C10010247-001FMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_100112B				01/27/10 12:05
Radium 228		17	pCi/L		84	70	130	9.8	34.1	

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ANALYTICAL SUMMARY REPORT

February 23, 2010

United Nuclear Corporation
21 Miles NE Of Gallup
Gallup, NM 87305

Workorder No.: C10010509 Quote ID: C129 - Quarterly Long List

Project Name: Zone 1

Energy Laboratories, Inc. received the following 8 samples for United Nuclear Corporation on 1/15/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C10010509-001	EPA-4	01/11/10 09:20	01/15/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Chloride Arsenic Speciation Selenium-IV, Total Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Metals Preparation by EPA 200.2 Gross Alpha minus Rn222 and Uranium Lead 210, Total Radium 226, Total Radium 228, Total Thorium, Isotopic Solids, Total Dissolved Sulfate E624 Purgeable Organics
C10010509-002	EPA-5	01/11/10 10:11	01/15/10	Aqueous	Same As Above
C10010509-003	EPA-7	01/11/10 10:50	01/15/10	Aqueous	Same As Above
C10010509-004	EPA-2	01/11/10 11:38	01/15/10	Aqueous	Same As Above
C10010509-005	EPA-2 Duplicate	01/11/10 12:25	01/15/10	Aqueous	Same As Above
C10010509-006	TWQ-142	01/12/10 13:00	01/15/10	Aqueous	Same As Above
C10010509-007	517	01/11/10 12:55	01/15/10	Aqueous	Same As Above
C10010509-008	Field Blank	01/12/10 16:00	01/15/10	Aqueous	Same As Above

Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By: Stephanie D. Waldrop
Stephanie D. Waldrop
Reporting Supervisor

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CLIENT: United Nuclear Corporation
Project: Zone 1
Sample Delivery Group: C10010509

Report Date: 02/24/10

CASE NARRATIVE

SPECIATED ARSENIC ANALYSIS
Arsenic-III was analyzed past the recommended holding time for sample -008 due to an instrument failure. We apologize for any inconvenience this may have caused.

BRANCH LABORATORY SUBCONTRACT ANALYSIS
Tests Associated with Analyst identified as ELI-H were subcontracted to Energy Laboratories Helena Branch, EPA Number MT00945.

PB210 ANALYSIS
The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

ORIGINAL SAMPLE SUBMITTAL(S)
All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)
Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS
Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

RADON IN AIR ANALYSIS
The desired exposure time is 48 hours (2 days). The time delay in returning the canister to the laboratory for processing should be as short as possible to avoid excessive decay. Maximum recommended delay between end of exposure to beginning of counting should not exceed 8 days.

ATRAZINE, SIMAZINE AND PCB ANALYSIS
Data for PCBs, Atrazine and Simazine are reported from EPA 525.2. PCB data reported by ELI reflects the results for seven individual Aroclors. When the results for all seven are ND (not detected), the sample meets EPA compliance criteria for PCB monitoring.

SUBCONTRACTING ANALYSIS
Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS
eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:
USEPA: WY00002, Radiochemical WY00937; FL-DOH NELAC: E87641, Radiochemical E871017; California: 02118CA; Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:
The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER,WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 02/23/10
Work Order: C10010509

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R128667
Sample ID: MBLK	2	Method Blank				Run: MANTECH_100118B				01/18/10 16:16
Alkalinity, Total as CaCO3		2	mg/L	1						
Bicarbonate as HCO3		3	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_100118B				01/18/10 16:32
Alkalinity, Total as CaCO3		190	mg/L	5.0	94	90	110			
Sample ID: LCS		Laboratory Control Sample				Run: MANTECH_100118B				01/18/10 16:42
Alkalinity, Total as CaCO3		53.3	mg/L	5.0	102	90	110			
Sample ID: C10010509-004BMS		Sample Matrix Spike				Run: MANTECH_100118B				01/18/10 23:34
Alkalinity, Total as CaCO3		392	mg/L	5.0	86	80	120			
Sample ID: C10010509-004BMSD		Sample Matrix Spike Duplicate				Run: MANTECH_100118B				01/18/10 23:43
Alkalinity, Total as CaCO3		399	mg/L	5.0	92	80	120	1.7	20	
Method: A2320 B										Batch: R128708
Sample ID: MBLK	2	Method Blank				Run: MANTECH_100119A				01/19/10 17:09
Alkalinity, Total as CaCO3		4	mg/L	1						
Bicarbonate as HCO3		5	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_100119A				01/19/10 17:25
Alkalinity, Total as CaCO3		191	mg/L	5.0	94	90	110			
Sample ID: LCS		Laboratory Control Sample				Run: MANTECH_100119A				01/19/10 17:34
Alkalinity, Total as CaCO3		53.8	mg/L	5.0	100	90	110			
Sample ID: C10010509-006BMS		Sample Matrix Spike				Run: MANTECH_100119A				01/19/10 18:35
Alkalinity, Total as CaCO3		351	mg/L	5.0	97	80	120			
Sample ID: C10010509-006BMSD		Sample Matrix Spike Duplicate				Run: MANTECH_100119A				01/19/10 18:43
Alkalinity, Total as CaCO3		352	mg/L	5.0	98	80	120	0.3	20	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 02/23/10
Work Order: C10010509

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: 100118_1_SLDS-TDS-W	
Sample ID: MBLK1_100118		Method Blank				Run: BAL-1_100118A			01/18/10 11:00	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_100118		Laboratory Control Sample				Run: BAL-1_100118A			01/18/10 11:00	
Solids, Total Dissolved TDS @ 180 C		991	mg/L	10	99	90	110			
Sample ID: C10010508-007AMS		Sample Matrix Spike				Run: BAL-1_100118A			01/18/10 11:08	
Solids, Total Dissolved TDS @ 180 C		5680	mg/L	10	106	90	110			
Sample ID: C10010508-007AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_100118A			01/18/10 11:08	
Solids, Total Dissolved TDS @ 180 C		5690	mg/L	10	104	90	110	0.1	10	
Sample ID: C10010509-007AMS		Sample Matrix Spike				Run: BAL-1_100118A			01/18/10 11:26	
Solids, Total Dissolved TDS @ 180 C		7920	mg/L	12	102	90	110			
Sample ID: C10010509-007AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_100118A			01/18/10 11:27	
Solids, Total Dissolved TDS @ 180 C		7980	mg/L	12	104	90	110	0.7	10	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 02/23/10
Work Order: C10010509

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-Cl B									Batch: 100126-CL-TTR-W	
Sample ID: MBLK9-100126		Method Blank				Run: TITRATION_100126A			01/26/10 09:30	
Chloride		ND	mg/L	0.4						
Sample ID: C10010509-003BMS		Sample Matrix Spike				Run: TITRATION_100126A			01/26/10 17:27	
Chloride		579	mg/L	1.0	104	90	110			
Sample ID: C10010509-003BMSD		Sample Matrix Spike Duplicate				Run: TITRATION_100126A			01/26/10 17:30	
Chloride		572	mg/L	1.0	102	90	110	1.2	10	
Sample ID: LCS35-100126		Laboratory Control Sample				Run: TITRATION_100126A			01/26/10 17:32	
Chloride		3600	mg/L	1.0	102	90	110			
Method: A4500-Cl B									Batch: 100127-CL-TTR-W	
Sample ID: MBLK9-100127		Method Blank				Run: TITRATION_100127A			01/27/10 10:53	
Chloride		ND	mg/L	0.4						
Sample ID: C10010826-003AMS		Sample Matrix Spike				Run: TITRATION_100127A			01/27/10 14:14	
Chloride		459	mg/L	1.0	101	90	110			
Sample ID: C10010826-003AMSD		Sample Matrix Spike Duplicate				Run: TITRATION_100127A			01/27/10 14:16	
Chloride		459	mg/L	1.0	101	90	110	0	10	
Sample ID: LCS35-100127		Laboratory Control Sample				Run: TITRATION_100127A			01/27/10 14:22	
Chloride		3530	mg/L	1.0	100	90	110			

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 02/23/10
Work Order: C10010509

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_100118A		
Sample ID: ICV1_100118_1		Initial Calibration Verification Standard							01/18/10 09:09	
pH		6.84	s.u.	0.010	100	98	102			
Method: A4500-H B								Batch: 100118_1_PH-W_555A-2		
Sample ID: C10010509-008BDUP		Sample Duplicate				Run: ORION555A-2_100118A			01/18/10 10:35	
pH		6.60	s.u.	0.010				0.3	10	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 02/23/10
Work Order: C10010509

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R128900
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100125A				01/25/10 10:35
Nitrogen, Ammonia as N		21.7	mg/L	0.20	108	80	120			
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100125A				01/25/10 10:39
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: C10010676-001DMS		Sample Matrix Spike				Run: TECHNICON_100125A				01/25/10 14:36
Nitrogen, Ammonia as N		3.12	mg/L	0.050	96	80	120			
Sample ID: C10010676-001DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100125A				01/25/10 14:38
Nitrogen, Ammonia as N		3.04	mg/L	0.050	92	80	120	2.6	20	
Method: A4500-NH3 G										Batch: R128949
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100126A				01/26/10 12:58
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100126A				01/26/10 13:01
Nitrogen, Ammonia as N		21.9	mg/L	0.20	109	80	120			
Sample ID: C10010747-004DMS		Sample Matrix Spike				Run: TECHNICON_100126A				01/26/10 14:18
Nitrogen, Ammonia as N		2.70	mg/L	0.050	108	80	120			
Sample ID: C10010747-004DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100126A				01/26/10 14:21
Nitrogen, Ammonia as N		2.47	mg/L	0.050	96	80	120	8.9	20	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 02/23/10
Work Order: C10010509

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-SO4 E									Batch: 100201_1_SO4-TURB-W	
Sample ID: LCS-1_100201		Laboratory Control Sample				Run: TURB-2_100201A			02/01/10 15:16	
Sulfate		4880	mg/L	59	102	90	110			
Sample ID: MBLK-1_100201		Method Blank				Run: TURB-2_100201A			02/01/10 15:20	
Sulfate		ND	mg/L	0.6						
Sample ID: C10010509-004BMS		Sample Matrix Spike				Run: TURB-2_100201A			02/01/10 15:45	
Sulfate		3620	mg/L	59	102	90	110			
Sample ID: C10010509-004BMSD		Sample Matrix Spike Duplicate				Run: TURB-2_100201A			02/01/10 15:47	
Sulfate		3630	mg/L	59	102	90	110	0.3	10	

Qualifiers:

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MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 02/23/10
Work Order: C10010509

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R128806
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100121A				01/21/10 13:25
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.03						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100121A				01/21/10 13:28
Nitrogen, Nitrate+Nitrite as N		2.5	mg/L	0.10	98	90	110			
Sample ID: C10010509-004GMS		Sample Matrix Spike				Run: TECHNICON_100121A				01/21/10 15:31
Nitrogen, Nitrate+Nitrite as N		2.4	mg/L	0.10	120	90	110			S
Sample ID: C10010509-004GMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100121A				01/21/10 15:34
Nitrogen, Nitrate+Nitrite as N		2.4	mg/L	0.10	118	90	110			S

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 02/17/10
Work Order: C10010509

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Batch: SE3114-100121A	
Sample ID: MBLK		Method Blank				Run: CVAA-C202_100121A			01/21/10 10:42	
Selenium-IV		0.0004	mg/L	0.0002						
Sample ID: As/Se 1.0ppm-Q 0105		Laboratory Control Sample				Run: CVAA-C202_100121A			01/21/10 10:44	
Selenium-IV		0.0508	mg/L	0.0010	101	90	110			
Sample ID: C10010509-001DMS		Sample Matrix Spike				Run: CVAA-C202_100121A			01/21/10 11:30	
Selenium-IV		0.0465	mg/L	0.0010	93	85	115			
Sample ID: C10010509-001DMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_100121A			01/21/10 11:33	
Selenium-IV		0.0484	mg/L	0.0010	97	85	115	3.9	10	

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QA/QC Summary Report

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Report Date: 02/17/10
Work Order: C10010509

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E1632AM									Batch: H_R59978	
Sample ID: MBLK_13r		Method Blank				Run: SUB-H59978			01/28/10 13:21	
Arsenic-III		ND	ug/L	0.3						
Sample ID: AS100128-LCS		Laboratory Control Sample				Run: SUB-H59978			01/28/10 13:26	
Arsenic-III		53.8	ug/L	5.0	108	90	110			
Sample ID: H10010115-010E MS		Sample Matrix Spike				Run: SUB-H59978			01/28/10 13:46	
Arsenic-III		55.6	ug/L	5.0	111	80	120			
Sample ID: H10010115-010E MSD		Sample Matrix Spike Duplicate				Run: SUB-H59978			01/28/10 13:51	
Arsenic-III		61.5	ug/L	5.0	123	80	120	10	20	S
Method: E1632AM									Analytical Run: SUB-H60269	
Sample ID: ICB_13r		Initial Calibration Blank, Instrument Blank							02/12/10 10:13	
Arsenic-III		ND	ug/L	5.0		0	0			
Method: E1632AM									Batch: H_R60269	
Sample ID: AS100212-LFB		Laboratory Fortified Blank				Run: SUB-H60269			02/12/10 10:18	
Arsenic-III		54.2	ug/L	5.0	108	55	146			
Sample ID: C10010505-002E		Sample Matrix Spike				Run: SUB-H60269			02/12/10 11:31	
Arsenic-III		44.9	ug/L	5.0	88	55	146			
Sample ID: C10010505-002E		Sample Matrix Spike Duplicate				Run: SUB-H60269			02/12/10 11:36	
Arsenic-III		47.6	ug/L	5.0	93	55	146	5.9	20	

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QA/QC Summary Report

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Report Date: 02/17/10
Work Order: C10010509

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R129285
Sample ID: MB-100203A	4	Method Blank				Run: ICP2-C_100203A				02/03/10 12:04
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-100203A	4	Laboratory Fortified Blank				Run: ICP2-C_100203A				02/03/10 12:08
Calcium		51.8	mg/L	0.50	104	85	115			
Magnesium		49.3	mg/L	0.50	99	85	115			
Potassium		43.9	mg/L	0.50	88	85	115			
Sodium		50.0	mg/L	0.50	100	85	115			
Sample ID: C10010509-007CMS2	4	Sample Matrix Spike				Run: ICP2-C_100203A				02/03/10 18:43
Calcium		962	mg/L	2.3	97	70	130			
Magnesium		949	mg/L	1.0	96	70	130			
Potassium		445	mg/L	1.0	85	70	130			
Sodium		628	mg/L	2.9	95	70	130			
Sample ID: C10010509-007CMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_100203A				02/03/10 18:48
Calcium		987	mg/L	2.3	102	70	130	2.6	20	
Magnesium		966	mg/L	1.0	99	70	130	1.8	20	
Potassium		463	mg/L	1.0	88	70	130	3.9	20	
Sodium		662	mg/L	2.9	102	70	130	5.2	20	

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QA/QC Summary Report

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Report Date: 02/17/10
Work Order: C10010509

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R129058
Sample ID: LRB	2	Method Blank				Run: ICPMS2-C_100128A				01/28/10 14:40
Aluminum		ND	mg/L	0.002						
Beryllium		ND	mg/L	6E-05						
Sample ID: LFB	2	Laboratory Fortified Blank				Run: ICPMS2-C_100128A				01/28/10 14:47
Aluminum		0.0532	mg/L	0.0022	106	85	115			
Beryllium		0.0511	mg/L	0.0010	102	85	115			
Sample ID: C10010509-003DMS4	2	Sample Matrix Spike				Run: ICPMS2-C_100128A				01/29/10 00:10
Aluminum		0.751	mg/L	0.10	87	70	130			
Beryllium		0.401	mg/L	0.010	80	70	130			
Sample ID: C10010509-003DMSD	2	Sample Matrix Spike Duplicate				Run: ICPMS2-C_100128A				01/29/10 00:17
Aluminum		0.741	mg/L	0.10	85	70	130	1.3	20	
Beryllium		0.396	mg/L	0.010	79	70	130	1.2	20	
Method: E200.8										Batch: R129112
Sample ID: LRB	2	Method Blank				Run: ICPMS2-C_100129A				01/29/10 12:49
Aluminum		ND	mg/L	0.002						
Beryllium		ND	mg/L	6E-05						
Sample ID: LFB	2	Laboratory Fortified Blank				Run: ICPMS2-C_100129A				01/29/10 12:58
Aluminum		0.0533	mg/L	0.0022	107	85	115			
Beryllium		0.0537	mg/L	0.0010	107	85	115			
Sample ID: C10010509-008DMS4	2	Sample Matrix Spike				Run: ICPMS2-C_100129A				01/29/10 19:24
Aluminum		0.0682	mg/L	0.0061	102	70	130			
Beryllium		0.0537	mg/L	0.010	107	70	130			
Sample ID: C10010509-008DMSD	2	Sample Matrix Spike Duplicate				Run: ICPMS2-C_100129A				01/29/10 19:30
Aluminum		0.0663	mg/L	0.0061	98	70	130	2.9	20	
Beryllium		0.0530	mg/L	0.010	106	70	130	1.2	20	

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QA/QC Summary Report

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Report Date: 02/17/10
Work Order: C10010509

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: R128717	
Sample ID: LRB	8	Method Blank				Run: ICPMS4-C_100119A			01/19/10 12:18	
Cadmium		ND	mg/L	4E-05						
Cobalt		ND	mg/L	4E-05						
Lead		ND	mg/L	2E-05						
Manganese		ND	mg/L	3E-05						
Molybdenum		ND	mg/L	0.0001						
Nickel		ND	mg/L	6E-05						
Uranium		ND	mg/L	3E-05						
Vanadium		ND	mg/L	4E-05						
Sample ID: LFB	8	Laboratory Fortified Blank				Run: ICPMS4-C_100119A			01/19/10 12:23	
Cadmium		0.0564	mg/L	0.0010	113	85	115			
Cobalt		0.0563	mg/L	0.0010	113	85	115			
Lead		0.0550	mg/L	0.0010	110	85	115			
Manganese		0.0565	mg/L	0.0010	113	85	115			
Molybdenum		0.0559	mg/L	0.0010	112	85	115			
Nickel		0.0556	mg/L	0.0010	111	85	115			
Uranium		0.0574	mg/L	0.00030	115	85	115			
Vanadium		0.0547	mg/L	0.0010	109	85	115			
Sample ID: C10010505-005DMS4	8	Sample Matrix Spike				Run: ICPMS4-C_100119A			01/20/10 01:57	
Cadmium		0.281	mg/L	0.010	105	70	130			
Cobalt		0.943	mg/L	0.010	92	70	130			
Lead		0.274	mg/L	0.050	109	70	130			
Manganese		11.2	mg/L	0.010		70	130			A
Molybdenum		3.39	mg/L	0.10		70	130			A
Nickel		1.10	mg/L	0.050	89	70	130			
Uranium		0.535	mg/L	0.00035	108	70	130			
Vanadium		0.236	mg/L	0.10	94	70	130			
Sample ID: C10010505-005DMSD	8	Sample Matrix Spike Duplicate				Run: ICPMS4-C_100119A			01/20/10 02:02	
Cadmium		0.286	mg/L	0.010	107	70	130	1.9	20	
Cobalt		0.961	mg/L	0.010	99	70	130	1.9	20	
Lead		0.277	mg/L	0.050	110	70	130	1.1	20	
Manganese		11.5	mg/L	0.010		70	130	2.9	20	A
Molybdenum		3.44	mg/L	0.10		70	130	1.5	20	A
Nickel		1.11	mg/L	0.050	93	70	130	0.8	20	
Uranium		0.539	mg/L	0.00035	109	70	130	0.8	20	
Vanadium		0.238	mg/L	0.10	95	70	130	1.1	20	

Qualifiers:

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ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R128668
Sample ID: 18-Jan-10_LCS_3	9	Laboratory Control Sample				Run: 5975VOC1_100118A				01/18/10 16:05
Bromodichloromethane		8.80	ug/L	0.50	88	70	130			
Bromoform		8.32	ug/L	0.50	83	70	130			
Chlorodibromomethane		8.92	ug/L	0.50	89	70	130			
Chloroform		10.2	ug/L	0.50	102	70	130			
Trihalomethanes, Total		36.2	ug/L	0.50	91	70	130			
Surr: 1,2-Dichlorobenzene-d4				0.50	96	80	120			
Surr: Dibromofluoromethane				0.50	99	80	120			
Surr: p-Bromofluorobenzene				0.50	101	80	120			
Surr: Toluene-d8				0.50	109	80	120			
Sample ID: 18-Jan-10_MBLK_6	9	Method Blank				Run: 5975VOC1_100118A				01/18/10 17:51
Bromodichloromethane		ND	ug/L	0.50						
Bromoform		ND	ug/L	0.50						
Chlorodibromomethane		ND	ug/L	0.50						
Chloroform		ND	ug/L	0.50						
Trihalomethanes, Total		ND	ug/L	0.50						
Surr: 1,2-Dichlorobenzene-d4				0.50	121	80	120			S
Surr: Dibromofluoromethane				0.50	100	80	120			
Surr: p-Bromofluorobenzene				0.50	108	80	120			
Surr: Toluene-d8				0.50	99	80	120			
Sample ID: C10010509-001HMS	9	Sample Matrix Spike				Run: 5975VOC1_100118A				01/18/10 23:50
Bromodichloromethane		96.0	ug/L	10	96	70	130			
Bromoform		91.6	ug/L	10	92	70	130			
Chlorodibromomethane		98.4	ug/L	10	98	70	130			
Chloroform		114	ug/L	10	114	70	130			
Trihalomethanes, Total		400	ug/L	10	100	70	130			
Surr: 1,2-Dichlorobenzene-d4				10	95	80	120			
Surr: Dibromofluoromethane				10	105	80	120			
Surr: p-Bromofluorobenzene				10	100	80	120			
Surr: Toluene-d8				10	108	80	120			
Sample ID: C10010509-001HMSD	9	Sample Matrix Spike Duplicate				Run: 5975VOC1_100118A				01/19/10 00:26
Bromodichloromethane		98.4	ug/L	10	98	70	130	2.5	20	
Bromoform		95.2	ug/L	10	95	70	130	3.9	20	
Chlorodibromomethane		98.0	ug/L	10	98	70	130	0.4	20	
Chloroform		116	ug/L	10	116	70	130	2.1	20	
Trihalomethanes, Total		408	ug/L	10	102	70	130	2	20	
Surr: 1,2-Dichlorobenzene-d4				10	95	80	120			
Surr: Dibromofluoromethane				10	104	80	120			
Surr: p-Bromofluorobenzene				10	101	80	120			
Surr: Toluene-d8				10	108	80	120			

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QA/QC Summary Report

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Work Order: C10010509

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.1										Batch: GA-0295
Sample ID: MB-GA-0295	3	Method Blank				Run: G5000W_100205A				02/08/10 13:06
Gross Alpha minus Rn & U		0.9	pCi/L							
Gross Alpha minus Rn & U Precision (±)		0.5	pCi/L							
Gross Alpha minus Rn & U MDC		0.6	pCi/L							
Sample ID: LCS-GA-0295		Laboratory Control Sample				Run: G5000W_100205A				02/08/10 13:06
Gross Alpha minus Rn & U		27.8	pCi/L		102	70	130			
Sample ID: C10010826-004CMS		Sample Matrix Spike				Run: G5000W_100205A				02/08/10 13:06
Gross Alpha minus Rn & U		25.4	pCi/L		95	70	130			
Sample ID: C10010826-004CMSD		Sample Matrix Spike Duplicate				Run: G5000W_100205A				02/08/10 14:49
Gross Alpha minus Rn & U		27.1	pCi/L		101	70	130	6.6	24.5	
Method: E900.1										Batch: GA-0298
Sample ID: MB-GA-0298	3	Method Blank				Run: G542M_100212A				02/17/10 13:45
Gross Alpha minus Rn & U		0.1	pCi/L							U
Gross Alpha minus Rn & U Precision (±)		0.2	pCi/L							
Gross Alpha minus Rn & U MDC		0.4	pCi/L							
Sample ID: LCS-GA-0298		Laboratory Control Sample				Run: G542M_100212A				02/17/10 13:45
Gross Alpha minus Rn & U		25.2	pCi/L		95	70	130			
Sample ID: C10020229-001CMS		Sample Matrix Spike				Run: G542M_100212A				02/17/10 13:45
Gross Alpha minus Rn & U		27.1	pCi/L		101	70	130			
Sample ID: C10020229-001CMSD		Sample Matrix Spike Duplicate				Run: G542M_100212A				02/17/10 13:45
Gross Alpha minus Rn & U		25.0	pCi/L		93	70	130	7.9	22.4	

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Report Date: 02/23/10
Work Order: C10010509

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: RA226-4306
Sample ID: C10010513-001GMS		Sample Matrix Spike				Run: BERTHOLD 770-2_100122B				02/09/10 01:39
Radium 226		15.4	pCi/L		98	70	130			
Sample ID: C10010513-001GMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-2_100122B				02/09/10 01:39
Radium 226		15.4	pCi/L		97	70	130	0.3	24.8	
Sample ID: MB-RA226-4306	3	Method Blank				Run: BERTHOLD 770-2_100122B				02/09/10 01:39
Radium 226		-0.07	pCi/L							U
Radium 226 precision (±)		0.09	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4306		Laboratory Control Sample				Run: BERTHOLD 770-2_100122B				02/09/10 01:39
Radium 226		8.0	pCi/L		102	70	130			

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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: RA-TH-ISO-1077	
Sample ID: LCS-RA-TH-ISO-1077		Laboratory Control Sample				Run: EGG-ORTEC_100119C			01/21/10 09:22	
Thorium 230		5.4	pCi/L		97	70	130			
Sample ID: C10010505-004FMS		Sample Matrix Spike				Run: EGG-ORTEC_100119C			01/21/10 09:22	
Thorium 230		13.7	pCi/L		82	70	130			
Sample ID: C10010505-004FMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_100119C			01/21/10 09:22	
Thorium 230		13.4	pCi/L		79	70	130	2.4	38.3	
Sample ID: MB-RA-TH-ISO-1077	3	Method Blank				Run: EGG-ORTEC_100119C			01/22/10 08:59	
Thorium 230		0.05	pCi/L							U
Thorium 230 precision (±)		0.09	pCi/L							
Thorium 230 MDC		0.2	pCi/L							

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Report Date: 02/23/10
Work Order: C10010509

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M										Batch: R129337
Sample ID: C09080082-002AMS		Sample Matrix Spike				Run: BECKMAN 6100TA_100127A				01/27/10 07:45
Lead 210		210	pCi/L		94	70	130			
Sample ID: C09080082-002AMSD		Sample Matrix Spike Duplicate				Run: BECKMAN 6100TA_100127A				01/27/10 07:45
Lead 210		240	pCi/L		106	70	130	12	30	
Sample ID: MB-R129337	3	Method Blank				Run: BECKMAN 6100TA_100127A				01/27/10 07:45
Lead 210		-0.2	pCi/L							U
Lead 210 precision (±)		5	pCi/L							
Lead 210 MDC		8	pCi/L							
Sample ID: LCS-R129337		Laboratory Control Sample				Run: BECKMAN 6100TA_100127A				01/27/10 07:45
Lead 210		110	pCi/L		95	70	130			

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 02/23/10
Work Order: C10010509

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-3044
Sample ID: LCS-228-RA226-4306		Laboratory Control Sample				Run: TENNELEC-3_100122A				02/03/10 13:21
Radium 228		7.6	pCi/L		85	70	130			
Sample ID: MB-RA226-4306	3	Method Blank				Run: TENNELEC-3_100122A				02/03/10 13:21
Radium 228		0.8	pCi/L							U
Radium 228 precision (±)		0.8	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: C10010513-002GMS		Sample Matrix Spike				Run: TENNELEC-3_100122A				02/03/10 13:21
Radium 228		14	pCi/L		88	70	130			
Sample ID: C10010513-002GMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_100122A				02/03/10 13:21
Radium 228		14	pCi/L		87	70	130	0.7	40.3	

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ANALYTICAL SUMMARY REPORT

February 08, 2010

United Nuclear Corp
PO Box 3077
Gallup, NM 87305

Workorder No.: C10010246 Quote ID: C129 - Quarterly Long List

Project Name: Zone 3

Energy Laboratories, Inc. received the following 2 samples for United Nuclear Corp on 1/8/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C10010246-001	613	01/05/10 14:40	01/08/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Acidity, Total as CaCO3 Alkalinity QA Calculations Chloride Arsenic Speciation Selenium-IV, Total Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Metals Preparation by EPA 200.2 Gross Alpha minus Rn222 and Uranium Lead 210, Total Radium 226, Total Radium 228, Total Thorium, Isotopic Solids, Total Dissolved Sulfate E624 Purgeable Organics
C10010246-002	EPA-14	01/05/10 15:20	01/08/10	Aqueous	Same As Above

Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By: Stephanie D. Waldrop

Stephanie D. Waldrop
Reporting Supervisor

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CLIENT: United Nuclear Corp
Project: Zone 3
Sample Delivery Group: C10010246

Report Date: 02/08/10

CASE NARRATIVE

PB210 ANALYSIS
The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

TH230 ANALYSIS
The sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved due to significant matrix interferences, restricting the volume of sample to be used in the analysis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

BRANCH LABORATORY SUBCONTRACT ANALYSIS
Tests Associated with Analyst identified as ELI-H were subcontracted to Energy Laboratories Helena Branch, EPA Number MT00945.
Tests Associated with Analyst identified as ELI-B were subcontracted to Energy Laboratories Billings Branch, EPA Number MT00005.

ORIGINAL SAMPLE SUBMITTAL(S)
All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)
Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS
Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

SOIL/SOLID SAMPLES
All samples reported on an as received basis unless otherwise indicated.

ATRAZINE, SIMAZINE AND PCB ANALYSIS
Data for PCBs, Atrazine and Simazine are reported from EPA 525.2. PCB data reported by ELI reflects the results for seven individual Aroclors. When the results for all seven are ND (not detected), the sample meets EPA compliance criteria for PCB monitoring.

SUBCONTRACTING ANALYSIS
Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS
eli-b - Energy Laboratories, Inc. - Billings, MT; eli-g - Energy Laboratories, Inc. - Gillette, WY; eli-h - Energy Laboratories, Inc. - Helena, MT; eli-r - Energy Laboratories, Inc. - Rapid City, SD; eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:
USEPA: WY00002, Radiochemical WY00937; FL-DOH NELAC: E87641, Radiochemical E871017; California: 02118CA; Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:
The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER,WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/08/10
Work Order: C10010246

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R128504
Sample ID: MBLK	2	Method Blank				Run: MANTECH_100112A				01/12/10 13:03
Alkalinity, Total as CaCO3		3	mg/L	1						
Bicarbonate as HCO3		4	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_100112A				01/12/10 13:20
Alkalinity, Total as CaCO3		191	mg/L	5.0	94	90	110			
Sample ID: LCS		Laboratory Control Sample				Run: MANTECH_100112A				01/12/10 13:29
Alkalinity, Total as CaCO3		52.8	mg/L	5.0	99	90	110			
Sample ID: C10010243-010AMS		Sample Matrix Spike				Run: MANTECH_100112A				01/12/10 16:55
Alkalinity, Total as CaCO3		1350	mg/L	5.0	85	80	120			
Sample ID: C10010243-010AMSD		Sample Matrix Spike Duplicate				Run: MANTECH_100112A				01/12/10 17:07
Alkalinity, Total as CaCO3		1360	mg/L	5.0	93	80	120	0.8	20	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/08/10
Work Order: C10010246

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 100111_1_SLDS-TDS-W		
Sample ID: MBLK1_100111		Method Blank				Run: BAL-1_100111A			01/11/10 09:44	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_100111		Laboratory Control Sample				Run: BAL-1_100111A			01/11/10 09:45	
Solids, Total Dissolved TDS @ 180 C		994	mg/L	10	99	90	110			
Sample ID: C10010243-016BMS		Sample Matrix Spike				Run: BAL-1_100111A			01/11/10 10:41	
Solids, Total Dissolved TDS @ 180 C		7520	mg/L	12	109	90	110			
Sample ID: C10010243-016BMSD		Sample Matrix Spike Duplicate				Run: BAL-1_100111A			01/11/10 10:41	
Solids, Total Dissolved TDS @ 180 C		7270	mg/L	12	98	90	110	3.4	10	
Sample ID: C10010247-004BMS		Sample Matrix Spike				Run: BAL-1_100111A			01/11/10 09:53	
Solids, Total Dissolved TDS @ 180 C		2030	mg/L	10	101	90	110			
Sample ID: C10010247-004BMSD		Sample Matrix Spike Duplicate				Run: BAL-1_100111A			01/11/10 09:53	
Solids, Total Dissolved TDS @ 180 C		2030	mg/L	10	102	90	110	0.4	10	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/08/10
Work Order: C10010246

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-Cl B									Batch: 100115A-CL-TTR-W	
Sample ID: MBLK9-100115A		Method Blank				Run: TITRATION_100115A			01/15/10 11:47	
Chloride		ND	mg/L	0.4						
Sample ID: C10010247-001AMS		Sample Matrix Spike				Run: TITRATION_100115A			01/15/10 14:15	
Chloride		600	mg/L	1.0	97	90	110			
Sample ID: C10010247-001AMSD		Sample Matrix Spike Duplicate				Run: TITRATION_100115A			01/15/10 14:17	
Chloride		604	mg/L	1.0	98	90	110	0.6	10	
Sample ID: LCS35-100115A		Laboratory Control Sample				Run: TITRATION_100115A			01/15/10 14:22	
Chloride		3460	mg/L	1.0	98	90	110			

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/08/10
Work Order: C10010246

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_100111A		
Sample ID: ICV1_100111_1		Initial Calibration Verification Standard							01/11/10 08:32	
pH		6.9	s.u.	0.010	100	98	102			
Method: A4500-H B								Batch: 100111_1_PH-W_555A-2		
Sample ID: C10010247-004ADUP		Sample Duplicate				Run: ORION555A-2_100111A			01/11/10 11:08	
pH		6.9	s.u.	0.010						

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/08/10
Work Order: C10010246

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R128900
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100125A				01/25/10 10:35
Nitrogen, Ammonia as N		21.7	mg/L	0.20	108	80	120			
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100125A				01/25/10 10:39
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: C10010493-005EMS		Sample Matrix Spike				Run: TECHNICON_100125A				01/25/10 11:06
Nitrogen, Ammonia as N		1.67	mg/L	0.050	84	80	120			
Sample ID: C10010493-005EMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100125A				01/25/10 11:08
Nitrogen, Ammonia as N		1.66	mg/L	0.050	83	80	120	0.6	20	
Sample ID: C10010556-001EMS		Sample Matrix Spike				Run: TECHNICON_100125A				01/25/10 12:32
Nitrogen, Ammonia as N		1.63	mg/L	0.050	79	80	120			S
Sample ID: C10010556-001EMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100125A				01/25/10 12:34
Nitrogen, Ammonia as N		1.68	mg/L	0.050	82	80	120	3	20	

Qualifiers:

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S - Spike recovery outside of advisory limits.

