

**Attachment 2.9-9 Technical Memorandum: Radiological Air
Particulate Sampling**

TECHNICAL MEMORANDUM

TO: Ur-Energy Inc.
FROM: AATA International, Inc.
DATE: January 16, 2009
SUBJECT: Radiological Air Particulate Sampling

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Introduction

Radiological air particulate sampling for the Lost Creek Project was initiated on November 30, 2007. Four quarters of continuous sampling was completed on December 2, 2008. Because the samplers were installed at the end of November 2007, Sampling Quarters 1, 2, 3, and 4 (Q1, Q2, Q3, and Q4) essentially correspond to winter, spring, summer, and fall.

Figure APS-1 shows the five sampling locations that were selected using criteria from NRC Regulatory Guide 4.14. Sampler HV-1 represented the closest residence, and was located about 15 miles northwest of the Lost Creek Project in Bairoil, Wyoming. The remaining sampling locations were within the Lost Creek Permit Area. Sampler HV-2 is located near the northern license area boundary, on the downwind eastern edge of the plant site enclosure. Sampler HV-3 is at the southwest corner of the License Area, upwind of all project activities, and represents background conditions. Samplers HV-4 and HV-5 represent the northern and eastern site boundaries, respectively.

Sample Collection

The air particulate samplers are digitally controlled low wattage F&J DF-40L-8 instruments, powered by solar panels with a gel battery backup, and housed in custom enclosures. **Figure APS-2** shows Sampler HV-4 with the enclosure door open, before the sampler was fenced to exclude cattle. Filter holders were set to a height of approximately five feet, and equipped with 47-mm fiberglass filters. The instruments were set for an actual (i.e. uncorrected for temperature and pressure) flow rate of 30 liters per minute (lpm).

Under optimal conditions, filters were changed on a weekly basis. However, during the winter quarter (Q1), the maximum period between filter changes ranged from 50 to 73 days, depending on the sampler location and whether blowing and drifting snow prevented safe access. During this long period, dust loading in the filters did not seriously impede sampling. The average flow rate for the five samplers during the long period was 28.6 lpm, which represents a reduction of about 2% relative to the mean flow rate for the shorter periods in Q1. At the end of the long period, a tracked vehicle was purchased that could provide safe and reliable on-site transportation despite the adverse conditions. After Q1, the time between filter changes was generally one week, and averaged less than ten days.

The flow rate on each sampler was calibrated and certified by the manufacturer prior to installation, and per manufacturer recommendation, the flow rates were checked in June 2008, after approximately seven months of operation. All the samplers were found to be operating within 4% of the reference instrument across the full scale, so the calibration certifications were updated.

Analytical Results

All filters from each instrument were composited on a quarterly basis and analyzed by Energy Laboratories, Inc. in Casper, Wyoming for the parameters listed in NRC Regulatory Guide 4.14. **Table APS-1** summarizes the analytical results from the air particulate sampling, and the original laboratory reports are included as **Appendix APS-1**. Field duplicate analysis was not possible due to the nature of air particulate sampling, however a set of field blank filters (labeled HV-B in the laboratory reports) were analyzed by Energy Laboratories along with both the Q3 and the Q4 filters.

As outlined below by parameter, all of the concentrations are low or non-detect. No consistent trends were noted by location.

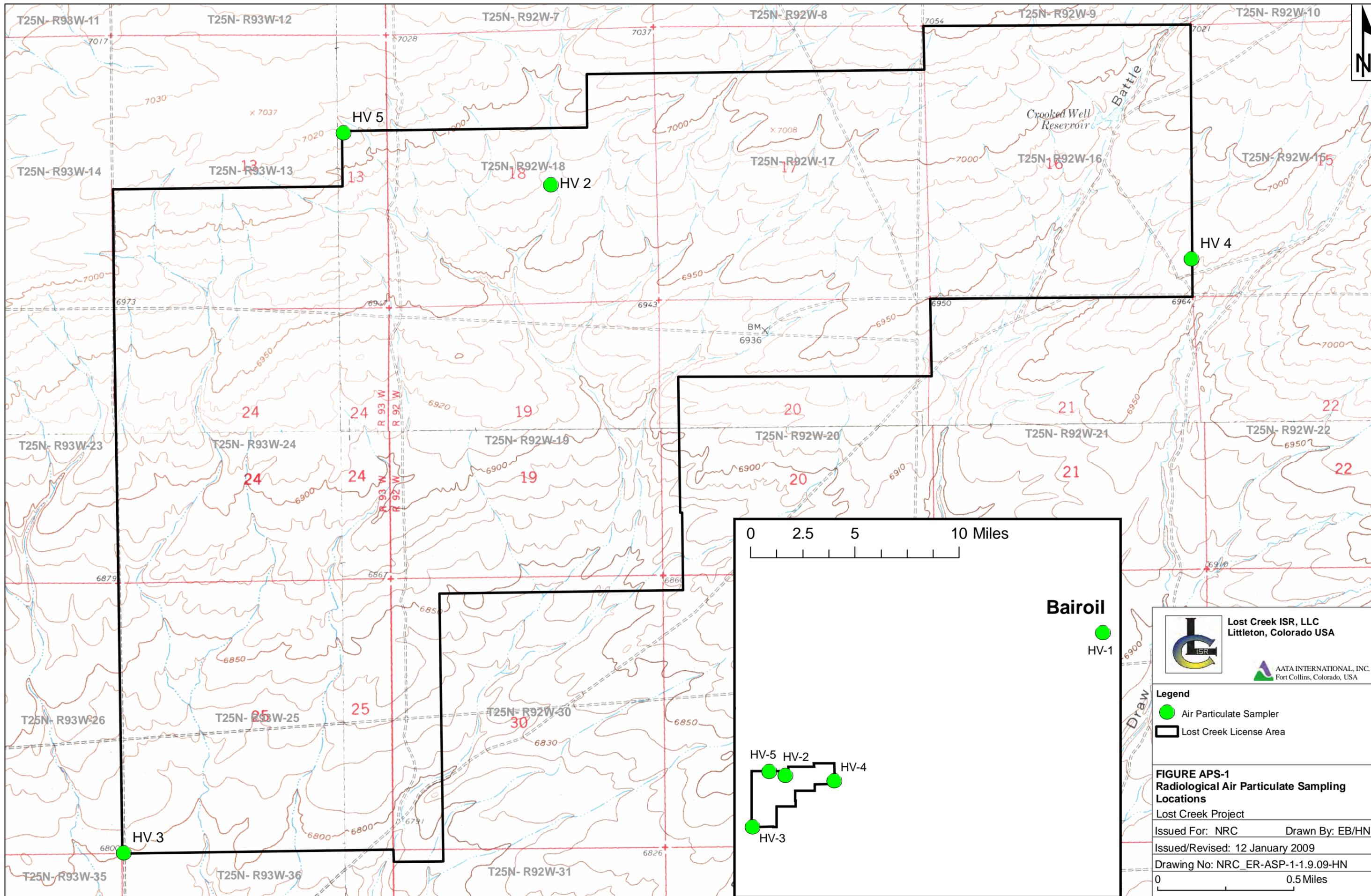
Uranium. Concentrations of natural uranium were less than the 1.00E-16 microCuries per milliLiter ($\mu\text{Ci}/\text{mL}$) detection limit for all samples in Q1, Q2 and Q4. Natural uranium was present in low but detectable concentrations in four of the five samples from Q3, as well as in the field blank and the laboratory method blank. Energy Laboratories, Inc. believes that either the method blank or the entire batch was exposed to uranium

contamination during the digestion process, but the analysis could not be re-run because all filter material was consumed during the original digestion process. A memorandum from Energy Laboratories, Inc. explaining the issue is included in **Appendix APS-2**. Despite the apparent contamination, the highest recorded level was $5.61\text{E-}16$ $\mu\text{Ci/mL}$, which is less than 1% of the $9.00\text{E-}14$ $\mu\text{Ci/mL}$ effluent concentration limit from Appendix B of 10 CFR 20.

Thorium. Thorium-230 (Th-230) concentrations were also less than the $1.00\text{E-}16$ $\mu\text{Ci/mL}$ detection limit for sixteen of the twenty samples. All samples in both Q2 and Q4 were below the detection limit. Two samples in Q1 and two samples Q3 had Th-230 concentrations above the detection limit. The maximum concentration was $2.59\text{E-}16$, which is less than 1% of the $3.00\text{E-}14$ $\mu\text{Ci/mL}$ effluent concentration limit from Appendix B of 10 CFR 20.

Radium. Concentrations of Radium-226 (Ra-226) were less than the $1.00\text{E-}16$ $\mu\text{Ci/mL}$ detection limit for all samples in Q2, Q3, and Q4. Ra-226 was present in all the samples from Q1, in concentrations ranging from $2.34\text{E-}16$ to $2.23\text{E-}15$ $\mu\text{Ci/mL}$. The highest observed concentration is less than 1% of the $9.00\text{E-}13$ $\mu\text{Ci/mL}$ effluent concentration limit from Appendix B of 10 CFR 20. Although detectable concentrations were present only during Q1, the laboratory QA/QC process did not flag any of Q1 Ra-226 results with qualifiers.