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/08/10
Work Order: C10010246

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-SO4 E									Batch: 100112_1_SO4-TURB-W	
Sample ID: BLNKB-1_100112		Method Blank				Run: TURB-2_100112A			01/12/10 09:21	
Sulfate		10	mg/L	0.6						
Sample ID: LCS-1_100112		Laboratory Control Sample				Run: TURB-2_100112A			01/12/10 09:23	
Sulfate		5160	mg/L	59	107	90	110			
Sample ID: C10010243-016AMS		Sample Matrix Spike				Run: TURB-2_100112A			01/12/10 10:33	
Sulfate		4550	mg/L	59	103	90	110			
Sample ID: C10010243-016AMSD		Sample Matrix Spike Duplicate				Run: TURB-2_100112A			01/12/10 10:34	
Sulfate		4370	mg/L	59	93	90	110	4.2	10	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/08/10
Work Order: C10010246

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R128704
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100119A				01/19/10 14:19
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.03						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100119A				01/19/10 14:21
Nitrogen, Nitrate+Nitrite as N		2.63	mg/L	0.10	102	90	110			
Sample ID: C10010490-001EMS		Sample Matrix Spike				Run: TECHNICON_100119A				01/19/10 15:54
Nitrogen, Nitrate+Nitrite as N		1.91	mg/L	0.10	94	90	110			
Sample ID: C10010490-001EMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100119A				01/19/10 15:56
Nitrogen, Nitrate+Nitrite as N		1.87	mg/L	0.10	92	90	110	2.1	10	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/03/10
Work Order: C10010246

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Batch: SE3114-100113A	
Sample ID: MBLK		Method Blank				Run: CVAA-C202_100113A			01/13/10 13:12	
Selenium-IV		ND	mg/L	0.0003						
Sample ID: As/Se 1.0ppm-Q 0105		Laboratory Control Sample				Run: CVAA-C202_100113A			01/13/10 13:14	
Selenium-IV		0.0492	mg/L	0.0010	98	90	110			
Sample ID: C10010246-001DMS		Sample Matrix Spike				Run: CVAA-C202_100113A			01/13/10 13:33	
Selenium-IV		0.0476	mg/L	0.0010	92	85	115			
Sample ID: C10010246-001DMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_100113A			01/13/10 13:35	
Selenium-IV		0.0489	mg/L	0.0010	95	85	115	2.8	10	
Method: E1632AM									Batch: H_R59978	
Sample ID: MBLK_13r		Method Blank				Run: SUB-H59978			01/28/10 13:21	
Arsenic-III		ND	ug/L	0.3						
Sample ID: AS100128-LCS		Laboratory Control Sample				Run: SUB-H59978			01/28/10 13:26	
Arsenic-III		53.8	ug/L	5.0	108	90	110			
Sample ID: H10010115-010E MS		Sample Matrix Spike				Run: SUB-H59978			01/28/10 13:46	
Arsenic-III		55.6	ug/L	5.0	111	80	120			
Sample ID: H10010115-010E MSD		Sample Matrix Spike Duplicate				Run: SUB-H59978			01/28/10 13:51	
Arsenic-III		61.5	ug/L	5.0	123	80	120	10	20	S
Method: E200.7									Batch: 24975	
Sample ID: MB-24975		Method Blank				Run: ICP2-C_100202A			02/02/10 20:11	
Aluminum		ND	mg/L	0.08						
Sample ID: LCS3-24975		Laboratory Control Sample				Run: ICP2-C_100202A			02/02/10 20:15	
Aluminum		2.76	mg/L	0.10	110	85	115			
Sample ID: C10010413-008AMS3		Sample Matrix Spike				Run: ICP2-C_100202A			02/02/10 20:31	
Aluminum		5.39	mg/L	0.16	142	70	130			S
Sample ID: C10010413-008AMSD		Sample Matrix Spike Duplicate				Run: ICP2-C_100202A			02/02/10 20:35	
Aluminum		4.97	mg/L	0.16	124	70	130	8.3	20	

Qualifiers:

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S - Spike recovery outside of advisory limits.

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/03/10
Work Order: C10010246

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R128464
Sample ID: MB-100111A	4	Method Blank				Run: ICP2-C_100111A				01/11/10 14:16
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.09						
Potassium		ND	mg/L	0.1						
Sodium		ND	mg/L	0.2						
Sample ID: LFB-100111A	4	Laboratory Fortified Blank				Run: ICP2-C_100111A				01/11/10 14:20
Calcium		49.8	mg/L	0.50	100	85	115			
Magnesium		47.4	mg/L	0.50	95	85	115			
Potassium		48.7	mg/L	0.50	97	85	115			
Sodium		48.5	mg/L	0.50	97	85	115			
Sample ID: C10010243-011CMS2	4	Sample Matrix Spike				Run: ICP2-C_100111A				01/11/10 17:57
Calcium		979	mg/L	2.5	94	70	130			
Magnesium		1600	mg/L	1.0	99	70	130			
Potassium		484	mg/L	1.0	92	70	130			
Sodium		784	mg/L	2.3	97	70	130			
Sample ID: C10010243-011CMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_100111A				01/11/10 18:01
Calcium		963	mg/L	2.5	91	70	130	1.7	20	
Magnesium		1610	mg/L	1.0	100	70	130	0.4	20	
Potassium		476	mg/L	1.0	91	70	130	1.6	20	
Sodium		782	mg/L	2.3	97	70	130	0.3	20	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/03/10
Work Order: C10010246

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 24975
Sample ID: MB-24975		Method Blank				Run: ICPMS2-C_100122A				01/23/10 08:32
Beryllium		ND	mg/L	6E-05						
Sample ID: LCS3-24975		Laboratory Control Sample				Run: ICPMS2-C_100122A				01/23/10 08:39
Beryllium		0.271	mg/L	0.010	108	85	115			
Sample ID: C10010413-008AMS3		Sample Matrix Spike				Run: ICPMS2-C_100122A				01/23/10 09:06
Beryllium		0.240	mg/L	0.010	96	70	130			
Sample ID: C10010413-008AMSD		Sample Matrix Spike Duplicate				Run: ICPMS2-C_100122A				01/23/10 09:13
Beryllium		0.138	mg/L	0.010	55	70	130	54	20	SR
Sample ID: MB-24975	8	Method Blank				Run: ICPMS4-C_100119A				01/20/10 04:46
Cadmium		6E-05	mg/L	5E-05						
Cobalt		ND	mg/L	4E-05						
Lead		ND	mg/L	9E-05						
Manganese		0.0004	mg/L	4E-05						
Molybdenum		0.0001	mg/L	0.0001						
Nickel		6E-05	mg/L	6E-05						
Uranium		0.001	mg/L	7E-05						
Vanadium		0.006	mg/L	4E-05						
Sample ID: LCS3-24975	8	Laboratory Control Sample				Run: ICPMS4-C_100119A				01/20/10 04:52
Cadmium		0.286	mg/L	0.010	114	85	115			
Cobalt		0.481	mg/L	0.010	96	85	115			
Lead		0.528	mg/L	0.050	106	85	115			
Manganese		2.48	mg/L	0.010	99	85	115			
Molybdenum		0.536	mg/L	0.10	107	85	115			
Nickel		0.491	mg/L	0.050	98	85	115			
Uranium		0.535	mg/L	0.00030	107	85	115			
Vanadium		0.494	mg/L	0.10	98	85	115			
Sample ID: C10010413-008AMS3	8	Sample Matrix Spike				Run: ICPMS4-C_100119A				01/20/10 06:13
Cadmium		0.272	mg/L	0.010	108	70	130			
Cobalt		0.478	mg/L	0.010	95	70	130			
Lead		0.519	mg/L	0.050	102	70	130			
Manganese		2.52	mg/L	0.010	97	70	130			
Molybdenum		0.546	mg/L	0.10	107	70	130			
Nickel		0.489	mg/L	0.050	96	70	130			
Uranium		0.762	mg/L	0.00030	110	70	130			
Vanadium		0.495	mg/L	0.10	97	70	130			
Sample ID: C10010413-008AMSD	8	Sample Matrix Spike Duplicate				Run: ICPMS4-C_100119A				01/20/10 06:18
Cadmium		0.265	mg/L	0.010	105	70	130	2.8	20	
Cobalt		0.453	mg/L	0.010	90	70	130	5.4	20	
Lead		0.497	mg/L	0.050	97	70	130	4.2	20	
Manganese		2.39	mg/L	0.010	92	70	130	5.2	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
S - Spike recovery outside of advisory limits.
ND - Not detected at the reporting limit.
R - RPD exceeds advisory limit.

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/03/10
Work Order: C10010246

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 24975
Sample ID: C10010413-008AMSD	8	Sample Matrix Spike Duplicate				Run: ICPMS4-C_100119A			01/20/10 06:18	
Molybdenum		0.524	mg/L	0.10	103	70	130	4.1	20	
Nickel		0.463	mg/L	0.050	91	70	130	5.5	20	
Uranium		0.743	mg/L	0.00030	106	70	130	2.6	20	
Vanadium		0.466	mg/L	0.10	92	70	130	5.9	20	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/03/10
Work Order: C10010246

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R128717
Sample ID: LRB	9	Method Blank				Run: ICPMS4-C_100119A			01/19/10 12:18	
Aluminum		0.005	mg/L	0.0004						
Cadmium		ND	mg/L	4E-05						
Cobalt		ND	mg/L	4E-05						
Lead		ND	mg/L	2E-05						
Manganese		ND	mg/L	3E-05						
Molybdenum		ND	mg/L	0.0001						
Nickel		ND	mg/L	6E-05						
Uranium		ND	mg/L	3E-05						
Vanadium		ND	mg/L	4E-05						
Sample ID: LFB	9	Laboratory Fortified Blank				Run: ICPMS4-C_100119A			01/19/10 12:23	
Aluminum		0.0539	mg/L	0.0010	97	85	115			
Cadmium		0.0564	mg/L	0.0010	113	85	115			
Cobalt		0.0563	mg/L	0.0010	113	85	115			
Lead		0.0550	mg/L	0.0010	110	85	115			
Manganese		0.0565	mg/L	0.0010	113	85	115			
Molybdenum		0.0559	mg/L	0.0010	112	85	115			
Nickel		0.0556	mg/L	0.0010	111	85	115			
Uranium		0.0574	mg/L	0.00030	115	85	115			
Vanadium		0.0547	mg/L	0.0010	109	85	115			
Sample ID: C10010493-004CMS4	9	Sample Matrix Spike				Run: ICPMS4-C_100119A			01/19/10 23:38	
Aluminum		0.0553	mg/L	0.0013	101	70	130			
Cadmium		0.0539	mg/L	0.010	108	70	130			
Cobalt		0.0534	mg/L	0.010	106	70	130			
Lead		0.0544	mg/L	0.050	108	70	130			
Manganese		0.0593	mg/L	0.010	110	70	130			
Molybdenum		0.0558	mg/L	0.0010	109	70	130			
Nickel		0.0509	mg/L	0.050	101	70	130			
Uranium		0.491	mg/L	0.00030		70	130			A
Vanadium		0.0540	mg/L	0.0010	106	70	130			
Sample ID: C10010493-004CMSD	9	Sample Matrix Spike Duplicate				Run: ICPMS4-C_100119A			01/19/10 23:43	
Aluminum		0.0562	mg/L	0.0013	103	70	130	1.6	20	
Cadmium		0.0549	mg/L	0.010	110	70	130	1.8	20	
Cobalt		0.0549	mg/L	0.010	109	70	130	2.9	20	
Lead		0.0549	mg/L	0.050	109	70	130	0.8	20	
Manganese		0.0611	mg/L	0.010	113	70	130	2.9	20	
Molybdenum		0.0566	mg/L	0.0010	110	70	130	1.4	20	
Nickel		0.0509	mg/L	0.050	101	70	130	0	20	
Uranium		0.495	mg/L	0.00030		70	130	0.9	20	A
Vanadium		0.0539	mg/L	0.0010	106	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/03/10
Work Order: C10010246

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R128825
Sample ID: LRB		Method Blank				Run: ICPMS2-C_100121A				01/21/10 17:10
Beryllium		ND	mg/L	6E-05						
Sample ID: LFB		Laboratory Fortified Blank				Run: ICPMS2-C_100121A				01/21/10 17:28
Beryllium		0.0509	mg/L	0.0010	102	85	115			
Sample ID: C10010243-007DMS4		Sample Matrix Spike				Run: ICPMS2-C_100121A				01/21/10 21:50
Beryllium		0.243	mg/L	0.010	97	70	130			
Sample ID: C10010243-007DMSD		Sample Matrix Spike Duplicate				Run: ICPMS2-C_100121A				01/21/10 21:57
Beryllium		0.235	mg/L	0.010	94	70	130	3.2	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 01/14/10
Work Order: C10010246

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R128509
Sample ID: 11-Jan-10_LCS_3	Laboratory Control Sample				Run: 5975VOC1_100111A				01/11/10 13:37
Bromodichloromethane	9.48	ug/L	1.0	95	70	130			
Bromoform	9.36	ug/L	1.0	94	70	130			
Chlorodibromomethane	10.4	ug/L	1.0	104	70	130			
Chloroform	10.2	ug/L	1.0	102	70	130			
Trihalomethanes, Total	39.4	ug/L	1.0	99	70	130			
Surr: 1,2-Dichlorobenzene-d4			1.0	93	80	120			
Surr: Dibromofluoromethane			1.0	95	80	120			
Surr: p-Bromofluorobenzene			1.0	102	80	120			
Surr: Toluene-d8			1.0	108	80	120			
Sample ID: 11-Jan-10_MBLK_6	Method Blank				Run: 5975VOC1_100111A				01/11/10 15:23
Bromodichloromethane	ND	ug/L	1.0						
Bromoform	ND	ug/L	1.0						
Chlorodibromomethane	ND	ug/L	1.0						
Chloroform	ND	ug/L	1.0						
Trihalomethanes, Total	ND	ug/L	1.0						
Surr: 1,2-Dichlorobenzene-d4			1.0	115	80	120			
Surr: Dibromofluoromethane			1.0	96	80	120			
Surr: p-Bromofluorobenzene			1.0	105	80	120			
Surr: Toluene-d8			1.0	101	80	120			
Sample ID: C10010246-002HMS	Sample Matrix Spike				Run: 5975VOC1_100111A				01/11/10 20:09
Bromodichloromethane	98.0	ug/L	10	98	70	130			
Bromoform	112	ug/L	10	112	70	130			
Chlorodibromomethane	108	ug/L	10	108	70	130			
Chloroform	105	ug/L	10	105	70	130			
Trihalomethanes, Total	423	ug/L	10	106	70	130			
Surr: 1,2-Dichlorobenzene-d4			10	117	80	120			
Surr: Dibromofluoromethane			10	101	80	120			
Surr: p-Bromofluorobenzene			10	106	80	120			
Surr: Toluene-d8			10	100	80	120			
Sample ID: C10010246-002HMSD	Sample Matrix Spike Duplicate				Run: 5975VOC1_100111A				01/11/10 20:45
Bromodichloromethane	100	ug/L	10	100	70	130	2	20	
Bromoform	118	ug/L	10	118	70	130	4.9	20	
Chlorodibromomethane	112	ug/L	10	112	70	130	4	20	
Chloroform	109	ug/L	10	109	70	130	4.1	20	
Trihalomethanes, Total	439	ug/L	10	110	70	130	3.8	20	
Surr: 1,2-Dichlorobenzene-d4			10	116	80	120			
Surr: Dibromofluoromethane			10	102	80	120			
Surr: p-Bromofluorobenzene			10	105	80	120			
Surr: Toluene-d8			10	100	80	120			

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 01/14/10
Work Order: C10010246

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R128550
Sample ID: 13-Jan-10_LCS_3	Laboratory Control Sample				Run: 5975VOC1_100113A				01/13/10 11:34
Chloroform	10.1	ug/L	1.0	101	70	130			
Surr: 1,2-Dichlorobenzene-d4			1.0	98	80	120			
Surr: Dibromofluoromethane			1.0	97	80	120			
Surr: p-Bromofluorobenzene			1.0	100	80	120			
Surr: Toluene-d8			1.0	110	80	120			
Sample ID: 13-Jan-10_MBLK_6	Method Blank				Run: 5975VOC1_100113A				01/13/10 13:44
Chloroform	ND	ug/L	1.0						
Surr: 1,2-Dichlorobenzene-d4			1.0	119	80	120			
Surr: Dibromofluoromethane			1.0	99	80	120			
Surr: p-Bromofluorobenzene			1.0	108	80	120			
Surr: Toluene-d8			1.0	98	80	120			
Sample ID: C10010246-001HMS	Sample Matrix Spike				Run: 5975VOC1_100113A				01/13/10 18:30
Chloroform	193	ug/L	10	111	70	130			
Surr: 1,2-Dichlorobenzene-d4			10	95	80	120			
Surr: Dibromofluoromethane			10	103	80	120			
Surr: p-Bromofluorobenzene			10	101	80	120			
Surr: Toluene-d8			10	109	80	120			
Sample ID: C10010246-001HMSD	Sample Matrix Spike Duplicate				Run: 5975VOC1_100113A				01/13/10 19:06
Chloroform	195	ug/L	10	113	70	130	1	20	
Surr: 1,2-Dichlorobenzene-d4			10	97	80	120			
Surr: Dibromofluoromethane			10	102	80	120			
Surr: p-Bromofluorobenzene			10	100	80	120			
Surr: Toluene-d8			10	107	80	120			

Qualifiers:

RL - Analyte reporting limit.

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/08/10
Work Order: C10010246

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.1										Batch: GA-0292
Sample ID: MB-GA-0292	3	Method Blank				Run: BERTHOLD 770-1_100122A				01/26/10 12:48
Gross Alpha minus Rn & U		0.3	pCi/L							U
Gross Alpha minus Rn & U Precision (±)		0.4	pCi/L							
Gross Alpha minus Rn & U MDC		0.6	pCi/L							
Sample ID: LCS-GA-0292		Laboratory Control Sample				Run: BERTHOLD 770-1_100122A				01/26/10 12:48
Gross Alpha minus Rn & U		26.7	pCi/L		100	70	130			
Sample ID: C10010496-004BMS		Sample Matrix Spike				Run: BERTHOLD 770-1_100122A				01/26/10 15:23
Gross Alpha minus Rn & U		29.0	pCi/L		105	70	130			
Sample ID: C10010496-004BMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-1_100122A				01/26/10 15:23
Gross Alpha minus Rn & U		28.6	pCi/L		104	70	130	1.4	23.4	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/08/10
Work Order: C10010246

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: RA226-4292
Sample ID: C10010277-001DMS		Sample Matrix Spike				Run: G542M_100115E				01/26/10 22:09
Radium 226		17.6	pCi/L		113	70	130			
Sample ID: C10010277-001DMSD		Sample Matrix Spike Duplicate				Run: G542M_100115E				01/26/10 22:09
Radium 226		17.3	pCi/L		111	70	130	1.3	23.2	
Sample ID: MB-RA226-4292	3	Method Blank				Run: G542M_100115E				01/26/10 22:09
Radium 226		0.02	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4292		Laboratory Control Sample				Run: G542M_100115E				01/26/10 22:09
Radium 226		9.3	pCi/L		118	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/08/10
Work Order: C10010246

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: RA-TH-ISO-1065	
Sample ID: LCS-RA-TH-ISO-1065		Laboratory Control Sample				Run: EGG-ORTEC_100111A			01/13/10 09:13	
Thorium 230		5.1	pCi/L		93	70	130			
Sample ID: C09120837-001DMS		Sample Matrix Spike				Run: EGG-ORTEC_100111A			01/13/10 09:13	
Thorium 230		12	pCi/L		96	70	130			
Sample ID: C09120837-001DMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_100111A			01/13/10 09:13	
Thorium 230		12	pCi/L		93	70	130	1.7	39.6	
Sample ID: MB-RA-TH-ISO-1065	3	Method Blank				Run: EGG-ORTEC_100111A			01/13/10 09:13	
Thorium 230		0.007	pCi/L							U
Thorium 230 precision (±)		0.06	pCi/L							
Thorium 230 MDC		0.1	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/08/10
Work Order: C10010246

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M										Batch: R129142
Sample ID: C09070904-006BMS		Sample Matrix Spike				Run: BECKMAN 6100TA_100125A				01/25/10 09:40
Lead 210		230	pCi/L		103	70	130			
Sample ID: C09070904-006BMSD		Sample Matrix Spike Duplicate				Run: BECKMAN 6100TA_100125A				01/25/10 09:40
Lead 210		230	pCi/L		101	70	130	1.9	30	
Sample ID: MB-R129142	3	Method Blank				Run: BECKMAN 6100TA_100125A				01/25/10 09:40
Lead 210		-0.4	pCi/L							U
Lead 210 precision (±)		5	pCi/L							
Lead 210 MDC		8	pCi/L							
Sample ID: LCS-R129142		Laboratory Control Sample				Run: BECKMAN 6100TA_100125A				01/25/10 09:40
Lead 210		93	pCi/L		83	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/08/10
Work Order: C10010246

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-3061
Sample ID: LCS-228-RA228-3061		Laboratory Control Sample				Run: TENNELEC-3_100202A				02/05/10 11:07
Radium 228		9.18	pCi/L		112	70	130			
Sample ID: MB-228-RA228-3061	3	Method Blank				Run: TENNELEC-3_100202A				02/05/10 11:07
Radium 228		0.2	pCi/L							U
Radium 228 precision (±)		0.9	pCi/L							
Radium 228 MDC		2	pCi/L							
Sample ID: C10010276-001DMS		Sample Matrix Spike				Run: TENNELEC-3_100202A				02/05/10 11:07
Radium 228		18	pCi/L		109	70	130			
Sample ID: C10010276-001DMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_100202A				02/05/10 11:07
Radium 228		20	pCi/L		116	70	130	5.7	34.6	

Qualifiers:

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MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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ANALYTICAL SUMMARY REPORT

February 26, 2010

United Nuclear Corporation
21 Miles NE Of Gallup
Gallup, NM 87305

Workorder No.: C10010505 Quote ID: C129 - Quarterly Long List

Project Name: Zone 3

Energy Laboratories, Inc. received the following 9 samples for United Nuclear Corporation on 1/15/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C10010505-001	708	01/11/10 14:00	01/15/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Chloride Arsenic Speciation Selenium-IV, Total Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Metals Preparation by EPA 200.2 Gross Alpha minus Rn222 and Uranium Lead 210, Total Radium 226, Total Radium 228, Total Thorium, Isotopic Solids, Total Dissolved Sulfate E624 Purgeable Organics
C10010505-002	711	01/11/10 14:40	01/15/10	Aqueous	Same As Above
C10010505-003	711 Duplicate	01/11/10 15:20	01/15/10	Aqueous	Same As Above
C10010505-004	EPA-13	01/12/10 09:10	01/15/10	Aqueous	Same As Above
C10010505-005	504-B	01/12/10 10:00	01/15/10	Aqueous	Same As Above
C10010505-006	719	01/12/10 10:20	01/15/10	Aqueous	Same As Above
C10010505-007	420	01/12/10 11:05	01/15/10	Aqueous	Same As Above
C10010505-008	717	01/12/10 11:45	01/15/10	Aqueous	Same As Above
C10010505-009	NBL-1	01/12/10 13:50	01/15/10	Aqueous	Same As Above

Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By: Stephanie D. Waldrop
Stephanie D. Waldrop
Reporting Supervisor

ENERGY LABORATORIES, INC. • 2393 Salt Creek Highway (82601) • P.O. Box 3258 • Casper, WY 82602
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CLIENT: United Nuclear Corporation
Project: Zone 3
Sample Delivery Group: C10010505

Report Date: 02/26/10

CASE NARRATIVE

SPECIATED ARSENIC ANALYSIS
Arsenic-III was analyzed past the recommended holding time due to an instrument failure. We apologize for any inconvenience this may have caused.

PB210 ANALYSIS
The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

TH230 ANALYSIS
The sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved due to significant matrix interferences, restricting the volume of sample to be used in the analysis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

BRANCH LABORATORY SUBCONTRACT ANALYSIS
Tests Associated with Analyst identified as ELI-H were subcontracted to Energy Laboratories Helena Branch, EPA Number MT00945.

ORIGINAL SAMPLE SUBMITTAL(S)
All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)
Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS
Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

SOIL/SOLID SAMPLES
All samples reported on an as received basis unless otherwise indicated.

ATRAZINE, SIMAZINE AND PCB ANALYSIS
Data for PCBs, Atrazine and Simazine are reported from EPA 525.2. PCB data reported by ELI reflects the results for seven individual Aroclors. When the results for all seven are ND (not detected), the sample meets EPA compliance criteria for PCB monitoring.

SUBCONTRACTING ANALYSIS
Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS
eli-b - Energy Laboratories, Inc. - Billings, MT; eli-g - Energy Laboratories, Inc. - Gillette, WY; eli-h - Energy Laboratories, Inc. - Helena, MT; eli-r - Energy Laboratories, Inc. - Rapid City, SD; eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:
USEPA: WY00002, Radiochemical WY00937; FL-DOH NELAC: E87641, Radiochemical E871017; California: 02118CA; Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:
The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER,WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 02/26/10
Work Order: C10010505

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R128667
Sample ID: MBLK	2	Method Blank				Run: MANTECH_100118B				01/18/10 16:16
Alkalinity, Total as CaCO3		2	mg/L	1						
Bicarbonate as HCO3		3	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_100118B				01/18/10 16:32
Alkalinity, Total as CaCO3		190	mg/L	5.0	94	90	110			
Sample ID: LCS		Laboratory Control Sample				Run: MANTECH_100118B				01/18/10 16:42
Alkalinity, Total as CaCO3		53.3	mg/L	5.0	102	90	110			
Sample ID: C10010504-001AMS		Sample Matrix Spike				Run: MANTECH_100118B				01/18/10 19:37
Alkalinity, Total as CaCO3		459	mg/L	5.0	93	80	120			
Sample ID: C10010504-001AMSD		Sample Matrix Spike Duplicate				Run: MANTECH_100118B				01/18/10 19:46
Alkalinity, Total as CaCO3		470	mg/L	5.0	102	80	120	2.4	20	
Method: A2320 B										Batch: R128708
Sample ID: MBLK	2	Method Blank				Run: MANTECH_100119A				01/19/10 17:09
Alkalinity, Total as CaCO3		4	mg/L	1						
Bicarbonate as HCO3		5	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_100119A				01/19/10 17:25
Alkalinity, Total as CaCO3		191	mg/L	5.0	94	90	110			
Sample ID: LCS		Laboratory Control Sample				Run: MANTECH_100119A				01/19/10 17:34
Alkalinity, Total as CaCO3		53.8	mg/L	5.0	100	90	110			
Sample ID: C10010509-006BMS		Sample Matrix Spike				Run: MANTECH_100119A				01/19/10 18:35
Alkalinity, Total as CaCO3		351	mg/L	5.0	97	80	120			
Sample ID: C10010509-006BMSD		Sample Matrix Spike Duplicate				Run: MANTECH_100119A				01/19/10 18:43
Alkalinity, Total as CaCO3		352	mg/L	5.0	98	80	120	0.3	20	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corporation
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Report Date: 02/26/10
Work Order: C10010505

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: 100118_1_SLDS-TDS-W	
Sample ID: MBLK1_100118		Method Blank				Run: BAL-1_100118A			01/18/10 11:00	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_100118		Laboratory Control Sample				Run: BAL-1_100118A			01/18/10 11:00	
Solids, Total Dissolved TDS @ 180 C		991	mg/L	10	99	90	110			
Sample ID: C10010505-006AMS		Sample Matrix Spike				Run: BAL-1_100118A			01/18/10 11:04	
Solids, Total Dissolved TDS @ 180 C		8370	mg/L	14	110	90	110			
Sample ID: C10010505-006AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_100118A			01/18/10 11:04	
Solids, Total Dissolved TDS @ 180 C		8290	mg/L	14	110	90	110	0.9	10	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 02/26/10
Work Order: C10010505

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Batch: SE3114-100121A	
Sample ID: MBLK		Method Blank				Run: CVAA-C202_100121A			01/21/10 10:42	
Selenium-IV		0.0004	mg/L	0.0002						
Sample ID: As/Se 1.0ppm-Q 0105		Laboratory Control Sample				Run: CVAA-C202_100121A			01/21/10 10:44	
Selenium-IV		0.0508	mg/L	0.0010	101	90	110			
Sample ID: C10010505-001DMS		Sample Matrix Spike				Run: CVAA-C202_100121A			01/21/10 10:58	
Selenium-IV		0.0490	mg/L	0.0010	97	85	115			
Sample ID: C10010505-001DMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_100121A			01/21/10 11:00	
Selenium-IV		0.0495	mg/L	0.0010	98	85	115	1	10	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 02/26/10
Work Order: C10010505

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-Cl B									Batch: 100122-CL-TTR-W	
Sample ID: MBLK9-100122		Method Blank				Run: TITRATION_100122B			01/22/10 14:47	
Chloride		ND	mg/L	0.4						
Sample ID: C10010505-004BMS		Sample Matrix Spike				Run: TITRATION_100122B			01/22/10 16:38	
Chloride		214	mg/L	1.0	98	90	110			
Sample ID: C10010505-004BMSD		Sample Matrix Spike Duplicate				Run: TITRATION_100122B			01/22/10 16:39	
Chloride		214	mg/L	1.0	98	90	110	0	10	
Sample ID: LCS35-100122		Laboratory Control Sample				Run: TITRATION_100122B			01/22/10 16:42	
Chloride		3460	mg/L	1.0	98	90	110			
Method: A4500-Cl B									Batch: 100126-CL-TTR-W	
Sample ID: MBLK9-100126		Method Blank				Run: TITRATION_100126A			01/26/10 09:30	
Chloride		ND	mg/L	0.4						
Sample ID: C10010509-003BMS		Sample Matrix Spike				Run: TITRATION_100126A			01/26/10 17:27	
Chloride		579	mg/L	1.0	104	90	110			
Sample ID: C10010509-003BMSD		Sample Matrix Spike Duplicate				Run: TITRATION_100126A			01/26/10 17:30	
Chloride		572	mg/L	1.0	102	90	110	1.2	10	
Sample ID: LCS35-100126		Laboratory Control Sample				Run: TITRATION_100126A			01/26/10 17:32	
Chloride		3600	mg/L	1.0	102	90	110			

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QA/QC Summary Report

Client: United Nuclear Corporation
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Report Date: 02/26/10
Work Order: C10010505

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_100118A		
Sample ID: ICV1_100118_1		Initial Calibration Verification Standard							01/18/10 09:09	
pH		6.84	s.u.	0.010	100	98	102			
Method: A4500-H B								Batch: 100118_1_PH-W_555A-2		
Sample ID: C10010505-009BDUP		Sample Duplicate				Run: ORION555A-2_100118A			01/18/10 09:36	
pH		6.30	s.u.	0.010				0.5	10	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 02/26/10
Work Order: C10010505

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R128900
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100125A				01/25/10 10:35
Nitrogen, Ammonia as N		21.7	mg/L	0.20	108	80	120			
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100125A				01/25/10 10:39
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: C10010556-001EMS		Sample Matrix Spike				Run: TECHNICON_100125A				01/25/10 12:32
Nitrogen, Ammonia as N		1.63	mg/L	0.050	79	80	120			S
Sample ID: C10010556-001EMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100125A				01/25/10 12:34
Nitrogen, Ammonia as N		1.68	mg/L	0.050	82	80	120	3	20	
Sample ID: C10010363-001DMS		Sample Matrix Spike				Run: TECHNICON_100125A				01/25/10 13:04
Nitrogen, Ammonia as N		1.72	mg/L	0.050	86	80	120			
Sample ID: C10010363-001DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100125A				01/25/10 13:06
Nitrogen, Ammonia as N		1.82	mg/L	0.050	91	80	120	5.6	20	
Sample ID: C10010676-001DMS		Sample Matrix Spike				Run: TECHNICON_100125A				01/25/10 14:36
Nitrogen, Ammonia as N		3.12	mg/L	0.050	96	80	120			
Sample ID: C10010676-001DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100125A				01/25/10 14:38
Nitrogen, Ammonia as N		3.04	mg/L	0.050	92	80	120	2.6	20	

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S - Spike recovery outside of advisory limits.

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QA/QC Summary Report

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Report Date: 02/26/10
Work Order: C10010505

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-SO4 E									Batch: 100128_1_SO4-TURB-W	
Sample ID: LCS-1_100128		Laboratory Control Sample				Run: TURB-2_100128A			01/28/10 15:57	
Sulfate		4660	mg/L	59	97	90	110			
Sample ID: MBLK-1_100128		Method Blank				Run: TURB-2_100128A			01/28/10 16:00	
Sulfate		ND	mg/L	0.6						
Sample ID: C10010505-005BMS		Sample Matrix Spike				Run: TURB-2_100128A			01/28/10 16:27	
Sulfate		13800	mg/L	300	99	90	110			
Sample ID: C10010505-005BMSD		Sample Matrix Spike Duplicate				Run: TURB-2_100128A			01/28/10 16:30	
Sulfate		13700	mg/L	300	98	90	110	0.7	10	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 02/26/10
Work Order: C10010505

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E1632AM									Analytical Run: SUB-H60269	
Sample ID: ICB_13r		Initial Calibration Blank, Instrument Blank							02/12/10 10:13	
Arsenic-III		ND	ug/L	5.0		0	0			
Method: E1632AM									Batch: H_R60269	
Sample ID: AS100212-LFB		Laboratory Fortified Blank				Run: SUB-H60269			02/12/10 10:18	
Arsenic-III		54.2	ug/L	5.0	108	55	146			
Sample ID: C10010505-002E		Sample Matrix Spike				Run: SUB-H60269			02/12/10 11:31	
Arsenic-III		44.9	ug/L	5.0	88	55	146			
Sample ID: C10010505-002E		Sample Matrix Spike Duplicate				Run: SUB-H60269			02/12/10 11:36	
Arsenic-III		47.6	ug/L	5.0	93	55	146	5.9	20	
Sample ID: C10010505-005E		Sample Duplicate				Run: SUB-H60269			02/12/10 11:57	
Arsenic-III		1.94	ug/L	5.0					20	

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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R129285
Sample ID: MB-100203A	4	Method Blank				Run: ICP2-C_100203A				02/03/10 12:04
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-100203A	4	Laboratory Fortified Blank				Run: ICP2-C_100203A				02/03/10 12:08
Calcium		51.8	mg/L	0.50	104	85	115			
Magnesium		49.3	mg/L	0.50	99	85	115			
Potassium		43.9	mg/L	0.50	88	85	115			
Sodium		50.0	mg/L	0.50	100	85	115			
Sample ID: C10010493-001BMS2	4	Sample Matrix Spike				Run: ICP2-C_100203A				02/03/10 16:02
Calcium		165	mg/L	1.0	99	70	130			
Magnesium		103	mg/L	1.0	98	70	130			
Potassium		86.8	mg/L	1.0	83	70	130			
Sodium		133	mg/L	1.0	97	70	130			
Sample ID: C10010493-001BMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_100203A				02/03/10 16:06
Calcium		169	mg/L	1.0	103	70	130	2.3	20	
Magnesium		105	mg/L	1.0	100	70	130	2	20	
Potassium		89.5	mg/L	1.0	85	70	130	3	20	
Sodium		135	mg/L	1.0	99	70	130	1.2	20	

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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 25058
Sample ID: MB-25058	9	Method Blank				Run: ICPMS2-C_100127A				01/27/10 22:20
Aluminum		ND	mg/L	0.006						
Cadmium		ND	mg/L	7E-05						
Cobalt		ND	mg/L	3E-05						
Lead		ND	mg/L	8E-05						
Manganese		ND	mg/L	0.0001						
Molybdenum		ND	mg/L	9E-05						
Nickel		0.0002	mg/L	9E-05						
Uranium		ND	mg/L	6E-05						
Vanadium		0.003	mg/L	0.002						
Sample ID: LCS3-25058	9	Laboratory Control Sample				Run: ICPMS2-C_100127A				01/27/10 22:27
Aluminum		2.60	mg/L	0.10	104	85	115			
Cadmium		0.252	mg/L	0.010	101	85	115			
Cobalt		0.478	mg/L	0.010	96	85	115			
Lead		0.523	mg/L	0.050	105	85	115			
Manganese		2.46	mg/L	0.010	98	85	115			
Molybdenum		0.519	mg/L	0.10	104	85	115			
Nickel		0.473	mg/L	0.050	95	85	115			
Uranium		0.521	mg/L	0.00030	104	85	115			
Vanadium		0.508	mg/L	0.10	102	85	115			
Sample ID: C10010707-001AMS3	9	Sample Matrix Spike				Run: ICPMS2-C_100127A				01/28/10 01:03
Aluminum		2.46	mg/L	0.10	98	70	130			
Cadmium		0.229	mg/L	0.010	92	70	130			
Cobalt		0.437	mg/L	0.010	87	70	130			
Lead		0.465	mg/L	0.050	93	70	130			
Manganese		2.26	mg/L	0.010	90	70	130			
Molybdenum		0.494	mg/L	0.10	97	70	130			
Nickel		0.437	mg/L	0.050	87	70	130			
Uranium		0.519	mg/L	0.00030	103	70	130			
Vanadium		0.493	mg/L	0.10	99	70	130			
Sample ID: C10010707-001AMSD	9	Sample Matrix Spike Duplicate				Run: ICPMS2-C_100127A				01/28/10 01:09
Aluminum		2.46	mg/L	0.10	98	70	130	0.1	20	
Cadmium		0.239	mg/L	0.010	96	70	130	4.1	20	
Cobalt		0.441	mg/L	0.010	88	70	130	0.9	20	
Lead		0.483	mg/L	0.050	97	70	130	3.6	20	
Manganese		2.28	mg/L	0.010	90	70	130	0.7	20	
Molybdenum		0.506	mg/L	0.10	99	70	130	2.4	20	
Nickel		0.453	mg/L	0.050	90	70	130	3.7	20	
Uranium		0.531	mg/L	0.00030	106	70	130	2.3	20	
Vanadium		0.492	mg/L	0.10	98	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 02/26/10
Work Order: C10010505

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R129058
Sample ID: LRB	2	Method Blank				Run: ICPMS2-C_100128A				01/28/10 14:40
Aluminum		ND	mg/L	0.002						
Beryllium		ND	mg/L	6E-05						
Sample ID: LFB	2	Laboratory Fortified Blank				Run: ICPMS2-C_100128A				01/28/10 14:47
Aluminum		0.0532	mg/L	0.0022	106	85	115			
Beryllium		0.0511	mg/L	0.0010	102	85	115			
Sample ID: C10010509-003DMS4	2	Sample Matrix Spike				Run: ICPMS2-C_100128A				01/29/10 00:10
Aluminum		0.751	mg/L	0.10	87	70	130			
Beryllium		0.401	mg/L	0.010	80	70	130			
Sample ID: C10010509-003DMSD	2	Sample Matrix Spike Duplicate				Run: ICPMS2-C_100128A				01/29/10 00:17
Aluminum		0.741	mg/L	0.10	85	70	130	1.3	20	
Beryllium		0.396	mg/L	0.010	79	70	130	1.2	20	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 02/26/10
Work Order: C10010505

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R128717
Sample ID: LRB	8	Method Blank				Run: ICPMS4-C_100119A				01/19/10 12:18
Cadmium		ND	mg/L	4E-05						
Cobalt		ND	mg/L	4E-05						
Lead		ND	mg/L	2E-05						
Manganese		ND	mg/L	3E-05						
Molybdenum		ND	mg/L	0.0001						
Nickel		ND	mg/L	6E-05						
Uranium		ND	mg/L	3E-05						
Vanadium		ND	mg/L	4E-05						
Sample ID: LFB	8	Laboratory Fortified Blank				Run: ICPMS4-C_100119A				01/19/10 12:23
Cadmium		0.0564	mg/L	0.0010	113	85	115			
Cobalt		0.0563	mg/L	0.0010	113	85	115			
Lead		0.0550	mg/L	0.0010	110	85	115			
Manganese		0.0565	mg/L	0.0010	113	85	115			
Molybdenum		0.0559	mg/L	0.0010	112	85	115			
Nickel		0.0556	mg/L	0.0010	111	85	115			
Uranium		0.0574	mg/L	0.00030	115	85	115			
Vanadium		0.0547	mg/L	0.0010	109	85	115			
Sample ID: C10010505-005DMS4	8	Sample Matrix Spike				Run: ICPMS4-C_100119A				01/20/10 01:57
Cadmium		0.281	mg/L	0.010	105	70	130			
Cobalt		0.943	mg/L	0.010	92	70	130			
Lead		0.274	mg/L	0.050	109	70	130			
Manganese		11.2	mg/L	0.010		70	130			A
Molybdenum		3.39	mg/L	0.10		70	130			A
Nickel		1.10	mg/L	0.050	89	70	130			
Uranium		0.535	mg/L	0.00035	108	70	130			
Vanadium		0.236	mg/L	0.10	94	70	130			
Sample ID: C10010505-005DMSD	8	Sample Matrix Spike Duplicate				Run: ICPMS4-C_100119A				01/20/10 02:02
Cadmium		0.286	mg/L	0.010	107	70	130	1.9	20	
Cobalt		0.961	mg/L	0.010	99	70	130	1.9	20	
Lead		0.277	mg/L	0.050	110	70	130	1.1	20	
Manganese		11.5	mg/L	0.010		70	130	2.9	20	A
Molybdenum		3.44	mg/L	0.10		70	130	1.5	20	A
Nickel		1.11	mg/L	0.050	93	70	130	0.8	20	
Uranium		0.539	mg/L	0.00035	109	70	130	0.8	20	
Vanadium		0.238	mg/L	0.10	95	70	130	1.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 02/26/10
Work Order: C10010505

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 25058
Sample ID: MB-25058		Method Blank				Run: ICPMS4-C_100128A				01/29/10 07:06
Beryllium		ND	mg/L	9E-05						
Sample ID: LCS3-25058		Laboratory Control Sample				Run: ICPMS4-C_100128A				01/29/10 07:12
Beryllium		0.246	mg/L	0.010	99	85	115			
Sample ID: C10010707-001AMS3		Sample Matrix Spike				Run: ICPMS4-C_100128A				01/29/10 08:11
Beryllium		0.229	mg/L	0.010	91	70	130			
Sample ID: C10010707-001AMSD		Sample Matrix Spike Duplicate				Run: ICPMS4-C_100128A				01/29/10 08:16
Beryllium		0.236	mg/L	0.010	94	70	130	3.1	20	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 02/26/10
Work Order: C10010505

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R128806
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100121A				01/21/10 13:25
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.03						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100121A				01/21/10 13:28
Nitrogen, Nitrate+Nitrite as N		2.5	mg/L	0.10	98	90	110			
Sample ID: C10010493-005EMS		Sample Matrix Spike				Run: TECHNICON_100121A				01/21/10 14:31
Nitrogen, Nitrate+Nitrite as N		2.3	mg/L	0.10	115	90	110			S
Sample ID: C10010493-005EMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100121A				01/21/10 14:33
Nitrogen, Nitrate+Nitrite as N		2.3	mg/L	0.10	115	90	110			S
Sample ID: C10010509-004GMS		Sample Matrix Spike				Run: TECHNICON_100121A				01/21/10 15:31
Nitrogen, Nitrate+Nitrite as N		2.4	mg/L	0.10	120	90	110			S
Sample ID: C10010509-004GMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100121A				01/21/10 15:34
Nitrogen, Nitrate+Nitrite as N		2.4	mg/L	0.10	118	90	110			S

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 02/26/10
Work Order: C10010505

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R128682
Sample ID: 18-Jan-10_LCS_3	9	Laboratory Control Sample				Run: GCMS2_100118C				01/18/10 08:06
Bromodichloromethane		10.3	ug/L	0.50	103	70	130			
Bromoform		11.2	ug/L	0.50	112	70	130			
Chlorodibromomethane		11.0	ug/L	0.50	110	70	130			
Chloroform		10.3	ug/L	0.50	103	70	130			
Trihalomethanes, Total		42.8	ug/L	0.50	107	70	130			
Surr: 1,2-Dichlorobenzene-d4				0.50	111	80	120			
Surr: Dibromofluoromethane				0.50	106	80	120			
Surr: p-Bromofluorobenzene				0.50	102	80	120			
Surr: Toluene-d8				0.50	110	80	120			
Sample ID: 18-Jan-10_MBLK_6	9	Method Blank				Run: GCMS2_100118C				01/18/10 11:55
Bromodichloromethane		ND	ug/L	0.50						
Bromoform		ND	ug/L	0.50						
Chlorodibromomethane		ND	ug/L	0.50						
Chloroform		ND	ug/L	0.50						
Trihalomethanes, Total		ND	ug/L	0.50						
Surr: 1,2-Dichlorobenzene-d4				0.50	110	80	120			
Surr: Dibromofluoromethane				0.50	104	80	120			
Surr: p-Bromofluorobenzene				0.50	108	80	120			
Surr: Toluene-d8				0.50	105	80	120			
Sample ID: C10010505-005HMS	9	Sample Matrix Spike				Run: GCMS2_100118C				01/18/10 19:28
Bromodichloromethane		190	ug/L	20	95	70	130			
Bromoform		194	ug/L	20	97	70	130			
Chlorodibromomethane		197	ug/L	20	98	70	130			
Chloroform		215	ug/L	20	108	70	130			
Trihalomethanes, Total		796	ug/L	20	100	70	130			
Surr: 1,2-Dichlorobenzene-d4				20	112	80	120			
Surr: Dibromofluoromethane				20	111	80	120			
Surr: p-Bromofluorobenzene				20	99	80	120			
Surr: Toluene-d8				20	110	80	120			
Sample ID: C10010505-005HMSD	9	Sample Matrix Spike Duplicate				Run: GCMS2_100118C				01/18/10 20:03
Bromodichloromethane		189	ug/L	20	94	70	130	0.8	20	
Bromoform		206	ug/L	20	103	70	130	6.4	20	
Chlorodibromomethane		196	ug/L	20	98	70	130	0.4	20	
Chloroform		211	ug/L	20	106	70	130	1.9	20	
Trihalomethanes, Total		802	ug/L	20	100	70	130	0.8	20	
Surr: 1,2-Dichlorobenzene-d4				20	109	80	120			
Surr: Dibromofluoromethane				20	116	80	120			
Surr: p-Bromofluorobenzene				20	105	80	120			
Surr: Toluene-d8				20	110	80	120			

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 02/26/10
Work Order: C10010505

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.1										Batch: GA-0294
Sample ID: MB-GA-0294	3	Method Blank				Run: G542M_100129A				02/02/10 11:28
Gross Alpha minus Rn & U		0.07	pCi/L							U
Gross Alpha minus Rn & U Precision (±)		0.3	pCi/L							
Gross Alpha minus Rn & U MDC		0.4	pCi/L							
Sample ID: LCS-GA-0294		Laboratory Control Sample				Run: G542M_100129A				02/02/10 11:28
Gross Alpha minus Rn & U		27.6	pCi/L		105	70	130			
Sample ID: C10010490-001DMS		Sample Matrix Spike				Run: G542M_100129A				02/02/10 11:28
Gross Alpha minus Rn & U		28.9	pCi/L		105	70	130			
Sample ID: C10010490-001DMSD		Sample Matrix Spike Duplicate				Run: G542M_100129A				02/02/10 11:28
Gross Alpha minus Rn & U		32.1	pCi/L		117	70	130	11	22.7	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 02/26/10
Work Order: C10010505

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: RA226-4305
Sample ID: C10010519-001JMS		Sample Matrix Spike				Run: BERTHOLD 770-2_100120A			02/08/10 21:47	
Radium 226		12	pCi/L		76	70	130			
Sample ID: C10010519-001JMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-2_100120A			02/08/10 21:47	
Radium 226		14	pCi/L		88	70	130	15	27.3	
Sample ID: MB-RA226-4305	3	Method Blank				Run: BERTHOLD 770-2_100120A			02/08/10 21:47	
Radium 226		-0.09	pCi/L							U
Radium 226 precision (±)		0.06	pCi/L							
Radium 226 MDC		0.1	pCi/L							
Sample ID: LCS-RA226-4305		Laboratory Control Sample				Run: BERTHOLD 770-2_100120A			02/08/10 21:47	
Radium 226		8.3	pCi/L		106	70	130			
Method: E903.0										Batch: RA226-4360
Sample ID: C10020214-001CMS		Sample Matrix Spike				Run: G542M_100211A			02/23/10 12:46	
Radium 226		15	pCi/L		96	70	130			
Sample ID: C10020214-001CMSD		Sample Matrix Spike Duplicate				Run: G542M_100211A			02/23/10 12:46	
Radium 226		16	pCi/L		98	70	130	1.8	23.4	
Sample ID: MB-RA226-4360	3	Method Blank				Run: G542M_100211A			02/23/10 12:46	
Radium 226		0.04	pCi/L							U
Radium 226 precision (±)		0.09	pCi/L							
Radium 226 MDC		0.1	pCi/L							
Sample ID: LCS-RA226-4360		Laboratory Control Sample				Run: G542M_100211A			02/23/10 12:46	
Radium 226		8.1	pCi/L		102	70	130			

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 02/26/10
Work Order: C10010505

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: RA-TH-ISO-1077	
Sample ID: LCS-RA-TH-ISO-1077		Laboratory Control Sample				Run: EGG-ORTEC_100119C			01/21/10 09:22	
Thorium 230		5.4	pCi/L		97	70	130			
Sample ID: C10010505-004FMS		Sample Matrix Spike				Run: EGG-ORTEC_100119C			01/21/10 09:22	
Thorium 230		13.7	pCi/L		82	70	130			
Sample ID: C10010505-004FMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_100119C			01/21/10 09:22	
Thorium 230		13.4	pCi/L		79	70	130	2.4	38.3	
Sample ID: MB-RA-TH-ISO-1077	3	Method Blank				Run: EGG-ORTEC_100119C			01/22/10 08:59	
Thorium 230		0.05	pCi/L							U
Thorium 230 precision (±)		0.09	pCi/L							
Thorium 230 MDC		0.2	pCi/L							
Method: E907.0									Batch: RA-TH-ISO-1079	
Sample ID: LCS-RA-TH-ISO-1079		Laboratory Control Sample				Run: EGG-ORTEC_100122A			01/26/10 09:42	
Thorium 230		5.2	pCi/L		94	70	130			
Sample ID: C10010532-002AMS		Sample Matrix Spike				Run: EGG-ORTEC_100122A			01/26/10 09:42	
Thorium 230		11	pCi/L		87	70	130			
Sample ID: C10010532-002AMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_100122A			01/26/10 09:42	
Thorium 230		14	pCi/L		108	70	130	22	44.5	
Sample ID: MB-RA-TH-ISO-1079	3	Method Blank				Run: EGG-ORTEC_100122A			01/26/10 09:42	
Thorium 230		0.02	pCi/L							U
Thorium 230 precision (±)		0.07	pCi/L							
Thorium 230 MDC		0.1	pCi/L							

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 02/26/10
Work Order: C10010505

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M										Batch: R129338
Sample ID: C09070988-001AMS		Sample Matrix Spike				Run: BECKMAN 6100TA_100127B			01/27/10 09:30	
Lead 210		250	pCi/L		109	70	130			
Sample ID: C09070988-001AMSD		Sample Matrix Spike Duplicate				Run: BECKMAN 6100TA_100127B			01/27/10 09:30	
Lead 210		270	pCi/L		118	70	130	7.9	30	
Sample ID: MB-R129338	3	Method Blank				Run: BECKMAN 6100TA_100127B			01/27/10 09:30	
Lead 210		2	pCi/L							U
Lead 210 precision (±)		5	pCi/L							
Lead 210 MDC		8	pCi/L							
Sample ID: LCS-R129338		Laboratory Control Sample				Run: BECKMAN 6100TA_100127B			01/27/10 09:30	
Lead 210		97	pCi/L		85	70	130			

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 02/26/10
Work Order: C10010505

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-3043
Sample ID: LCS-228-RA226-4305		Laboratory Control Sample				Run: TENNELEC-3_100120C				02/03/10 11:13
Radium 228		11	pCi/L		115	70	130			
Sample ID: MB-RA226-4305	3	Method Blank				Run: TENNELEC-3_100120C				02/03/10 11:13
Radium 228		2	pCi/L							U
Radium 228 precision (±)		1	pCi/L							
Radium 228 MDC		2	pCi/L							
Sample ID: C10010519-001JMS		Sample Matrix Spike				Run: TENNELEC-3_100120C				02/03/10 11:13
Radium 228		21	pCi/L		123	70	130			
Sample ID: C10010519-001JMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_100120C				02/03/10 11:13
Radium 228		18	pCi/L		106	70	130	13	38.9	
Method: RA-05										Batch: RA228-3084
Sample ID: LCS-228-RA226-4360		Laboratory Control Sample				Run: TENNELEC-3_100211C				02/18/10 15:33
Radium 228		8.3	pCi/L		106	70	130			
Sample ID: MB-RA226-4360	3	Method Blank				Run: TENNELEC-3_100211C				02/18/10 15:33
Radium 228		-0.06	pCi/L							U
Radium 228 precision (±)		0.6	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: C10020163-001DMS		Sample Matrix Spike				Run: TENNELEC-3_100211C				02/18/10 15:33
Radium 228		16	pCi/L		100	70	130			
Sample ID: C10020163-001DMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_100211C				02/18/10 15:33
Radium 228		17	pCi/L		103	70	130	2.2	31.9	

Qualifiers:

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ANALYTICAL SUMMARY REPORT

February 03, 2010

United Nuclear Corporation
21 Miles NE Of Gallup
Gallup, NM 87305

Workorder No.: C10010508

Project Name: Zone 3

Energy Laboratories, Inc. received the following 10 samples for United Nuclear Corporation on 1/15/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C10010508-001	NBL-2	01/12/10 12:40	01/15/10	Aqueous	Alkalinity E300.0 Anions pH Solids, Total Dissolved
C10010508-002	PB-3	01/12/10 14:20	01/15/10	Aqueous	Same As Above
C10010508-003	PB-4	01/12/10 14:32	01/15/10	Aqueous	Acidity, Total as CaCO3 Alkalinity E300.0 Anions pH Solids, Total Dissolved
C10010508-004	PB-2	01/12/10 15:00	01/15/10	Aqueous	Alkalinity E300.0 Anions pH Solids, Total Dissolved
C10010508-005	RW-A	01/12/10 15:15	01/15/10	Aqueous	Same As Above
C10010508-006	NW-3	01/12/10 15:30	01/15/10	Aqueous	Same As Above
C10010508-007	NW-5	01/12/10 15:50	01/15/10	Aqueous	Same As Above
C10010508-008	NW-2	01/13/10 09:40	01/15/10	Aqueous	Same As Above
C10010508-009	NW-4	01/13/10 09:50	01/15/10	Aqueous	Same As Above
C10010508-010	NW-1	01/13/10 10:05	01/15/10	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: Stephanie D Waldrop

Stephanie D. Waldrop
Reporting Supervisor

ENERGY LABORATORIES, INC. • 2393 Salt Creek Highway (82601) • P.O. Box 3258 • Casper, WY 82602
Toll Free 888.235.0515 • 307.235.0515 • Fax 307.234.1639 • casper@energylab.com • www.energylab.com

CLIENT: United Nuclear Corporation
Project: Zone 3
Sample Delivery Group: C10010508

Date: *03-Feb-10*

CASE NARRATIVE

ORIGINAL SAMPLE SUBMITTAL(S)
All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)
Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS
Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

RADON IN AIR ANALYSIS
The desired exposure time is 48 hours (2 days). The time delay in returning the canister to the laboratory for processing should be as short as possible to avoid excessive decay. Maximum recommended delay between end of exposure to beginning of counting should not exceed 8 days.

SOIL/SOLID SAMPLES
All samples reported on an as received basis unless otherwise indicated.

ATRAZINE, SIMAZINE AND PCB ANALYSIS
Data for PCBs, Atrazine and Simazine are reported from EPA 525.2. PCB data reported by ELI reflects the results for seven individual Aroclors. When the results for all seven are ND (not detected), the sample meets EPA compliance criteria for PCB monitoring.

SUBCONTRACTING ANALYSIS
Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS
eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:
USEPA: WY00002, Radiochemical WY00937; FL-DOH NELAC: E87641, Radiochemical E871017; California: 02118CA; Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:
The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER,WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 02/03/10
Work Order: C10010508

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R128667
Sample ID: MBLK	2	Method Blank				Run: MANTECH_100118B				01/18/10 16:16
Alkalinity, Total as CaCO3		2	mg/L	1						
Bicarbonate as HCO3		3	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_100118B				01/18/10 16:32
Alkalinity, Total as CaCO3		190	mg/L	5.0	94	90	110			
Sample ID: LCS		Laboratory Control Sample				Run: MANTECH_100118B				01/18/10 16:42
Alkalinity, Total as CaCO3		53.3	mg/L	5.0	102	90	110			
Sample ID: C10010508-001AMS		Sample Matrix Spike				Run: MANTECH_100118B				01/18/10 21:25
Alkalinity, Total as CaCO3		382	mg/L	5.0	92	80	120			
Sample ID: C10010508-001AMSD		Sample Matrix Spike Duplicate				Run: MANTECH_100118B				01/18/10 21:34
Alkalinity, Total as CaCO3		383	mg/L	5.0	93	80	120	0.3	20	
Method: A2540 C										Batch: 100118_1_SLDS-TDS-W
Sample ID: MBLK1_100118		Method Blank				Run: BAL-1_100118A				01/18/10 11:00
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_100118		Laboratory Control Sample				Run: BAL-1_100118A				01/18/10 11:00
Solids, Total Dissolved TDS @ 180 C		991	mg/L	10	99	90	110			
Sample ID: C10010505-006AMS		Sample Matrix Spike				Run: BAL-1_100118A				01/18/10 11:04
Solids, Total Dissolved TDS @ 180 C		8370	mg/L	14	110	90	110			
Sample ID: C10010505-006AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_100118A				01/18/10 11:04
Solids, Total Dissolved TDS @ 180 C		8290	mg/L	14	110	90	110	0.9	10	
Sample ID: C10010508-007AMS		Sample Matrix Spike				Run: BAL-1_100118A				01/18/10 11:08
Solids, Total Dissolved TDS @ 180 C		5680	mg/L	10	106	90	110			
Sample ID: C10010508-007AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_100118A				01/18/10 11:08
Solids, Total Dissolved TDS @ 180 C		5690	mg/L	10	104	90	110	0.1	10	
Method: A4500-H B										Analytical Run: ORION555A-2_100118A
Sample ID: ICV1_100118_1		Initial Calibration Verification Standard								01/18/10 09:09
pH		6.84	s.u.	0.010	100	98	102			
Method: A4500-H B										Batch: 100118_1_PH-W_555A-2
Sample ID: C10010508-009ADUP		Sample Duplicate				Run: ORION555A-2_100118A				01/18/10 10:02
pH		6.25	s.u.	0.010				0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 02/03/10
Work Order: C10010508

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0										Batch: R128716
Sample ID: LCS		Laboratory Control Sample				Run: IC2-C_100119A				01/19/10 13:42
Chloride		9.59	mg/L	1.0	96	90	110			
Sample ID: MBLK		Method Blank				Run: IC2-C_100119A				01/19/10 13:58
Chloride		ND	mg/L	0.04						
Sample ID: C10010504-001AMS		Sample Matrix Spike				Run: IC2-C_100119A				01/19/10 19:27
Chloride		84.7	mg/L	1.0	100	80	120			
Sample ID: C10010504-001AMSD		Sample Matrix Spike Duplicate				Run: IC2-C_100119A				01/19/10 19:43
Chloride		85.5	mg/L	1.0	102	80	120	1	20	
Sample ID: C10010533-001AMS		Sample Matrix Spike				Run: IC2-C_100119A				01/19/10 23:49
Chloride		468	mg/L	1.0	85	80	120			
Sample ID: C10010533-001AMSD		Sample Matrix Spike Duplicate				Run: IC2-C_100119A				01/20/10 00:06
Chloride		470	mg/L	1.0	87	80	120	0.4	20	

Qualifiers:

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ND - Not detected at the reporting limit.

APPENDIX – D (2 OF 2)

SECOND QUARTER

LABORATORY QUALITY CONTROL AND

PERFORMANCE REPORT

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ANALYTICAL SUMMARY REPORT

May 10, 2010

United Nuclear Corporation
21 Miles NE Of Gallup
Gallup, NM 87305

Workorder No.: C10040364 Quote ID: C129 - Quarterly Long List

Project Name: Alluvium

Energy Laboratories, Inc. received the following 16 samples for United Nuclear Corporation on 4/12/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C10040364-001	509-D	04/05/10 09:15	04/12/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Chloride Arsenic Speciation Selenium-IV, Total Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Metals Preparation by EPA 200.2 Gross Alpha minus Rn222 and Uranium Lead 210, Total Radium 226, Total Radium 228, Total Thorium, Isotopic Solids, Total Dissolved Sulfate E624 Purgeable Organics
C10040364-002	EPA-23	04/05/10 09:55	04/12/10	Aqueous	Same As Above
C10040364-003	803	04/05/10 10:40	04/12/10	Aqueous	Same As Above
C10040364-004	808	04/05/10 11:15	04/12/10	Aqueous	Same As Above
C10040364-005	802	04/05/10 11:50	04/12/10	Aqueous	Same As Above
C10040364-006	801	04/05/10 12:25	04/12/10	Aqueous	Same As Above
C10040364-007	GW-2	04/05/10 13:00	04/12/10	Aqueous	Same As Above
C10040364-008	GW-1	04/05/10 13:40	04/12/10	Aqueous	Same As Above
C10040364-009	632	04/05/10 14:35	04/12/10	Aqueous	Same As Above
C10040364-010	624	04/06/10 08:50	04/12/10	Aqueous	Same As Above
C10040364-011	SBL-1	04/06/10 09:25	04/12/10	Aqueous	Same As Above
C10040364-012	EPA-28	04/06/10 10:00	04/12/10	Aqueous	Same As Above
C10040364-013	EPA-28 Duplicate	04/06/10 10:25	04/12/10	Aqueous	Same As Above
C10040364-014	GW-3	04/06/10 11:15	04/12/10	Aqueous	Same As Above
C10040364-015	EPA-25	04/06/10 11:50	04/12/10	Aqueous	Same As Above
C10040364-016	627	04/06/10 12:40	04/12/10	Aqueous	Same As Above

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ANALYTICAL SUMMARY REPORT

Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

Stephanie D. Waldrop
Reporting Supervisor

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 05/10/10
Work Order: C10040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B									Batch: R131565
Sample ID: MBLK	Method Blank				Run: MANTECH_100413A				04/13/10 10:20
Alkalinity, Total as CaCO3	3	mg/L	1						
Bicarbonate as HCO3	4	mg/L	1						
Sample ID: LCS1	Laboratory Control Sample				Run: MANTECH_100413A				04/13/10 10:47
Alkalinity, Total as CaCO3	200	mg/L	5.0	98	90	110			
Sample ID: LCS	Laboratory Control Sample				Run: MANTECH_100413A				04/13/10 10:56
Alkalinity, Total as CaCO3	56.8	mg/L	5.0	107	90	110			
Sample ID: C10040318-003AMS	Sample Matrix Spike				Run: MANTECH_100413A				04/13/10 11:46
Alkalinity, Total as CaCO3	281	mg/L	5.0	104	80	120			
Sample ID: C10040318-003AMSD	Sample Matrix Spike Duplicate				Run: MANTECH_100413A				04/13/10 11:54
Alkalinity, Total as CaCO3	277	mg/L	5.0	101	80	120	1.3	20	
Method: A2320 B									Batch: R131657
Sample ID: MBLK	Method Blank				Run: MANTECH_100415A				04/15/10 14:18
Alkalinity, Total as CaCO3	3	mg/L	1						
Bicarbonate as HCO3	3	mg/L	1						
Sample ID: LCS1	Laboratory Control Sample				Run: MANTECH_100415A				04/15/10 14:33
Alkalinity, Total as CaCO3	218	mg/L	5.0	108	90	110			
Sample ID: LCS	Laboratory Control Sample				Run: MANTECH_100415A				04/15/10 14:50
Alkalinity, Total as CaCO3	55.4	mg/L	5.0	106	90	110			
Sample ID: C10040364-015AMS	Sample Matrix Spike				Run: MANTECH_100415A				04/15/10 16:38
Alkalinity, Total as CaCO3	1100	mg/L	5.0	102	80	120			
Sample ID: C10040364-015AMSD	Sample Matrix Spike Duplicate				Run: MANTECH_100415A				04/15/10 16:48
Alkalinity, Total as CaCO3	1120	mg/L	5.0	115	80	120	1.4	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 05/10/10
Work Order: C10040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 100413_1_SLDS-TDS-W	
Sample ID: MBLK1_100413	Method Blank				Run: BAL-1_100413B			04/13/10 11:13	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	10						
Sample ID: LCS1_100413	Laboratory Control Sample				Run: BAL-1_100413B			04/13/10 11:13	
Solids, Total Dissolved TDS @ 180 C	981	mg/L	10	98	90	110			
Sample ID: C10040348-001AMS	Sample Matrix Spike				Run: BAL-1_100413B			04/13/10 11:14	
Solids, Total Dissolved TDS @ 180 C	2400	mg/L	10	105	90	110			
Sample ID: C10040348-001AMSD	Sample Matrix Spike Duplicate				Run: BAL-1_100413B			04/13/10 11:15	
Solids, Total Dissolved TDS @ 180 C	2440	mg/L	10	106	90	110	1.5	10	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 05/10/10
Work Order: C10040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B								Batch: SE3114-100414A	
Sample ID: MBLK	Method Blank				Run: CVAA-C202_100414A			04/14/10 12:06	
Selenium-IV	0.0005	mg/L	0.0002						
Sample ID: As/Se 1.0ppm-Q 040810	Laboratory Control Sample				Run: CVAA-C202_100414A			04/14/10 12:08	
Selenium-IV	0.0490	mg/L	0.0010	97	90	110			
Sample ID: C10040364-001CMS	Sample Matrix Spike				Run: CVAA-C202_100414A			04/14/10 12:15	
Selenium-IV	0.0461	mg/L	0.0010	91	85	115			
Sample ID: C10040364-001CMSD	Sample Matrix Spike Duplicate				Run: CVAA-C202_100414A			04/14/10 12:17	
Selenium-IV	0.0459	mg/L	0.0010	91	85	115	0.4	10	
Sample ID: C10040364-011CMS	Sample Matrix Spike				Run: CVAA-C202_100414A			04/14/10 12:52	
Selenium-IV	0.0439	mg/L	0.0010	87	85	115			
Sample ID: C10040364-011CMSD	Sample Matrix Spike Duplicate				Run: CVAA-C202_100414A			04/14/10 12:54	
Selenium-IV	0.0453	mg/L	0.0010	89	85	115	3	10	
Method: A3114 B								Batch: SE3114-100414B	
Sample ID: MBLK	Method Blank				Run: CVAA-C202_100414B			04/14/10 13:50	
Selenium-IV	0.0007	mg/L	0.0002						
Sample ID: As/Se 1.0ppm-Q 04081	Laboratory Control Sample				Run: CVAA-C202_100414B			04/14/10 13:52	
Selenium-IV	0.0501	mg/L	0.0010	99	90	110			
Sample ID: C10040365-005CMS	Sample Matrix Spike				Run: CVAA-C202_100414B			04/14/10 14:12	
Selenium-IV	0.0498	mg/L	0.0010	98	85	115			
Sample ID: C10040365-005CMSD	Sample Matrix Spike Duplicate				Run: CVAA-C202_100414B			04/14/10 14:15	
Selenium-IV	0.0504	mg/L	0.0010	99	85	115	1.2	10	

Qualifiers:

RL - Analyte reporting limit.
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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 05/10/10
Work Order: C10040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-Cl B								Batch: 100413-CL-TTR-W	
Sample ID: MBLK9-100413	Method Blank				Run: TITRATION_100413B			04/13/10 11:40	
Chloride	ND	mg/L	0.4						
Sample ID: C10040364-010AMS	Sample Matrix Spike				Run: TITRATION_100413B			04/13/10 15:54	
Chloride	545	mg/L	1.0	98	90	110			
Sample ID: C10040364-010AMSD	Sample Matrix Spike Duplicate				Run: TITRATION_100413B			04/13/10 15:57	
Chloride	545	mg/L	1.0	98	90	110	0	10	
Sample ID: LCS35-100413	Laboratory Control Sample				Run: TITRATION_100413B			04/13/10 15:59	
Chloride	3510	mg/L	1.0	99	90	110			
Method: A4500-Cl B								Batch: 100503A-CL-TTR-W	
Sample ID: MBLK9-100503A	Method Blank				Run: TITRATION_100503A			05/03/10 12:07	
Chloride	ND	mg/L	0.4						
Sample ID: C10040651-006AMS	Sample Matrix Spike				Run: TITRATION_100503A			05/03/10 14:23	
Chloride	372	mg/L	3.0	95	90	110			
Sample ID: C10040651-006AMSD	Sample Matrix Spike Duplicate				Run: TITRATION_100503A			05/03/10 14:24	
Chloride	375	mg/L	3.0	96	90	110	0.9	10	
Sample ID: LCS35-100503A	Laboratory Control Sample				Run: TITRATION_100503A			05/03/10 14:26	
Chloride	3470	mg/L	1.0	98	90	110			

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 05/10/10
Work Order: C10040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_100412A	
Sample ID: ICV1_100412_1	Initial Calibration Verification Standard								04/12/10 14:20
pH	6.79	s.u.	0.010	99	98	102			
Method: A4500-H B								Batch: 100412_1_PH-W_555A-2	
Sample ID: C10040364-005ADUP	Sample Duplicate				Run: ORION555A-2_100412A				04/12/10 14:52
pH	6.57	s.u.	0.010				0.3	10	

Qualifiers:

RL - Analyte reporting limit.
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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 05/10/10
Work Order: C10040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G									Batch: R131555
Sample ID: MBLK-1	Method Blank				Run: TECHNICON_100413A				04/13/10 20:59
Nitrogen, Ammonia as N	ND	mg/L	0.02						
Sample ID: LCS-2	Laboratory Control Sample				Run: TECHNICON_100413A				04/13/10 21:01
Nitrogen, Ammonia as N	21.9	mg/L	0.20	109	80	120			
Sample ID: C10040099-002FMS	Sample Matrix Spike				Run: TECHNICON_100413A				04/13/10 21:13
Nitrogen, Ammonia as N	1.94	mg/L	0.050	97	80	120			
Sample ID: C10040099-002FMSD	Sample Matrix Spike Duplicate				Run: TECHNICON_100413A				04/13/10 21:15
Nitrogen, Ammonia as N	2.14	mg/L	0.050	107	80	120	9.8	20	
Method: A4500-NH3 G									Batch: R131754
Sample ID: MBLK-1	Method Blank				Run: TECHNICON_100419A				04/19/10 15:44
Nitrogen, Ammonia as N	ND	mg/L	0.02						
Sample ID: LCS-2	Laboratory Control Sample				Run: TECHNICON_100419A				04/19/10 15:46
Nitrogen, Ammonia as N	20.4	mg/L	0.20	102	80	120			
Sample ID: C10040364-005DMS	Sample Matrix Spike				Run: TECHNICON_100419A				04/19/10 15:58
Nitrogen, Ammonia as N	2.19	mg/L	0.050	108	80	120			
Sample ID: C10040364-005DMSD	Sample Matrix Spike Duplicate				Run: TECHNICON_100419A				04/19/10 16:00
Nitrogen, Ammonia as N	2.20	mg/L	0.050	109	80	120	0.5	20	
Method: A4500-NH3 G									Batch: R131797
Sample ID: MBLK-1	Method Blank				Run: TECHNICON_100420A				04/20/10 14:50
Nitrogen, Ammonia as N	ND	mg/L	0.02						
Sample ID: LCS-2	Laboratory Control Sample				Run: TECHNICON_100420A				04/20/10 14:53
Nitrogen, Ammonia as N	20.8	mg/L	0.20	104	80	120			
Sample ID: C10040464-003DMS	Sample Matrix Spike				Run: TECHNICON_100420A				04/20/10 15:37
Nitrogen, Ammonia as N	2.37	mg/L	0.050	117	80	120			
Sample ID: C10040464-003DMSD	Sample Matrix Spike Duplicate				Run: TECHNICON_100420A				04/20/10 15:39
Nitrogen, Ammonia as N	2.36	mg/L	0.050	116	80	120	0.4	20	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 05/10/10
Work Order: C10040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-SO4 E							Batch: 100422_1_SO4-TURB-W		
Sample ID: LCS-1_100422	Laboratory Control Sample				Run: TURB-2_100422A			04/22/10 13:40	
Sulfate	5070	mg/L	59	106	90	110			
Sample ID: MBLK-1_100422	Method Blank				Run: TURB-2_100422A			04/22/10 13:43	
Sulfate	ND	mg/L	0.6						
Sample ID: C10040281-001AMS	Sample Matrix Spike				Run: TURB-2_100422A			04/22/10 13:52	
Sulfate	598	mg/L	9.8	97	90	110			
Sample ID: C10040281-001AMSD	Sample Matrix Spike Duplicate				Run: TURB-2_100422A			04/22/10 13:54	
Sulfate	596	mg/L	9.8	97	90	110	0.3	10	
Method: A4500-SO4 E							Batch: 100429_1_SO4-TURB-W		
Sample ID: LCS-1_100429	Laboratory Control Sample				Run: TURB-2_100429A			04/29/10 16:14	
Sulfate	4850	mg/L	59	101	90	110			
Sample ID: MBLK-1_100429	Method Blank				Run: TURB-2_100429A			04/29/10 16:17	
Sulfate	ND	mg/L	0.6						
Sample ID: C10040364-008AMS	Sample Matrix Spike				Run: TURB-2_100429A			04/29/10 16:55	
Sulfate	8260	mg/L	150	93	90	110			
Sample ID: C10040364-008AMSD	Sample Matrix Spike Duplicate				Run: TURB-2_100429A			04/29/10 16:58	
Sulfate	8210	mg/L	150	92	90	110	0.6	10	
Method: A4500-SO4 E							Batch: 100430_1_SO4-TURB-W		
Sample ID: MBLK-1_100430	Method Blank				Run: TURB-2_100430A			04/30/10 12:37	
Sulfate	ND	mg/L	0.6						
Sample ID: LCS-1_100430	Laboratory Control Sample				Run: TURB-2_100430A			04/30/10 12:39	
Sulfate	5030	mg/L	59	105	90	110			
Sample ID: C10040365-002AMS	Sample Matrix Spike				Run: TURB-2_100430A			04/30/10 13:14	
Sulfate	9710	mg/L	150	101	90	110			
Sample ID: C10040365-002AMSD	Sample Matrix Spike Duplicate				Run: TURB-2_100430A			04/30/10 13:16	
Sulfate	9860	mg/L	150	104	90	110	1.5	10	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 05/10/10
Work Order: C10040364