Lead. Lead-210 (Pb-210) was present in measurable concentrations in all samples, ranging from $3.02\text{E-}15$ to $2.38\text{E-}14$ $\mu\text{Ci/mL}$. The Pb-210 concentrations were lower in Q2 than any other period. The maximum concentration occurred in Q1, and represented less than 4% of the $6.00\text{E-}13$ $\mu\text{Ci/mL}$ effluent concentration limit from Appendix B of 10 CFR 20. Pb-210 concentrations were not consistently high or low at any of the individual sampling locations.



Lost Creek ISR, LLC
Littleton, Colorado USA



- Legend**
- Air Particulate Sampler
 - Lost Creek License Area

FIGURE APS-1
Radiological Air Particulate Sampling
Locations

Lost Creek Project
 Issued For: NRC Drawn By: EB/HN
 Issued/Revised: 12 January 2009
 Drawing No: NRC_ER-ASP-1-1.9.09-HN

0 0.5 Miles

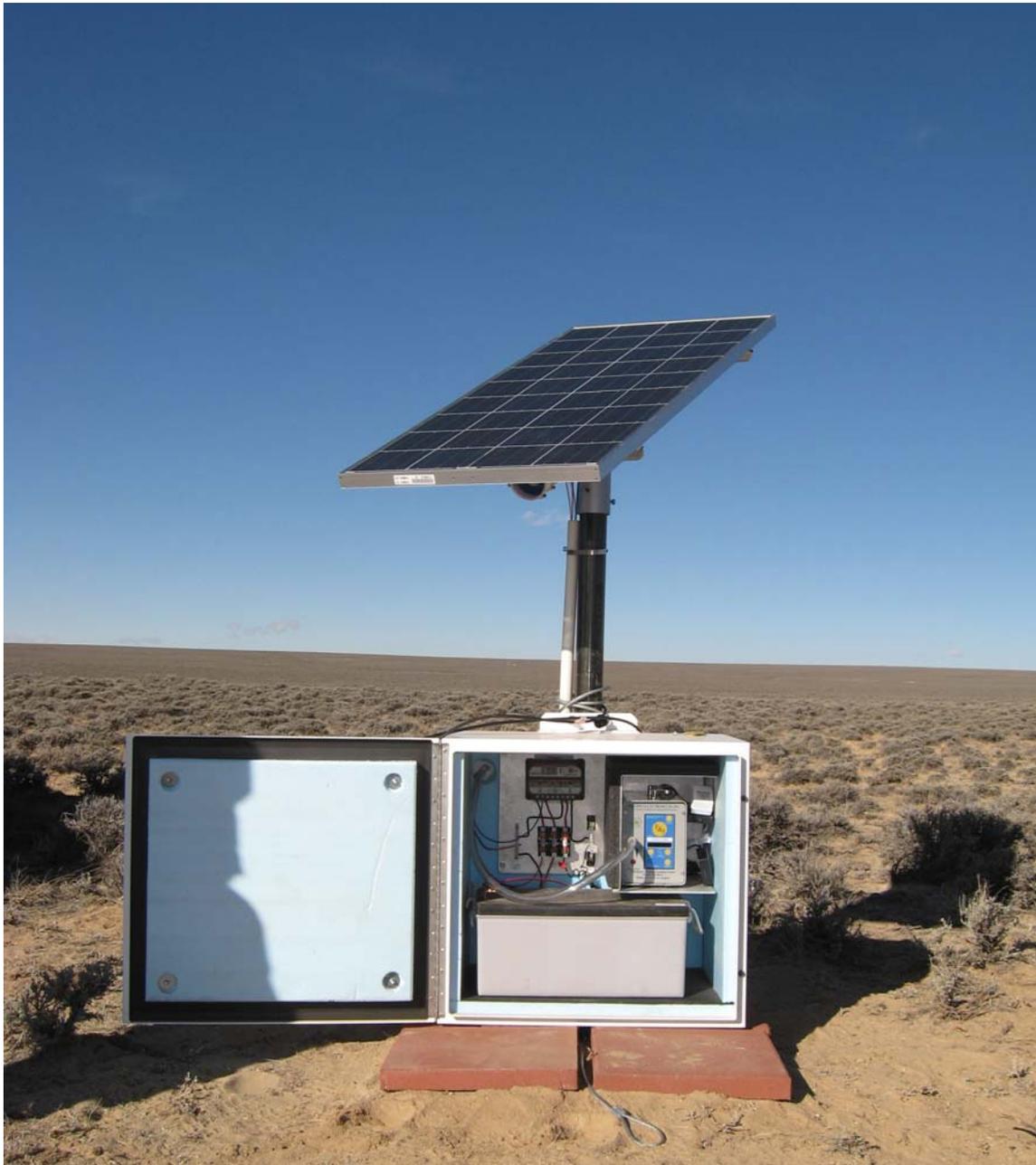


Figure APS-2
High Volume Air Particulate Sampler #HV-4
Lost Creek Project - Great Divide Basin, Wyoming
November 29, 2007

Table APS-1 Summary of Analytical Results - Radiological Air Particulate Sampling

Quarter	Location	Start Date	End Date	Volume (mL)	U-nat (μCi/mL)	Th-230 (μCi/mL)	Ra-226 (μCi/mL)	Pb-210 (μCi/mL)
Q1	HV1	11/30/2007	3/1/2008	3.85E+09	<1.00E-16	<1.00E-16	2.86E-16	1.78E-14
	HV2	11/30/2007	3/1/2008	3.84E+09	<1.00E-16	<1.00E-16	2.34E-16	1.53E-14
	HV3	11/30/2007	3/8/2008	4.08E+09	<1.00E-16	<1.00E-16	2.23E-15	1.31E-14
	HV4	11/30/2007	3/1/2008	3.70E+09	<1.00E-16	1.62E-16	3.51E-16	2.38E-14
	HV5	11/30/2007	3/1/2008	3.78E+09	<1.00E-16	2.38E-16	2.91E-16	1.81E-14
Q2	HV1	3/1/2008	6/5/2008	4.08E+09	<1.00E-16	<1.00E-16	<1.00E-16	6.81E-15
	HV2	3/1/2008	6/5/2008	3.70E+09	<1.00E-16	<1.00E-16	<1.00E-16	3.02E-15
	HV3	3/8/2008	6/5/2008	4.11E+09	<1.00E-16	<1.00E-16	<1.00E-16	5.01E-15
	HV4	3/1/2008	6/5/2008	4.11E+09	<1.00E-16	<1.00E-16	<1.00E-16	9.24E-15
	HV5	3/1/2008	6/5/2008	4.11E+09	<1.00E-16	<1.00E-16	<1.00E-16	5.28E-15
Q3	HV1	6/5/2008	8/29/2008	3.39E+09	5.61E-15*	1.95E-16	<1.00E-16	2.22E-14
	HV2	6/5/2008	8/29/2008	3.39E+09	1.48E-15*	<1.00E-16	<1.00E-16	1.62E-14
	HV3	6/5/2008	8/29/2008	3.39E+09	1.18E-15*	2.59E-16	<1.00E-16	1.41E-14
	HV4	6/5/2008	8/29/2008	3.39E+09	<1.00E-16*	<1.00E-16	<1.00E-16	1.95E-14
	HV5	6/5/2008	8/29/2008	3.17E+09	2.21E-15*	<1.00E-16	<1.00E-16	1.51E-14
Q4	HV1	8/29/2008	12/2/2008	4.07E+09	<1.00E-16	<1.00E-16	<1.00E-16	1.69E-14
	HV2	8/29/2008	12/2/2008	4.08E+09	<1.00E-16	<1.00E-16	<1.00E-16	1.62E-14
	HV3	8/29/2008	12/2/2008	4.04E+09	<1.00E-16	<1.00E-16	<1.00E-16	1.91E-14
	HV4	8/29/2008	12/2/2008	4.08E+09	<1.00E-16	<1.00E-16	<1.00E-16	1.72E-14
	HV5	8/29/2008	12/2/2008	3.85E+09	<1.00E-16	<1.00E-16	<1.00E-16	2.31E-14

* Method blank or entire sample batch apparently exposed to uranium contamination during the digestion process.