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	**E1632AM**								Analytical Run: SUB-H61735	
Sample ID:	**ICB_13r**	Initial Calibration Blank, Instrument Blank							04/20/10 11:26	
Arsenic-III		ND	ug/L	5.0		0	0			
Method:	**E1632AM**								Batch: H_R61735	
Sample ID:	**AS100420-LFB**	Laboratory Fortified Blank				Run: SUB-H61735			04/20/10 11:32	
Arsenic-III		49.5	ug/L	5.0	99	55	146			
Sample ID:	**H10040159-003E MS**	Sample Matrix Spike				Run: SUB-H61735			04/20/10 12:03	
Arsenic-III		50.5	ug/L	5.0	101	55	146			
Sample ID:	**H10040159-003E MSD**	Sample Matrix Spike Duplicate				Run: SUB-H61735			04/20/10 12:08	
Arsenic-III		50.1	ug/L	5.0	100	55	146	0.8	20	
Method:	**E1632AM**								Analytical Run: SUB-H61766	
Sample ID:	**ICB_13r**	Initial Calibration Blank, Instrument Blank							04/21/10 11:13	
Arsenic-III		ND	ug/L	5.0		0	0			
Method:	**E1632AM**								Batch: H_R61766	
Sample ID:	**AS100421-LFB**	Laboratory Fortified Blank				Run: SUB-H61766			04/21/10 11:18	
Arsenic-III		54.7	ug/L	5.0	109	55	146			
Sample ID:	**H10040260-002E MS**	Sample Matrix Spike				Run: SUB-H61766			04/21/10 11:50	
Arsenic-III		74.4	ug/L	5.0	105	55	146			
Sample ID:	**H10040260-002E MSD**	Sample Matrix Spike Duplicate				Run: SUB-H61766			04/21/10 11:55	
Arsenic-III		71.2	ug/L	5.0	99	55	146	4.4	20	

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QA/QC Summary Report

Client: United Nuclear Corporation
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Report Date: 05/10/10
Work Order: C10040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: R131673
Sample ID: MB-100415A	Method Blank				Run: ICP2-C_100415A				04/15/10 14:06
Calcium	ND	mg/L	0.2						
Magnesium	ND	mg/L	0.05						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.3						
Sample ID: LFB-100415A	Laboratory Fortified Blank				Run: ICP2-C_100415A				04/15/10 14:10
Calcium	48.3	mg/L	0.50	97	85	115			
Magnesium	47.7	mg/L	0.50	95	85	115			
Potassium	46.6	mg/L	0.50	93	85	115			
Sodium	48.9	mg/L	0.50	98	85	115			
Sample ID: C10040364-009BMS2	Sample Matrix Spike				Run: ICP2-C_100415A				04/15/10 17:07
Calcium	1190	mg/L	2.3	105	70	130			
Magnesium	1400	mg/L	1.0	101	70	130			
Potassium	516	mg/L	1.0	99	70	130			
Sodium	994	mg/L	2.9	108	70	130			
Sample ID: C10040364-009BMSD2	Sample Matrix Spike Duplicate				Run: ICP2-C_100415A				04/15/10 17:11
Calcium	1290	mg/L	2.3	125	70	130	8.1	20	
Magnesium	1520	mg/L	1.0	125	70	130	8.2	20	
Potassium	515	mg/L	1.0	99	70	130	0.2	20	
Sodium	1000	mg/L	2.9	110	70	130	0.9	20	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 05/10/10
Work Order: C10040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: R131801
Sample ID: MB-100420A	Method Blank				Run: ICP2-C_100420A				04/20/10 11:15
Calcium	ND	mg/L	0.2						
Magnesium	ND	mg/L	0.05						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.3						
Sample ID: LFB-100420A	Laboratory Fortified Blank				Run: ICP2-C_100420A				04/20/10 11:19
Calcium	50.8	mg/L	0.50	102	85	115			
Magnesium	51.2	mg/L	0.50	102	85	115			
Potassium	47.2	mg/L	0.50	94	85	115			
Sodium	48.7	mg/L	0.50	97	85	115			
Sample ID: C10040045-001BMS2	Sample Matrix Spike				Run: ICP2-C_100420A				04/20/10 12:11
Calcium	500	mg/L	1.0	97	70	130			
Magnesium	510	mg/L	1.0	100	70	130			
Potassium	532	mg/L	1.0	99	70	130			
Sodium	1970	mg/L	2.9	102	70	130			
Sample ID: C10040045-001BMSD2	Sample Matrix Spike Duplicate				Run: ICP2-C_100420A				04/20/10 12:15
Calcium	551	mg/L	1.0	108	70	130	9.7	20	
Magnesium	568	mg/L	1.0	111	70	130	11	20	
Potassium	548	mg/L	1.0	102	70	130	2.8	20	
Sodium	2050	mg/L	2.9	116	70	130	3.7	20	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 05/10/10
Work Order: C10040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: R132268
Sample ID: MB-100501A	Method Blank				Run: ICP2-C_100503A				05/03/10 14:09
Calcium	ND	mg/L	0.2						
Magnesium	ND	mg/L	0.05						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.3						
Sample ID: LFB-100501A	Laboratory Fortified Blank				Run: ICP2-C_100503A				05/03/10 14:13
Calcium	47.7	mg/L	0.50	95	85	115			
Magnesium	46.7	mg/L	0.50	93	85	115			
Potassium	47.5	mg/L	0.50	95	85	115			
Sodium	48.6	mg/L	0.50	97	85	115			
Sample ID: C10040364-013BMS2	Sample Matrix Spike				Run: ICP2-C_100503A				05/03/10 15:09
Calcium	994	mg/L	2.3	89	70	130			
Magnesium	956	mg/L	1.0	92	70	130			
Potassium	497	mg/L	1.0	95	70	130			
Sodium	737	mg/L	2.9	99	70	130			
Sample ID: C10040364-013BMSD2	Sample Matrix Spike Duplicate				Run: ICP2-C_100503A				05/03/10 15:13
Calcium	1010	mg/L	2.3	92	70	130	1.2	20	
Magnesium	974	mg/L	1.0	96	70	130	1.9	20	
Potassium	484	mg/L	1.0	92	70	130	2.8	20	
Sodium	747	mg/L	2.9	101	70	130	1.2	20	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 05/10/10
Work Order: C10040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: 25802
Sample ID: MB-25802	Method Blank				Run: ICPMS2-C_100413A				04/13/10 14:10
Aluminum	ND	mg/L	0.01						
Beryllium	ND	mg/L	2E-05						
Cadmium	ND	mg/L	4E-05						
Cobalt	ND	mg/L	0.0004						
Lead	ND	mg/L	5E-05						
Manganese	0.0002	mg/L	9E-05						
Molybdenum	0.0003	mg/L	0.0001						
Nickel	ND	mg/L	8E-05						
Uranium	ND	mg/L	4E-05						
Vanadium	0.003	mg/L	0.0005						
Sample ID: LCS3-25802	Laboratory Control Sample				Run: ICPMS2-C_100413A				04/13/10 14:17
Aluminum	2.49	mg/L	0.10	99	85	115			
Beryllium	0.249	mg/L	0.010	100	85	115			
Cadmium	0.251	mg/L	0.010	100	85	115			
Cobalt	0.453	mg/L	0.010	91	85	115			
Lead	0.514	mg/L	0.050	103	85	115			
Manganese	2.36	mg/L	0.010	94	85	115			
Molybdenum	0.536	mg/L	0.10	107	85	115			
Nickel	0.446	mg/L	0.050	89	85	115			
Uranium	0.536	mg/L	0.00030	107	85	115			
Vanadium	0.481	mg/L	0.10	96	85	115			
Sample ID: C10040364-013CMS4	Sample Matrix Spike				Run: ICPMS2-C_100413A				04/13/10 18:38
Aluminum	0.250	mg/L	0.10	100	70	130			
Beryllium	0.227	mg/L	0.010	91	70	130			
Cadmium	0.244	mg/L	0.010	98	70	130			
Cobalt	0.243	mg/L	0.010	97	70	130			
Lead	0.257	mg/L	0.050	103	70	130			
Manganese	0.794	mg/L	0.010	89	70	130			
Molybdenum	0.268	mg/L	0.10	107	70	130			
Nickel	0.251	mg/L	0.050	96	70	130			
Uranium	0.310	mg/L	0.00030	107	70	130			
Vanadium	0.255	mg/L	0.10	101	70	130			
Sample ID: C10040364-013CMSD4	Sample Matrix Spike Duplicate				Run: ICPMS2-C_100413A				04/13/10 18:45
Aluminum	0.264	mg/L	0.10	105	70	130	5.3	20	
Beryllium	0.226	mg/L	0.010	90	70	130	0.5	20	
Cadmium	0.244	mg/L	0.010	98	70	130	0.1	20	
Cobalt	0.242	mg/L	0.010	97	70	130	0.7	20	
Lead	0.252	mg/L	0.050	101	70	130	1.7	20	
Manganese	0.796	mg/L	0.010	90	70	130	0.3	20	
Molybdenum	0.266	mg/L	0.10	106	70	130	0.6	20	
Nickel	0.246	mg/L	0.050	94	70	130	1.8	20	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 05/10/10
Work Order: C10040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: 25802
Sample ID: C10040364-013CMSD4	Sample Matrix Spike Duplicate				Run: ICPMS2-C_100413A				04/13/10 18:45
Uranium	0.302	mg/L	0.00030	104	70	130	2.5	20	
Vanadium	0.255	mg/L	0.10	101	70	130	0.3	20	
Method: E200.8									Batch: 25803
Sample ID: MB-25803	Method Blank				Run: ICPMS2-C_100413A				04/13/10 19:26
Aluminum	ND	mg/L	0.01						
Beryllium	ND	mg/L	2E-05						
Cadmium	ND	mg/L	4E-05						
Cobalt	ND	mg/L	0.0004						
Lead	ND	mg/L	5E-05						
Manganese	ND	mg/L	9E-05						
Molybdenum	0.0002	mg/L	0.0001						
Nickel	ND	mg/L	8E-05						
Uranium	ND	mg/L	4E-05						
Vanadium	0.003	mg/L	0.0005						
Sample ID: LCS3-25803	Laboratory Control Sample				Run: ICPMS2-C_100413A				04/13/10 19:33
Aluminum	2.44	mg/L	0.10	97	85	115			
Beryllium	0.268	mg/L	0.010	107	85	115			
Cadmium	0.253	mg/L	0.010	101	85	115			
Cobalt	0.490	mg/L	0.010	98	85	115			
Lead	0.520	mg/L	0.050	104	85	115			
Manganese	2.46	mg/L	0.010	99	85	115			
Molybdenum	0.552	mg/L	0.10	110	85	115			
Nickel	0.486	mg/L	0.050	97	85	115			
Uranium	0.543	mg/L	0.00030	109	85	115			
Vanadium	0.515	mg/L	0.10	102	85	115			
Sample ID: C10040365-005CMS4	Sample Matrix Spike				Run: ICPMS2-C_100413A				04/13/10 21:00
Aluminum	0.0508	mg/L	0.010	101	70	130			
Beryllium	0.0488	mg/L	0.010	98	70	130			
Cadmium	0.0504	mg/L	0.010	101	70	130			
Cobalt	0.0488	mg/L	0.010	98	70	130			
Lead	0.0514	mg/L	0.050	102	70	130			
Manganese	0.0490	mg/L	0.010	97	70	130			
Molybdenum	0.0522	mg/L	0.0010	104	70	130			
Nickel	0.0504	mg/L	0.0010	101	70	130			
Uranium	0.0514	mg/L	0.00030	103	70	130			
Vanadium	0.0505	mg/L	0.0010	99	70	130			
Sample ID: C10040365-005CMSD4	Sample Matrix Spike Duplicate				Run: ICPMS2-C_100413A				04/13/10 21:07
Aluminum	0.0587	mg/L	0.010	117	70	130	15	20	
Beryllium	0.0491	mg/L	0.010	98	70	130	0.7	20	

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QA/QC Summary Report

Client: United Nuclear Corporation
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Work Order: C10040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: 25803
Sample ID: C10040365-005CMSD4	Sample Matrix Spike Duplicate				Run: ICPMS2-C_100413A			04/13/10 21:07	
Cadmium	0.0503	mg/L	0.010	101	70	130	0.1	20	
Cobalt	0.0493	mg/L	0.010	99	70	130	1	20	
Lead	0.0510	mg/L	0.050	102	70	130	0.8	20	
Manganese	0.0495	mg/L	0.010	98	70	130	1.1	20	
Molybdenum	0.0520	mg/L	0.0010	104	70	130	0.3	20	
Nickel	0.0497	mg/L	0.0010	99	70	130	1.5	20	
Uranium	0.0511	mg/L	0.00030	102	70	130	0.6	20	
Vanadium	0.0507	mg/L	0.0010	99	70	130	0.2	20	
Method: E200.8									Batch: 25802
Sample ID: MB-25802	Method Blank				Run: ICPMS2-C_100416A			04/16/10 16:33	
Beryllium	ND	mg/L	2E-05						
Sample ID: LCS3-25802	Laboratory Control Sample				Run: ICPMS2-C_100416A			04/16/10 16:40	
Beryllium	0.269	mg/L	0.010	107	85	115			
Sample ID: C10040364-011CMS4	Sample Matrix Spike				Run: ICPMS2-C_100416A			04/16/10 17:00	
Beryllium	0.231	mg/L	0.010	92	70	130			
Sample ID: C10040364-011CMSD4	Sample Matrix Spike Duplicate				Run: ICPMS2-C_100416A			04/16/10 17:07	
Beryllium	0.228	mg/L	0.010	91	70	130	1.5	20	

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Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: 25802
Sample ID: MB-25802	Method Blank				Run: ICPMS2-C_100430A				04/30/10 16:11
Aluminum	ND	mg/L	0.01						
Cadmium	ND	mg/L	4E-05						
Cobalt	ND	mg/L	0.0004						
Manganese	ND	mg/L	9E-05						
Molybdenum	ND	mg/L	0.0001						
Nickel	ND	mg/L	8E-05						
Vanadium	0.0005	mg/L	0.0005						
Sample ID: LCS3-25802	Laboratory Control Sample				Run: ICPMS2-C_100430A				04/30/10 16:18
Aluminum	2.33	mg/L	0.10	93	85	115			
Cadmium	0.250	mg/L	0.010	100	85	115			
Cobalt	0.456	mg/L	0.010	91	85	115			
Manganese	2.36	mg/L	0.010	94	85	115			
Molybdenum	0.548	mg/L	0.10	110	85	115			
Nickel	0.473	mg/L	0.050	95	85	115			
Vanadium	0.478	mg/L	0.10	95	85	115			
Sample ID: C10040364-011CMS4	Sample Matrix Spike				Run: ICPMS2-C_100430A				04/30/10 17:31
Aluminum	0.362	mg/L	0.10	93	70	130			
Cadmium	0.246	mg/L	0.010	98	70	130			
Cobalt	0.261	mg/L	0.010	96	70	130			
Manganese	3.15	mg/L	0.010		70	130			A
Molybdenum	0.274	mg/L	0.10	109	70	130			
Nickel	0.301	mg/L	0.050	91	70	130			
Vanadium	0.253	mg/L	0.10	101	70	130			
Sample ID: C10040364-011CMSD4	Sample Matrix Spike Duplicate				Run: ICPMS2-C_100430A				04/30/10 17:38
Aluminum	0.365	mg/L	0.10	94	70	130	0.9	20	
Cadmium	0.247	mg/L	0.010	99	70	130	0.3	20	
Cobalt	0.261	mg/L	0.010	96	70	130	0	20	
Manganese	3.21	mg/L	0.010		70	130	2	20	A
Molybdenum	0.273	mg/L	0.10	109	70	130	0.2	20	
Nickel	0.295	mg/L	0.050	89	70	130	1.8	20	
Vanadium	0.255	mg/L	0.10	102	70	130	0.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 05/10/10
Work Order: C10040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2									Batch: R131845
Sample ID: MBLK-1	Method Blank				Run: TECHNICON_100421A				04/21/10 21:10
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.03						
Sample ID: LCS-2	Laboratory Control Sample				Run: TECHNICON_100421A				04/21/10 21:13
Nitrogen, Nitrate+Nitrite as N	2.50	mg/L	0.10	100	90	110			
Sample ID: C10040513-001BMS	Sample Matrix Spike				Run: TECHNICON_100421A				04/21/10 21:28
Nitrogen, Nitrate+Nitrite as N	2.42	mg/L	0.10	107	90	110			
Sample ID: C10040513-001BMSD	Sample Matrix Spike Duplicate				Run: TECHNICON_100421A				04/21/10 21:30
Nitrogen, Nitrate+Nitrite as N	2.38	mg/L	0.10	105	90	110	1.7	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 05/10/10
Work Order: C10040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R131572
Sample ID: 041310_LCS_3	Laboratory Control Sample				Run: SATURNCA_100413A				04/13/10 11:39
Bromodichloromethane	10.0	ug/L	1.0	100	70	130			
Bromoform	9.40	ug/L	1.0	94	70	130			
Chlorodibromomethane	9.64	ug/L	1.0	96	70	130			
Chloroform	10.1	ug/L	1.0	101	70	130			
Trihalomethanes, Total	39.2	ug/L	1.0	98	70	130			
Surr: 1,2-Dichlorobenzene-d4			1.0	100	80	120			
Surr: Dibromofluoromethane			1.0	96	80	120			
Surr: p-Bromofluorobenzene			1.0	107	80	120			
Surr: Toluene-d8			1.0	97	80	120			
Sample ID: 041310_MBLK_6	Method Blank				Run: SATURNCA_100413A				04/13/10 13:32
Bromodichloromethane	ND	ug/L	1.0						
Bromoform	ND	ug/L	1.0						
Chlorodibromomethane	ND	ug/L	1.0						
Chloroform	ND	ug/L	1.0						
Trihalomethanes, Total	ND	ug/L	1.0						
Surr: 1,2-Dichlorobenzene-d4			1.0	98	80	120			
Surr: Dibromofluoromethane			1.0	92	80	120			
Surr: p-Bromofluorobenzene			1.0	99	80	120			
Surr: Toluene-d8			1.0	92	80	120			
Sample ID: C10040363-001HMS	Sample Matrix Spike				Run: SATURNCA_100413A				04/13/10 19:12
Bromodichloromethane	96.0	ug/L	10	96	70	130			
Bromoform	100	ug/L	10	100	70	130			
Chlorodibromomethane	94.8	ug/L	10	95	70	130			
Chloroform	194	ug/L	10	100	70	130			
Trihalomethanes, Total	485	ug/L	10	98	70	130			
Surr: 1,2-Dichlorobenzene-d4			10	94	80	120			
Surr: Dibromofluoromethane			10	92	80	120			
Surr: p-Bromofluorobenzene			10	96	80	120			
Surr: Toluene-d8			10	92	80	120			
Sample ID: C10040363-001HMSD	Sample Matrix Spike Duplicate				Run: SATURNCA_100413A				04/13/10 19:51
Bromodichloromethane	94.4	ug/L	10	94	70	130	1.7	20	
Bromoform	93.6	ug/L	10	94	70	130	6.6	20	
Chlorodibromomethane	94.0	ug/L	10	94	70	130	0.8	20	
Chloroform	210	ug/L	10	116	70	130	7.9	20	
Trihalomethanes, Total	492	ug/L	10	100	70	130	1.5	20	
Surr: 1,2-Dichlorobenzene-d4			10	100	80	120			
Surr: Dibromofluoromethane			10	102	80	120			
Surr: p-Bromofluorobenzene			10	96	80	120			
Surr: Toluene-d8			10	88	80	120			

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 05/10/10
Work Order: C10040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.1									Batch: GA-0315
Sample ID: MB-GA-0315	Method Blank				Run: G542M_100422A				04/26/10 10:45
Gross Alpha minus Rn & U	0.07	pCi/L							U
Gross Alpha minus Rn & U Precision (±	0.3	pCi/L							
Gross Alpha minus Rn & U MDC	0.5	pCi/L							
Sample ID: LCS-GA-0315	Laboratory Control Sample				Run: G542M_100422A				04/26/10 10:45
Gross Alpha minus Rn & U	31.6	pCi/L		120	70	130			
Sample ID: C10040364-006GMS	Sample Matrix Spike				Run: G542M_100422A				04/26/10 10:45
Gross Alpha minus Rn & U	28.4	pCi/L		105	70	130			
Sample ID: C10040364-006GMSD	Sample Matrix Spike Duplicate				Run: G542M_100422A				04/26/10 10:45
Gross Alpha minus Rn & U	28.9	pCi/L		107	70	130	1.7	23.4	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 05/10/10
Work Order: C10040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: RA226-4469
Sample ID: C10040364-001GMS	Sample Matrix Spike				Run: G5000W_100413B				04/25/10 20:53
Radium 226	16	pCi/L		96	70	130			
Sample ID: C10040364-001GMSD	Sample Matrix Spike Duplicate				Run: G5000W_100413B				04/25/10 20:53
Radium 226	16	pCi/L		100	70	130	4	24.6	
Sample ID: MB-RA226-4469	Method Blank				Run: G5000W_100413B				04/25/10 20:53
Radium 226	-0.07	pCi/L							U
Radium 226 precision (±)	0.1	pCi/L							
Radium 226 MDC	0.2	pCi/L							
Sample ID: LCS-RA226-4469	Laboratory Control Sample				Run: G5000W_100413B				04/25/10 20:53
Radium 226	9.5	pCi/L		121	70	130			
Method: E903.0									Batch: RA226-4470
Sample ID: C10040385-001DMS	Sample Matrix Spike				Run: TENNELEC-3_100413D				04/25/10 23:08
Radium 226	16.8	pCi/L		93	70	130			
Sample ID: C10040385-001DMSD	Sample Matrix Spike Duplicate				Run: TENNELEC-3_100413D				04/25/10 23:08
Radium 226	16.4	pCi/L		91	70	130	2.3	24.2	
Sample ID: MB-RA226-4470	Method Blank				Run: TENNELEC-3_100413D				04/25/10 23:08
Radium 226	0.1	pCi/L							U
Radium 226 precision (±)	0.1	pCi/L							
Radium 226 MDC	0.1	pCi/L							
Sample ID: LCS-RA226-4470	Laboratory Control Sample				Run: TENNELEC-3_100413D				04/25/10 23:08
Radium 226	8.3	pCi/L		103	70	130			

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 05/10/10
Work Order: C10040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: RA-TH-ISO-1144
Sample ID: LCS-RA-TH-ISO-1144	Laboratory Control Sample				Run: EGG-ORTEC_100413B				04/16/10 08:50
Thorium 230	5.84	pCi/L		113	70	130			
Sample ID: C10040364-016GMS	Sample Matrix Spike				Run: EGG-ORTEC_100413B				04/17/10 11:12
Thorium 230	11.8	pCi/L		92	70	130			
Sample ID: C10040364-016GMSD	Sample Matrix Spike Duplicate				Run: EGG-ORTEC_100413B				04/17/10 11:12
Thorium 230	11.6	pCi/L		90	70	130	2.2	40	
Sample ID: MB-RA-TH-ISO-1144	Method Blank				Run: EGG-ORTEC_100413B				04/17/10 11:12
Thorium 230	0.03	pCi/L							U
Thorium 230 precision (±)	0.06	pCi/L							
Thorium 230 MDC	0.1	pCi/L							
Method: E907.0									Batch: RA-TH-ISO-1148
Sample ID: LCS-RA-TH-ISO-1148	Laboratory Control Sample				Run: EGG-ORTEC_100420A				04/22/10 09:11
Thorium 230	5.6	pCi/L		101	70	130			
Sample ID: C10040582-011DMS	Sample Matrix Spike				Run: EGG-ORTEC_100420A				04/22/10 15:28
Thorium 230	12	pCi/L		94	70	130			
Sample ID: C10040582-011DMSD	Sample Matrix Spike Duplicate				Run: EGG-ORTEC_100420A				04/22/10 15:28
Thorium 230	12	pCi/L		98	70	130	2.3	33.1	
Sample ID: MB-RA-TH-ISO-1148	Method Blank				Run: EGG-ORTEC_100420A				04/22/10 15:28
Thorium 230	-0.02	pCi/L							U
Thorium 230 precision (±)	0.03	pCi/L							
Thorium 230 MDC	0.10	pCi/L							

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 05/10/10
Work Order: C10040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M									Batch: PB-210-0689
Sample ID: C09100426-005BMS	Sample Matrix Spike				Run: BECKMAN 6100TA_100426A				04/28/10 09:20
Lead 210	200	pCi/L		82	70	130			
Sample ID: C09100426-005BMSD	Sample Matrix Spike Duplicate				Run: BECKMAN 6100TA_100426A				04/28/10 09:20
Lead 210	230	pCi/L		98	70	130	16	18.9	
Sample ID: MB-PB-210-0689	Method Blank				Run: BECKMAN 6100TA_100426A				04/28/10 09:20
Lead 210	3	pCi/L							U
Lead 210 precision (±)	4	pCi/L							
Lead 210 MDC	6	pCi/L							
Sample ID: LCS-PB-210-0689	Laboratory Control Sample				Run: BECKMAN 6100TA_100426A				04/28/10 09:20
Lead 210	96	pCi/L		84	70	130			

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Alluvium

Report Date: 05/10/10
Work Order: C10040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05									Batch: RA228-3152
Sample ID: LCS-228-RA226-4469	Laboratory Control Sample				Run: TENNELEC-3_100413B				04/20/10 10:05
Radium 228	8.3	pCi/L		98	70	130			
Sample ID: MB-RA226-4469	Method Blank				Run: TENNELEC-3_100413B				04/20/10 10:05
Radium 228	0.7	pCi/L							U
Radium 228 precision (±)	1	pCi/L							
Radium 228 MDC	2	pCi/L							
Sample ID: C10040364-010GMS	Sample Matrix Spike				Run: TENNELEC-3_100413B				04/20/10 10:05
Radium 228	14	pCi/L		88	70	130			
Sample ID: C10040364-010GMSD	Sample Matrix Spike Duplicate				Run: TENNELEC-3_100413B				04/20/10 10:05
Radium 228	13	pCi/L		84	70	130	4.2	40.6	
Method: RA-05									Batch: RA228-3153
Sample ID: LCS-228-RA226-4470	Laboratory Control Sample				Run: TENNELEC-3_100413C				04/20/10 12:11
Radium 228	8.4	pCi/L		110	70	130			
Sample ID: MB-RA226-4470	Method Blank				Run: TENNELEC-3_100413C				04/20/10 12:11
Radium 228	-0.1	pCi/L							U
Radium 228 precision (±)	0.8	pCi/L							
Radium 228 MDC	1	pCi/L							
Sample ID: C10040386-001DMS	Sample Matrix Spike				Run: TENNELEC-3_100413C				04/20/10 12:11
Radium 228	15	pCi/L		93	70	130			
Sample ID: C10040386-001DMSD	Sample Matrix Spike Duplicate				Run: TENNELEC-3_100413C				04/20/10 12:11
Radium 228	15	pCi/L		89	70	130	3.2	38.8	

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ANALYTICAL SUMMARY REPORT

May 10, 2010

United Nuclear Corporation
21 Miles NE Of Gallup
Gallup, NM 87305

Workorder No.: C10040365 Quote ID: C129 - Quarterly Long List

Project Name: Zone 1 (517- Zone 3)

Energy Laboratories, Inc. received the following 5 samples for United Nuclear Corporation on 4/12/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C10040365-001	517	04/06/10 14:05	04/12/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Chloride Arsenic Speciation Selenium-IV, Total Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Metals Preparation by EPA 200.2 Gross Alpha minus Rn222 and Uranium Lead 210, Total Radium 226, Total Radium 228, Total Thorium, Isotopic Solids, Total Dissolved Sulfate E624 Purgeable Organics
C10040365-002	604	04/07/10 09:05	04/12/10	Aqueous	Same As Above
C10040365-003	515-A	04/07/10 09:50	04/12/10	Aqueous	Same As Above
C10040365-004	614	04/07/10 10:50	04/12/10	Aqueous	Same As Above
C10040365-005	Field Blank	04/07/10 12:00	04/12/10	Aqueous	Same As Above

Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By: Stephanie D. Waldrop

Stephanie D. Waldrop
Reporting Supervisor

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CLIENT: United Nuclear Corporation
Project: Zone 1 (517- Zone 3)
Sample Delivery Group: C10040365

Report Date: 05/10/10

CASE NARRATIVE

PB210 ANALYSIS
The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

BRANCH LABORATORY SUBCONTRACT ANALYSIS
Tests Associated with Analyst identified as ELI-H were subcontracted to Energy Laboratories Helena Branch, EPA Number MT00945.

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1 (517- Zone 3)

Report Date: 05/10/10
Work Order: C10040365

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B									Batch: R131565
Sample ID: MBLK	Method Blank				Run: MANTECH_100413A				04/13/10 10:20
Alkalinity, Total as CaCO3	3	mg/L	1						
Bicarbonate as HCO3	4	mg/L	1						
Sample ID: LCS1	Laboratory Control Sample				Run: MANTECH_100413A				04/13/10 10:47
Alkalinity, Total as CaCO3	200	mg/L	5.0	98	90	110			
Sample ID: LCS	Laboratory Control Sample				Run: MANTECH_100413A				04/13/10 10:56
Alkalinity, Total as CaCO3	56.8	mg/L	5.0	107	90	110			
Sample ID: C10040318-003AMS	Sample Matrix Spike				Run: MANTECH_100413A				04/13/10 11:46
Alkalinity, Total as CaCO3	281	mg/L	5.0	104	80	120			
Sample ID: C10040318-003AMSD	Sample Matrix Spike Duplicate				Run: MANTECH_100413A				04/13/10 11:54
Alkalinity, Total as CaCO3	277	mg/L	5.0	101	80	120	1.3	20	
Method: A2320 B									Batch: R131711
Sample ID: MBLK	Method Blank				Run: MANTECH_100416A				04/16/10 11:38
Alkalinity, Total as CaCO3	5	mg/L	1						
Bicarbonate as HCO3	6	mg/L	1						
Sample ID: LCS1	Laboratory Control Sample				Run: MANTECH_100416A				04/16/10 11:56
Alkalinity, Total as CaCO3	199	mg/L	5.0	97	90	110			
Sample ID: LCS	Laboratory Control Sample				Run: MANTECH_100416A				04/16/10 12:06
Alkalinity, Total as CaCO3	56.1	mg/L	5.0	102	90	110			
Sample ID: C10040402-001AMS	Sample Matrix Spike				Run: MANTECH_100416A				04/16/10 12:45
Alkalinity, Total as CaCO3	273	mg/L	5.0	101	80	120			
Sample ID: C10040402-001AMSD	Sample Matrix Spike Duplicate				Run: MANTECH_100416A				04/16/10 12:53
Alkalinity, Total as CaCO3	275	mg/L	5.0	103	80	120	0.6	20	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1 (517- Zone 3)

Report Date: 05/10/10
Work Order: C10040365

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C							Batch: 100413_1_SLDS-TDS-W		
Sample ID: MBLK1_100413	Method Blank				Run: BAL-1_100413B			04/13/10 11:13	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	10						
Sample ID: LCS1_100413	Laboratory Control Sample				Run: BAL-1_100413B			04/13/10 11:13	
Solids, Total Dissolved TDS @ 180 C	981	mg/L	10	98	90	110			
Sample ID: C10040365-005AMS	Sample Matrix Spike				Run: BAL-1_100413B			04/13/10 11:22	
Solids, Total Dissolved TDS @ 180 C	2130	mg/L	10	106	90	110			
Sample ID: C10040365-005AMSD	Sample Matrix Spike Duplicate				Run: BAL-1_100413B			04/13/10 11:22	
Solids, Total Dissolved TDS @ 180 C	2090	mg/L	10	107	90	110	1.7	10	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1 (517- Zone 3)

Report Date: 05/10/10
Work Order: C10040365

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B								Batch: SE3114-100414B	
Sample ID: MBLK	Method Blank				Run: CVAA-C202_100414B			04/14/10 13:50	
Selenium-IV	0.0007	mg/L	0.0002						
Sample ID: As/Se 1.0ppm-Q 04081	Laboratory Control Sample				Run: CVAA-C202_100414B			04/14/10 13:52	
Selenium-IV	0.0501	mg/L	0.0010	99	90	110			
Sample ID: C10040365-005CMS	Sample Matrix Spike				Run: CVAA-C202_100414B			04/14/10 14:12	
Selenium-IV	0.0498	mg/L	0.0010	98	85	115			
Sample ID: C10040365-005CMSD	Sample Matrix Spike Duplicate				Run: CVAA-C202_100414B			04/14/10 14:15	
Selenium-IV	0.0504	mg/L	0.0010	99	85	115	1.2	10	

Qualifiers:
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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1 (517- Zone 3)

Report Date: 05/10/10
Work Order: C10040365

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-Cl B								Batch: 100413-CL-TTR-W	
Sample ID: MBLK9-100413	Method Blank				Run: TITRATION_100413B			04/13/10 11:40	
Chloride	ND	mg/L	0.4						
Sample ID: C10040364-010AMS	Sample Matrix Spike				Run: TITRATION_100413B			04/13/10 15:54	
Chloride	545	mg/L	1.0	98	90	110			
Sample ID: C10040364-010AMSD	Sample Matrix Spike Duplicate				Run: TITRATION_100413B			04/13/10 15:57	
Chloride	545	mg/L	1.0	98	90	110	0	10	
Sample ID: LCS35-100413	Laboratory Control Sample				Run: TITRATION_100413B			04/13/10 15:59	
Chloride	3510	mg/L	1.0	99	90	110			
Sample ID: C10040365-004AMS	Sample Matrix Spike				Run: TITRATION_100413B			04/13/10 16:43	
Chloride	615	mg/L	1.0	87	90	110			S
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									
Sample ID: C10040365-004AMSD	Sample Matrix Spike Duplicate				Run: TITRATION_100413B			04/13/10 16:44	
Chloride	601	mg/L	1.0	83	90	110	2.3	10	S
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									

Qualifiers:

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ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1 (517- Zone 3)

Report Date: 05/10/10
Work Order: C10040365

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B							Analytical Run: ORION555A-2_100412A		
Sample ID: ICV1_100412_1	Initial Calibration Verification Standard							04/12/10 14:20	
pH	6.79	s.u.	0.010	99	98	102			
Method: A4500-H B							Batch: 100412_1_PH-W_555A-2		
Sample ID: C10040365-005ADUP	Sample Duplicate				Run: ORION555A-2_100412A			04/12/10 16:11	
pH	6.92	s.u.	0.010				0.3	10	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1 (517- Zone 3)

Report Date: 05/10/10
Work Order: C10040365

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G									Batch: R131754
Sample ID: MBLK-1	Method Blank				Run: TECHNICON_100419A				04/19/10 15:44
Nitrogen, Ammonia as N	ND	mg/L	0.02						
Sample ID: LCS-2	Laboratory Control Sample				Run: TECHNICON_100419A				04/19/10 15:46
Nitrogen, Ammonia as N	20.4	mg/L	0.20	102	80	120			
Sample ID: C10040364-015DMS	Sample Matrix Spike				Run: TECHNICON_100419A				04/19/10 16:28
Nitrogen, Ammonia as N	2.16	mg/L	0.050	108	80	120			
Sample ID: C10040364-015DMSD	Sample Matrix Spike Duplicate				Run: TECHNICON_100419A				04/19/10 16:30
Nitrogen, Ammonia as N	2.20	mg/L	0.050	110	80	120	1.8	20	
Sample ID: C10040370-004DMS	Sample Matrix Spike				Run: TECHNICON_100419A				04/19/10 17:03
Nitrogen, Ammonia as N	2.42	mg/L	0.050	108	80	120			
Sample ID: C10040370-004DMSD	Sample Matrix Spike Duplicate				Run: TECHNICON_100419A				04/19/10 17:05
Nitrogen, Ammonia as N	2.43	mg/L	0.050	108	80	120	0.4	20	
Method: A4500-NH3 G									Batch: R131797
Sample ID: MBLK-1	Method Blank				Run: TECHNICON_100420A				04/20/10 14:50
Nitrogen, Ammonia as N	ND	mg/L	0.02						
Sample ID: LCS-2	Laboratory Control Sample				Run: TECHNICON_100420A				04/20/10 14:53
Nitrogen, Ammonia as N	20.8	mg/L	0.20	104	80	120			
Sample ID: C10040364-010DMS	Sample Matrix Spike				Run: TECHNICON_100420A				04/20/10 15:05
Nitrogen, Ammonia as N	2.12	mg/L	0.050	106	80	120			
Sample ID: C10040566-004DMS	Sample Matrix Spike				Run: TECHNICON_100420A				04/20/10 17:36
Nitrogen, Ammonia as N	2.29	mg/L	0.050	107	80	120			
Sample ID: C10040566-004DMSD	Sample Matrix Spike Duplicate				Run: TECHNICON_100420A				04/20/10 17:38
Nitrogen, Ammonia as N	2.26	mg/L	0.050	106	80	120	1.3	20	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1 (517- Zone 3)