Appendix APS-1

Laboratory Data Sheets
Baseline Radiological Air Particulate Sampling
Lost Creek In Situ Uranium Project



ANALYTICAL SUMMARY REPORT

June 09, 2008

AATA International Inc
300 E Boardwalk Dr STE 4A
Fort Collins, CO 80525

Workorder No.: C08040520

Quote ID: C2783 - UR Energy Lost Creek

Project Name: Lost Creek

Energy Laboratories, Inc. received the following 5 samples from AATA International Inc on 4/10/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C08040520-001	HV3Q1	03/08/08 00:00	04/10/08	Filter	Composite of two or more samples Metals, Total Digestion, Total Metals Lead 210 Radium 226 Thorium, Isotopic
C08040520-002	HV4Q1	03/01/08 00:00	04/10/08	Filter	Same As Above
C08040520-003	HV5Q1	03/01/08 00:00	04/10/08	Filter	Same As Above
C08040520-004	HV2Q1	03/01/08 00:00	04/10/08	Filter	Same As Above
C08040520-005	HV1Q1	03/01/08 00:00	04/10/08	Filter	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:


STEVE CARLSTON



LABORATORY ANALYTICAL REPORT

Client: AATA International Inc
Project: Lost Creek
Lab ID: C08040520-001
Client Sample ID: HV3Q1

Report Date: 06/09/08
Collection Date: 03/08/08
Date Received: 04/10/08
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS							
Uranium	ND	mg/filter		0.0003		SW6020	04/28/08 03:56 / ts
Uranium, Activity	ND	pCi/Filter		0.2		SW6020	04/28/08 03:56 / ts
RADIONUCLIDES - TOTAL							
Lead 210	53.5	pCi/Filter		1.0		E909.0M	04/17/08 10:30 / dm
Lead 210 precision (±)	6.7	pCi/Filter				E909.0M	04/17/08 10:30 / dm
Thorium 230	0.1	pCi/Filter	U	0.2		E907.0	04/17/08 15:35 / dmf
Thorium 230 precision (±)	0.4	pCi/Filter				E907.0	04/17/08 15:35 / dmf
Radium 226	9.1	pCi/Filter				E903.0	04/25/08 07:03 / trs
Radium 226 precision (±)	2.5	pCi/Filter				E903.0	04/25/08 07:03 / trs
Radium 226 MDC	2.5	pCi/Filter				E903.0	04/25/08 07:03 / trs

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

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

HIGH VOLUME AIR SAMPLING REPORT

CLIENT: AATA International Inc.

REPORT DATE: June 9, 2008

SAMPLE ID: HV3Q1

Quarter/Date Sampled Air Volume	Radionuclide	Concentration μCi/mL	Error Estimate μCi/mL	L.L.D. μCi/mL	Effluent Conc.* μCi/mL	% Effluent Concentration
C08040520-001	^{nat} U	< 1.00E-16	N/A	1.00E-16	9.00E-14	< 1.11E-01
11/30/07-03/08/08	²³⁰ Th	< 1.00E-16	N/A	1.00E-16	3.00E-14	< 3.33E-01
Air Volume in mLs	²²⁶ Ra	2.23E-15	6.13E-16	1.00E-16	9.00E-13	2.48E-01
4.08E+09	²¹⁰ Pb	1.31E-14	1.64E-15	2.00E-15	6.00E-13	2.19E+00

LLD's are from Reg. Guide 4.14



LABORATORY ANALYTICAL REPORT

Client: AATA International Inc
Project: Lost Creek
Lab ID: C08040520-002
Client Sample ID: HV4Q1

Report Date: 06/09/08
Collection Date: 03/01/08
Date Received: 04/10/08
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS							
Uranium	ND	mg/filter		0.0003		SW6020	04/29/08 11:24 / sml
Uranium, Activity	ND	pCi/Filter		0.2		SW6020	04/29/08 11:24 / sml
RADIONUCLIDES - TOTAL							
Lead 210	88.0	pCi/Filter		1.0		E909.0M	04/18/08 07:05 / dm
Lead 210 precision (±)	7.7	pCi/Filter				E909.0M	04/18/08 07:05 / dm
Thorium 230	0.6	pCi/Filter		0.2		E907.0	04/17/08 14:30 / dmf
Thorium 230 precision (±)	1.0	pCi/Filter				E907.0	04/17/08 14:30 / dmf
Radium 226	1.3	pCi/Filter				E903.0	05/12/08 15:13 / trs
Radium 226 precision (±)	0.6	pCi/Filter				E903.0	05/12/08 15:13 / trs
Radium 226 MDC	0.5	pCi/Filter				E903.0	05/12/08 15:13 / trs

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.



HIGH VOLUME AIR SAMPLING REPORT

CLIENT: AATA International Inc.

REPORT DATE: June 9, 2008

SAMPLE ID: HV4Q1

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci/mL}$	Error Estimate $\mu\text{Ci/mL}$	L.L.D. $\mu\text{Ci/mL}$	Effluent Conc.* $\mu\text{Ci/mL}$	% Effluent Concentration
C08040520-002	^{235}U	< 1.00E-16	N/A	1.00E-16	9.00E-14	< 1.11E-01
11/30/07-03/01/08	^{230}Th	1.62E-16	2.70E-16	1.00E-16	3.00E-14	5.40E-01
Air Volume in mLs	^{226}Ra	3.51E-16	1.62E-16	1.00E-16	9.00E-13	3.90E-02
3.70E+09	^{210}Pb	2.38E-14	2.08E-15	2.00E-15	6.00E-13	3.96E+00

LLD's are from Reg. Guide 4.14



LABORATORY ANALYTICAL REPORT

Client: AATA International Inc
Project: Lost Creek
Lab ID: C08040520-003
Client Sample ID: HV5Q1

Report Date: 06/09/08
Collection Date: 03/01/08
Date Received: 04/10/08
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS							
Uranium	ND	mg/filter		0.0003		SW6020	04/29/08 11:32 / sml
Uranium, Activity	ND	pCi/Filter		0.2		SW6020	04/29/08 11:32 / sml
RADIONUCLIDES - TOTAL							
Lead 210	68.4	pCi/Filter		1.0		E909.0M	04/18/08 07:05 / dm
Lead 210 precision (±)	6.8	pCi/Filter				E909.0M	04/18/08 07:05 / dm
Thorium 230	0.9	pCi/Filter		0.2		E907.0	04/17/08 14:30 / dmf
Thorium 230 precision (±)	0.6	pCi/Filter				E907.0	04/17/08 14:30 / dmf
Radium 226	1.1	pCi/Filter				E903.0	05/12/08 15:13 / trs
Radium 226 precision (±)	0.6	pCi/Filter				E903.0	05/12/08 15:13 / trs
Radium 226 MDC	0.5	pCi/Filter				E903.0	05/12/08 15:13 / trs

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

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



HIGH VOLUME AIR SAMPLING REPORT

CLIENT: AATA International Inc.

REPORT DATE: June 9, 2008

SAMPLE ID: HV5Q1

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci/mL}$	Error Estimate $\mu\text{Ci/mL}$	L.L.D. $\mu\text{Ci/mL}$	Effluent Conc.* $\mu\text{Ci/mL}$	% Effluent Concentration
C08040520-003	^{nat} U	< 1.00E-16	N/A	1.00E-16	9.00E-14	< 1.11E-01
11/30/07-03/01/08	²³⁰ Th	2.38E-16	1.59E-16	1.00E-16	3.00E-14	7.95E-01
Air Volume in mLs	²²⁶ Ra	2.91E-16	1.59E-16	1.00E-16	9.00E-13	3.24E-02
3.78E+09	²¹⁰ Pb	1.81E-14	1.80E-15	2.00E-15	6.00E-13	3.02E+00

LLD's are from Reg. Guide 4.14



LABORATORY ANALYTICAL REPORT

Client: AATA International Inc
Project: Lost Creek
Lab ID: C08040520-004
Client Sample ID: HV2Q1

Report Date: 06/09/08
Collection Date: 03/01/08
Date Received: 04/10/08
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS							
Uranium	ND	mg/filter		0.0003		SW6020	04/29/08 11:37 / sml
Uranium, Activity	ND	pCi/Filter		0.2		SW6020	04/29/08 11:37 / sml
RADIONUCLIDES - TOTAL							
Lead 210	58.6	pCi/Filter		1.0		E909.0M	04/18/08 07:05 / dm
Lead 210 precision (±)	6.4	pCi/Filter				E909.0M	04/18/08 07:05 / dm
Thorium 230	0.0	pCi/Filter	U	0.2		E907.0	04/17/08 14:30 / dmf
Thorium 230 precision (±)	0.4	pCi/Filter				E907.0	04/17/08 14:30 / dmf
Radium 226	0.9	pCi/Filter				E903.0	05/12/08 15:13 / trs
Radium 226 precision (±)	0.5	pCi/Filter				E903.0	05/12/08 15:13 / trs
Radium 226 MDC	0.4	pCi/Filter				E903.0	05/12/08 15:13 / trs

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

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

HIGH VOLUME AIR SAMPLING REPORT

CLIENT: AATA International Inc.

REPORT DATE: June 9, 2008

SAMPLE ID: HV2Q1

Quarter/Date Sampled Air Volume	Radionuclide	Concentration μCi/mL	Error Estimate μCi/mL	L.L.D. μCi/mL	Effluent Conc.* μCi/mL	% Effluent Concentration
C08040520-004 11/29/07-03/01/08 Air Volume in mLs 3.84E+09	^{nat} U	< 1.00E-16	N/A	1.00E-16	9.00E-14	< 1.11E-01
	²³⁰ Th	< 1.00E-16	N/A	1.00E-16	3.00E-14	< 3.33E-01
	²²⁶ Ra	2.34E-16	1.30E-16	1.00E-16	9.00E-13	2.61E-02
	²¹⁰ Pb	1.53E-14	1.67E-15	2.00E-15	6.00E-13	2.54E+00

LLD's are from Reg. Guide 4.14



LABORATORY ANALYTICAL REPORT

Client: AATA International Inc
Project: Lost Creek
Lab ID: C08040520-005
Client Sample ID: HV1Q1

Report Date: 06/09/08
Collection Date: 03/01/08
Date Received: 04/10/08
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS							
Uranium	ND	mg/filter		0.0003		SW6020	04/29/08 11:53 / sml
Uranium, Activity	ND	pCi/Filter		0.2		SW6020	04/29/08 11:53 / sml
RADIONUCLIDES - TOTAL							
Lead 210	68.4	pCi/Filter		1.0		E909.0M	04/18/08 07:05 / dm
Lead 210 precision (±)	6.8	pCi/Filter				E909.0M	04/18/08 07:05 / dm
Thorium 230	0.2	pCi/Filter	U	0.2		E907.0	04/17/08 14:30 / dmf
Thorium 230 precision (±)	0.5	pCi/Filter				E907.0	04/17/08 14:30 / dmf
Radium 226	1.1	pCi/Filter				E903.0	05/12/08 15:13 / trs
Radium 226 precision (±)	0.6	pCi/Filter				E903.0	05/12/08 15:13 / trs
Radium 226 MDC	0.4	pCi/Filter				E903.0	05/12/08 15:13 / trs

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

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



HIGH VOLUME AIR SAMPLING REPORT

CLIENT: AATA International Inc.

REPORT DATE: June 9, 2008

SAMPLE ID: HV1Q1

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci}/\text{mL}$	Error Estimate $\mu\text{Ci}/\text{mL}$	L.L.D. $\mu\text{Ci}/\text{mL}$	Effluent Conc.* $\mu\text{Ci}/\text{mL}$	% Effluent Concentration
C08040520-005 11/30/07-03/01/08 Air Volume in mLs 3.85E+09	^{235}U	< 1.00E-16	N/A	1.00E-16	9.00E-14	< 1.11E-01
	^{230}Th	< 1.00E-16	N/A	1.00E-16	3.00E-14	< 3.33E-01
	^{226}Ra	2.86E-16	1.56E-16	1.00E-16	9.00E-13	3.18E-02
	^{210}Pb	1.78E-14	1.77E-15	2.00E-15	6.00E-13	2.96E+00

LLD's are from Reg. Guide 4.14



QA/QC Summary Report

Client: AATA International Inc
Project: Lost Creek

Report Date: 06/09/08
Work Order: C08040520

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0 Batch: 18283									
Sample ID: C08040356-001AMS Radium 226	Sample Matrix Spike 70.7	pCi/Filter		111	70	130			
									Run: BERTHOLD 770_080417A 04/24/08 15:29
Sample ID: C08040356-001AMSD Radium 226	Sample Matrix Spike Duplicate 60.7	pCi/Filter		95	70	130	15		04/24/08 17:25 26.7
Sample ID: MB-18283 Radium 226	Method Blank -3	pCi/L							Run: BERTHOLD 770_080417A 04/25/08 07:03 U
Sample ID: LCS-18283 Radium 226	Laboratory Control Sample 11	pCi/L		98	70	130			Run: BERTHOLD 770_080417A 04/25/08 07:03
Method: E903.0 Batch: R101053									
Sample ID: C08040520-002AMS Radium 226	Sample Matrix Spike 56.6	pCi/Filter		88	70	130			Run: BERTHOLD 770_080425A 05/12/08 15:13
Sample ID: C08040520-002AMSD Radium 226	Sample Matrix Spike Duplicate 69.4	pCi/Filter		108	70	130	20		05/12/08 15:13 23.9
Sample ID: MB-18279 Radium 226	Method Blank 0.002	pCi/g-dry							Run: BERTHOLD 770_080425A 05/12/08 15:13
Sample ID: LCS-18279 Radium 226	Laboratory Control Sample 0.013	pCi/g-dry		82	70	130			Run: BERTHOLD 770_080425A 05/12/08 16:53
Method: E907.0 Batch: 18283									
Sample ID: C08040302-005AMS Thorium 230	Sample Matrix Spike 75.7	pCi/Filter	0.20	68	70	130			Run: EGG-ORTEC_080417C 04/17/08 15:35 S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the low response is considered to be matrix related. The batch is approved.									
Sample ID: C08040302-005AMSD Thorium 230	Sample Matrix Spike Duplicate 79.7	pCi/Filter	0.20	69	70	130	5.1		Run: EGG-ORTEC_080417C 04/17/08 15:35 S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the low response is considered to be matrix related. The batch is approved.									
Sample ID: LCS-R100216 Thorium 230	Laboratory Control Sample 49.0	pCi/Filter	0.20	102	70	130			Run: EGG-ORTEC_080417C 04/17/08 15:35
Sample ID: MB-R100216 Thorium 230	Method Blank 0.1	pCi/Filter							Run: EGG-ORTEC_080417C 04/17/08 15:35

Qualifiers:

RL - Analyte reporting limit.
 S - Spike recovery outside of advisory limits.

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



QA/QC Summary Report

Client: AATA International Inc
Project: Lost Creek

Report Date: 06/09/08
Work Order: C08040520

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: R100072		
Sample ID: C08040520-004AMS Thorium 230	Sample Matrix Spike 42.7 pCi/Filter		0.20	92	70	130			
									Run: EGG-ORTEC_080417A 04/17/08 14:30
Sample ID: C08040520-004AMSD Thorium 230	Sample Matrix Spike Duplicate 41.8 pCi/Filter		0.20	90	70	130	2.0	30	
									Run: EGG-ORTEC_080417A 04/17/08 14:30
Sample ID: LCS-R100072 Thorium 230	Laboratory Control Sample 42.4 pCi/Filter		0.20	90	70	130			
									Run: EGG-ORTEC_080417A 04/17/08 14:30
Sample ID: MB-R100072 Thorium 230	Method Blank 0.3 pCi/Filter								
									Run: EGG-ORTEC_080417A 04/17/08 14:30
Method: E909.0M							Batch: 18283		
Sample ID: C08040302-001AMS Lead 210	Sample Matrix Spike 1550 pCi/Filter		1.0	57	70	130			
									Run: PACKARD 3100TR_080417A 04/17/08 10:30 S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the MSD are acceptable the batch is approved.									
Sample ID: C08040302-001AMSD Lead 210	Sample Matrix Spike Duplicate 2300 pCi/Filter		1.0	120	70	130	39	30	R
									Run: PACKARD 3100TR_080417A 04/17/08 10:30
Sample ID: MB-R100552 Lead 210	Method Blank ND pCi/L								
									Run: PACKARD 3100TR_080417A 04/17/08 10:30
Sample ID: LCS-R100552 Lead 210	Laboratory Control Sample 130 pCi/L		1.0	106	70	130			
									Run: PACKARD 3100TR_080417A 04/17/08 10:30
Method: E909.0M							Batch: 18284		
Sample ID: C08040520-005AMS Lead 210	Sample Matrix Spike 1210 pCi/Filter		1.0	97	70	130			
									Run: PACKARD 3100TR_080418B 04/18/08 07:05
Sample ID: C08040520-005AMSD Lead 210	Sample Matrix Spike Duplicate 1070 pCi/Filter		1.0	85	70	130	12	30	
									Run: PACKARD 3100TR_080418B 04/18/08 07:05
Sample ID: MB-R100646 Lead 210	Method Blank ND pCi/Filter								
									Run: PACKARD 3100TR_080418B 04/18/08 07:05
Sample ID: LCS-R100646 Lead 210	Laboratory Control Sample 117 pCi/Filter		1.0	99	70	130			
									Run: PACKARD 3100TR_080418B 04/18/08 07:05

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

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



QA/QC Summary Report

Client: AATA International Inc

Report Date: 06/09/08

Project: Lost Creek

Work Order: C08040520

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020							Batch: 18283		
Sample ID: MB-18283	Method Blank								
Uranium	ND	mg/filter	6E-05						Run: ICPMS2-C_080427A 04/28/08 02:00
Sample ID: LCS1-18283	Laboratory Control Sample								
Uranium	0.0509	mg/filter	0.00030	97	75	125			Run: ICPMS2-C_080427A 04/28/08 02:04
Sample ID: C08040520-001AMS	Sample Matrix Spike								
Uranium	0.0497	mg/filter	0.00030	99	75	125			Run: ICPMS2-C_080427A 04/28/08 04:00
Sample ID: C08040520-001AMSD	Sample Matrix Spike Duplicate								
Uranium	0.0500	mg/filter	0.00030	100	75	125	0.6	20	Run: ICPMS2-C_080427A 04/28/08 04:04
Method: SW6020							Batch: 18284		
Sample ID: MB-18284	Method Blank								
Uranium	ND	mg/filter	6E-05						Run: ICPMS2-C_080428B 04/29/08 11:16
Sample ID: LCS-18284	Laboratory Control Sample								
Uranium	0.514	mg/filter	0.00060	98	75	125			Run: ICPMS2-C_080428B 04/29/08 11:20
Sample ID: C08040520-005AMS	Sample Matrix Spike								
Uranium	0.0472	mg/filter	0.00030	94	75	125			Run: ICPMS2-C_080428B 04/29/08 11:57
Sample ID: C08040520-005AMSD	Sample Matrix Spike Duplicate								
Uranium	0.0476	mg/filter	0.00030	95	75	125	1.0	20	Run: ICPMS2-C_080428B 04/29/08 12:01

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Chain of Custody and Analytical Request Record

PLEASE PRINT, provide as much information as possible. Refer to corresponding notes on reverse side.