Report Date: 05/10/10
Work Order: C10040365

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-SO4 E								Batch: 100430_1_SO4-TURB-W	
Sample ID: MBLK-1_100430	Method Blank				Run: TURB-2_100430A			04/30/10 12:37	
Sulfate	ND	mg/L	0.6						
Sample ID: LCS-1_100430	Laboratory Control Sample				Run: TURB-2_100430A			04/30/10 12:39	
Sulfate	5030	mg/L	59	105	90	110			
Sample ID: C10040365-002AMS	Sample Matrix Spike				Run: TURB-2_100430A			04/30/10 13:14	
Sulfate	9710	mg/L	150	101	90	110			
Sample ID: C10040365-002AMSD	Sample Matrix Spike Duplicate				Run: TURB-2_100430A			04/30/10 13:16	
Sulfate	9860	mg/L	150	104	90	110	1.5	10	
Method: A4500-SO4 E								Batch: 100503_1_SO4-TURB-W	
Sample ID: LCS-1_100503	Laboratory Control Sample				Run: TURB-2_100503A			05/03/10 10:16	
Sulfate	5070	mg/L	59	106	90	110			
Sample ID: MBLK-1_100503	Method Blank				Run: TURB-2_100503A			05/03/10 10:18	
Sulfate	ND	mg/L	0.6						
Sample ID: C10040567-002AMS	Sample Matrix Spike				Run: TURB-2_100503A			05/03/10 11:50	
Sulfate	5430	mg/L	59	108	90	110			
Sample ID: C10040567-002AMSD	Sample Matrix Spike Duplicate				Run: TURB-2_100503A			05/03/10 11:51	
Sulfate	5340	mg/L	59	104	90	110	1.7	10	

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QA/QC Summary Report

Client: United Nuclear Corporation
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Report Date: 05/10/10
Work Order: C10040365

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E1632AM								Analytical Run: SUB-H61735	
Sample ID: ICB_13r	Initial Calibration Blank, Instrument Blank							04/20/10 11:26	
Arsenic-III	ND	ug/L	5.0		0	0			
Method: E1632AM								Batch: H_R61735	
Sample ID: AS100420-LFB	Laboratory Fortified Blank				Run: SUB-H61735			04/20/10 11:32	
Arsenic-III	49.5	ug/L	5.0	99	55	146			
Sample ID: H10040159-003E MS	Sample Matrix Spike				Run: SUB-H61735			04/20/10 12:03	
Arsenic-III	50.5	ug/L	5.0	101	55	146			
Sample ID: H10040159-003E MSD	Sample Matrix Spike Duplicate				Run: SUB-H61735			04/20/10 12:08	
Arsenic-III	50.1	ug/L	5.0	100	55	146	0.8	20	

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QA/QC Summary Report

Client: United Nuclear Corporation
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Report Date: 05/10/10
Work Order: C10040365

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: R131673
Sample ID: MB-100415A	Method Blank				Run: ICP2-C_100415A				04/15/10 14:06
Calcium	ND	mg/L	0.2						
Magnesium	ND	mg/L	0.05						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.3						
Sample ID: LFB-100415A	Laboratory Fortified Blank				Run: ICP2-C_100415A				04/15/10 14:10
Calcium	48.3	mg/L	0.50	97	85	115			
Magnesium	47.7	mg/L	0.50	95	85	115			
Potassium	46.6	mg/L	0.50	93	85	115			
Sodium	48.9	mg/L	0.50	98	85	115			
Sample ID: C10040365-003BMS2	Sample Matrix Spike				Run: ICP2-C_100415A				04/15/10 18:44
Calcium	982	mg/L	2.3	101	70	130			
Magnesium	1350	mg/L	1.0	104	70	130			
Potassium	492	mg/L	1.0	93	70	130			
Sodium	980	mg/L	2.9	101	70	130			
Sample ID: C10040365-003BMSD2	Sample Matrix Spike Duplicate				Run: ICP2-C_100415A				04/15/10 18:48
Calcium	960	mg/L	2.3	97	70	130	2.3	20	
Magnesium	1310	mg/L	1.0	96	70	130	3.1	20	
Potassium	490	mg/L	1.0	93	70	130	0.4	20	
Sodium	964	mg/L	2.9	98	70	130	1.7	20	
Method: E200.7									Batch: R131755
Sample ID: MB-100419A	Method Blank				Run: ICP2-C_100419A				04/19/10 11:00
Calcium	ND	mg/L	0.2						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.3						
Sample ID: LFB-100419A	Laboratory Fortified Blank				Run: ICP2-C_100419A				04/19/10 11:04
Calcium	50.3	mg/L	0.50	101	85	115			
Potassium	46.4	mg/L	0.50	93	85	115			
Sodium	50.3	mg/L	0.50	101	85	115			
Sample ID: C10040467-006BMS2	Sample Matrix Spike				Run: ICP2-C_100419A				04/19/10 16:32
Calcium	128	mg/L	1.0	104	70	130			
Potassium	95.1	mg/L	1.0	91	70	130			
Sodium	129	mg/L	1.0	105	70	130			
Sample ID: C10040467-006BMSD2	Sample Matrix Spike Duplicate				Run: ICP2-C_100419A				04/19/10 16:36
Calcium	132	mg/L	1.0	108	70	130	2.7	20	
Potassium	93.2	mg/L	1.0	89	70	130	2	20	
Sodium	124	mg/L	1.0	100	70	130	3.9	20	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1 (517- Zone 3)

Report Date: 05/10/10
Work Order: C10040365

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: 25803
Sample ID: MB-25803	Method Blank				Run: ICPMS2-C_100413A				04/13/10 19:26
Aluminum	ND	mg/L	0.01						
Beryllium	ND	mg/L	2E-05						
Cadmium	ND	mg/L	4E-05						
Cobalt	ND	mg/L	0.0004						
Lead	ND	mg/L	5E-05						
Manganese	ND	mg/L	9E-05						
Molybdenum	0.0002	mg/L	0.0001						
Nickel	ND	mg/L	8E-05						
Uranium	ND	mg/L	4E-05						
Vanadium	0.003	mg/L	0.0005						
Sample ID: LCS3-25803	Laboratory Control Sample				Run: ICPMS2-C_100413A				04/13/10 19:33
Aluminum	2.44	mg/L	0.10	97	85	115			
Beryllium	0.268	mg/L	0.010	107	85	115			
Cadmium	0.253	mg/L	0.010	101	85	115			
Cobalt	0.490	mg/L	0.010	98	85	115			
Lead	0.520	mg/L	0.050	104	85	115			
Manganese	2.46	mg/L	0.010	99	85	115			
Molybdenum	0.552	mg/L	0.10	110	85	115			
Nickel	0.486	mg/L	0.050	97	85	115			
Uranium	0.543	mg/L	0.00030	109	85	115			
Vanadium	0.515	mg/L	0.10	102	85	115			
Sample ID: C10040365-005CMS4	Sample Matrix Spike				Run: ICPMS2-C_100413A				04/13/10 21:00
Aluminum	0.0508	mg/L	0.010	101	70	130			
Beryllium	0.0488	mg/L	0.010	98	70	130			
Cadmium	0.0504	mg/L	0.010	101	70	130			
Cobalt	0.0488	mg/L	0.010	98	70	130			
Lead	0.0514	mg/L	0.050	102	70	130			
Manganese	0.0490	mg/L	0.010	97	70	130			
Molybdenum	0.0522	mg/L	0.0010	104	70	130			
Nickel	0.0504	mg/L	0.0010	101	70	130			
Uranium	0.0514	mg/L	0.00030	103	70	130			
Vanadium	0.0505	mg/L	0.0010	99	70	130			
Sample ID: C10040365-005CMSD4	Sample Matrix Spike Duplicate				Run: ICPMS2-C_100413A				04/13/10 21:07
Aluminum	0.0587	mg/L	0.010	117	70	130	15	20	
Beryllium	0.0491	mg/L	0.010	98	70	130	0.7	20	
Cadmium	0.0503	mg/L	0.010	101	70	130	0.1	20	
Cobalt	0.0493	mg/L	0.010	99	70	130	1	20	
Lead	0.0510	mg/L	0.050	102	70	130	0.8	20	
Manganese	0.0495	mg/L	0.010	98	70	130	1.1	20	
Molybdenum	0.0520	mg/L	0.0010	104	70	130	0.3	20	
Nickel	0.0497	mg/L	0.0010	99	70	130	1.5	20	

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QA/QC Summary Report

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Project: Zone 1 (517- Zone 3)

Report Date: 05/10/10
Work Order: C10040365

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	**E200.8**									Batch: 25803
Sample ID:	**C10040365-005CMSD4**	Sample Matrix Spike Duplicate				Run: ICPMS2-C_100413A				04/13/10 21:07
Uranium		0.0511	mg/L	0.00030	102	70	130	0.6	20	
Vanadium		0.0507	mg/L	0.0010	99	70	130	0.2	20	
Method:	**E200.8**									Batch: 25803
Sample ID:	**MB-25803**	Method Blank				Run: ICPMS2-C_100416A				04/16/10 18:42
Aluminum		ND	mg/L	0.01						
Sample ID:	**LCS3-25803**	Laboratory Control Sample				Run: ICPMS2-C_100416A				04/16/10 19:16
Aluminum		2.57	mg/L	0.10	103	85	115			
Sample ID:	**C10040365-005CMS4**	Sample Matrix Spike				Run: ICPMS2-C_100416A				04/16/10 19:36
Aluminum		0.0672	mg/L	0.010	103	70	130			
Sample ID:	**C10040365-005CMSD4**	Sample Matrix Spike Duplicate				Run: ICPMS2-C_100416A				04/16/10 19:43
Aluminum		0.0678	mg/L	0.010	104	70	130	0.8	20	
Method:	**E200.8**									Batch: 25803
Sample ID:	**MB-25803**	Method Blank				Run: ICPMS4-C_100415A				04/15/10 19:05
Beryllium		ND	mg/L	3E-05						
Cobalt		ND	mg/L	4E-05						
Manganese		9E-05	mg/L	2E-05						
Vanadium		0.004	mg/L	4E-05						
Sample ID:	**LCS3-25803**	Laboratory Control Sample				Run: ICPMS4-C_100415A				04/15/10 19:11
Beryllium		0.256	mg/L	0.010	102	85	115			
Cobalt		0.507	mg/L	0.010	101	85	115			
Manganese		2.56	mg/L	0.010	102	85	115			
Vanadium		0.493	mg/L	0.10	98	85	115			
Sample ID:	**C10040365-005CMS4**	Sample Matrix Spike				Run: ICPMS4-C_100415A				04/15/10 19:38
Beryllium		0.0459	mg/L	0.010	92	70	130			
Cobalt		0.0535	mg/L	0.010	107	70	130			
Manganese		0.0543	mg/L	0.010	104	70	130			
Vanadium		0.0530	mg/L	0.0010	98	70	130			
Sample ID:	**C10040365-005CMSD4**	Sample Matrix Spike Duplicate				Run: ICPMS4-C_100415A				04/15/10 19:45
Beryllium		0.0469	mg/L	0.010	94	70	130	2.2	20	
Cobalt		0.0539	mg/L	0.010	108	70	130	0.7	20	
Manganese		0.0553	mg/L	0.010	106	70	130	1.9	20	
Vanadium		0.0537	mg/L	0.0010	99	70	130	1.2	20	

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QA/QC Summary Report

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Report Date: 05/10/10
Work Order: C10040365

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2									Batch: R131845
Sample ID: MBLK-1	Method Blank				Run: TECHNICON_100421A				04/21/10 21:10
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.03						
Sample ID: LCS-2	Laboratory Control Sample				Run: TECHNICON_100421A				04/21/10 21:13
Nitrogen, Nitrate+Nitrite as N	2.50	mg/L	0.10	100	90	110			
Sample ID: C10040365-001DMS	Sample Matrix Spike				Run: TECHNICON_100421A				04/21/10 23:01
Nitrogen, Nitrate+Nitrite as N	2.23	mg/L	0.10	99	90	110			
Sample ID: C10040365-001DMSD	Sample Matrix Spike Duplicate				Run: TECHNICON_100421A				04/21/10 23:03
Nitrogen, Nitrate+Nitrite as N	2.22	mg/L	0.10	99	90	110	0.4	10	
Method: E353.2									Batch: R131930
Sample ID: MBLK-1	Method Blank				Run: TECHNICON_100423A				04/23/10 16:40
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.03						
Sample ID: LCS-2	Laboratory Control Sample				Run: TECHNICON_100423A				04/23/10 16:43
Nitrogen, Nitrate+Nitrite as N	2.44	mg/L	0.10	98	90	110			
Sample ID: C10040467-004DMS	Sample Matrix Spike				Run: TECHNICON_100423A				04/23/10 16:58
Nitrogen, Nitrate+Nitrite as N	3.16	mg/L	0.10	101	90	110			
Sample ID: C10040467-004DMSD	Sample Matrix Spike Duplicate				Run: TECHNICON_100423A				04/23/10 17:00
Nitrogen, Nitrate+Nitrite as N	3.18	mg/L	0.10	102	90	110	0.6	10	

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QA/QC Summary Report

Client: United Nuclear Corporation
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Report Date: 05/10/10
Work Order: C10040365

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R131609
Sample ID: 041410_LCS_3	Laboratory Control Sample				Run: SATURNCA_100414C				04/14/10 12:20
Bromodichloromethane	9.12	ug/L	1.0	91	70	130			
Bromoform	8.56	ug/L	1.0	86	70	130			
Chlorodibromomethane	8.72	ug/L	1.0	87	70	130			
Chloroform	10.1	ug/L	1.0	101	70	130			
Trihalomethanes, Total	36.5	ug/L	1.0	91	70	130			
Surr: 1,2-Dichlorobenzene-d4			1.0	90	80	120			
Surr: Dibromofluoromethane			1.0	103	80	120			
Surr: p-Bromofluorobenzene			1.0	98	80	120			
Surr: Toluene-d8			1.0	93	80	120			
Sample ID: 041410_MBLK_8	Method Blank				Run: SATURNCA_100414C				04/14/10 15:33
Bromodichloromethane	ND	ug/L	1.0						
Bromoform	ND	ug/L	1.0						
Chlorodibromomethane	ND	ug/L	1.0						
Chloroform	ND	ug/L	1.0						
Trihalomethanes, Total	ND	ug/L	1.0						
Surr: 1,2-Dichlorobenzene-d4			1.0	96	80	120			
Surr: Dibromofluoromethane			1.0	94	80	120			
Surr: p-Bromofluorobenzene			1.0	96	80	120			
Surr: Toluene-d8			1.0	96	80	120			
Sample ID: C10040365-004HMS	Sample Matrix Spike				Run: SATURNCA_100414C				04/14/10 20:31
Bromodichloromethane	98.0	ug/L	10	98	70	130			
Bromoform	96.8	ug/L	10	97	70	130			
Chlorodibromomethane	98.8	ug/L	10	99	70	130			
Chloroform	285	ug/L	10	102	70	130			
Trihalomethanes, Total	579	ug/L	10	99	70	130			
Surr: 1,2-Dichlorobenzene-d4			10	97	80	120			
Surr: Dibromofluoromethane			10	92	80	120			
Surr: p-Bromofluorobenzene			10	94	80	120			
Surr: Toluene-d8			10	90	80	120			
Sample ID: C10040365-004HMSD	Sample Matrix Spike Duplicate				Run: SATURNCA_100414C				04/14/10 21:09
Bromodichloromethane	103	ug/L	10	103	70	130	5.2	20	
Bromoform	106	ug/L	10	106	70	130	9.4	20	
Chlorodibromomethane	98.0	ug/L	10	98	70	130	0.8	20	
Chloroform	297	ug/L	10	113	70	130	4	20	
Trihalomethanes, Total	604	ug/L	10	105	70	130	4.3	20	
Surr: 1,2-Dichlorobenzene-d4			10	106	80	120			
Surr: Dibromofluoromethane			10	97	80	120			
Surr: p-Bromofluorobenzene			10	96	80	120			
Surr: Toluene-d8			10	94	80	120			

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1 (517- Zone 3)

Report Date: 05/10/10
Work Order: C10040365

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R131676
Sample ID: 041510_LCS_3	Laboratory Control Sample				Run: SATURNCA_100415B				04/15/10 11:34
Bromodichloromethane	9.76	ug/L	1.0	98	70	130			
Bromoform	8.92	ug/L	1.0	89	70	130			
Chlorodibromomethane	9.52	ug/L	1.0	95	70	130			
Chloroform	9.84	ug/L	1.0	98	70	130			
Trihalomethanes, Total	38.0	ug/L	1.0	95	70	130			
Surr: 1,2-Dichlorobenzene-d4			1.0	89	80	120			
Surr: Dibromofluoromethane			1.0	92	80	120			
Surr: p-Bromofluorobenzene			1.0	95	80	120			
Surr: Toluene-d8			1.0	96	80	120			
Sample ID: 041510_MBLK_6	Method Blank				Run: SATURNCA_100415B				04/15/10 13:28
Bromodichloromethane	ND	ug/L	1.0						
Bromoform	ND	ug/L	1.0						
Chlorodibromomethane	ND	ug/L	1.0						
Chloroform	ND	ug/L	1.0						
Trihalomethanes, Total	ND	ug/L	1.0						
Surr: 1,2-Dichlorobenzene-d4			1.0	95	80	120			
Surr: Dibromofluoromethane			1.0	87	80	120			
Surr: p-Bromofluorobenzene			1.0	96	80	120			
Surr: Toluene-d8			1.0	98	80	120			
Sample ID: C10040365-003HMS	Sample Matrix Spike				Run: SATURNCA_100415B				04/15/10 19:08
Bromodichloromethane	208	ug/L	20	104	70	130			
Bromoform	208	ug/L	20	104	70	130			
Chlorodibromomethane	201	ug/L	20	100	70	130			
Chloroform	387	ug/L	20	110	70	130			
Trihalomethanes, Total	1000	ug/L	20	104	70	130			
Surr: 1,2-Dichlorobenzene-d4			20	102	80	120			
Surr: Dibromofluoromethane			20	93	80	120			
Surr: p-Bromofluorobenzene			20	103	80	120			
Surr: Toluene-d8			20	93	80	120			
Sample ID: C10040365-003HMSD	Sample Matrix Spike Duplicate				Run: SATURNCA_100415B				04/15/10 19:46
Bromodichloromethane	205	ug/L	20	102	70	130	1.6	20	
Bromoform	204	ug/L	20	102	70	130	1.9	20	
Chlorodibromomethane	194	ug/L	20	97	70	130	3.7	20	
Chloroform	402	ug/L	20	117	70	130	3.9	20	
Trihalomethanes, Total	1000	ug/L	20	105	70	130	0.1	20	
Surr: 1,2-Dichlorobenzene-d4			20	98	80	120			
Surr: Dibromofluoromethane			20	96	80	120			
Surr: p-Bromofluorobenzene			20	94	80	120			
Surr: Toluene-d8			20	91	80	120			

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1 (517- Zone 3)

Report Date: 05/10/10
Work Order: C10040365

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.1									Batch: GA-0318
Sample ID: MB-GA-0318	Method Blank				Run: G542M_100430A				05/03/10 14:42
Gross Alpha minus Rn & U	-0.09	pCi/L							U
Gross Alpha minus Rn & U Precision (±	0.3	pCi/L							
Gross Alpha minus Rn & U MDC	0.6	pCi/L							
Sample ID: LCS-GA-0318	Laboratory Control Sample				Run: G542M_100430A				05/03/10 14:42
Gross Alpha minus Rn & U	26.2	pCi/L		100	70	130			
Sample ID: C10040828-001CMS	Sample Matrix Spike				Run: G542M_100430A				05/03/10 14:42
Gross Alpha minus Rn & U	29.4	pCi/L		103	70	130			
Sample ID: C10040828-001CMSD	Sample Matrix Spike Duplicate				Run: G542M_100430A				05/03/10 14:42
Gross Alpha minus Rn & U	27.2	pCi/L		95	70	130	7.9	24.1	
Method: E900.1									Batch: GA-0313
Sample ID: MB-GA-0313	Method Blank				Run: TENNELEC-3_100414A				04/16/10 17:11
Gross Alpha minus Rn & U	0.2	pCi/L							U
Gross Alpha minus Rn & U Precision (±	0.4	pCi/L							
Gross Alpha minus Rn & U MDC	0.6	pCi/L							
Sample ID: LCS-GA-0313	Laboratory Control Sample				Run: TENNELEC-3_100414A				04/16/10 17:11
Gross Alpha minus Rn & U	29.4	pCi/L		111	70	130			
Sample ID: C10040365-005GMS	Sample Matrix Spike				Run: TENNELEC-3_100414A				04/16/10 17:11
Gross Alpha minus Rn & U	26.6	pCi/L		100	70	130			
Sample ID: C10040365-005GMSD	Sample Matrix Spike Duplicate				Run: TENNELEC-3_100414A				04/16/10 17:11
Gross Alpha minus Rn & U	28.2	pCi/L		107	70	130	5.8	25.1	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1 (517- Zone 3)

Report Date: 05/10/10
Work Order: C10040365

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: RA226-4471
Sample ID: C10040388-001CMS	Sample Matrix Spike				Run: G5000W_100414B				04/25/10 22:49
Radium 226	15.5	pCi/L		96	70	130			
Sample ID: C10040388-001CMSD	Sample Matrix Spike Duplicate				Run: G5000W_100414B				04/25/10 22:49
Radium 226	14.6	pCi/L		90	70	130	6.4	24.3	
Sample ID: MB-RA226-4471	Method Blank				Run: G5000W_100414B				04/25/10 22:49
Radium 226	0.01	pCi/L							U
Radium 226 precision (±)	0.10	pCi/L							
Radium 226 MDC	0.2	pCi/L							
Sample ID: LCS-RA226-4471	Laboratory Control Sample				Run: G5000W_100414B				04/25/10 22:49
Radium 226	8.5	pCi/L		107	70	130			

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1 (517- Zone 3)

Report Date: 05/10/10
Work Order: C10040365

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0								Batch: RA-TH-ISO-1143	
Sample ID: LCS-RA-TH-ISO-1143	Laboratory Control Sample				Run: EGG-ORTEC_100413A			04/16/10 08:43	
Thorium 230	4.8	pCi/L		93	70	130			
Sample ID: C10040001-001DMS	Sample Matrix Spike				Run: EGG-ORTEC_100413A			04/16/10 08:43	
Thorium 230	11	pCi/L		83	70	130			
Sample ID: C10040001-001DMSD	Sample Matrix Spike Duplicate				Run: EGG-ORTEC_100413A			04/16/10 08:43	
Thorium 230	13	pCi/L		105	70	130	23	42.2	
Sample ID: MB-RA-TH-ISO-1143	Method Blank				Run: EGG-ORTEC_100413A			04/16/10 08:43	
Thorium 230	0.02	pCi/L							U
Thorium 230 precision (±)	0.04	pCi/L							
Thorium 230 MDC	0.07	pCi/L							

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1 (517- Zone 3)

Report Date: 05/10/10
Work Order: C10040365

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M									Batch: PB-210-0688
Sample ID: C09100474-001EMS	Sample Matrix Spike				Run: BECKMAN 6100TA_100421B				04/27/10 01:21
Lead 210	170	pCi/L		77	70	130			
Sample ID: C09100474-001EMSD	Sample Matrix Spike Duplicate				Run: BECKMAN 6100TA_100421B				04/27/10 03:23
Lead 210	220	pCi/L		97	70	130	23	20.2	R
- The RPD for the MSD is high. The individual spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.									
Sample ID: MB-PB-210-0688	Method Blank				Run: BECKMAN 6100TA_100421B				04/27/10 05:24
Lead 210	-3	pCi/L							U
Lead 210 precision (±)	4	pCi/L							
Lead 210 MDC	7	pCi/L							
Sample ID: LCS-PB-210-0688	Laboratory Control Sample				Run: BECKMAN 6100TA_100421B				04/27/10 09:27
Lead 210	120	pCi/L		113	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
ND - Not detected at the reporting limit.
R - RPD exceeds advisory limit.

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1 (517- Zone 3)

Report Date: 05/10/10
Work Order: C10040365

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05									Batch: RA228-3154
Sample ID: LCS-228-RA226-4471	Laboratory Control Sample				Run: TENNELEC-3_100414B				04/20/10 14:20
Radium 228	9.0	pCi/L		110	70	130			
Sample ID: MB-RA226-4471	Method Blank				Run: TENNELEC-3_100414B				04/20/10 14:20
Radium 228	0.3	pCi/L							U
Radium 228 precision (±)	0.7	pCi/L							
Radium 228 MDC	1	pCi/L							
Sample ID: C10040388-002CMS	Sample Matrix Spike				Run: TENNELEC-3_100414B				04/20/10 14:20
Radium 228	15	pCi/L		100	70	130			
Sample ID: C10040388-002CMSD	Sample Matrix Spike Duplicate				Run: TENNELEC-3_100414B				04/20/10 14:20
Radium 228	13	pCi/L		87	70	130	14	35.3	

Qualifiers:

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ANALYTICAL SUMMARY REPORT

May 13, 2010

United Nuclear Corporation
21 Miles NE Of Gallup
Gallup, NM 87305

Workorder No.: C10040568 Quote ID: C129 - Quarterly Long List

Project Name: Zone 1

Energy Laboratories, Inc. received the following 6 samples for United Nuclear Corporation on 4/16/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C10040568-001	EPA-4	04/12/10 9:16	04/16/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Chloride Arsenic Speciation Selenium-IV, Total Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Metals Preparation by EPA 200.2 Gross Alpha minus Rn222 and Uranium Lead 210, Total Radium 226, Total Radium 228, Total Thorium, Isotopic Solids, Total Dissolved Sulfate E624 Purgeable Organics
C10040568-002	EPA-5	04/12/10 10:07	04/16/10	Aqueous	Same As Above
C10040568-003	EPA-7	04/12/10 10:45	04/16/10	Aqueous	Same As Above
C10040568-004	EPA-2	04/12/10 11:25	04/16/10	Aqueous	Same As Above
C10040568-005	EPA-2 Duplicate	04/12/10 11:55	04/16/10	Aqueous	Same As Above
C10040568-006	TWQ-142	04/13/10 13:00	04/16/10	Aqueous	Same As Above

Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By: Stephanie D. Waldrop
Stephanie D. Waldrop
Reporting Supervisor

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CLIENT: United Nuclear Corporation
Project: Zone 1
Sample Delivery Group: C10040568

Report Date: 05/13/10

CASE NARRATIVE

PB210 ANALYSIS
The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

BRANCH LABORATORY SUBCONTRACT ANALYSIS
Tests Associated with Analyst identified as ELI-H were subcontracted to Energy Laboratories Helena Branch, EPA Number MT00945.

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 05/13/10
Work Order: C10040568

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R131947
Sample ID: MBLK	2	Method Blank				Run: MANTECH_100424A				04/24/10 14:28
Alkalinity, Total as CaCO3		2	mg/L	1						
Bicarbonate as HCO3		2	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_100424A				04/24/10 14:48
Alkalinity, Total as CaCO3		213	mg/L	5.0	105	90	110			
Sample ID: LCS		Laboratory Control Sample				Run: MANTECH_100424A				04/24/10 14:57
Alkalinity, Total as CaCO3		54.7	mg/L	5.0	106	90	110			
Sample ID: C10040568-004AMS		Sample Matrix Spike				Run: MANTECH_100424A				04/24/10 17:38
Alkalinity, Total as CaCO3		427	mg/L	5.0	113	80	120			
Sample ID: C10040568-004AMSD		Sample Matrix Spike Duplicate				Run: MANTECH_100424A				04/24/10 17:46
Alkalinity, Total as CaCO3		422	mg/L	5.0	109	80	120	1.2	20	

Qualifiers:
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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 05/13/10
Work Order: C10040568

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 100416_1_SLDS-TDS-W		
Sample ID: MBLK1_100416		Method Blank				Run: BAL-1_100416B			04/16/10 15:26	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_100416		Laboratory Control Sample				Run: BAL-1_100416B			04/16/10 15:26	
Solids, Total Dissolved TDS @ 180 C		1000	mg/L	10	100	90	110			
Sample ID: C10040567-007AMS		Sample Matrix Spike				Run: BAL-1_100416B			04/16/10 15:37	
Solids, Total Dissolved TDS @ 180 C		5540	mg/L	10	106	90	110			
Sample ID: C10040567-007AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_100416B			04/16/10 15:37	
Solids, Total Dissolved TDS @ 180 C		5540	mg/L	10	106	90	110	0.1	10	
Sample ID: C10040569-002AMS		Sample Matrix Spike				Run: BAL-1_100416B			04/16/10 15:39	
Solids, Total Dissolved TDS @ 180 C		2800	mg/L	10	101	90	110			
Sample ID: C10040569-002AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_100416B			04/16/10 15:39	
Solids, Total Dissolved TDS @ 180 C		2660	mg/L	10	94	90	110	5.2	10	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 05/13/10
Work Order: C10040568

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Batch: SE3114-100419A	
Sample ID: MBLK		Method Blank				Run: CVAA-C202_100419A			04/19/10 10:17	
Selenium-IV		0.0004	mg/L	0.0002						
Sample ID: As/Se 1.0ppm-Q 0415		Laboratory Control Sample				Run: CVAA-C202_100419A			04/19/10 10:19	
Selenium-IV		0.0461	mg/L	0.0010	91	90	110			
Sample ID: C10040568-001CMS		Sample Matrix Spike				Run: CVAA-C202_100419A			04/19/10 11:01	
Selenium-IV		0.0436	mg/L	0.0010	87	85	115			
Sample ID: C10040568-001CMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_100419A			04/19/10 11:03	
Selenium-IV		0.0441	mg/L	0.0010	88	85	115	1.2	10	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 05/13/10
Work Order: C10040568

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-Cl B									Batch: 100421-CL-TTR-W	
Sample ID: MBLK9-100421		Method Blank				Run: TITRATION_100421A			04/21/10 12:44	
Chloride		ND	mg/L	0.4						
Sample ID: C10040567-007AMS		Sample Matrix Spike				Run: TITRATION_100421A			04/21/10 16:43	
Chloride		119	mg/L	1.0	103	90	110			
Sample ID: C10040567-007AMSD		Sample Matrix Spike Duplicate				Run: TITRATION_100421A			04/21/10 16:45	
Chloride		119	mg/L	1.0	103	90	110	0	10	
Sample ID: LCS35-100421		Laboratory Control Sample				Run: TITRATION_100421A			04/21/10 16:51	
Chloride		3580	mg/L	1.0	101	90	110			
Method: A4500-Cl B									Batch: 100503A-CL-TTR-W	
Sample ID: MBLK9-100503A		Method Blank				Run: TITRATION_100503A			05/03/10 12:07	
Chloride		ND	mg/L	0.4						
Sample ID: C10040568-003AMS		Sample Matrix Spike				Run: TITRATION_100503A			05/03/10 13:37	
Chloride		391	mg/L	1.0	100	90	110			
Sample ID: C10040568-003AMSD		Sample Matrix Spike Duplicate				Run: TITRATION_100503A			05/03/10 13:40	
Chloride		391	mg/L	1.0	100	90	110	0	10	
Sample ID: LCS35-100503A		Laboratory Control Sample				Run: TITRATION_100503A			05/03/10 14:26	
Chloride		3470	mg/L	1.0	98	90	110			

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 05/13/10
Work Order: C10040568

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_100416B		
Sample ID: ICV1_100416_2		Initial Calibration Verification Standard							04/16/10 14:09	
pH		6.84	s.u.	0.010	100	98	102			
Method: A4500-H B								Batch: 100416_2_PH-W_555A-2		
Sample ID: C10040568-004ADUP		Sample Duplicate				Run: ORION555A-2_100416B			04/16/10 15:08	
pH		7.08	s.u.	0.010				1.9	10	

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QA/QC Summary Report

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Report Date: 05/13/10
Work Order: C10040568

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R132058
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100427A				04/27/10 14:31
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100427A				04/27/10 14:33
Nitrogen, Ammonia as N		20.9	mg/L	0.20	104	80	120			
Sample ID: C10040568-004DMS		Sample Matrix Spike				Run: TECHNICON_100427A				04/27/10 15:15
Nitrogen, Ammonia as N		2.75	mg/L	0.050	117	80	120			
Sample ID: C10040568-004DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100427A				04/27/10 15:17
Nitrogen, Ammonia as N		2.66	mg/L	0.050	112	80	120	3.3	20	

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Report Date: 05/13/10
Work Order: C10040568

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-SO4 E								Batch: 100503_1_SO4-TURB-W		
Sample ID: LCS-1_100503		Laboratory Control Sample				Run: TURB-2_100503A			05/03/10 10:16	
Sulfate		5070	mg/L	59	106	90	110			
Sample ID: MBLK-1_100503		Method Blank				Run: TURB-2_100503A			05/03/10 10:18	
Sulfate		ND	mg/L	0.6						
Sample ID: C10040568-002AMS		Sample Matrix Spike				Run: TURB-2_100503A			05/03/10 12:38	
Sulfate		5380	mg/L	59	100	90	110			
Sample ID: C10040568-002AMSD		Sample Matrix Spike Duplicate				Run: TURB-2_100503A			05/03/10 12:40	
Sulfate		5260	mg/L	59	93	90	110	2.4	10	

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QA/QC Summary Report

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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E1632AM									Batch: H_R61788	
Sample ID: AS100422-LFB		Laboratory Fortified Blank				Run: SUB-H61788			04/22/10 10:42	
Arsenic-III		57.0	ug/L	5.0	**114**	55	146			
Sample ID: C10040568-001E		Sample Duplicate				Run: SUB-H61788			04/22/10 11:40	
Arsenic-III		ND	ug/L	5.0					20	
Sample ID: C10040568-006E		Sample Matrix Spike				Run: SUB-H61788			04/22/10 12:27	
Arsenic-III		57.3	ug/L	5.0	**115**	55	146			
Sample ID: C10040568-006E		Sample Matrix Spike Duplicate				Run: SUB-H61788			04/22/10 12:32	
Arsenic-III		61.0	ug/L	5.0	**122**	55	146	**6.3**	20	

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QA/QC Summary Report

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Report Date: 05/13/10
Work Order: C10040568

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R132079
Sample ID: MB-100427A	4	Method Blank				Run: ICP2-C_100427A				04/27/10 12:26
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-100427A	4	Laboratory Fortified Blank				Run: ICP2-C_100427A				04/27/10 12:37
Calcium		49.7	mg/L	0.50	99	85	115			
Magnesium		51.1	mg/L	0.50	102	85	115			
Potassium		46.9	mg/L	0.50	94	85	115			
Sodium		48.4	mg/L	0.50	97	85	115			
Sample ID: C10040568-002BMS2	4	Sample Matrix Spike				Run: ICP2-C_100427A				04/27/10 14:44
Calcium		684	mg/L	1.1	85	70	130			
Magnesium		705	mg/L	1.0	82	70	130			
Potassium		217	mg/L	1.0	82	70	130			
Sodium		332	mg/L	1.4	84	70	130			
Sample ID: C10040568-002BMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_100427A				04/27/10 14:48
Calcium		723	mg/L	1.1	100	70	130	5.5	20	
Magnesium		740	mg/L	1.0	96	70	130	4.8	20	
Potassium		246	mg/L	1.0	93	70	130	12	20	
Sodium		369	mg/L	1.4	98	70	130	11	20	

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QA/QC Summary Report

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Work Order: C10040568

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 25905
Sample ID: MB-25905		Method Blank				Run: ICPMS2-C_100426A				04/27/10 01:25
Nickel		0.0004	mg/L	8E-05						
Sample ID: LCS3-25905		Laboratory Control Sample				Run: ICPMS2-C_100426A				04/27/10 01:32
Nickel		0.448	mg/L	0.050	90	85	115			
Sample ID: C10040660-001CMS3		Sample Matrix Spike				Run: ICPMS2-C_100426A				04/27/10 02:46
Nickel		0.535	mg/L	0.050	100	70	130			
Sample ID: C10040660-001CMSD		Sample Matrix Spike Duplicate				Run: ICPMS2-C_100426A				04/27/10 02:53
Nickel		0.545	mg/L	0.050	102	70	130	1.9	20	

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QA/QC Summary Report

Client: United Nuclear Corporation
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Report Date: 05/13/10
Work Order: C10040568

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: R131889	
Sample ID: LRB	10	Method Blank				Run: ICPMS4-C_100422A			04/22/10 12:24	
Aluminum		ND	mg/L	8E-05						
Beryllium		ND	mg/L	3E-05						
Cadmium		ND	mg/L	7E-05						
Cobalt		ND	mg/L	1E-05						
Lead		ND	mg/L	2E-05						
Manganese		0.0003	mg/L	2E-05						
Molybdenum		0.0003	mg/L	8E-05						
Nickel		0.0001	mg/L	5E-05						
Uranium		ND	mg/L	8E-06						
Vanadium		ND	mg/L	1E-05						
Sample ID: LFB	10	Laboratory Fortified Blank				Run: ICPMS4-C_100422A			04/22/10 12:31	
Aluminum		0.0545	mg/L	0.0010	109	85	115			
Beryllium		0.0531	mg/L	0.010	106	85	115			
Cadmium		0.0535	mg/L	0.0010	107	85	115			
Cobalt		0.0547	mg/L	0.0010	109	85	115			
Lead		0.0527	mg/L	0.0010	105	85	115			
Manganese		0.0555	mg/L	0.0010	110	85	115			
Molybdenum		0.0518	mg/L	0.0010	103	85	115			
Nickel		0.0547	mg/L	0.0010	109	85	115			
Uranium		0.0516	mg/L	0.00030	103	85	115			
Vanadium		0.0538	mg/L	0.0010	108	85	115			
Sample ID: C10040568-003CMS4	10	Sample Matrix Spike				Run: ICPMS4-C_100422A			04/22/10 12:58	
Aluminum		0.550	mg/L	0.10	85	70	130			
Beryllium		0.199	mg/L	0.010	79	70	130			
Cadmium		0.255	mg/L	0.010	102	70	130			
Cobalt		0.282	mg/L	0.010	101	70	130			
Lead		0.267	mg/L	0.050	106	70	130			
Manganese		2.74	mg/L	0.010		70	130			A
Molybdenum		0.270	mg/L	0.10	107	70	130			
Nickel		0.289	mg/L	0.050	102	70	130			
Uranium		0.272	mg/L	0.00030	108	70	130			
Vanadium		0.260	mg/L	0.10	104	70	130			
Sample ID: C10040568-003CMSD	10	Sample Matrix Spike Duplicate				Run: ICPMS4-C_100422A			04/22/10 13:05	
Aluminum		0.544	mg/L	0.10	82	70	130	1.2	20	
Beryllium		0.196	mg/L	0.010	78	70	130	1.3	20	
Cadmium		0.256	mg/L	0.010	102	70	130	0.2	20	
Cobalt		0.284	mg/L	0.010	102	70	130	0.5	20	
Lead		0.266	mg/L	0.050	106	70	130	0.5	20	
Manganese		2.76	mg/L	0.010		70	130	0.6	20	A
Molybdenum		0.272	mg/L	0.10	108	70	130	0.8	20	
Nickel		0.285	mg/L	0.050	100	70	130	1.7	20	

Qualifiers:

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ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 05/13/10
Work Order: C10040568

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R131889
Sample ID: C10040568-003CMSD	10	Sample Matrix Spike Duplicate				Run: ICPMS4-C_100422A			04/22/10 13:05	
Uranium		0.274	mg/L	0.00030	109	70	130	0.8	20	
Vanadium		0.257	mg/L	0.10	103	70	130	1.3	20	

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QA/QC Summary Report

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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 25905
Sample ID: MB-25905	9	Method Blank				Run: ICPMS4-C_100423A				04/24/10 12:08
Aluminum		ND	mg/L	0.0008						
Beryllium		ND	mg/L	3E-05						
Cadmium		ND	mg/L	4E-05						
Cobalt		ND	mg/L	4E-05						
Lead		6E-05	mg/L	5E-05						
Manganese		0.0006	mg/L	2E-05						
Molybdenum		0.0002	mg/L	0.00010						
Uranium		ND	mg/L	4E-05						
Vanadium		0.002	mg/L	4E-05						
Sample ID: LCS3-25905	9	Laboratory Control Sample				Run: ICPMS4-C_100423A				04/24/10 12:15
Aluminum		2.20	mg/L	0.10	88	85	115			
Beryllium		0.233	mg/L	0.010	93	85	115			
Cadmium		0.250	mg/L	0.010	100	85	115			
Cobalt		0.439	mg/L	0.010	88	85	115			
Lead		0.487	mg/L	0.050	97	85	115			
Manganese		2.28	mg/L	0.010	91	85	115			
Molybdenum		0.538	mg/L	0.10	108	85	115			
Uranium		0.524	mg/L	0.00030	105	85	115			
Vanadium		0.450	mg/L	0.10	90	85	115			
Sample ID: C10040660-001CMS3	9	Sample Matrix Spike				Run: ICPMS4-C_100423A				04/24/10 13:36
Aluminum		2.62	mg/L	0.10	104	70	130			
Beryllium		0.245	mg/L	0.010	98	70	130			
Cadmium		0.265	mg/L	0.010	106	70	130			
Cobalt		0.525	mg/L	0.010	104	70	130			
Lead		0.552	mg/L	0.050	107	70	130			
Manganese		3.16	mg/L	0.010	104	70	130			
Molybdenum		0.698	mg/L	0.10	109	70	130			
Uranium		0.563	mg/L	0.00037	112	70	130			
Vanadium		0.522	mg/L	0.10	104	70	130			
Sample ID: C10040660-001CMSD	9	Sample Matrix Spike Duplicate				Run: ICPMS4-C_100423A				04/24/10 13:43
Aluminum		2.56	mg/L	0.10	101	70	130	2.4	20	
Beryllium		0.237	mg/L	0.010	95	70	130	3.6	20	
Cadmium		0.258	mg/L	0.010	103	70	130	2.8	20	
Cobalt		0.513	mg/L	0.010	102	70	130	2.4	20	
Lead		0.537	mg/L	0.050	104	70	130	2.7	20	
Manganese		3.08	mg/L	0.010	100	70	130	2.6	20	
Molybdenum		0.691	mg/L	0.10	108	70	130	1	20	
Uranium		0.541	mg/L	0.00037	108	70	130	3.9	20	
Vanadium		0.507	mg/L	0.10	101	70	130	3	20	

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QA/QC Summary Report

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Report Date: 05/13/10
Work Order: C10040568

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R131933
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100424A				04/24/10 15:37
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.03						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100424A				04/24/10 15:39
Nitrogen, Nitrate+Nitrite as N		2.48	mg/L	0.10	99	90	110			
Sample ID: C10040567-007DMS		Sample Matrix Spike				Run: TECHNICON_100424A				04/24/10 16:32
Nitrogen, Nitrate+Nitrite as N		2.11	mg/L	0.10	105	90	110			
Sample ID: C10040567-007DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100424A				04/24/10 16:34
Nitrogen, Nitrate+Nitrite as N		2.11	mg/L	0.10	105	90	110	0	10	
Sample ID: C10040571-001DMS		Sample Matrix Spike				Run: TECHNICON_100424A				04/24/10 17:12
Nitrogen, Nitrate+Nitrite as N		2.11	mg/L	0.10	102	90	110			
Sample ID: C10040571-001DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100424A				04/24/10 17:14
Nitrogen, Nitrate+Nitrite as N		2.12	mg/L	0.10	103	90	110	0.5	10	

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QA/QC Summary Report

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Report Date: 05/13/10
Work Order: C10040568

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R131758
Sample ID: 19-Apr-10_LCS_3	9	Laboratory Control Sample				Run: GCMS2_100419A				04/19/10 12:29
Bromodichloromethane		9.76	ug/L	1.0	98	70	130			
Bromoform		10.5	ug/L	1.0	105	70	130			
Chlorodibromomethane		10.2	ug/L	1.0	102	70	130			
Chloroform		10.0	ug/L	1.0	100	70	130			
Trihalomethanes, Total		40.5	ug/L	1.0	101	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	103	80	120			
Surr: Dibromofluoromethane				1.0	96	80	120			
Surr: p-Bromofluorobenzene				1.0	104	80	120			
Surr: Toluene-d8				1.0	102	80	120			
Sample ID: 19-Apr-10_MBLK_6	9	Method Blank				Run: GCMS2_100419A				04/19/10 14:15
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Trihalomethanes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichlorobenzene-d4				1.0	104	80	120			
Surr: Dibromofluoromethane				1.0	96	80	120			
Surr: p-Bromofluorobenzene				1.0	112	80	120			
Surr: Toluene-d8				1.0	101	80	120			
Sample ID: C10040568-003HMS	9	Sample Matrix Spike				Run: GCMS2_100419A				04/19/10 21:50
Bromodichloromethane		100	ug/L	10	100	70	130			
Bromoform		93.6	ug/L	10	94	70	130			
Chlorodibromomethane		98.8	ug/L	10	99	70	130			
Chloroform		109	ug/L	10	109	70	130			
Trihalomethanes, Total		401	ug/L	10	100	70	130			
Surr: 1,2-Dichlorobenzene-d4				10	102	80	120			
Surr: Dibromofluoromethane				10	109	80	120			
Surr: p-Bromofluorobenzene				10	103	80	120			
Surr: Toluene-d8				10	106	80	120			
Sample ID: C10040568-003HMSD	9	Sample Matrix Spike Duplicate				Run: GCMS2_100419A				04/19/10 22:25
Bromodichloromethane		103	ug/L	10	103	70	130	2.8	20	
Bromoform		101	ug/L	10	101	70	130	7.8	20	
Chlorodibromomethane		104	ug/L	10	104	70	130	5.5	20	
Chloroform		114	ug/L	10	114	70	130	5	20	
Trihalomethanes, Total		423	ug/L	10	106	70	130	5.2	20	
Surr: 1,2-Dichlorobenzene-d4				10	105	80	120			
Surr: Dibromofluoromethane				10	110	80	120			
Surr: p-Bromofluorobenzene				10	105	80	120			
Surr: Toluene-d8				10	105	80	120			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 05/13/10
Work Order: C10040568

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.1										Batch: GA-0316
Sample ID: MB-GA-0316	3	Method Blank				Run: G542M_100423A				04/26/10 12:24
Gross Alpha minus Rn & U		-0.2	pCi/L							U
Gross Alpha minus Rn & U Precision (±)		0.3	pCi/L							
Gross Alpha minus Rn & U MDC		0.5	pCi/L							
Sample ID: LCS-GA-0316		Laboratory Control Sample				Run: G542M_100423A				04/26/10 12:24
Gross Alpha minus Rn & U		25.2	pCi/L		96	70	130			
Sample ID: C10040567-001GMS		Sample Matrix Spike				Run: G542M_100423A				04/26/10 12:24
Gross Alpha minus Rn & U		39.3	pCi/L		77	70	130			
Sample ID: C10040567-001GMSD		Sample Matrix Spike Duplicate				Run: G542M_100423A				04/26/10 12:24
Gross Alpha minus Rn & U		39.5	pCi/L		77	70	130	0.5	21.3	

Qualifiers:

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MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 05/13/10
Work Order: C10040568

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: RA226-4481
Sample ID: C10040560-001GMS		Sample Matrix Spike				Run: BERTHOLD 770-1_100419A			05/03/10 16:21	
Radium 226		23.8	pCi/L		123	70	130			
Sample ID: C10040560-001GMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-1_100419A			05/03/10 16:21	
Radium 226		8.73	pCi/L		27	70	130	93	23.3	SR
- Spike response is outside of the acceptance range for this analysis due to an error during prep. Since the LCS and the MS are acceptable the batch is approved.										
Sample ID: MB-RA226-4481	3	Method Blank				Run: BERTHOLD 770-1_100419A			05/03/10 23:19	
Radium 226		-0.08	pCi/L							U
Radium 226 precision (±)		0.06	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4481		Laboratory Control Sample				Run: BERTHOLD 770-1_100419A			05/03/10 23:19	
Radium 226		9.0	pCi/L		116	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
S - Spike recovery outside of advisory limits.
ND - Not detected at the reporting limit.
R - RPD exceeds advisory limit.
U - Not detected at minimum detectable concentration

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 05/13/10
Work Order: C10040568

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0										Batch: RA-TH-ISO-1147
Sample ID: LCS-RA-TH-ISO-1147		Laboratory Control Sample				Run: EGG-ORTEC_100419B			04/21/10 08:57	
Thorium 230		4.86	pCi/L		89	70	130			
Sample ID: C10040568-004GMS		Sample Matrix Spike				Run: EGG-ORTEC_100419B			04/21/10 13:22	
Thorium 230		13.1	pCi/L		95	70	130			
Sample ID: C10040568-004GMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_100419B			04/21/10 13:22	
Thorium 230		13.1	pCi/L		97	70	130	0.1	30	
Sample ID: MB-RA-TH-ISO-1147	3	Method Blank				Run: EGG-ORTEC_100419B			04/21/10 17:06	
Thorium 230		0.01	pCi/L							U
Thorium 230 precision (±)		0.02	pCi/L							
Thorium 230 MDC		0.05	pCi/L							

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 05/13/10
Work Order: C10040568

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M									Batch: PB-210-0692	
Sample ID: C09100418-007BMSD	3	Sample Duplicate				Run: BECKMAN 6100TA_100426B			05/07/10 12:09	
Lead 210		6.4	pCi/L					270	319	U
Lead 210 precision (±)		8.9	pCi/L							
Lead 210 MDC		15	pCi/L							
- Due to an error in spiking the run the MSD is being reported as a Duplucate.										
Sample ID: MB-PB-210-0692	3	Method Blank				Run: BECKMAN 6100TA_100426B			05/07/10 14:11	
Lead 210		-1	pCi/L							U
Lead 210 precision (±)		4	pCi/L							
Lead 210 MDC		7	pCi/L							
Sample ID: LCS-PB-210-0692		Laboratory Control Sample				Run: BECKMAN 6100TA_100426B			05/07/10 16:13	
Lead 210		120	pCi/L		110	70	130			
Sample ID: LCS-PB-210-0692		Laboratory Control Sample				Run: BECKMAN 6100TA_100426B			05/07/10 18:15	
Lead 210		110	pCi/L		104	70	130			

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 1

Report Date: 05/13/10
Work Order: C10040568

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-3160
Sample ID: LCS-228-RA226-4481		Laboratory Control Sample				Run: TENNELEC-3_100419B				04/27/10 11:49
Radium 228		9.3	pCi/L		108	70	130			
Sample ID: MB-RA226-4481	3	Method Blank				Run: TENNELEC-3_100419B				04/27/10 11:49
Radium 228		0.9	pCi/L							U
Radium 228 precision (±)		0.8	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: C10040568-006GMS		Sample Matrix Spike				Run: TENNELEC-3_100419B				04/27/10 11:49
Radium 228		16	pCi/L		91	70	130			
Sample ID: C10040568-006GMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_100419B				04/27/10 11:49
Radium 228		17	pCi/L		98	70	130	6.8	36.8	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Energy Laboratories Inc
Workorder Receipt Checklist

C10040568

United Nuclear Corporation

Login completed by: Halley Ackerman

Reviewed by:

Reviewed Date:

Date Received: 4/16/2010

Received by: al

Carrier name: Ground

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature:	1°C On Ice		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

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ANALYTICAL SUMMARY REPORT

May 07, 2010

United Nuclear Corporation
21 Miles NE Of Gallup
Gallup, NM 87305

Workorder No.: C10040363 Quote ID: C129 - Quarterly Long List

Project Name: Zone 3

Energy Laboratories, Inc. received the following 2 samples for United Nuclear Corporation on 4/12/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C10040363-001	613	04/06/10 13:30	04/12/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Chloride Arsenic Speciation Selenium-IV, Total Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Metals Preparation by EPA 200.2 Gross Alpha minus Rn222 and Uranium Lead 210, Total Radium 226, Total Radium 228, Total Thorium, Isotopic Solids, Total Dissolved Sulfate E624 Purgeable Organics
C10040363-002	EPA-14	04/06/10 14:55	04/12/10	Aqueous	Same As Above

Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By: Stephanie D. Waldrop

Stephanie D. Waldrop
Reporting Supervisor

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CLIENT: United Nuclear Corporation
Project: Zone 3
Sample Delivery Group: C10040363

Report Date: 05/07/10

CASE NARRATIVE

TH230 ANALYSIS
The sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved due to significant matrix interferences, restricting the volume of sample to be used in the analysis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

PB210 ANALYSIS
The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

BRANCH LABORATORY SUBCONTRACT ANALYSIS
Tests Associated with Analyst identified as ELI-H were subcontracted to Energy Laboratories Helena Branch, EPA Number MT00945.

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/07/10
Work Order: C10040363

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R131565
Sample ID: MBLK	2	Method Blank				Run: MANTECH_100413A				04/13/10 10:20
Alkalinity, Total as CaCO3		3	mg/L	1						
Bicarbonate as HCO3		4	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_100413A				04/13/10 10:47
Alkalinity, Total as CaCO3		200	mg/L	5.0	98	90	110			
Sample ID: LCS		Laboratory Control Sample				Run: MANTECH_100413A				04/13/10 10:56
Alkalinity, Total as CaCO3		56.8	mg/L	5.0	107	90	110			
Sample ID: C10040318-003AMS		Sample Matrix Spike				Run: MANTECH_100413A				04/13/10 11:46
Alkalinity, Total as CaCO3		281	mg/L	5.0	104	80	120			
Sample ID: C10040318-003AMSD		Sample Matrix Spike Duplicate				Run: MANTECH_100413A				04/13/10 11:54
Alkalinity, Total as CaCO3		277	mg/L	5.0	101	80	120	1.3	20	
Method: A2320 B										Batch: R131711
Sample ID: MBLK	2	Method Blank				Run: MANTECH_100416A				04/16/10 11:38
Alkalinity, Total as CaCO3		5	mg/L	1						
Bicarbonate as HCO3		6	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_100416A				04/16/10 11:56
Alkalinity, Total as CaCO3		199	mg/L	5.0	97	90	110			
Sample ID: LCS		Laboratory Control Sample				Run: MANTECH_100416A				04/16/10 12:06
Alkalinity, Total as CaCO3		56.1	mg/L	5.0	102	90	110			
Sample ID: C10040402-001AMS		Sample Matrix Spike				Run: MANTECH_100416A				04/16/10 12:45
Alkalinity, Total as CaCO3		273	mg/L	5.0	101	80	120			
Sample ID: C10040402-001AMSD		Sample Matrix Spike Duplicate				Run: MANTECH_100416A				04/16/10 12:53
Alkalinity, Total as CaCO3		275	mg/L	5.0	103	80	120	0.6	20	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/07/10
Work Order: C10040363

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: 100413_1_SLDS-TDS-W	
Sample ID: MBLK1_100413		Method Blank				Run: BAL-1_100413B			04/13/10 11:13	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_100413		Laboratory Control Sample				Run: BAL-1_100413B			04/13/10 11:13	
Solids, Total Dissolved TDS @ 180 C		981	mg/L	10	98	90	110			
Sample ID: C10040348-001AMS		Sample Matrix Spike				Run: BAL-1_100413B			04/13/10 11:14	
Solids, Total Dissolved TDS @ 180 C		2400	mg/L	10	105	90	110			
Sample ID: C10040348-001AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_100413B			04/13/10 11:15	
Solids, Total Dissolved TDS @ 180 C		2440	mg/L	10	106	90	110	1.5	10	
Sample ID: C10040364-002AMS		Sample Matrix Spike				Run: BAL-1_100413B			04/13/10 11:17	
Solids, Total Dissolved TDS @ 180 C		7310	mg/L	12	107	90	110			
Sample ID: C10040364-002AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_100413B			04/13/10 11:17	
Solids, Total Dissolved TDS @ 180 C		7320	mg/L	12	105	90	110	0.2	10	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/07/10
Work Order: C10040363

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Batch: SE3114-100414B	
Sample ID: MBLK		Method Blank				Run: CVAA-C202_100414B			04/14/10 13:50	
Selenium-IV		0.0007	mg/L	0.0002						
Sample ID: As/Se 1.0ppm-Q 0408		Laboratory Control Sample				Run: CVAA-C202_100414B			04/14/10 13:52	
Selenium-IV		0.0501	mg/L	0.0010	99	90	110			
Sample ID: C10040365-005CMS		Sample Matrix Spike				Run: CVAA-C202_100414B			04/14/10 14:12	
Selenium-IV		0.0498	mg/L	0.0010	98	85	115			
Sample ID: C10040365-005CMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_100414B			04/14/10 14:15	
Selenium-IV		0.0504	mg/L	0.0010	99	85	115	1.2	10	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/07/10
Work Order: C10040363

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-Cl B									Batch: 100413-CL-TTR-W	
Sample ID: MBLK9-100413		Method Blank				Run: TITRATION_100413B			04/13/10 11:40	
Chloride		ND	mg/L	0.4						
Sample ID: C10040364-003AMS		Sample Matrix Spike				Run: TITRATION_100413B			04/13/10 14:14	
Chloride		518	mg/L	1.0	100	90	110			
Sample ID: C10040364-003AMSD		Sample Matrix Spike Duplicate				Run: TITRATION_100413B			04/13/10 14:14	
Chloride		518	mg/L	1.0	100	90	110	0	10	
Sample ID: LCS35-100413		Laboratory Control Sample				Run: TITRATION_100413B			04/13/10 15:59	
Chloride		3510	mg/L	1.0	99	90	110			
Method: A4500-Cl B									Batch: 100503A-CL-TTR-W	
Sample ID: MBLK9-100503A		Method Blank				Run: TITRATION_100503A			05/03/10 12:07	
Chloride		ND	mg/L	0.4						
Sample ID: C10040568-003AMS		Sample Matrix Spike				Run: TITRATION_100503A			05/03/10 13:37	
Chloride		391	mg/L	1.0	100	90	110			
Sample ID: C10040568-003AMSD		Sample Matrix Spike Duplicate				Run: TITRATION_100503A			05/03/10 13:40	
Chloride		391	mg/L	1.0	100	90	110	0	10	
Sample ID: LCS35-100503A		Laboratory Control Sample				Run: TITRATION_100503A			05/03/10 14:26	
Chloride		3470	mg/L	1.0	98	90	110			

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/07/10
Work Order: C10040363

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_100412A		
Sample ID: ICV1_100412_1		Initial Calibration Verification Standard							04/12/10 14:20	
pH		6.79	s.u.	0.010	99	98	102			
Method: A4500-H B								Batch: 100412_1_PH-W_555A-2		
Sample ID: C10040364-005ADUP		Sample Duplicate				Run: ORION555A-2_100412A			04/12/10 14:52	
pH		6.57	s.u.	0.010				0.3	10	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/07/10
Work Order: C10040363

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R131555
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100413A				04/13/10 20:59
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100413A				04/13/10 21:01
Nitrogen, Ammonia as N		21.9	mg/L	0.20	109	80	120			
Sample ID: C10040364-003DMS		Sample Matrix Spike				Run: TECHNICON_100413A				04/13/10 23:21
Nitrogen, Ammonia as N		4.99	mg/L	0.050	114	80	120			
Sample ID: C10040364-003DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100413A				04/13/10 23:23
Nitrogen, Ammonia as N		4.99	mg/L	0.050	114	80	120	0	20	
Method: A4500-NH3 G										Batch: R131797
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100420A				04/20/10 14:50
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100420A				04/20/10 14:53
Nitrogen, Ammonia as N		20.8	mg/L	0.20	104	80	120			
Sample ID: C10040364-010DMS		Sample Matrix Spike				Run: TECHNICON_100420A				04/20/10 15:05
Nitrogen, Ammonia as N		2.12	mg/L	0.050	106	80	120			
Sample ID: C10040364-010DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100420A				04/20/10 15:21
Nitrogen, Ammonia as N		2.11	mg/L	0.050	105	80	120	0.5	20	

Qualifiers:

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Report Date: 05/07/10
Work Order: C10040363

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-SO4 E								Batch: 100422_1_SO4-TURB-W		
Sample ID: LCS-1_100422		Laboratory Control Sample				Run: TURB-2_100422A			04/22/10 13:40	
Sulfate		5070	mg/L	59	106	90	110			
Sample ID: MBLK-1_100422		Method Blank				Run: TURB-2_100422A			04/22/10 13:43	
Sulfate		ND	mg/L	0.6						
Sample ID: C10040281-001AMS		Sample Matrix Spike				Run: TURB-2_100422A			04/22/10 13:52	
Sulfate		598	mg/L	9.8	97	90	110			
Sample ID: C10040281-001AMSD		Sample Matrix Spike Duplicate				Run: TURB-2_100422A			04/22/10 13:54	
Sulfate		596	mg/L	9.8	97	90	110	0.3	10	
Method: A4500-SO4 E								Batch: 100429_1_SO4-TURB-W		
Sample ID: LCS-1_100429		Laboratory Control Sample				Run: TURB-2_100429A			04/29/10 16:14	
Sulfate		4850	mg/L	59	101	90	110			
Sample ID: MBLK-1_100429		Method Blank				Run: TURB-2_100429A			04/29/10 16:17	
Sulfate		ND	mg/L	0.6						
Sample ID: C10040364-008AMS		Sample Matrix Spike				Run: TURB-2_100429A			04/29/10 16:55	
Sulfate		8260	mg/L	150	93	90	110			
Sample ID: C10040364-008AMSD		Sample Matrix Spike Duplicate				Run: TURB-2_100429A			04/29/10 16:58	
Sulfate		8210	mg/L	150	92	90	110	0.6	10	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/07/10
Work Order: C10040363

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E1632AM									Analytical Run: SUB-H61735	
Sample ID: ICB_13r		Initial Calibration Blank, Instrument Blank							04/20/10 11:26	
Arsenic-III		ND	ug/L	5.0		0	0			
Method: E1632AM									Batch: H_R61735	
Sample ID: AS100420-LFB		Laboratory Fortified Blank				Run: SUB-H61735			04/20/10 11:32	
Arsenic-III		49.5	ug/L	5.0	99	55	146			
Sample ID: H10040159-003E MS		Sample Matrix Spike				Run: SUB-H61735			04/20/10 12:03	
Arsenic-III		50.5	ug/L	5.0	101	55	146			
Sample ID: H10040159-003E MSD		Sample Matrix Spike Duplicate				Run: SUB-H61735			04/20/10 12:08	
Arsenic-III		50.1	ug/L	5.0	100	55	146	0.8	20	
Sample ID: C10040364-001E		Sample Duplicate				Run: SUB-H61735			04/20/10 12:29	
Arsenic-III		ND	ug/L	5.0					20	

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Work Order: C10040363

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R131673
Sample ID: MB-100415A	4	Method Blank				Run: ICP2-C_100415A				04/15/10 14:06
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-100415A	4	Laboratory Fortified Blank				Run: ICP2-C_100415A				04/15/10 14:10
Calcium		48.3	mg/L	0.50	97	85	115			
Magnesium		47.7	mg/L	0.50	95	85	115			
Potassium		46.6	mg/L	0.50	93	85	115			
Sodium		48.9	mg/L	0.50	98	85	115			
Sample ID: C10040363-001BMS2	4	Sample Matrix Spike				Run: ICP2-C_100415A				04/15/10 16:02
Calcium		929	mg/L	2.3	97	70	130			
Magnesium		1210	mg/L	1.0	97	70	130			
Potassium		496	mg/L	1.0	97	70	130			
Sodium		802	mg/L	2.9	102	70	130			
Sample ID: C10040363-001BMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_100415A				04/15/10 16:06
Calcium		958	mg/L	2.3	103	70	130	3	20	
Magnesium		1250	mg/L	1.0	103	70	130	2.7	20	
Potassium		479	mg/L	1.0	94	70	130	3.4	20	
Sodium		809	mg/L	2.9	104	70	130	0.9	20	

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Work Order: C10040363

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R132003
Sample ID: MB-100426A	4	Method Blank				Run: ICP2-C_100426A				04/26/10 12:18
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-100426A	4	Laboratory Fortified Blank				Run: ICP2-C_100426A				04/26/10 12:22
Calcium		48.6	mg/L	0.50	97	85	115			
Magnesium		49.1	mg/L	0.50	98	85	115			
Potassium		45.8	mg/L	0.50	92	85	115			
Sodium		47.1	mg/L	0.50	94	85	115			
Sample ID: C10040363-001BMS2	4	Sample Matrix Spike				Run: ICP2-C_100426A				04/26/10 14:44
Calcium		912	mg/L	2.3	94	70	130			
Magnesium		1220	mg/L	1.0	97	70	130			
Potassium		444	mg/L	1.0	87	70	130			
Sodium		763	mg/L	2.9	97	70	130			
Sample ID: C10040363-001BMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_100426A				04/26/10 14:48
Calcium		896	mg/L	2.3	91	70	130	1.8	20	
Magnesium		1210	mg/L	1.0	95	70	130	0.9	20	
Potassium		449	mg/L	1.0	88	70	130	1.2	20	
Sodium		749	mg/L	2.9	95	70	130	1.9	20	
Method: E200.7										Batch: 25802
Sample ID: MB-25802	2	Method Blank				Run: ICP2-C_100430A				04/30/10 17:16
Aluminum		0.01	mg/L	0.01						
Manganese		ND	mg/L	0.0008						
Sample ID: LCS3-25802	2	Laboratory Control Sample				Run: ICP2-C_100430A				04/30/10 17:20
Aluminum		2.55	mg/L	0.10	101	85	115			
Manganese		2.45	mg/L	0.010	98	85	115			
Sample ID: C10040363-001CDUP	2	Sample Duplicate				Run: ICP2-C_100430A				04/30/10 17:28
Aluminum		637	mg/L	0.19				6.8	20	
Manganese		57.0	mg/L	0.010				0.7	20	

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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 25802
Sample ID: MB-25802	9	Method Blank				Run: ICPMS2-C_100413A				04/13/10 14:10
Beryllium		ND	mg/L	2E-05						
Cadmium		ND	mg/L	4E-05						
Cobalt		ND	mg/L	0.0004						
Lead		ND	mg/L	5E-05						
Manganese		0.0002	mg/L	9E-05						
Molybdenum		0.0003	mg/L	0.0001						
Nickel		ND	mg/L	8E-05						
Uranium		ND	mg/L	4E-05						
Vanadium		0.003	mg/L	0.0005						
Sample ID: LCS3-25802	9	Laboratory Control Sample				Run: ICPMS2-C_100413A				04/13/10 14:17
Beryllium		0.249	mg/L	0.010	100	85	115			
Cadmium		0.251	mg/L	0.010	100	85	115			
Cobalt		0.453	mg/L	0.010	91	85	115			
Lead		0.514	mg/L	0.050	103	85	115			
Manganese		2.36	mg/L	0.010	94	85	115			
Molybdenum		0.536	mg/L	0.10	107	85	115			
Nickel		0.446	mg/L	0.050	89	85	115			
Uranium		0.536	mg/L	0.00030	107	85	115			
Vanadium		0.481	mg/L	0.10	96	85	115			
Sample ID: C10040364-013CMS4	9	Sample Matrix Spike				Run: ICPMS2-C_100413A				04/13/10 18:38
Beryllium		0.227	mg/L	0.010	91	70	130			
Cadmium		0.244	mg/L	0.010	98	70	130			
Cobalt		0.243	mg/L	0.010	97	70	130			
Lead		0.257	mg/L	0.050	103	70	130			
Manganese		0.794	mg/L	0.010	89	70	130			
Molybdenum		0.268	mg/L	0.10	107	70	130			
Nickel		0.251	mg/L	0.050	96	70	130			
Uranium		0.310	mg/L	0.00030	107	70	130			
Vanadium		0.255	mg/L	0.10	101	70	130			
Sample ID: C10040364-013CMSD	9	Sample Matrix Spike Duplicate				Run: ICPMS2-C_100413A				04/13/10 18:45
Beryllium		0.226	mg/L	0.010	90	70	130	0.5	20	
Cadmium		0.244	mg/L	0.010	98	70	130	0.1	20	
Cobalt		0.242	mg/L	0.010	97	70	130	0.7	20	
Lead		0.252	mg/L	0.050	101	70	130	1.7	20	
Manganese		0.796	mg/L	0.010	90	70	130	0.3	20	
Molybdenum		0.266	mg/L	0.10	106	70	130	0.6	20	
Nickel		0.246	mg/L	0.050	94	70	130	1.8	20	
Uranium		0.302	mg/L	0.00030	104	70	130	2.5	20	
Vanadium		0.255	mg/L	0.10	101	70	130	0.3	20	

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QA/QC Summary Report

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Work Order: C10040363

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 25802
Sample ID: C10040364-011CMS4	9	Sample Matrix Spike				Run: ICPMS2-C_100430A			04/30/10 17:31	
Beryllium		0.194	mg/L	0.010	78	70	130			
Cadmium		0.246	mg/L	0.010	98	70	130			
Cobalt		0.261	mg/L	0.010	96	70	130			
Lead		0.259	mg/L	0.050	104	70	130			
Manganese		3.15	mg/L	0.010		70	130			A
Molybdenum		0.274	mg/L	0.10	109	70	130			
Nickel		0.301	mg/L	0.050	91	70	130			
Uranium		0.289	mg/L	0.00030	110	70	130			
Vanadium		0.253	mg/L	0.10	101	70	130			
Sample ID: C10040364-011CMSD	9	Sample Matrix Spike Duplicate				Run: ICPMS2-C_100430A			04/30/10 17:38	
Beryllium		0.190	mg/L	0.010	76	70	130	2.3	20	
Cadmium		0.247	mg/L	0.010	99	70	130	0.3	20	
Cobalt		0.261	mg/L	0.010	96	70	130	0	20	
Lead		0.259	mg/L	0.050	103	70	130	0.2	20	
Manganese		3.21	mg/L	0.010		70	130	2	20	A
Molybdenum		0.273	mg/L	0.10	109	70	130	0.2	20	
Nickel		0.295	mg/L	0.050	89	70	130	1.8	20	
Uranium		0.286	mg/L	0.00030	109	70	130	1	20	
Vanadium		0.255	mg/L	0.10	102	70	130	0.8	20	

Qualifiers:

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A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R131845
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100421A				04/21/10 21:10
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.03						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100421A				04/21/10 21:13
Nitrogen, Nitrate+Nitrite as N		2.50	mg/L	0.10	100	90	110			
Sample ID: C10040513-001BMS		Sample Matrix Spike				Run: TECHNICON_100421A				04/21/10 21:28
Nitrogen, Nitrate+Nitrite as N		2.42	mg/L	0.10	107	90	110			
Sample ID: C10040513-001BMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100421A				04/21/10 21:30
Nitrogen, Nitrate+Nitrite as N		2.38	mg/L	0.10	105	90	110	1.7	10	

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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R131572
Sample ID: 041310_LCS_3	9	Laboratory Control Sample				Run: SATURNCA_100413A				04/13/10 11:39
Bromodichloromethane		10.0	ug/L	1.0	100	70	130			
Bromoform		9.40	ug/L	1.0	94	70	130			
Chlorodibromomethane		9.64	ug/L	1.0	96	70	130			
Chloroform		10.1	ug/L	1.0	101	70	130			
Trihalomethanes, Total		39.2	ug/L	1.0	98	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	100	80	120			
Surr: Dibromofluoromethane				1.0	96	80	120			
Surr: p-Bromofluorobenzene				1.0	107	80	120			
Surr: Toluene-d8				1.0	97	80	120			
Sample ID: 041310_MBLK_6	9	Method Blank				Run: SATURNCA_100413A				04/13/10 13:32
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Trihalomethanes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichlorobenzene-d4				1.0	98	80	120			
Surr: Dibromofluoromethane				1.0	92	80	120			
Surr: p-Bromofluorobenzene				1.0	99	80	120			
Surr: Toluene-d8				1.0	92	80	120			
Sample ID: C10040363-001HMS	9	Sample Matrix Spike				Run: SATURNCA_100413A				04/13/10 19:12
Bromodichloromethane		96.0	ug/L	10	96	70	130			
Bromoform		100	ug/L	10	100	70	130			
Chlorodibromomethane		94.8	ug/L	10	95	70	130			
Chloroform		194	ug/L	10	100	70	130			
Trihalomethanes, Total		485	ug/L	10	98	70	130			
Surr: 1,2-Dichlorobenzene-d4				10	94	80	120			
Surr: Dibromofluoromethane				10	92	80	120			
Surr: p-Bromofluorobenzene				10	96	80	120			
Surr: Toluene-d8				10	92	80	120			
Sample ID: C10040363-001HMSD	9	Sample Matrix Spike Duplicate				Run: SATURNCA_100413A				04/13/10 19:51
Bromodichloromethane		94.4	ug/L	10	94	70	130	1.7	20	
Bromoform		93.6	ug/L	10	94	70	130	6.6	20	
Chlorodibromomethane		94.0	ug/L	10	94	70	130	0.8	20	
Chloroform		210	ug/L	10	116	70	130	7.9	20	
Trihalomethanes, Total		492	ug/L	10	100	70	130	1.5	20	
Surr: 1,2-Dichlorobenzene-d4				10	100	80	120			
Surr: Dibromofluoromethane				10	102	80	120			
Surr: p-Bromofluorobenzene				10	96	80	120			
Surr: Toluene-d8				10	88	80	120			

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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.1										Batch: GA-0318
Sample ID: MB-GA-0318	3	Method Blank				Run: G542M_100430A				05/03/10 14:42
Gross Alpha minus Rn & U		-0.09	pCi/L							U
Gross Alpha minus Rn & U Precision (±)		0.3	pCi/L							
Gross Alpha minus Rn & U MDC		0.6	pCi/L							
Sample ID: LCS-GA-0318		Laboratory Control Sample				Run: G542M_100430A				05/03/10 14:42
Gross Alpha minus Rn & U		26.2	pCi/L		100	70	130			
Sample ID: C10040828-001CMS		Sample Matrix Spike				Run: G542M_100430A				05/03/10 14:42
Gross Alpha minus Rn & U		29.4	pCi/L		103	70	130			
Sample ID: C10040828-001CMSD		Sample Matrix Spike Duplicate				Run: G542M_100430A				05/03/10 14:42
Gross Alpha minus Rn & U		27.2	pCi/L		95	70	130	7.9	24.1	

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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: RA226-4468
Sample ID: C10040136-001EMS		Sample Matrix Spike				Run: BERTHOLD 770-1_100413A				04/25/10 20:30
Radium 226		13.9	pCi/L		86	70	130			
Sample ID: C10040136-001EMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-1_100413A				04/25/10 20:30
Radium 226		13.3	pCi/L		82	70	130	4.5	26.4	
Sample ID: MB-RA226-4468	3	Method Blank				Run: BERTHOLD 770-1_100413A				04/25/10 22:06
Radium 226		-0.07	pCi/L							U
Radium 226 precision (±)		0.08	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4468		Laboratory Control Sample				Run: BERTHOLD 770-1_100413A				04/25/10 22:06
Radium 226		7.4	pCi/L		95	70	130			

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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: RA-TH-ISO-1143	
Sample ID: LCS-RA-TH-ISO-1143		Laboratory Control Sample				Run: EGG-ORTEC_100413A			04/16/10 08:43	
Thorium 230		4.8	pCi/L		93	70	130			
Sample ID: C10040001-001DMS		Sample Matrix Spike				Run: EGG-ORTEC_100413A			04/16/10 08:43	
Thorium 230		11	pCi/L		83	70	130			
Sample ID: C10040001-001DMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_100413A			04/16/10 08:43	
Thorium 230		13	pCi/L		105	70	130	23	42.2	
Sample ID: MB-RA-TH-ISO-1143	3	Method Blank				Run: EGG-ORTEC_100413A			04/16/10 08:43	
Thorium 230		0.02	pCi/L							U
Thorium 230 precision (±)		0.04	pCi/L							
Thorium 230 MDC		0.07	pCi/L							
Method: E907.0									Batch: RA-TH-ISO-1152	
Sample ID: LCS-RA-TH-ISO-1152		Laboratory Control Sample				Run: EGG-ORTEC_100423A			04/26/10 14:55	
Thorium 230		5.0	pCi/L		94	70	130			
Sample ID: C10040600-001DMS		Sample Matrix Spike				Run: EGG-ORTEC_100423A			04/26/10 14:55	
Thorium 230		13	pCi/L		103	70	130			
Sample ID: C10040600-001DMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_100423A			04/26/10 14:55	
Thorium 230		14	pCi/L		109	70	130	7.2	28.3	
Sample ID: MB-RA-TH-ISO-1152	3	Method Blank				Run: EGG-ORTEC_100423A			04/26/10 14:55	
Thorium 230		0.006	pCi/L							U
Thorium 230 precision (±)		0.04	pCi/L							
Thorium 230 MDC		0.08	pCi/L							

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/07/10
Work Order: C10040363

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M									Batch: PB-210-0688	
Sample ID: C09100474-001EMS		Sample Matrix Spike				Run: BECKMAN 6100TA_100421B			04/27/10 01:21	
Lead 210		170	pCi/L		77	70	130			
Sample ID: C09100474-001EMSD		Sample Matrix Spike Duplicate				Run: BECKMAN 6100TA_100421B			04/27/10 03:23	
Lead 210		220	pCi/L		97	70	130	23	20.2	R
- The RPD for the MSD is high. The individual spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.										
Sample ID: MB-PB-210-0688	3	Method Blank				Run: BECKMAN 6100TA_100421B			04/27/10 05:24	
Lead 210		-3	pCi/L							U
Lead 210 precision (±)		4	pCi/L							
Lead 210 MDC		7	pCi/L							
Sample ID: LCS-PB-210-0688		Laboratory Control Sample				Run: BECKMAN 6100TA_100421B			04/27/10 09:27	
Lead 210		120	pCi/L		113	70	130			

Qualifiers:

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ND - Not detected at the reporting limit.
R - RPD exceeds advisory limit.