Company Name: ATA INTERNATIONAL Project Name, PWS #, Permit #, Etc.: LOST CREEK #301-307

Report Mail Address: 300 E BOARDWALK STE. 4A DUNCAN ECCLESTON 970-223-1333 duncan.eccleston@ate.com Contact Name, Phone, Fax, E-mail: MARSHAL CLARK Sampler Name if other than Contact:

Invoice Address: 2240 BLAKE ST STE. 210 DENVER CO 80205 Invoice Contact & Phone #: CARA CALKINS 720-974-2550 Purchase Order #: 301-307 ELI Quote #: C2783R1

Report Required For: POTW/WWTP DW Other _____

Special Report Formats - ELI must be notified prior to sample submittal for the following:
 NELAC A2LA Level IV Other _____
 EDD/EDT Format _____

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	Number of Containers	Sample Type: A W S V O Air Water Soils/Solids Vegetation Biossay Other	Matrix	ANALYSIS REQUESTED		Notify ELI prior to RUSH sample submittal for additional charges and scheduling	Comments:	Shipped by: Cooler ID(s) Receipt Temp Custody Seal Intact Signature Match Lab ID
						SEE ATTACHED	RUSH Turnaround (TAT)			
1 HV3Q1	11/30/07	5	1	A	V	SEE ATTACHED	✓		TOTAL FLOW (LITERS)	EN EX GROUND
2 HV3Q1	11/30/07	3	1	A	V	SEE ATTACHED	✓		4,258, 266 L	NIA
3 HV3Q1	11/30/07	3	1	A	V	SEE ATTACHED	✓		4,687, 742 L	NIA °C
4 HV4Q1	11/30/07	2	1	A	V	SEE ATTACHED	✓		4,079, 171 L	Custody Seal
5 HV5Q1	11/30/07	2	1	A	V	SEE ATTACHED	✓		3,701, 235 L	Intact
6 HV2Q1	11/30/07	6	1	A	V	SEE ATTACHED	✓		3,775, 189 L	Signature
7 HV2Q1	11/29/07	3	1	A	V	SEE ATTACHED	✓		3,838, 248 L	Match
8 HV1Q1	11/30/07	5	1	A	V	SEE ATTACHED	✓		3,846, 203 L	Lab ID
9										
10										

Relinquished by (print): DUNCAN ECCLESTON 4/3/08 Date/Time: 12:30 pm Signature: [Signature]

Relinquished by (print): ASHLEY HAYNES 4-10-08 10:35 Date/Time: 10:35 Signature: [Signature]

Relinquished by (print): _____ Date/Time: _____ Signature: _____

Sample Disposal: Return to client: Lab Disposal: Laboratory Use Only: # of fractions: _____

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly noted on your analytical report.

Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, & links.

Energy Laboratories Inc

Workorder Receipt Checklist



C08040520

AATA International Inc

Login completed by: Kimberly Humiston

Date and Time Received: 4/10/2008 10:35 AM

Reviewed by:

Received by: ah

Reviewed Date:

Carrier name: FedEx

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

Contact and Corrective Action Comments:

None



Date: 09-Jun-08

CLIENT: AATA International Inc
Project: Lost Creek
Sample Delivery Group: C08040520

CASE NARRATIVE

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

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 USING EPA 505

Data for Atrazine and Simazine are reported from EPA 525.2, not from EPA 505. Data reported by ELI using EPA method 505 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; FL-DOH NELAC: E87641; Arizona: AZ0699; 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.



ANALYTICAL SUMMARY REPORT

August 08, 2008

AATA International Inc
300 E Boardwalk Dr STE 4A
Fort Collins, CO 80525

Workorder No.: C08070118 Quote ID: C2783 - UR Energy Lost Creek
Project Name: URE-Project 301-809

Energy Laboratories, Inc. received the following 5 samples from AATA International Inc on 7/2/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C08070118-001	HV-1	06/05/08 00:00	07/02/08	Filter	Composite of two or more samples Metals, Total Digestion, Total Metals Lead 210 Radium 226 Thorium, Isotopic
C08070118-002	HV-2	06/05/08 00:00	07/02/08	Filter	Same As Above
C08070118-003	HV-3	06/05/08 00:00	07/02/08	Filter	Same As Above
C08070118-004	HV-4	06/05/08 00:00	07/02/08	Filter	Same As Above
C08070118-005	HV-5	06/05/08 00:00	07/02/08	Filter	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 Waldrop



LABORATORY ANALYTICAL REPORT

Client: AATA International Inc
Project: URE-Project 301-809
Lab ID: C08070118-001
Client Sample ID: HV-1

Report Date: 08/08/08
Collection Date: 06/05/08
Date Received: 07/02/08
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS							
Uranium	ND	mg/filter	D	0.0006		SW6020	07/25/08 00:47 / ts
Uranium, Activity	ND	pCi/Filter	D	0.4		SW6020	07/25/08 00:47 / ts
RADIONUCLIDES - TOTAL							
Lead 210	27.8	pCi/Filter	U			E909.0M	07/17/08 09:30 / dm
Lead 210 precision (±)	24.0	pCi/Filter				E909.0M	07/17/08 09:30 / dm
Lead 210 MDC	39.4	pCi/Filter				E909.0M	07/17/08 09:30 / dm
Radium 226	0.1	pCi/Filter	U			E903.0	07/23/08 17:55 / trs
Radium 226 precision (±)	0.9	pCi/Filter				E903.0	07/23/08 17:55 / trs
Radium 226 MDC	1.6	pCi/Filter				E903.0	07/23/08 17:55 / trs
Thorium 230	0.0	pCi/Filter	U	0.2		E907.0	07/18/08 12:39 / dmf
Thorium 230 precision (±)	1.1	pCi/Filter				E907.0	07/18/08 12:39 / dmf

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.



HIGH VOLUME AIR SAMPLING REPORT

CLIENT: AATA International Inc.

REPORT DATE: August 8, 2008

SAMPLE ID: HV-1

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci/mL}$	Error Estimate $\mu\text{Ci/mL}$	L.L.D. $\mu\text{Ci/mL}$	Effluent Conc.* $\mu\text{Ci/mL}$	% Effluent Concentration
C08070118-001 3/1/08 - 6/5/08 Air Volume in mLs 4.08E+09	^{nat} U	< 1.00E-16	N/A	1.00E-16	9.00E-14	< 1.11E-01
	²³⁰ Th	< 1.00E-16	N/A	1.00E-16	3.00E-14	< 3.33E-01
	²²⁶ Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
	²¹⁰ Pb	6.81E-15	5.88E-15	2.00E-15	6.00E-13	1.14E+00

LLD's are from Reg. Guide 4.14



LABORATORY ANALYTICAL REPORT

Client: AATA International Inc
 Project: URE-Project 301-809
 Lab ID: C08070118-002
 Client Sample ID: HV-2

Report Date: 08/08/08
 Collection Date: 06/05/08
 Date Received: 07/02/08
 Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS							
Uranium	ND	mg/filter	D	0.0006		SW6020	07/25/08 00:51 / ts
Uranium, Activity	ND	pCi/Filter	D	0.4		SW6020	07/25/08 00:51 / ts
RADIONUCLIDES - TOTAL							
Lead 210	12.4	pCi/Filter	U			E909.0M	07/17/08 09:30 / dm
Lead 210 precision (±)	24.7	pCi/Filter				E909.0M	07/17/08 09:30 / dm
Lead 210 MDC	41.0	pCi/Filter				E909.0M	07/17/08 09:30 / dm
Radium 226	-0.7	pCi/Filter	U			E903.0	07/23/08 21:14 / trs
Radium 226 precision (±)	0.8	pCi/Filter				E903.0	07/23/08 21:14 / trs
Radium 226 MDC	1.8	pCi/Filter				E903.0	07/23/08 21:14 / trs
Thorium 230	-0.1	pCi/Filter	U	0.2		E907.0	07/21/08 15:31 / dmf
Thorium 230 precision (±)	1.0	pCi/Filter				E907.0	07/21/08 15:31 / dmf

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.



HIGH VOLUME AIR SAMPLING REPORT

CLIENT: AATA International Inc.