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/07/10
Work Order: C10040363

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-3151
Sample ID: LCS-228-RA226-4468		Laboratory Control Sample				Run: TENNELEC-3_100413A			04/19/10 15:19	
Radium 228		8.2	pCi/L		95	70	130			
Sample ID: MB-RA226-4468	3	Method Blank				Run: TENNELEC-3_100413A			04/19/10 15:19	
Radium 228		0.8	pCi/L							U
Radium 228 precision (±)		0.8	pCi/L							
Radium 228 MDC		0.8	pCi/L							
Sample ID: C10040285-001AMS		Sample Matrix Spike				Run: TENNELEC-3_100413A			04/19/10 15:19	
Radium 228		15	pCi/L		84	70	130			
Sample ID: C10040285-001AMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_100413A			04/19/10 15:19	
Radium 228		16	pCi/L		93	70	130	9	35.8	

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ANALYTICAL SUMMARY REPORT

May 25, 2010

United Nuclear Corporation
21 Miles NE Of Gallup
Gallup, NM 87305

Workorder No.: C10040567 Quote ID: C129 - Quarterly Long List

Project Name: Zone 3

Energy Laboratories, Inc. received the following 8 samples for United Nuclear Corporation on 4/16/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C10040567-001	708	04/12/10 12:35	04/16/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Chloride Arsenic Speciation Selenium-IV, Total Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Metals Preparation by EPA 200.2 Gross Alpha minus Rn222 and Uranium Lead 210, Total Radium 226, Total Radium 228, Total Thorium, Isotopic Solids, Total Dissolved Sulfate E624 Purgeable Organics
C10040567-002	711	04/12/10 13:15	04/16/10	Aqueous	Same As Above
C10040567-003	711 Duplicate	04/12/10 13:55	04/16/10	Aqueous	Same As Above
C10040567-004	717	04/12/10 14:40	04/16/10	Aqueous	Same As Above
C10040567-005	EPA-13	04/13/10 10:50	04/16/10	Aqueous	Same As Above
C10040567-006	719	04/13/10 11:25	04/16/10	Aqueous	Same As Above
C10040567-007	420	04/13/10 12:10	04/16/10	Aqueous	Same As Above
C10040567-008	NBL-1	04/13/10 13:45	04/16/10	Aqueous	Same As Above

Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By: Stephanie D. Waldrop
Stephanie D. Waldrop
Reporting Supervisor

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CLIENT: United Nuclear Corporation
Project: Zone 3
Sample Delivery Group: C10040567

Report Date: 05/25/10

CASE NARRATIVE

PB210 ANALYSIS
The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

TH230 ANALYSIS
The sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved due to significant matrix interferences, restricting the volume of sample to be used in the analysis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

BRANCH LABORATORY SUBCONTRACT ANALYSIS
Tests Associated with Analyst identified as ELI-H were subcontracted to Energy Laboratories Helena Branch, EPA Number MT00945.

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/25/10
Work Order: C10040567

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R131947
Sample ID: MBLK	2	Method Blank				Run: MANTECH_100424A				04/24/10 14:28
Alkalinity, Total as CaCO3		2	mg/L	1						
Bicarbonate as HCO3		2	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_100424A				04/24/10 14:48
Alkalinity, Total as CaCO3		213	mg/L	5.0	105	90	110			
Sample ID: LCS		Laboratory Control Sample				Run: MANTECH_100424A				04/24/10 14:57
Alkalinity, Total as CaCO3		54.7	mg/L	5.0	106	90	110			
Sample ID: C10040568-004AMS		Sample Matrix Spike				Run: MANTECH_100424A				04/24/10 17:38
Alkalinity, Total as CaCO3		427	mg/L	5.0	113	80	120			
Sample ID: C10040568-004AMSD		Sample Matrix Spike Duplicate				Run: MANTECH_100424A				04/24/10 17:46
Alkalinity, Total as CaCO3		422	mg/L	5.0	109	80	120	1.2	20	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/25/10
Work Order: C10040567

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: 100416_1_SLDS-TDS-W	
Sample ID: MBLK1_100416		Method Blank				Run: BAL-1_100416B			04/16/10 15:26	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_100416		Laboratory Control Sample				Run: BAL-1_100416B			04/16/10 15:26	
Solids, Total Dissolved TDS @ 180 C		1000	mg/L	10	100	90	110			
Sample ID: C10040566-001AMS		Sample Matrix Spike				Run: BAL-1_100416B			04/16/10 15:31	
Solids, Total Dissolved TDS @ 180 C		2430	mg/L	10	104	90	110			
Sample ID: C10040566-001AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_100416B			04/16/10 15:31	
Solids, Total Dissolved TDS @ 180 C		2410	mg/L	10	106	90	110	0.6	10	
Sample ID: C10040567-007AMS		Sample Matrix Spike				Run: BAL-1_100416B			04/16/10 15:37	
Solids, Total Dissolved TDS @ 180 C		5540	mg/L	10	106	90	110			
Sample ID: C10040567-007AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_100416B			04/16/10 15:37	
Solids, Total Dissolved TDS @ 180 C		5540	mg/L	10	106	90	110	0.1	10	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/25/10
Work Order: C10040567

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Batch: SE3114-100419A	
Sample ID: MBLK		Method Blank				Run: CVAA-C202_100419A			04/19/10 10:17	
Selenium-IV		0.0004	mg/L	0.0002						
Sample ID: As/Se 1.0ppm-Q 0415		Laboratory Control Sample				Run: CVAA-C202_100419A			04/19/10 10:19	
Selenium-IV		0.0461	mg/L	0.0010	91	90	110			
Sample ID: C10040567-001CMS		Sample Matrix Spike				Run: CVAA-C202_100419A			04/19/10 10:26	
Selenium-IV		0.0435	mg/L	0.0010	73	85	115			S
Sample ID: C10040567-001CMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_100419A			04/19/10 10:28	
Selenium-IV		0.0440	mg/L	0.0010	74	85	115	1.2	10	S
Sample ID: C10040568-001CMS		Sample Matrix Spike				Run: CVAA-C202_100419A			04/19/10 11:01	
Selenium-IV		0.0436	mg/L	0.0010	87	85	115			
Sample ID: C10040568-001CMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_100419A			04/19/10 11:03	
Selenium-IV		0.0441	mg/L	0.0010	88	85	115	1.2	10	

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S - Spike recovery outside of advisory limits.

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/25/10
Work Order: C10040567

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-Cl B									Batch: 100421-CL-TTR-W	
Sample ID: MBLK9-100421		Method Blank				Run: TITRATION_100421A			04/21/10 12:44	
Chloride		ND	mg/L	0.4						
Sample ID: C10040467-001AMS		Sample Matrix Spike				Run: TITRATION_100421A			04/21/10 13:49	
Chloride		75.7	mg/L	1.0	98	90	110			
Sample ID: C10040467-001AMSD		Sample Matrix Spike Duplicate				Run: TITRATION_100421A			04/21/10 13:50	
Chloride		77.1	mg/L	1.0	99	90	110	1.8	10	
Sample ID: C10040567-007AMS		Sample Matrix Spike				Run: TITRATION_100421A			04/21/10 16:43	
Chloride		119	mg/L	1.0	103	90	110			
Sample ID: C10040567-007AMSD		Sample Matrix Spike Duplicate				Run: TITRATION_100421A			04/21/10 16:45	
Chloride		119	mg/L	1.0	103	90	110	0	10	
Sample ID: LCS35-100421		Laboratory Control Sample				Run: TITRATION_100421A			04/21/10 16:51	
Chloride		3580	mg/L	1.0	101	90	110			

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/25/10
Work Order: C10040567

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_100416B		
Sample ID: ICV1_100416_2		Initial Calibration Verification Standard							04/16/10 14:09	
pH		6.84	s.u.	0.010	100	98	102			
Method: A4500-H B								Batch: 100416_2_PH-W_555A-2		
Sample ID: C10040567-002ADUP		Sample Duplicate				Run: ORION555A-2_100416B			04/16/10 14:36	
pH		3.64	s.u.	0.010				0.3	10	

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QA/QC Summary Report

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Report Date: 05/25/10
Work Order: C10040567

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R132058
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100427A				04/27/10 14:31
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100427A				04/27/10 14:33
Nitrogen, Ammonia as N		20.9	mg/L	0.20	104	80	120			
Sample ID: C10040525-004DMS		Sample Matrix Spike				Run: TECHNICON_100427A				04/27/10 14:45
Nitrogen, Ammonia as N		2.33	mg/L	0.050	109	80	120			
Sample ID: C10040525-004DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100427A				04/27/10 14:47
Nitrogen, Ammonia as N		2.33	mg/L	0.050	109	80	120	0	20	
Sample ID: C10040830-005BMS		Sample Matrix Spike				Run: TECHNICON_100427A				04/27/10 19:37
Nitrogen, Ammonia as N		1.87	mg/L	0.050	94	80	120			
Sample ID: C10040830-005BMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100427A				04/27/10 19:39
Nitrogen, Ammonia as N		1.91	mg/L	0.050	96	80	120	2.1	20	
Method: A4500-NH3 G										Batch: R132385
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100505A				05/05/10 20:45
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100505A				05/05/10 20:47
Nitrogen, Ammonia as N		18.6	mg/L	0.20	93	80	120			
Sample ID: C10040914-002BMS		Sample Matrix Spike				Run: TECHNICON_100505A				05/05/10 22:33
Nitrogen, Ammonia as N		1.94	mg/L	0.050	97	80	120			
Sample ID: C10040914-002BMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100505A				05/05/10 22:35
Nitrogen, Ammonia as N		1.97	mg/L	0.050	99	80	120	1.5	20	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/25/10
Work Order: C10040567

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-SO4 E								Batch: 100430_1_SO4-TURB-W		
Sample ID: MBLK-1_100430		Method Blank				Run: TURB-2_100430A			04/30/10 12:37	
Sulfate		ND	mg/L	0.6						
Sample ID: LCS-1_100430		Laboratory Control Sample				Run: TURB-2_100430A			04/30/10 12:39	
Sulfate		5030	mg/L	59	105	90	110			
Sample ID: C10040467-008AMS		Sample Matrix Spike				Run: TURB-2_100430A			04/30/10 16:53	
Sulfate		63.5	mg/L	1.2	107	90	110			
Sample ID: C10040467-008AMSD		Sample Matrix Spike Duplicate				Run: TURB-2_100430A			04/30/10 16:57	
Sulfate		62.5	mg/L	1.2	104	90	110	1.6	10	
Method: A4500-SO4 E								Batch: 100503_1_SO4-TURB-W		
Sample ID: LCS-1_100503		Laboratory Control Sample				Run: TURB-2_100503A			05/03/10 10:16	
Sulfate		5070	mg/L	59	106	90	110			
Sample ID: MBLK-1_100503		Method Blank				Run: TURB-2_100503A			05/03/10 10:18	
Sulfate		ND	mg/L	0.6						
Sample ID: C10040567-002AMS		Sample Matrix Spike				Run: TURB-2_100503A			05/03/10 11:50	
Sulfate		5430	mg/L	59	108	90	110			
Sample ID: C10040567-002AMSD		Sample Matrix Spike Duplicate				Run: TURB-2_100503A			05/03/10 11:51	
Sulfate		5340	mg/L	59	104	90	110	1.7	10	
Sample ID: C10040568-002AMS		Sample Matrix Spike				Run: TURB-2_100503A			05/03/10 12:38	
Sulfate		5380	mg/L	59	100	90	110			
Sample ID: C10040568-002AMSD		Sample Matrix Spike Duplicate				Run: TURB-2_100503A			05/03/10 12:40	
Sulfate		5260	mg/L	59	93	90	110	2.4	10	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/25/10
Work Order: C10040567

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E1632AM										Batch: H_R61766
Sample ID: H10040260-002E MS		Sample Matrix Spike				Run: SUB-H61766				04/21/10 11:50
Arsenic-III		74.4	ug/L	5.0	105	55	146			
Sample ID: H10040260-002E MSD		Sample Matrix Spike Duplicate				Run: SUB-H61766				04/21/10 11:55
Arsenic-III		71.2	ug/L	5.0	99	55	146	4.4	20	
Sample ID: C10040567-002E		Sample Duplicate				Run: SUB-H61766				04/21/10 12:21
Arsenic-III		4.17	ug/L	5.0					20	
Method: E1632AM										Batch: H_R61788
Sample ID: C10040568-001E		Sample Duplicate				Run: SUB-H61788				04/22/10 11:40
Arsenic-III		ND	ug/L	5.0					20	
Sample ID: C10040568-006E		Sample Matrix Spike				Run: SUB-H61788				04/22/10 12:27
Arsenic-III		57.3	ug/L	5.0	115	55	146			
Sample ID: C10040568-006E		Sample Matrix Spike Duplicate				Run: SUB-H61788				04/22/10 12:32
Arsenic-III		61.0	ug/L	5.0	122	55	146	6.3	20	
Sample ID: H10040261-006E MS		Sample Matrix Spike				Run: SUB-H61788				04/22/10 11:08
Arsenic-III		56.7	ug/L	5.0	113	55	146			
Sample ID: H10040261-006E MSD		Sample Matrix Spike Duplicate				Run: SUB-H61788				04/22/10 11:13
Arsenic-III		55.1	ug/L	5.0	110	55	146	2.8	20	

Qualifiers:

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Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/25/10
Work Order: C10040567

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R132003
Sample ID: MB-100426A	4	Method Blank				Run: ICP2-C_100426A				04/26/10 12:18
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-100426A	4	Laboratory Fortified Blank				Run: ICP2-C_100426A				04/26/10 12:22
Calcium		48.6	mg/L	0.50	97	85	115			
Magnesium		49.1	mg/L	0.50	98	85	115			
Potassium		45.8	mg/L	0.50	92	85	115			
Sodium		47.1	mg/L	0.50	94	85	115			
Sample ID: C10040363-001BMS2	4	Sample Matrix Spike				Run: ICP2-C_100426A				04/26/10 14:44
Calcium		912	mg/L	2.3	94	70	130			
Magnesium		1220	mg/L	1.0	97	70	130			
Potassium		444	mg/L	1.0	87	70	130			
Sodium		763	mg/L	2.9	97	70	130			
Sample ID: C10040363-001BMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_100426A				04/26/10 14:48
Calcium		896	mg/L	2.3	91	70	130	1.8	20	
Magnesium		1210	mg/L	1.0	95	70	130	0.9	20	
Potassium		449	mg/L	1.0	88	70	130	1.2	20	
Sodium		749	mg/L	2.9	95	70	130	1.9	20	
Method: E200.7										Batch: R132387
Sample ID: MB-100505A	4	Method Blank				Run: ICP2-C_100505A				05/05/10 14:18
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-100505A	4	Laboratory Fortified Blank				Run: ICP2-C_100505A				05/05/10 14:22
Calcium		47.9	mg/L	0.50	96	85	115			
Magnesium		48.4	mg/L	0.50	97	85	115			
Potassium		46.4	mg/L	0.50	93	85	115			
Sodium		46.6	mg/L	0.50	93	85	115			
Sample ID: C10040567-008BMS2	4	Sample Matrix Spike				Run: ICP2-C_100505A				05/05/10 15:14
Calcium		798	mg/L	1.1	88	70	130			
Magnesium		495	mg/L	1.0	95	70	130			
Potassium		248	mg/L	1.0	92	70	130			
Sodium		392	mg/L	1.4	97	70	130			
Sample ID: C10040567-008BMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_100505A				05/05/10 15:18
Calcium		799	mg/L	1.1	88	70	130	0.2	20	
Magnesium		491	mg/L	1.0	93	70	130	0.7	20	
Potassium		247	mg/L	1.0	92	70	130	0.5	20	
Sodium		390	mg/L	1.4	97	70	130	0.4	20	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/25/10
Work Order: C10040567

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 25905
Sample ID: MB-25905		Method Blank				Run: ICPMS2-C_100426A				04/27/10 01:25
Nickel		0.0004	mg/L	8E-05						
Sample ID: LCS3-25905		Laboratory Control Sample				Run: ICPMS2-C_100426A				04/27/10 01:32
Nickel		0.448	mg/L	0.050	90	85	115			
Sample ID: C10040660-001CMS3		Sample Matrix Spike				Run: ICPMS2-C_100426A				04/27/10 02:46
Nickel		0.535	mg/L	0.050	100	70	130			
Sample ID: C10040660-001CMSD		Sample Matrix Spike Duplicate				Run: ICPMS2-C_100426A				04/27/10 02:53
Nickel		0.545	mg/L	0.050	102	70	130	1.9	20	
Method: E200.8										Batch: R133025
Sample ID: LRB		Method Blank				Run: ICPMS2-C_100521A				05/21/10 13:17
Uranium		ND	mg/L	8E-06						
Sample ID: LFB		Laboratory Fortified Blank				Run: ICPMS2-C_100521A				05/21/10 13:24
Uranium		0.0494	mg/L	0.00030	99	85	115			
Sample ID: LFB		Laboratory Fortified Blank				Run: ICPMS2-C_100521A				05/21/10 13:51
Uranium		0.0511	mg/L	0.00030	102	85	115			
Sample ID: C10050584-010BMS4		Sample Matrix Spike				Run: ICPMS2-C_100521A				05/21/10 16:53
Uranium		0.0504	mg/L	0.00030	93	70	130			
Sample ID: C10050584-010BMSD		Sample Matrix Spike Duplicate				Run: ICPMS2-C_100521A				05/21/10 16:59
Uranium		0.0499	mg/L	0.00030	92	70	130	1	20	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/25/10
Work Order: C10040567

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: R131889	
Sample ID: LRB	10	Method Blank				Run: ICPMS4-C_100422A			04/22/10 12:24	
Aluminum		ND	mg/L	8E-05						
Beryllium		ND	mg/L	3E-05						
Cadmium		ND	mg/L	7E-05						
Cobalt		ND	mg/L	1E-05						
Lead		ND	mg/L	2E-05						
Manganese		0.0003	mg/L	2E-05						
Molybdenum		0.0003	mg/L	8E-05						
Nickel		0.0001	mg/L	5E-05						
Uranium		ND	mg/L	8E-06						
Vanadium		ND	mg/L	1E-05						
Sample ID: LFB	10	Laboratory Fortified Blank				Run: ICPMS4-C_100422A			04/22/10 12:31	
Aluminum		0.0545	mg/L	0.0010	109	85	115			
Beryllium		0.0531	mg/L	0.010	106	85	115			
Cadmium		0.0535	mg/L	0.0010	107	85	115			
Cobalt		0.0547	mg/L	0.0010	109	85	115			
Lead		0.0527	mg/L	0.0010	105	85	115			
Manganese		0.0555	mg/L	0.0010	110	85	115			
Molybdenum		0.0518	mg/L	0.0010	103	85	115			
Nickel		0.0547	mg/L	0.0010	109	85	115			
Uranium		0.0516	mg/L	0.00030	103	85	115			
Vanadium		0.0538	mg/L	0.0010	108	85	115			
Sample ID: C10040568-003CMS4	10	Sample Matrix Spike				Run: ICPMS4-C_100422A			04/22/10 12:58	
Aluminum		0.550	mg/L	0.10	85	70	130			
Beryllium		0.199	mg/L	0.010	79	70	130			
Cadmium		0.255	mg/L	0.010	102	70	130			
Cobalt		0.282	mg/L	0.010	101	70	130			
Lead		0.267	mg/L	0.050	106	70	130			
Manganese		2.74	mg/L	0.010		70	130			A
Molybdenum		0.270	mg/L	0.10	107	70	130			
Nickel		0.289	mg/L	0.050	102	70	130			
Uranium		0.272	mg/L	0.00030	108	70	130			
Vanadium		0.260	mg/L	0.10	104	70	130			
Sample ID: C10040568-003CMSD	10	Sample Matrix Spike Duplicate				Run: ICPMS4-C_100422A			04/22/10 13:05	
Aluminum		0.544	mg/L	0.10	82	70	130	1.2	20	
Beryllium		0.196	mg/L	0.010	78	70	130	1.3	20	
Cadmium		0.256	mg/L	0.010	102	70	130	0.2	20	
Cobalt		0.284	mg/L	0.010	102	70	130	0.5	20	
Lead		0.266	mg/L	0.050	106	70	130	0.5	20	
Manganese		2.76	mg/L	0.010		70	130	0.6	20	A
Molybdenum		0.272	mg/L	0.10	108	70	130	0.8	20	
Nickel		0.285	mg/L	0.050	100	70	130	1.7	20	
Uranium		0.274	mg/L	0.00030	109	70	130	0.8	20	
Vanadium		0.257	mg/L	0.10	103	70	130	1.3	20	

Qualifiers:

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ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/25/10
Work Order: C10040567

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 25905
Sample ID: MB-25905	10	Method Blank				Run: ICPMS4-C_100423A				04/24/10 12:08
Aluminum		ND	mg/L	0.0008						
Beryllium		ND	mg/L	3E-05						
Cadmium		ND	mg/L	4E-05						
Cobalt		ND	mg/L	4E-05						
Lead		6E-05	mg/L	5E-05						
Manganese		0.0006	mg/L	2E-05						
Molybdenum		0.0002	mg/L	0.00010						
Nickel		ND	mg/L	4E-05						
Uranium		ND	mg/L	4E-05						
Vanadium		0.002	mg/L	4E-05						
Sample ID: LCS3-25905	10	Laboratory Control Sample				Run: ICPMS4-C_100423A				04/24/10 12:15
Aluminum		2.20	mg/L	0.10	88	85	115			
Beryllium		0.233	mg/L	0.010	93	85	115			
Cadmium		0.250	mg/L	0.010	100	85	115			
Cobalt		0.439	mg/L	0.010	88	85	115			
Lead		0.487	mg/L	0.050	97	85	115			
Manganese		2.28	mg/L	0.010	91	85	115			
Molybdenum		0.538	mg/L	0.10	108	85	115			
Nickel		0.459	mg/L	0.050	92	85	115			
Uranium		0.524	mg/L	0.00030	105	85	115			
Vanadium		0.450	mg/L	0.10	90	85	115			
Sample ID: C10040660-001CMS3	10	Sample Matrix Spike				Run: ICPMS4-C_100423A				04/24/10 13:36
Aluminum		2.62	mg/L	0.10	104	70	130			
Beryllium		0.245	mg/L	0.010	98	70	130			
Cadmium		0.265	mg/L	0.010	106	70	130			
Cobalt		0.525	mg/L	0.010	104	70	130			
Lead		0.552	mg/L	0.050	107	70	130			
Manganese		3.16	mg/L	0.010	104	70	130			
Molybdenum		0.698	mg/L	0.10	109	70	130			
Nickel		0.534	mg/L	0.050	101	70	130			
Uranium		0.563	mg/L	0.00037	112	70	130			
Vanadium		0.522	mg/L	0.10	104	70	130			
Sample ID: C10040660-001CMSD	10	Sample Matrix Spike Duplicate				Run: ICPMS4-C_100423A				04/24/10 13:43
Aluminum		2.56	mg/L	0.10	101	70	130	2.4	20	
Beryllium		0.237	mg/L	0.010	95	70	130	3.6	20	
Cadmium		0.258	mg/L	0.010	103	70	130	2.8	20	
Cobalt		0.513	mg/L	0.010	102	70	130	2.4	20	
Lead		0.537	mg/L	0.050	104	70	130	2.7	20	
Manganese		3.08	mg/L	0.010	100	70	130	2.6	20	
Molybdenum		0.691	mg/L	0.10	108	70	130	1	20	
Nickel		0.513	mg/L	0.050	97	70	130	4	20	
Uranium		0.541	mg/L	0.00037	108	70	130	3.9	20	
Vanadium		0.507	mg/L	0.10	101	70	130	3	20	

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QA/QC Summary Report

Client: United Nuclear Corporation
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Report Date: 05/25/10
Work Order: C10040567

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: R131964A	
Sample ID: C10040778-002BMS4		Sample Matrix Spike				Run: ICPMS4-C_100423A			04/24/10 11:26	
Aluminum		0.0548	mg/L	0.0010	106	70	130			
Sample ID: C10040778-002BMSD		Sample Matrix Spike Duplicate				Run: ICPMS4-C_100423A			04/24/10 11:33	
Aluminum		0.0533	mg/L	0.0010	103	70	130	2.7	20	
Sample ID: C10040778-001CMS4		Sample Matrix Spike				Run: ICPMS4-C_100423A			04/24/10 14:45	
Aluminum		0.0532	mg/L	0.10	106	70	130			
Sample ID: C10040778-001CMSD		Sample Matrix Spike Duplicate				Run: ICPMS4-C_100423A			04/24/10 14:52	
Aluminum		0.0496	mg/L	0.0010	99	70	130	6.9	20	
Sample ID: LRB		Method Blank				Run: ICPMS4-C_100423A			04/23/10 17:13	
Aluminum		ND	mg/L	8E-05						
Sample ID: LFB		Laboratory Fortified Blank				Run: ICPMS4-C_100423A			04/23/10 17:19	
Aluminum		0.0469	mg/L	0.0010	94	85	115			

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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R131933
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100424A				04/24/10 15:37
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.03						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100424A				04/24/10 15:39
Nitrogen, Nitrate+Nitrite as N		2.48	mg/L	0.10	99	90	110			
Sample ID: C10040566-001DMS		Sample Matrix Spike				Run: TECHNICON_100424A				04/24/10 15:54
Nitrogen, Nitrate+Nitrite as N		2.01	mg/L	0.10	100	90	110			
Sample ID: C10040566-001DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100424A				04/24/10 15:56
Nitrogen, Nitrate+Nitrite as N		2.05	mg/L	0.10	102	90	110	2	10	
Sample ID: C10040567-007DMS		Sample Matrix Spike				Run: TECHNICON_100424A				04/24/10 16:32
Nitrogen, Nitrate+Nitrite as N		2.11	mg/L	0.10	105	90	110			
Sample ID: C10040567-007DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100424A				04/24/10 16:34
Nitrogen, Nitrate+Nitrite as N		2.11	mg/L	0.10	105	90	110	0	10	

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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R131758
Sample ID: 19-Apr-10_LCS_3	9	Laboratory Control Sample				Run: GCMS2_100419A				04/19/10 12:29
Bromodichloromethane		9.76	ug/L	1.0	98	70	130			
Bromoform		10.5	ug/L	1.0	105	70	130			
Chlorodibromomethane		10.2	ug/L	1.0	102	70	130			
Chloroform		10.0	ug/L	1.0	100	70	130			
Trihalomethanes, Total		40.5	ug/L	1.0	101	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	103	80	120			
Surr: Dibromofluoromethane				1.0	96	80	120			
Surr: p-Bromofluorobenzene				1.0	104	80	120			
Surr: Toluene-d8				1.0	102	80	120			
Sample ID: 19-Apr-10_MBLK_6	9	Method Blank				Run: GCMS2_100419A				04/19/10 14:15
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Trihalomethanes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichlorobenzene-d4				1.0	104	80	120			
Surr: Dibromofluoromethane				1.0	96	80	120			
Surr: p-Bromofluorobenzene				1.0	112	80	120			
Surr: Toluene-d8				1.0	101	80	120			
Sample ID: C10040568-003HMS	9	Sample Matrix Spike				Run: GCMS2_100419A				04/19/10 21:50
Bromodichloromethane		100	ug/L	10	100	70	130			
Bromoform		93.6	ug/L	10	94	70	130			
Chlorodibromomethane		98.8	ug/L	10	99	70	130			
Chloroform		109	ug/L	10	109	70	130			
Trihalomethanes, Total		401	ug/L	10	100	70	130			
Surr: 1,2-Dichlorobenzene-d4				10	102	80	120			
Surr: Dibromofluoromethane				10	109	80	120			
Surr: p-Bromofluorobenzene				10	103	80	120			
Surr: Toluene-d8				10	106	80	120			
Sample ID: C10040568-003HMSD	9	Sample Matrix Spike Duplicate				Run: GCMS2_100419A				04/19/10 22:25
Bromodichloromethane		103	ug/L	10	103	70	130	2.8	20	
Bromoform		101	ug/L	10	101	70	130	7.8	20	
Chlorodibromomethane		104	ug/L	10	104	70	130	5.5	20	
Chloroform		114	ug/L	10	114	70	130	5	20	
Trihalomethanes, Total		423	ug/L	10	106	70	130	5.2	20	
Surr: 1,2-Dichlorobenzene-d4				10	105	80	120			
Surr: Dibromofluoromethane				10	110	80	120			
Surr: p-Bromofluorobenzene				10	105	80	120			
Surr: Toluene-d8				10	105	80	120			

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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.1										Batch: GA-0316
Sample ID: MB-GA-0316	3	Method Blank				Run: G542M_100423A				04/26/10 12:24
Gross Alpha minus Rn & U		-0.2	pCi/L							U
Gross Alpha minus Rn & U Precision (±)		0.3	pCi/L							
Gross Alpha minus Rn & U MDC		0.5	pCi/L							
Sample ID: LCS-GA-0316		Laboratory Control Sample				Run: G542M_100423A				04/26/10 12:24
Gross Alpha minus Rn & U		25.2	pCi/L		96	70	130			
Sample ID: C10040567-001GMS		Sample Matrix Spike				Run: G542M_100423A				04/26/10 12:24
Gross Alpha minus Rn & U		39.3	pCi/L		77	70	130			
Sample ID: C10040567-001GMSD		Sample Matrix Spike Duplicate				Run: G542M_100423A				04/26/10 12:24
Gross Alpha minus Rn & U		39.5	pCi/L		77	70	130	0.5	21.3	

Qualifiers:

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U - Not detected at minimum detectable concentration

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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: RA226-4480
Sample ID: C10040556-001GMS		Sample Matrix Spike				Run: BERTHOLD 770-2_100419A				05/01/10 19:30
Radium 226		17.4	pCi/L		102	70	130			
Sample ID: C10040556-001GMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-2_100419A				05/01/10 19:30
Radium 226		19.4	pCi/L		116	70	130	11	25.1	
Sample ID: MB-RA226-4480	3	Method Blank				Run: BERTHOLD 770-2_100419A				05/01/10 19:30
Radium 226		-0.1	pCi/L							U
Radium 226 precision (±)		0.09	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4480		Laboratory Control Sample				Run: BERTHOLD 770-2_100419A				05/01/10 19:30
Radium 226		8.1	pCi/L		105	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/25/10
Work Order: C10040567

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: RA-TH-ISO-1147	
Sample ID: LCS-RA-TH-ISO-1147		Laboratory Control Sample				Run: EGG-ORTEC_100419B			04/21/10 08:57	
Thorium 230		4.86	pCi/L		89	70	130			
Sample ID: C10040568-004GMS		Sample Matrix Spike				Run: EGG-ORTEC_100419B			04/21/10 13:22	
Thorium 230		13.1	pCi/L		95	70	130			
Sample ID: C10040568-004GMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_100419B			04/21/10 13:22	
Thorium 230		13.1	pCi/L		97	70	130	0.1	30	
Sample ID: MB-RA-TH-ISO-1147	3	Method Blank				Run: EGG-ORTEC_100419B			04/21/10 17:06	
Thorium 230		0.01	pCi/L							U
Thorium 230 precision (±)		0.02	pCi/L							
Thorium 230 MDC		0.05	pCi/L							
Method: E907.0									Batch: RA-TH-ISO-1152	
Sample ID: LCS-RA-TH-ISO-1152		Laboratory Control Sample				Run: EGG-ORTEC_100423A			04/26/10 14:55	
Thorium 230		5.0	pCi/L		94	70	130			
Sample ID: C10040600-001DMS		Sample Matrix Spike				Run: EGG-ORTEC_100423A			04/26/10 14:55	
Thorium 230		13	pCi/L		103	70	130			
Sample ID: C10040600-001DMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_100423A			04/26/10 14:55	
Thorium 230		14	pCi/L		109	70	130	7.2	28.3	
Sample ID: MB-RA-TH-ISO-1152	3	Method Blank				Run: EGG-ORTEC_100423A			04/26/10 14:55	
Thorium 230		0.006	pCi/L							U
Thorium 230 precision (±)		0.04	pCi/L							
Thorium 230 MDC		0.08	pCi/L							

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/25/10
Work Order: C10040567

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M									Batch: PB-210-0692	
Sample ID: MB-PB-210-0692	3	Method Blank				Run: BECKMAN 6100TA_100426B			05/07/10 14:11	
Lead 210		-1	pCi/L							U
Lead 210 precision (±)		4	pCi/L							
Lead 210 MDC		7	pCi/L							
Sample ID: LCS-PB-210-0692		Laboratory Control Sample				Run: BECKMAN 6100TA_100426B			05/07/10 16:13	
Lead 210		120	pCi/L		110	70	130			
Method: E909.0M									Batch: PB-210-0704	
Sample ID: C09110241-001DMS		Sample Matrix Spike				Run: PACKARD 3100TR_100514A			05/19/10 17:16	
Lead 210		340	pCi/L		94	70	130			
Sample ID: C09110241-001DMSD		Sample Matrix Spike Duplicate				Run: PACKARD 3100TR_100514A			05/19/10 19:18	
Lead 210		360	pCi/L		99	70	130	5.6	18.3	
Sample ID: MB-PB-210-0704	3	Method Blank				Run: PACKARD 3100TR_100514A			05/19/10 21:21	
Lead 210		3	pCi/L							U
Lead 210 precision (±)		3	pCi/L							
Lead 210 MDC		6	pCi/L							
Sample ID: LCS-PB-210-0704		Laboratory Control Sample				Run: PACKARD 3100TR_100514A			05/19/10 23:24	
Lead 210		130	pCi/L		117	70	130			

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/25/10
Work Order: C10040567

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-3159
Sample ID: LCS-228-RA226-4480		Laboratory Control Sample				Run: TENNELEC-3_100419A				04/26/10 15:35
Radium 228		8.0	pCi/L		98	70	130			
Sample ID: MB-RA226-4480	3	Method Blank				Run: TENNELEC-3_100419A				04/26/10 15:35
Radium 228		0.3	pCi/L							U
Radium 228 precision (±)		0.8	pCi/L							
Radium 228 MDC		1	pCi/L							
Sample ID: C10040556-001GMS		Sample Matrix Spike				Run: TENNELEC-3_100419A				04/26/10 15:35
Radium 228		16	pCi/L		88	70	130			
Sample ID: C10040556-001GMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_100419A				04/26/10 15:35
Radium 228		17	pCi/L		96	70	130	7.7	36	

Qualifiers:

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ANALYTICAL SUMMARY REPORT

April 28, 2010

United Nuclear Corporation
21 Miles NE Of Gallup
Gallup, NM 87305

Workorder No.: C10040572

Project Name: Zone 3

Energy Laboratories, Inc. received the following 7 samples for United Nuclear Corporation on 4/16/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C10040572-001	NW-2	04/14/10 08:42	04/16/10	Aqueous	Alkalinity E300.0 Anions pH Solids, Total Dissolved
C10040572-002	NW-4	04/14/10 09:00	04/16/10	Aqueous	Same As Above
C10040572-003	NW-1	04/14/10 09:20	04/16/10	Aqueous	Same As Above
C10040572-004	NW-5	04/14/10 09:40	04/16/10	Aqueous	Same As Above
C10040572-005	NW-3	04/14/10 09:55	04/16/10	Aqueous	Same As Above
C10040572-006	RW-A	04/14/10 10:45	04/16/10	Aqueous	Same As Above
C10040572-007	NBL-2	04/13/10 12:45	04/16/10	Aqueous	Same As Above

Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By: Stephanie D. Waldrop

Stephanie D. Waldrop
Reporting Supervisor

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 04/28/10
Work Order: C10040572

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R131947
Sample ID: MBLK	2	Method Blank				Run: MANTECH_100424A				04/24/10 14:28
Alkalinity, Total as CaCO3		2	mg/L	1						
Bicarbonate as HCO3		2	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_100424A				04/24/10 14:48
Alkalinity, Total as CaCO3		213	mg/L	5.0	105	90	110			
Sample ID: LCS		Laboratory Control Sample				Run: MANTECH_100424A				04/24/10 14:57
Alkalinity, Total as CaCO3		54.7	mg/L	5.0	106	90	110			
Sample ID: C10040575-001AMS		Sample Matrix Spike				Run: MANTECH_100424A				04/24/10 20:57
Alkalinity, Total as CaCO3		335	mg/L	5.0	105	80	120			
Sample ID: C10040575-001AMSD		Sample Matrix Spike Duplicate				Run: MANTECH_100424A				04/24/10 21:06
Alkalinity, Total as CaCO3		342	mg/L	5.0	111	80	120	2.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 04/28/10
Work Order: C10040572

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: 100419_1_SLDS-TDS-W	
Sample ID: MBLK1_100419		Method Blank				Run: BAL-1_100419A			04/19/10 09:18	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_100419		Laboratory Control Sample				Run: BAL-1_100419A			04/19/10 09:18	
Solids, Total Dissolved TDS @ 180 C		992	mg/L	10	99	90	110			
Sample ID: C10040572-006AMS		Sample Matrix Spike				Run: BAL-1_100419A			04/19/10 09:20	
Solids, Total Dissolved TDS @ 180 C		6020	mg/L	10	104	90	110			
Sample ID: C10040572-006AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_100419A			04/19/10 09:20	
Solids, Total Dissolved TDS @ 180 C		6090	mg/L	10	108	90	110	1.2	10	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 04/28/10
Work Order: C10040572

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_100419A		
Sample ID: ICV1_100419_1		Initial Calibration Verification Standard							04/19/10 08:46	
pH		6.85	s.u.	0.010	100	98	102			
Method: A4500-H B								Batch: 100419_1_PH-W_555A-2		
Sample ID: C10040572-006ADUP		Sample Duplicate				Run: ORION555A-2_100419A			04/19/10 09:19	
pH		6.45	s.u.	0.010				0.2	10	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 04/28/10
Work Order: C10040572

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0										Batch: R131932
Sample ID: LCS		Laboratory Control Sample				Run: IC1-C_100423A				04/23/10 15:25
Chloride		9.68	mg/L	1.0	97	90	110			
Sample ID: MBLK		Method Blank				Run: IC1-C_100423A				04/23/10 15:41
Chloride		ND	mg/L	0.01						
Sample ID: C10040525-004AMS		Sample Matrix Spike				Run: IC1-C_100423A				04/23/10 17:29
Chloride		125	mg/L	1.0	103	80	120			
Sample ID: C10040525-004AMSD		Sample Matrix Spike Duplicate				Run: IC1-C_100423A				04/23/10 17:44
Chloride		126	mg/L	1.0	104	80	120	0.7	20	
Sample ID: C10040575-003AMS		Sample Matrix Spike				Run: IC1-C_100423A				04/23/10 21:04
Chloride		77.0	mg/L	1.0	105	80	120			
Sample ID: C10040575-003AMSD		Sample Matrix Spike Duplicate				Run: IC1-C_100423A				04/23/10 21:20
Chloride		76.3	mg/L	1.0	104	80	120	0.9	20	
Method: E300.0										Batch: R131905
Sample ID: LCS		Laboratory Control Sample				Run: IC2-C_100422A				04/22/10 18:39
Chloride		9.91	mg/L	1.0	99	90	110			
Sample ID: MBLK		Method Blank				Run: IC2-C_100422A				04/22/10 18:56
Chloride		ND	mg/L	0.04						
Sample ID: C10040575-003AMS		Sample Matrix Spike				Run: IC2-C_100422A				04/23/10 01:02
Chloride		73.7	mg/L	1.0	98	80	120			
Sample ID: C10040575-003AMSD		Sample Matrix Spike Duplicate				Run: IC2-C_100422A				04/23/10 01:19
Chloride		74.3	mg/L	1.0	99	80	120	0.8	20	

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ANALYTICAL SUMMARY REPORT

May 25, 2010

United Nuclear Corporation
21 Miles NE Of Gallup
Gallup, NM 87305

Workorder No.: C10040571 Quote ID: C129 - Quarterly Long List

Project Name: Zone 3

Energy Laboratories, Inc. received the following 4 samples for United Nuclear Corporation on 4/16/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C10040571-001	PB-3	04/13/10 14:30	04/16/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Chloride Arsenic Speciation Selenium-IV, Total Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Metals Preparation by EPA 200.2 Gross Alpha minus Rn222 and Uranium Lead 210, Total Radium 226, Total Radium 228, Total Thorium, Isotopic Solids, Total Dissolved Sulfate E624 Purgeable Organics
C10040571-002	PB-4	04/13/10 15:10	04/16/10	Aqueous	Same As Above
C10040571-003	PB-2	04/13/10 15:45	04/16/10	Aqueous	Same As Above
C10040571-004	Field Blank	04/13/10 16:30	04/16/10	Aqueous	Same As Above

Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By: Stephanie D. Waldrop

Stephanie D. Waldrop
Reporting Supervisor

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CLIENT: United Nuclear Corporation
Project: Zone 3
Sample Delivery Group: C10040571

Report Date: 05/25/10

CASE NARRATIVE

PB210 ANALYSIS
The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

BRANCH LABORATORY SUBCONTRACT ANALYSIS
Tests Associated with Analyst identified as ELI-H were subcontracted to Energy Laboratories Helena Branch, EPA Number MT00945.

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/25/10
Work Order: C10040571

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R131947
Sample ID: MBLK	2	Method Blank				Run: MANTECH_100424A				04/24/10 14:28
Alkalinity, Total as CaCO3		2	mg/L	1						
Bicarbonate as HCO3		2	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample				Run: MANTECH_100424A				04/24/10 14:48
Alkalinity, Total as CaCO3		213	mg/L	5.0	105	90	110			
Sample ID: LCS		Laboratory Control Sample				Run: MANTECH_100424A				04/24/10 14:57
Alkalinity, Total as CaCO3		54.7	mg/L	5.0	106	90	110			
Sample ID: C10040571-004AMS		Sample Matrix Spike				Run: MANTECH_100424A				04/24/10 19:27
Alkalinity, Total as CaCO3		143	mg/L	5.0	110	80	120			
Sample ID: C10040571-004AMSD		Sample Matrix Spike Duplicate				Run: MANTECH_100424A				04/24/10 19:35
Alkalinity, Total as CaCO3		143	mg/L	5.0	110	80	120	0.1	20	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/25/10
Work Order: C10040571

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: 100419_1_SLDS-TDS-W	
Sample ID: MBLK1_100419		Method Blank				Run: BAL-1_100419A			04/19/10 09:18	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_100419		Laboratory Control Sample				Run: BAL-1_100419A			04/19/10 09:18	
Solids, Total Dissolved TDS @ 180 C		992	mg/L	10	99	90	110			
Sample ID: C10040572-006AMS		Sample Matrix Spike				Run: BAL-1_100419A			04/19/10 09:20	
Solids, Total Dissolved TDS @ 180 C		6020	mg/L	10	104	90	110			
Sample ID: C10040572-006AMSD		Sample Matrix Spike Duplicate				Run: BAL-1_100419A			04/19/10 09:20	
Solids, Total Dissolved TDS @ 180 C		6090	mg/L	10	108	90	110	1.2	10	

Qualifiers:

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MDC - Minimum detectable concentration
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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/25/10
Work Order: C10040571

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Batch: SE3114-100419A	
Sample ID: MBLK		Method Blank				Run: CVAA-C202_100419A			04/19/10 10:17	
Selenium-IV		0.0004	mg/L	0.0002						
Sample ID: As/Se 1.0ppm-Q 0415		Laboratory Control Sample				Run: CVAA-C202_100419A			04/19/10 10:19	
Selenium-IV		0.0461	mg/L	0.0010	91	90	110			
Sample ID: C10040568-001CMS		Sample Matrix Spike				Run: CVAA-C202_100419A			04/19/10 11:01	
Selenium-IV		0.0436	mg/L	0.0010	87	85	115			
Sample ID: C10040568-001CMSD		Sample Matrix Spike Duplicate				Run: CVAA-C202_100419A			04/19/10 11:03	
Selenium-IV		0.0441	mg/L	0.0010	88	85	115	1.2	10	

Qualifiers:

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/25/10
Work Order: C10040571

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-Cl B									Batch: 100503A-CL-TTR-W	
Sample ID: MBLK9-100503A		Method Blank				Run: TITRATION_100503A			05/03/10 12:07	
Chloride		ND	mg/L	0.4						
Sample ID: C10040568-003AMS		Sample Matrix Spike				Run: TITRATION_100503A			05/03/10 13:37	
Chloride		391	mg/L	1.0	100	90	110			
Sample ID: C10040568-003AMSD		Sample Matrix Spike Duplicate				Run: TITRATION_100503A			05/03/10 13:40	
Chloride		391	mg/L	1.0	100	90	110	0	10	
Sample ID: LCS35-100503A		Laboratory Control Sample				Run: TITRATION_100503A			05/03/10 14:26	
Chloride		3470	mg/L	1.0	98	90	110			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/25/10
Work Order: C10040571

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_100419A		
Sample ID: ICV1_100419_1		Initial Calibration Verification Standard							04/19/10 08:46	
pH		6.85	s.u.	0.010	100	98	102			
Method: A4500-H B								Batch: 100419_1_PH-W_555A-2		
Sample ID: C10040572-006ADUP		Sample Duplicate				Run: ORION555A-2_100419A			04/19/10 09:19	
pH		6.45	s.u.	0.010				0.2	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/25/10
Work Order: C10040571

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R132058
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100427A				04/27/10 14:31
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100427A				04/27/10 14:33
Nitrogen, Ammonia as N		20.9	mg/L	0.20	104	80	120			
Sample ID: C10040568-004DMS		Sample Matrix Spike				Run: TECHNICON_100427A				04/27/10 15:15
Nitrogen, Ammonia as N		2.75	mg/L	0.050	117	80	120			
Sample ID: C10040568-004DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100427A				04/27/10 15:17
Nitrogen, Ammonia as N		2.66	mg/L	0.050	112	80	120	3.3	20	

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QA/QC Summary Report

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Work Order: C10040571

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-SO4 E									Batch: 100503_1_SO4-TURB-W	
Sample ID: LCS-1_100503		Laboratory Control Sample				Run: TURB-2_100503A			05/03/10 10:16	
Sulfate		5070	mg/L	59	106	90	110			
Sample ID: MBLK-1_100503		Method Blank				Run: TURB-2_100503A			05/03/10 10:18	
Sulfate		ND	mg/L	0.6						
Sample ID: C10040568-002AMS		Sample Matrix Spike				Run: TURB-2_100503A			05/03/10 12:38	
Sulfate		5380	mg/L	59	100	90	110			
Sample ID: C10040568-002AMSD		Sample Matrix Spike Duplicate				Run: TURB-2_100503A			05/03/10 12:40	
Sulfate		5260	mg/L	59	93	90	110	2.4	10	
Method: A4500-SO4 E									Batch: 100525_1_SO4-TURB-W	
Sample ID: LCS-1_100525		Laboratory Control Sample				Run: TURB-2_100525A			05/25/10 11:06	
Sulfate		5070	mg/L	59	106	90	110			
Sample ID: MBLK-1_100525		Method Blank				Run: TURB-2_100525A			05/25/10 11:09	
Sulfate		ND	mg/L	0.6						
Sample ID: C10050103-002AMS		Sample Matrix Spike				Run: TURB-2_100525A			05/25/10 12:03	
Sulfate		2110	mg/L	30	103	90	110			
Sample ID: C10050103-002AMSD		Sample Matrix Spike Duplicate				Run: TURB-2_100525A			05/25/10 12:02	
Sulfate		2090	mg/L	30	101	90	110			

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QA/QC Summary Report

Client: United Nuclear Corporation
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Report Date: 05/25/10
Work Order: C10040571

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E1632AM									Analytical Run: SUB-H61766	
Sample ID: ICB_13r		Initial Calibration Blank, Instrument Blank							04/21/10 11:13	
Arsenic-III		ND	ug/L	5.0		0	0			
Method: E1632AM									Batch: H_R61766	
Sample ID: AS100421-LFB		Laboratory Fortified Blank				Run: SUB-H61766			04/21/10 11:18	
Arsenic-III		54.7	ug/L	5.0	109	55	146			
Sample ID: H10040260-002E MS		Sample Matrix Spike				Run: SUB-H61766			04/21/10 11:50	
Arsenic-III		74.4	ug/L	5.0	105	55	146			
Sample ID: H10040260-002E MSD		Sample Matrix Spike Duplicate				Run: SUB-H61766			04/21/10 11:55	
Arsenic-III		71.2	ug/L	5.0	99	55	146	4.4	20	
Method: E1632AM									Analytical Run: SUB-H61788	
Sample ID: ICB_13r		Initial Calibration Blank, Instrument Blank							04/22/10 10:37	
Arsenic-III		ND	ug/L	5.0		0	0			
Method: E1632AM									Batch: H_R61788	
Sample ID: AS100422-LFB		Laboratory Fortified Blank				Run: SUB-H61788			04/22/10 10:42	
Arsenic-III		57.0	ug/L	5.0	114	55	146			
Sample ID: C10040568-006E		Sample Matrix Spike				Run: SUB-H61788			04/22/10 12:27	
Arsenic-III		57.3	ug/L	5.0	115	55	146			
Sample ID: C10040568-006E		Sample Matrix Spike Duplicate				Run: SUB-H61788			04/22/10 12:32	
Arsenic-III		61.0	ug/L	5.0	122	55	146	6.3	20	

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QA/QC Summary Report

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Report Date: 05/25/10
Work Order: C10040571

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R132079
Sample ID: MB-100427A	4	Method Blank				Run: ICP2-C_100427A				04/27/10 12:26
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-100427A	4	Laboratory Fortified Blank				Run: ICP2-C_100427A				04/27/10 12:37
Calcium		49.7	mg/L	0.50	99	85	115			
Magnesium		51.1	mg/L	0.50	102	85	115			
Potassium		46.9	mg/L	0.50	94	85	115			
Sodium		48.4	mg/L	0.50	97	85	115			
Sample ID: C10040582-002CMS2	4	Sample Matrix Spike				Run: ICP2-C_100427A				04/27/10 16:21
Calcium		342	mg/L	1.0	94	70	130			
Magnesium		106	mg/L	1.0	88	70	130			
Potassium		90.5	mg/L	1.0	85	70	130			
Sodium		155	mg/L	1.0	90	70	130			
Sample ID: C10040582-002CMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_100427A				04/27/10 16:25
Calcium		342	mg/L	1.0	94	70	130	0.1	20	
Magnesium		108	mg/L	1.0	90	70	130	2.3	20	
Potassium		94.8	mg/L	1.0	89	70	130	4.6	20	
Sodium		157	mg/L	1.0	92	70	130	1.3	20	
Method: E200.7										Batch: R132387
Sample ID: MB-100505A	4	Method Blank				Run: ICP2-C_100505A				05/05/10 14:18
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-100505A	4	Laboratory Fortified Blank				Run: ICP2-C_100505A				05/05/10 14:22
Calcium		47.9	mg/L	0.50	96	85	115			
Magnesium		48.4	mg/L	0.50	97	85	115			
Potassium		46.4	mg/L	0.50	93	85	115			
Sodium		46.6	mg/L	0.50	93	85	115			
Sample ID: C10040567-008BMS2	4	Sample Matrix Spike				Run: ICP2-C_100505A				05/05/10 15:14
Calcium		798	mg/L	1.1	88	70	130			
Magnesium		495	mg/L	1.0	95	70	130			
Potassium		248	mg/L	1.0	92	70	130			
Sodium		392	mg/L	1.4	97	70	130			
Sample ID: C10040567-008BMSD	4	Sample Matrix Spike Duplicate				Run: ICP2-C_100505A				05/05/10 15:18
Calcium		799	mg/L	1.1	88	70	130	0.2	20	
Magnesium		491	mg/L	1.0	93	70	130	0.7	20	
Potassium		247	mg/L	1.0	92	70	130	0.5	20	
Sodium		390	mg/L	1.4	97	70	130	0.4	20	

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/25/10
Work Order: C10040571

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 25905
Sample ID: MB-25905		Method Blank				Run: ICPMS2-C_100426A				04/27/10 01:25
Nickel		0.0004	mg/L	8E-05						
Sample ID: LCS3-25905		Laboratory Control Sample				Run: ICPMS2-C_100426A				04/27/10 01:32
Nickel		0.448	mg/L	0.050	90	85	115			
Sample ID: C10040660-001CMS3		Sample Matrix Spike				Run: ICPMS2-C_100426A				04/27/10 02:46
Nickel		0.535	mg/L	0.050	100	70	130			
Sample ID: C10040660-001CMSD		Sample Matrix Spike Duplicate				Run: ICPMS2-C_100426A				04/27/10 02:53
Nickel		0.545	mg/L	0.050	102	70	130	1.9	20	

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QA/QC Summary Report

Client: United Nuclear Corporation
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Report Date: 05/25/10
Work Order: C10040571

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: R131889	
Sample ID: LRB	10	Method Blank				Run: ICPMS4-C_100422A			04/22/10 12:24	
Aluminum		ND	mg/L	8E-05						
Beryllium		ND	mg/L	3E-05						
Cadmium		ND	mg/L	7E-05						
Cobalt		ND	mg/L	1E-05						
Lead		ND	mg/L	2E-05						
Manganese		0.0003	mg/L	2E-05						
Molybdenum		0.0003	mg/L	8E-05						
Nickel		0.0001	mg/L	5E-05						
Uranium		ND	mg/L	8E-06						
Vanadium		ND	mg/L	1E-05						
Sample ID: LFB	10	Laboratory Fortified Blank				Run: ICPMS4-C_100422A			04/22/10 12:31	
Aluminum		0.0545	mg/L	0.0010	109	85	115			
Beryllium		0.0531	mg/L	0.010	106	85	115			
Cadmium		0.0535	mg/L	0.0010	107	85	115			
Cobalt		0.0547	mg/L	0.0010	109	85	115			
Lead		0.0527	mg/L	0.0010	105	85	115			
Manganese		0.0555	mg/L	0.0010	110	85	115			
Molybdenum		0.0518	mg/L	0.0010	103	85	115			
Nickel		0.0547	mg/L	0.0010	109	85	115			
Uranium		0.0516	mg/L	0.00030	103	85	115			
Vanadium		0.0538	mg/L	0.0010	108	85	115			
Sample ID: C10040582-011CMS4	10	Sample Matrix Spike				Run: ICPMS4-C_100422A			04/22/10 21:18	
Aluminum		0.0582	mg/L	0.0010	116	70	130			
Beryllium		0.0490	mg/L	0.010	98	70	130			
Cadmium		0.0499	mg/L	0.010	100	70	130			
Cobalt		0.0955	mg/L	0.010	101	70	130			
Lead		0.0527	mg/L	0.050	105	70	130			
Manganese		0.510	mg/L	0.010		70	130			A
Molybdenum		0.0501	mg/L	0.0010	99	70	130			
Nickel		0.0979	mg/L	0.050	99	70	130			
Uranium		0.0898	mg/L	0.00030	103	70	130			
Vanadium		0.0520	mg/L	0.0010	104	70	130			
Sample ID: C10040582-011CMSD	10	Sample Matrix Spike Duplicate				Run: ICPMS4-C_100422A			04/22/10 21:25	
Aluminum		0.0475	mg/L	0.0010	95	70	130	20	20	R
Beryllium		0.0479	mg/L	0.010	96	70	130	2.2	20	
Cadmium		0.0497	mg/L	0.010	99	70	130	0.6	20	
Cobalt		0.0934	mg/L	0.010	97	70	130	2.2	20	
Lead		0.0524	mg/L	0.050	105	70	130	0.6	20	
Manganese		0.507	mg/L	0.010		70	130	0.6	20	A
Molybdenum		0.0506	mg/L	0.0010	101	70	130	1.2	20	
Nickel		0.0956	mg/L	0.050	94	70	130	2.4	20	
Uranium		0.0883	mg/L	0.00030	100	70	130	1.8	20	
Vanadium		0.0514	mg/L	0.0010	103	70	130	1.2	20	

Qualifiers:

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R - RPD exceeds advisory limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/25/10
Work Order: C10040571

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 25905
Sample ID: MB-25905	9	Method Blank				Run: ICPMS4-C_100423A				04/24/10 12:08
Aluminum		ND	mg/L	0.0008						
Beryllium		ND	mg/L	3E-05						
Cadmium		ND	mg/L	4E-05						
Cobalt		ND	mg/L	4E-05						
Lead		6E-05	mg/L	5E-05						
Manganese		0.0006	mg/L	2E-05						
Molybdenum		0.0002	mg/L	0.00010						
Uranium		ND	mg/L	4E-05						
Vanadium		0.002	mg/L	4E-05						
Sample ID: LCS3-25905	9	Laboratory Control Sample				Run: ICPMS4-C_100423A				04/24/10 12:15
Aluminum		2.20	mg/L	0.10	88	85	115			
Beryllium		0.233	mg/L	0.010	93	85	115			
Cadmium		0.250	mg/L	0.010	100	85	115			
Cobalt		0.439	mg/L	0.010	88	85	115			
Lead		0.487	mg/L	0.050	97	85	115			
Manganese		2.28	mg/L	0.010	91	85	115			
Molybdenum		0.538	mg/L	0.10	108	85	115			
Uranium		0.524	mg/L	0.00030	105	85	115			
Vanadium		0.450	mg/L	0.10	90	85	115			
Sample ID: C10040660-001CMS3	9	Sample Matrix Spike				Run: ICPMS4-C_100423A				04/24/10 13:36
Aluminum		2.62	mg/L	0.10	104	70	130			
Beryllium		0.245	mg/L	0.010	98	70	130			
Cadmium		0.265	mg/L	0.010	106	70	130			
Cobalt		0.525	mg/L	0.010	104	70	130			
Lead		0.552	mg/L	0.050	107	70	130			
Manganese		3.16	mg/L	0.010	104	70	130			
Molybdenum		0.698	mg/L	0.10	109	70	130			
Uranium		0.563	mg/L	0.00037	112	70	130			
Vanadium		0.522	mg/L	0.10	104	70	130			
Sample ID: C10040660-001CMSD	9	Sample Matrix Spike Duplicate				Run: ICPMS4-C_100423A				04/24/10 13:43
Aluminum		2.56	mg/L	0.10	101	70	130	2.4	20	
Beryllium		0.237	mg/L	0.010	95	70	130	3.6	20	
Cadmium		0.258	mg/L	0.010	103	70	130	2.8	20	
Cobalt		0.513	mg/L	0.010	102	70	130	2.4	20	
Lead		0.537	mg/L	0.050	104	70	130	2.7	20	
Manganese		3.08	mg/L	0.010	100	70	130	2.6	20	
Molybdenum		0.691	mg/L	0.10	108	70	130	1	20	
Uranium		0.541	mg/L	0.00037	108	70	130	3.9	20	
Vanadium		0.507	mg/L	0.10	101	70	130	3	20	

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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R131933
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100424A				04/24/10 15:37
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.03						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100424A				04/24/10 15:39
Nitrogen, Nitrate+Nitrite as N		2.48	mg/L	0.10	99	90	110			
Sample ID: C10040571-001DMS		Sample Matrix Spike				Run: TECHNICON_100424A				04/24/10 17:12
Nitrogen, Nitrate+Nitrite as N		2.11	mg/L	0.10	102	90	110			
Sample ID: C10040571-001DMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100424A				04/24/10 17:14
Nitrogen, Nitrate+Nitrite as N		2.12	mg/L	0.10	103	90	110	0.5	10	

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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624										Batch: R131758
Sample ID: 19-Apr-10_LCS_3	9	Laboratory Control Sample				Run: GCMS2_100419A				04/19/10 12:29
Bromodichloromethane		9.76	ug/L	1.0	98	70	130			
Bromoform		10.5	ug/L	1.0	105	70	130			
Chlorodibromomethane		10.2	ug/L	1.0	102	70	130			
Chloroform		10.0	ug/L	1.0	100	70	130			
Trihalomethanes, Total		40.5	ug/L	1.0	101	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	103	80	120			
Surr: Dibromofluoromethane				1.0	96	80	120			
Surr: p-Bromofluorobenzene				1.0	104	80	120			
Surr: Toluene-d8				1.0	102	80	120			
Sample ID: 19-Apr-10_MBLK_6	9	Method Blank				Run: GCMS2_100419A				04/19/10 14:15
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Trihalomethanes, Total		ND	ug/L	1.0						
Surr: 1,2-Dichlorobenzene-d4				1.0	104	80	120			
Surr: Dibromofluoromethane				1.0	96	80	120			
Surr: p-Bromofluorobenzene				1.0	112	80	120			
Surr: Toluene-d8				1.0	101	80	120			
Sample ID: C10040568-003HMS	9	Sample Matrix Spike				Run: GCMS2_100419A				04/19/10 21:50
Bromodichloromethane		100	ug/L	10	100	70	130			
Bromoform		93.6	ug/L	10	94	70	130			
Chlorodibromomethane		98.8	ug/L	10	99	70	130			
Chloroform		109	ug/L	10	109	70	130			
Trihalomethanes, Total		401	ug/L	10	100	70	130			
Surr: 1,2-Dichlorobenzene-d4				10	102	80	120			
Surr: Dibromofluoromethane				10	109	80	120			
Surr: p-Bromofluorobenzene				10	103	80	120			
Surr: Toluene-d8				10	106	80	120			
Sample ID: C10040568-003HMSD	9	Sample Matrix Spike Duplicate				Run: GCMS2_100419A				04/19/10 22:25
Bromodichloromethane		103	ug/L	10	103	70	130	2.8	20	
Bromoform		101	ug/L	10	101	70	130	7.8	20	
Chlorodibromomethane		104	ug/L	10	104	70	130	5.5	20	
Chloroform		114	ug/L	10	114	70	130	5	20	
Trihalomethanes, Total		423	ug/L	10	106	70	130	5.2	20	
Surr: 1,2-Dichlorobenzene-d4				10	105	80	120			
Surr: Dibromofluoromethane				10	110	80	120			
Surr: p-Bromofluorobenzene				10	105	80	120			
Surr: Toluene-d8				10	105	80	120			

Qualifiers:

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ENERGY LABORATORIES, INC. • 2393 Salt Creek Highway (82601) • P.O. Box 3258 • Casper, WY 82602
Toll Free 888.235.0515 • 307.235.0515 • Fax 307.234.1639 • casper@energylab.com • www.energylab.com

QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/25/10
Work Order: C10040571

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.1										Batch: GA-0317
Sample ID: MB-GA-0317	3	Method Blank				Run: G542M_100429A				05/03/10 12:54
Gross Alpha minus Rn & U		-0.2	pCi/L							U
Gross Alpha minus Rn & U Precision (±)		0.2	pCi/L							
Gross Alpha minus Rn & U MDC		0.5	pCi/L							
Sample ID: LCS-GA-0317		Laboratory Control Sample				Run: G542M_100429A				05/03/10 12:54
Gross Alpha minus Rn & U		25.7	pCi/L		98	70	130			
Sample ID: C10040571-004GMS		Sample Matrix Spike				Run: G542M_100429A				05/03/10 12:54
Gross Alpha minus Rn & U		28.1	pCi/L		107	70	130			
Sample ID: C10040571-004GMSD		Sample Matrix Spike Duplicate				Run: G542M_100429A				05/03/10 12:54
Gross Alpha minus Rn & U		27.4	pCi/L		104	70	130	2.4	23	

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QA/QC Summary Report

Client: United Nuclear Corporation
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Report Date: 05/25/10
Work Order: C10040571

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: RA226-4487
Sample ID: C10040571-001GMS		Sample Matrix Spike				Run: BERTHOLD 770-2_100421D			05/03/10 12:41	
Radium 226		24	pCi/L		100	70	130			
Sample ID: C10040571-001GMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-2_100421D			05/03/10 12:41	
Radium 226		23	pCi/L		98	70	130	2.2	22.8	
Sample ID: MB-RA226-4487	3	Method Blank				Run: BERTHOLD 770-2_100421D			05/03/10 14:13	
Radium 226		-0.1	pCi/L							U
Radium 226 precision (±)		0.08	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4487		Laboratory Control Sample				Run: BERTHOLD 770-2_100421D			05/03/10 14:13	
Radium 226		8.2	pCi/L		105	70	130			

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/25/10
Work Order: C10040571

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0										Batch: RA-TH-ISO-1148
Sample ID: LCS-RA-TH-ISO-1148		Laboratory Control Sample				Run: EGG-ORTEC_100420A				04/22/10 09:11
Thorium 230		5.6	pCi/L		101	70	130			
Sample ID: C10040582-011DMS		Sample Matrix Spike				Run: EGG-ORTEC_100420A				04/22/10 15:28
Thorium 230		12	pCi/L		94	70	130			
Sample ID: C10040582-011DMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_100420A				04/22/10 15:28
Thorium 230		12	pCi/L		98	70	130	2.3	33.1	
Sample ID: MB-RA-TH-ISO-1148	3	Method Blank				Run: EGG-ORTEC_100420A				04/22/10 15:28
Thorium 230		-0.02	pCi/L							U
Thorium 230 precision (±)		0.03	pCi/L							
Thorium 230 MDC		0.10	pCi/L							
Method: E907.0										Batch: RA-TH-ISO-1156
Sample ID: LCS-RA-TH-ISO-1156		Laboratory Control Sample				Run: EGG-ORTEC_100427A				04/29/10 09:08
Thorium 230		5.16	pCi/L		107	70	130			
Sample ID: C10040571-002GDUP	3	Sample Duplicate				Run: EGG-ORTEC_100427A				04/29/10 09:08
Thorium 230		22.4	pCi/L					7.2	31.4	
Thorium 230 precision (±)		2.30	pCi/L							
Thorium 230 MDC		0.277	pCi/L							
Sample ID: C10040571-003GMS		Sample Matrix Spike				Run: EGG-ORTEC_100427A				04/29/10 09:08
Thorium 230		27.7	pCi/L		97	70	130			
Sample ID: MB-RA-TH-ISO-1156	3	Method Blank				Run: EGG-ORTEC_100427A				04/29/10 09:08
Thorium 230		-0.2	pCi/L							U
Thorium 230 precision (±)		0.08	pCi/L							
Thorium 230 MDC		0.1	pCi/L							

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/25/10
Work Order: C10040571

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M										Batch: PB-210-0693
Sample ID: C10020745-001GMS		Sample Matrix Spike				Run: BECKMAN 6100TA_100506A				05/16/10 02:32
Lead 210		250	pCi/L		113	70	130			
Sample ID: C10020745-001GMSD		Sample Matrix Spike Duplicate				Run: BECKMAN 6100TA_100506A				05/16/10 04:34
Lead 210		240	pCi/L		109	70	130	4.1	17.2	
Sample ID: MB-PB-210-0693	3	Method Blank				Run: BECKMAN 6100TA_100506A				05/16/10 06:36
Lead 210		-1	pCi/L							U
Lead 210 precision (±)		3	pCi/L							
Lead 210 MDC		5	pCi/L							
Sample ID: LCS-PB-210-0693		Laboratory Control Sample				Run: BECKMAN 6100TA_100506A				05/16/10 08:37
Lead 210		110	pCi/L		103	70	130			

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QA/QC Summary Report

Client: United Nuclear Corporation
Project: Zone 3

Report Date: 05/25/10
Work Order: C10040571

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-3163
Sample ID: LCS-228-RA226-4487		Laboratory Control Sample				Run: TENNELEC-3_100421E				04/28/10 14:29
Radium 228		7.8	pCi/L		98	70	130			
Sample ID: MB-RA226-4487	3	Method Blank				Run: TENNELEC-3_100421E				04/28/10 14:29
Radium 228		0.2	pCi/L							U
Radium 228 precision (±)		1	pCi/L							
Radium 228 MDC		2	pCi/L							
Sample ID: C10040571-002GMS		Sample Matrix Spike				Run: TENNELEC-3_100421E				04/28/10 14:29
Radium 228		25	pCi/L		115	70	130			
Sample ID: C10040571-002GMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_100421E				04/28/10 14:29
Radium 228		23	pCi/L		106	70	130	5.5	32.1	

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