REPORT DATE: August 8, 2008

SAMPLE ID: HV-2

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci/mL}$	Error Estimate $\mu\text{Ci/mL}$	L.L.D. $\mu\text{Ci/mL}$	Effluent Conc.* $\mu\text{Ci/mL}$	% Effluent Concentration
C08070118-002 3/1/08 - 6/5/08 Air Volume in mLs 4.11E+09	^{nat} U	< 1.00E-16	N/A	1.00E-16	9.00E-14	< 1.11E-01
	²³⁰ Th	< 1.00E-16	N/A	1.00E-16	3.00E-14	< 3.33E-01
	²²⁶ Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
	²¹⁰ Pb	3.02E-15	6.01E-15	2.00E-15	6.00E-13	5.03E-01

LLD's are from Reg. Guide 4.14



LABORATORY ANALYTICAL REPORT

Client: AATA International Inc
 Project: URE-Project 301-809
 Lab ID: C08070118-003
 Client Sample ID: HV-3

Report Date: 08/08/08
 Collection Date: 06/05/08
 Date Received: 07/02/08
 Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS							
Uranium	ND	mg/filter	D	0.0006		SW6020	07/25/08 00:55 / ts
Uranium, Activity	ND	pCi/Filter	D	0.4		SW6020	07/25/08 00:55 / ts
RADIONUCLIDES - TOTAL							
Lead 210	44.2	pCi/Filter				E909.0M	07/17/08 09:30 / dm
Lead 210 precision (±)	26.3	pCi/Filter				E909.0M	07/17/08 09:30 / dm
Lead 210 MDC	42.6	pCi/Filter				E909.0M	07/17/08 09:30 / dm
Radium 226	-1.2	pCi/Filter	U			E903.0	07/23/08 21:14 / trs
Radium 226 precision (±)	0.7	pCi/Filter				E903.0	07/23/08 21:14 / trs
Radium 226 MDC	1.7	pCi/Filter				E903.0	07/23/08 21:14 / trs
Thorium 230	-0.6	pCi/Filter	U	0.2		E907.0	07/18/08 12:39 / dmf
Thorium 230 precision (±)	0.8	pCi/Filter				E907.0	07/18/08 12:39 / dmf

Report RL - Analyte reporting limit.
 Definitions: 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.



HIGH VOLUME AIR SAMPLING REPORT

CLIENT: AATA International Inc.

REPORT DATE: August 8, 2008

SAMPLE ID: HV-3

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci/mL}$	Error Estimate $\mu\text{Ci/mL}$	L.L.D. $\mu\text{Ci/mL}$	Effluent Conc.* $\mu\text{Ci/mL}$	% Effluent Concentration
C08070118-003 3/8/08 - 6/5/08 Air Volume in mLs 8.81E+09	^{nat} U	< 1.00E-16	N/A	1.00E-16	9.00E-14	< 1.11E-01
	²³⁰ Th	< 1.00E-16	N/A	1.00E-16	3.00E-14	< 3.33E-01
	²²⁶ Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
	²¹⁰ Pb	5.01E-15	2.98E-15	2.00E-15	6.00E-13	8.36E-01

LLD's are from Reg. Guide 4.14



LABORATORY ANALYTICAL REPORT

Client: AATA International Inc
 Project: URE-Project 301-809
 Lab ID: C08070118-004
 Client Sample ID: HV-4

Report Date: 08/08/08
 Collection Date: 06/05/08
 Date Received: 07/02/08
 Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS							
Uranium	ND	mg/filter	D	0.0006		SW6020	07/25/08 00:59 / ts
Uranium, Activity	ND	pCi/Filter	D	0.4		SW6020	07/25/08 00:59 / ts
RADIONUCLIDES - TOTAL							
Lead 210	38.0	pCi/Filter	U			E909.0M	07/17/08 09:30 / dm
Lead 210 precision (±)	24.7	pCi/Filter				E909.0M	07/17/08 09:30 / dm
Lead 210 MDC	40.1	pCi/Filter				E909.0M	07/17/08 09:30 / dm
Radium 226	-0.9	pCi/Filter	U			E903.0	07/23/08 21:14 / trs
Radium 226 precision (±)	0.7	pCi/Filter				E903.0	07/23/08 21:14 / trs
Radium 226 MDC	1.6	pCi/Filter				E903.0	07/23/08 21:14 / trs
Thorium 230	-0.1	pCi/Filter	U	0.2		E907.0	07/18/08 12:39 / dmf
Thorium 230 precision (±)	0.8	pCi/Filter				E907.0	07/18/08 12:39 / dmf

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.



HIGH VOLUME AIR SAMPLING REPORT

CLIENT: AATA International Inc.

REPORT DATE: August 8, 2008

SAMPLE ID: HV-4

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci/mL}$	Error Estimate $\mu\text{Ci/mL}$	L.L.D. $\mu\text{Ci/mL}$	Effluent Conc.* $\mu\text{Ci/mL}$	% Effluent Concentration
C08070118-004 3/1/08 - 6/5/08 Air Volume in mLs 4.11E+09	^{nat} U	< 1.00E-16	N/A	1.00E-16	9.00E-14	< 1.11E-01
	²³⁰ Th	< 1.00E-16	N/A	1.00E-16	3.00E-14	< 3.33E-01
	²²⁶ Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
	²¹⁰ Pb	9.24E-15	6.01E-15	2.00E-15	6.00E-13	1.54E+00

LLD's are from Reg. Guide 4.14



LABORATORY ANALYTICAL REPORT

Client: AATA International Inc
 Project: URE-Project 301-809
 Lab ID: C08070118-005
 Client Sample ID: HV-5

Report Date: 08/08/08
 Collection Date: 06/05/08
 Date Received: 07/02/08
 Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS							
Uranium	ND	mg/filter	D	0.0006		SW6020	07/25/08 01:03 / ts
Uranium, Activity	ND	pCi/Filter	D	0.4		SW6020	07/25/08 01:03 / ts
RADIONUCLIDES - TOTAL							
Lead 210	21.7	pCi/Filter	U			E909.0M	07/17/08 09:30 / dm
Lead 210 precision (±)	26.2	pCi/Filter				E909.0M	07/17/08 09:30 / dm
Lead 210 MDC	43.1	pCi/Filter				E909.0M	07/17/08 09:30 / dm
Radium 226	-1.1	pCi/Filter	U			E903.0	07/23/08 21:14 / trs
Radium 226 precision (±)	0.7	pCi/Filter				E903.0	07/23/08 21:14 / trs
Radium 226 MDC	1.6	pCi/Filter				E903.0	07/23/08 21:14 / trs
Thorium 230	-0.1	pCi/Filter	U	0.2		E907.0	07/18/08 12:39 / dmf
Thorium 230 precision (±)	0.9	pCi/Filter				E907.0	07/18/08 12:39 / dmf

Report RL - Analyte reporting limit.
Definitions: 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.



HIGH VOLUME AIR SAMPLING REPORT

CLIENT: AATA International Inc.

REPORT DATE: August 8, 2008

SAMPLE ID: HV-5

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci/mL}$	Error Estimate $\mu\text{Ci/mL}$	L.L.D. $\mu\text{Ci/mL}$	Effluent Conc.* $\mu\text{Ci/mL}$	% Effluent Concentration
C08070118-005 3/1/08 - 6/5/08 Air Volume in mLs 4.11E+09	^{nat} U	< 1.00E-16	N/A	1.00E-16	9.00E-14	< 1.11E-01
	²³⁰ Th	< 1.00E-16	N/A	1.00E-16	3.00E-14	< 3.33E-01
	²²⁶ Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
	²¹⁰ Pb	5.28E-15	6.37E-15	2.00E-15	6.00E-13	8.79E-01

LLD's are from Reg. Guide 4.14



QA/QC Summary Report

Client: AATA International Inc

Report Date: 08/08/08

Project: URE-Project 301-809

Work Order: C08070118

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: 19031
Sample ID: C08070134-001EMS	Sample Matrix Spike								Run: BERTHOLD 770_080717C 07/23/08 21:14
Radium 226	81	pCi/L		104	70	130			
Sample ID: C08070134-001EMSD	Sample Matrix Spike Duplicate								Run: BERTHOLD 770_080717C 07/23/08 21:14
Radium 226	79	pCi/L		102	70	130	2.3	24.5	
Sample ID: MB-19031	Method Blank								Run: BERTHOLD 770_080717C 07/23/08 22:55
Radium 226	-0.6	pCi/L							U
Sample ID: LCS-19031	Laboratory Control Sample								Run: BERTHOLD 770_080717C 07/23/08 22:55
Radium 226	15	pCi/L		97	70	130			
Method: E907.0									Batch: 19031
Sample ID: C08070118-001AMS	Sample Matrix Spike								Run: EGG-ORTEC_080714B 07/21/08 15:28
Thorium 230	103	pCi/Filter	0.20	112	70	130			
Sample ID: C08070118-001AMSD	Sample Matrix Spike Duplicate								Run: EGG-ORTEC_080714B 07/21/08 15:30
Thorium 230	90.4	pCi/Filter	0.20	99	70	130	13	30	
Sample ID: LCS-19031	Laboratory Control Sample								Run: EGG-ORTEC_080714B 07/21/08 15:33
Thorium 230	52	pCi/L	0.20	104	70	130			
Sample ID: MB-19031	Method Blank								Run: EGG-ORTEC_080714B 07/18/08 12:39
Thorium 230	0.3	pCi/L							U
Method: E909.0M									Batch: R105519
Sample ID: MB-R105519	Method Blank								Run: PACKARD 3100TR_080717A 07/17/08 09:30
Lead 210	-4	pCi/L							U
Sample ID: LCS-R105519	Laboratory Control Sample								Run: PACKARD 3100TR_080717A 07/17/08 09:30
Lead 210	98	pCi/L		86	70	130			
Sample ID: C08070206-002AMS	Sample Matrix Spike								Run: PACKARD 3100TR_080717A 07/17/08 09:30
Lead 210	1020	pCi/Filter		81	70	130			
Sample ID: C08070206-002AMSD	Sample Matrix Spike Duplicate								Run: PACKARD 3100TR_080717A 07/17/08 09:30
Lead 210	1350	pCi/Filter		110	70	130	28	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: AATA International Inc

Report Date: 08/08/08

Project: URE-Project 301-809

Work Order: C08070118

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020									Batch: 19031
Sample ID: MB-19031	Method Blank								Run: ICPMS2-C_080721A 07/21/08 12:37
Uranium	4E-05	mg/filter	2E-05						
Sample ID: LCS1-19031	Laboratory Control Sample								Run: ICPMS2-C_080721A 07/21/08 12:43
Uranium	0.0528	mg/filter	0.00030	100	80	120			
Sample ID: C08070118-005AMS	Sample Matrix Spike								Run: ICPMS2-C_080724A 07/25/08 01:08
Uranium	0.468	mg/filter	0.00057	94	75	125			
Sample ID: C08070118-005AMSD	Sample Matrix Spike Duplicate								Run: ICPMS2-C_080724A 07/25/08 01:12
Uranium	0.493	mg/filter	0.00057	99	75	125	5.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Date: 08-Aug-08

CLIENT: AATA International Inc
Project: URE-Project 301-809
Sample Delivery Group: C08070118

CASE NARRATIVE

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

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 USING EPA 505

Data for Atrazine and Simazine are reported from EPA 525.2, not from EPA 505. Data reported by ELI using EPA method 505 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; FL-DOH NELAC: E87641; Arizona: AZ0699; 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.



ANALYTICAL SUMMARY REPORT

December 05, 2008

AATA International Inc
300 E Boardwalk Dr STE 4A
Fort Collins, CO 80525

Workorder No.: C08110642 Quote ID: C2783 - UR Energy Lost Creek
Project Name: UR Energy 301-809

Energy Laboratories, Inc. received the following 6 samples for AATA International Inc on 11/18/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C08110642-001	HV-1	08/29/08 00:00	11/18/08	Filter	Composite of two or more samples Metals, Total Digestion, Total Metals Lead 210 Radium 226 Thorium, Isotopic
C08110642-002	HV-2	08/29/08 00:00	11/18/08	Filter	Same As Above
C08110642-003	HV-3	08/29/08 00:00	11/18/08	Filter	Same As Above
C08110642-004	HV-4	08/29/08 00:00	11/18/08	Filter	Same As Above
C08110642-005	HV-5	08/29/08 00:00	11/18/08	Filter	Same As Above
C08110642-006	HV-B	08/29/08 00:00	11/18/08	Filter	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: 
STEVE CARLSTON



LABORATORY ANALYTICAL REPORT

Client: AATA International Inc
 Project: UR Energy 301-809
 Lab ID: C08110642-001
 Client Sample ID: HV-1

Report Date: 12/05/08
 Collection Date: 08/29/08
 Date Received: 11/18/08
 Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS							
Uranium	0.0028	mg/filter	B	0.0003		SW6020	11/21/08 15:55 / ts
Uranium, Activity	1.9	pCi/Filter		0.2		SW6020	11/21/08 15:55 / ts
RADIONUCLIDES - TOTAL							
Lead 210	75	pCi/Filter				E909.0M	11/24/08 10:30 / dm
Lead 210 precision (±)	25	pCi/Filter				E909.0M	11/24/08 10:30 / dm
Lead 210 MDC	39	pCi/Filter				E909.0M	11/24/08 10:30 / dm
Radium 226	-0.1	pCi/Filter	U			E903.0	11/26/08 15:33 / trs
Radium 226 precision (±)	0.9	pCi/Filter				E903.0	11/26/08 15:33 / trs
Radium 226 MDC	1.6	pCi/Filter				E903.0	11/26/08 15:33 / trs
Thorium 230	0.66	pCi/Filter		0.20		E907.0	11/25/08 14:33 / dmf
Thorium 230 precision (±)	1	pCi/Filter				E907.0	11/25/08 14:33 / dmf

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.
 B - The analyte was detected in the method blank.



HIGH VOLUME AIR SAMPLING REPORT

CLIENT: AATA International Inc.

REPORT DATE: December 5, 2008

SAMPLE ID: HV-1

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci/mL}$	Error Estimate $\mu\text{Ci/mL}$	L.L.D. $\mu\text{Ci/mL}$	Effluent Conc.* $\mu\text{Ci/mL}$	% Effluent Concentration
C08110642-001 6/5/08 - 8/29/08 Air Volume in mLs 3.39E+09	^{nat} U	5.61E-16	N/A	1.00E-16	9.00E-14	6.24E-01
	²³⁰ Th	1.95E-16	2.95E-16	1.00E-16	3.00E-14	6.50E-01
	²²⁶ Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
	²¹⁰ Pb	2.22E-14	7.38E-15	2.00E-15	6.00E-13	3.69E+00

LLD's are from Reg. Guide 4.14



LABORATORY ANALYTICAL REPORT

Client: AATA International Inc
 Project: UR Energy 301-809
 Lab ID: C08110642-002
 Client Sample ID: HV-2

Report Date: 12/05/08
 Collection Date: 08/29/08
 Date Received: 11/18/08
 Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS							
Uranium	0.0008	mg/filter	B	0.0003		SW6020	11/21/08 16:01 / ts
Uranium, Activity	0.5	pCi/Filter		0.2		SW6020	11/21/08 16:01 / ts
RADIONUCLIDES - TOTAL							
Lead 210	55	pCi/Filter				E909.0M	11/20/08 11:05 / dm
Lead 210 precision (±)	25	pCi/Filter				E909.0M	11/20/08 11:05 / dm
Lead 210 MDC	41	pCi/Filter				E909.0M	11/20/08 11:05 / dm
Radium 226	-1	pCi/Filter	U			E903.0	11/26/08 15:33 / trs
Radium 226 precision (±)	0.6	pCi/Filter				E903.0	11/26/08 15:33 / trs
Radium 226 MDC	1.6	pCi/Filter				E903.0	11/26/08 15:33 / trs
Thorium 230	-1.0	pCi/Filter	U	0.20		E907.0	11/25/08 14:33 / dmf
Thorium 230 precision (±)	0.7	pCi/Filter				E907.0	11/25/08 14:33 / dmf

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.
 B - The analyte was detected in the method blank.



HIGH VOLUME AIR SAMPLING REPORT

CLIENT: AATA International Inc.

REPORT DATE: December 5, 2008

SAMPLE ID: HV-2

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci/mL}$	Error Estimate $\mu\text{Ci/mL}$	L.L.D. $\mu\text{Ci/mL}$	Effluent Conc.* $\mu\text{Ci/mL}$	% Effluent Concentration
C08110642-002 6/5/08 - 8/29/08 Air Volume in mLs 3.39E+09	^{nat} U	1.48E-16	N/A	1.00E-16	9.00E-14	1.64E-01
	²³⁰ Th	< 1.00E-16	N/A	1.00E-16	3.00E-14	< 3.33E-01
	²²⁶ Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
	²¹⁰ Pb	1.62E-14	7.38E-15	2.00E-15	6.00E-13	2.70E+00

LLD's are from Reg. Guide 4.14



LABORATORY ANALYTICAL REPORT

Client: AATA International Inc
Project: UR Energy 301-809
Lab ID: C08110642-003
Client Sample ID: HV-3

Report Date: 12/05/08
Collection Date: 08/29/08
Date Received: 11/18/08
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS							
Uranium	0.0006	mg/filter	B	0.0003		SW6020	11/21/08 16:08 / ts
Uranium, Activity	0.4	pCi/Filter		0.2		SW6020	11/21/08 16:08 / ts
RADIONUCLIDES - TOTAL							
Lead 210	48	pCi/Filter				E909.0M	11/20/08 11:05 / dm
Lead 210 precision (±)	25	pCi/Filter				E909.0M	11/20/08 11:05 / dm
Lead 210 MDC	41	pCi/Filter				E909.0M	11/20/08 11:05 / dm
Radium 226	-1	pCi/Filter	U			E903.0	11/26/08 15:33 / trs
Radium 226 precision (±)	0.7	pCi/Filter				E903.0	11/26/08 15:33 / trs
Radium 226 MDC	1.8	pCi/Filter				E903.0	11/26/08 15:33 / trs
Thorium 230	0.88	pCi/Filter		0.20		E907.0	11/25/08 14:33 / dmf
Thorium 230 precision (±)	1	pCi/Filter				E907.0	11/25/08 14:33 / dmf

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.
B - The analyte was detected in the method blank.



HIGH VOLUME AIR SAMPLING REPORT

CLIENT: AATA International Inc.

REPORT DATE: December 5, 2008

SAMPLE ID: HV-3

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci/mL}$	Error Estimate $\mu\text{Ci/mL}$	L.L.D. $\mu\text{Ci/mL}$	Effluent Conc.* $\mu\text{Ci/mL}$	% Effluent Concentration
C08110642-003 6/5/08 - 8/29/08 Air Volume in mLs 3.39E+09	^{235}U	1.18E-16	N/A	1.00E-16	9.00E-14	1.31E-01
	^{230}Th	2.59E-16	2.95E-16	1.00E-16	3.00E-14	8.64E-01
	^{226}Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
	^{210}Pb	1.41E-14	7.37E-15	2.00E-15	6.00E-13	2.36E+00

LLD's are from Reg. Guide 4.14



LABORATORY ANALYTICAL REPORT

Client: AATA International Inc
 Project: UR Energy 301-809
 Lab ID: C08110642-004
 Client Sample ID: HV-4

Report Date: 12/05/08
 Collection Date: 08/29/08
 Date Received: 11/18/08
 Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS							
Uranium	0.0005	mg/filter	B	0.0003		SW6020	11/21/08 16:14 / ts
Uranium, Activity	0.3	pCi/Filter		0.2		SW6020	11/21/08 16:14 / ts
RADIONUCLIDES - TOTAL							
Lead 210	66	pCi/Filter				E909.0M	11/20/08 11:05 / dm
Lead 210 precision (±)	25	pCi/Filter				E909.0M	11/20/08 11:05 / dm
Lead 210 MDC	41	pCi/Filter				E909.0M	11/20/08 11:05 / dm
Radium 226	-0.4	pCi/Filter	U			E903.0	11/26/08 15:33 / trs
Radium 226 precision (±)	0.9	pCi/Filter				E903.0	11/26/08 15:33 / trs
Radium 226 MDC	1.6	pCi/Filter				E903.0	11/26/08 15:33 / trs
Thorium 230	0.27	pCi/Filter		0.20		E907.0	11/25/08 14:33 / dmf
Thorium 230 precision (±)	0.6	pCi/Filter				E907.0	11/25/08 14:33 / dmf

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.
 B - The analyte was detected in the method blank.



HIGH VOLUME AIR SAMPLING REPORT

CLIENT: AATA International Inc.

REPORT DATE: December 5, 2008

SAMPLE ID: HV-4

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci/mL}$	Error Estimate $\mu\text{Ci/mL}$	L.L.D. $\mu\text{Ci/mL}$	Effluent Conc.* $\mu\text{Ci/mL}$	% Effluent Concentration
C08110642-004 6/5/08 - 8/29/08 Air Volume in mLs 3.39E+09	^{nat} U	< 1.00E-16	N/A	1.00E-16	9.00E-14	< 1.11E-01
	²³⁰ Th	< 1.00E-16	N/A	1.00E-16	3.00E-14	< 3.33E-01
	²²⁶ Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
	²¹⁰ Pb	1.95E-14	7.38E-15	2.00E-15	6.00E-13	3.25E+00

LLD's are from Reg. Guide 4.14



LABORATORY ANALYTICAL REPORT

Client: AATA International Inc
Project: UR Energy 301-809
Lab ID: C08110642-005
Client Sample ID: HV-5

Report Date: 12/05/08
Collection Date: 08/29/08
Date Received: 11/18/08
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS							
Uranium	0.0011	mg/filter	B	0.0003		SW6020	11/21/08 16:21 / ts
Uranium, Activity	0.7	pCi/Filter		0.2		SW6020	11/21/08 16:21 / ts
RADIONUCLIDES - TOTAL							
Lead 210	48	pCi/Filter				E909.0M	11/20/08 11:05 / dm
Lead 210 precision (±)	25	pCi/Filter				E909.0M	11/20/08 11:05 / dm
Lead 210 MDC	41	pCi/Filter				E909.0M	11/20/08 11:05 / dm
Radium 226	-0.2	pCi/Filter	U			E903.0	11/26/08 15:33 / trs
Radium 226 precision (±)	0.9	pCi/Filter				E903.0	11/26/08 15:33 / trs
Radium 226 MDC	1.6	pCi/Filter				E903.0	11/26/08 15:33 / trs
Thorium 230	0.28	pCi/Filter		0.20		E907.0	11/25/08 14:33 / dmf
Thorium 230 precision (±)	0.9	pCi/Filter				E907.0	11/25/08 14:33 / dmf

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.
B - The analyte was detected in the method blank.



HIGH VOLUME AIR SAMPLING REPORT

CLIENT: AATA International Inc.

REPORT DATE: December 5, 2008

SAMPLE ID: HV-5

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci/mL}$	Error Estimate $\mu\text{Ci/mL}$	L.L.D. $\mu\text{Ci/mL}$	Effluent Conc.* $\mu\text{Ci/mL}$	% Effluent Concentration
C08110642-005 6/5/08 - 8/29/08 Air Volume in mLs 3.17E+09	^{nat} U	2.21E-16	N/A	1.00E-16	9.00E-14	2.45E-01
	²³⁰ Th	< 1.00E-16	N/A	1.00E-16	3.00E-14	< 3.33E-01
	²²⁶ Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
	²¹⁰ Pb	1.51E-14	7.88E-15	2.00E-15	6.00E-13	2.52E+00

LLD's are from Reg. Guide 4.14



LABORATORY ANALYTICAL REPORT

Client: AATA International Inc
Project: UR Energy 301-809
Lab ID: C08110642-006
Client Sample ID: HV-B

Report Date: 12/05/08
Collection Date: 08/29/08
Date Received: 11/18/08
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS							
Uranium	0.0013	mg/filter	B	0.0003		SW6020	11/21/08 18:03 / ts
Uranium, Activity	0.9	pCi/Filter		0.2		SW6020	11/21/08 18:03 / ts
RADIONUCLIDES - TOTAL							
Lead 210	7.9	pCi/Filter	U			E909.0M	11/20/08 11:05 / dm
Lead 210 precision (±)	24	pCi/Filter				E909.0M	11/20/08 11:05 / dm
Lead 210 MDC	41	pCi/Filter				E909.0M	11/20/08 11:05 / dm
Radium 226	-0.3	pCi/Filter	U			E903.0	11/26/08 15:33 / trs
Radium 226 precision (±)	0.9	pCi/Filter				E903.0	11/26/08 15:33 / trs
Radium 226 MDC	1.6	pCi/Filter				E903.0	11/26/08 15:33 / trs
Thorium 230	-0.6	pCi/Filter	U	0.20		E907.0	11/25/08 14:33 / dmf
Thorium 230 precision (±)	0.9	pCi/Filter				E907.0	11/25/08 14:33 / dmf

**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.
B - The analyte was detected in the method blank.

HIGH VOLUME AIR SAMPLING REPORT

CLIENT: AATA International Inc.

REPORT DATE: December 5, 2008

SAMPLE ID: HV-B

Quarter/Date Sampled Air Volume	Radionuclide	Concentration μCi/mL	Error Estimate μCi/mL	L.L.D. μCi/mL	Effluent Conc.* μCi/mL	% Effluent Concentration
C08110642-006 6/5/08 - 8/29/08 Air Volume in mLs 3.30E+09	^{nat} U	2.73E-16	N/A	1.00E-16	9.00E-14	3.03E-01
	²³⁰ Th	< 1.00E-16	N/A	1.00E-16	3.00E-14	< 3.33E-01
	²²⁶ Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
	²¹⁰ Pb	2.39E-15	7.27E-15	2.00E-15	6.00E-13	3.99E-01

LLD's are from Reg. Guide 4.14



QA/QC Summary Report

Client: AATA International Inc
Project: UR Energy 301-809

Report Date: 12/05/08
Work Order: C08110642

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: R111656
Sample ID: C08110642-003AMS Radium 226	Sample Matrix Spike 136	pCi/Filter		89	70	130			Run: BERTHOLD 770-1_081120A 11/26/08 15:33
Sample ID: C08110642-003AMSD Radium 226	Sample Matrix Spike Duplicate 155	pCi/Filter		99	70	130	13	23.9	Run: BERTHOLD 770-1_081120A 11/26/08 15:33
Sample ID: MB-20606 Radium 226	Method Blank -1.0	pCi/Filter							Run: BERTHOLD 770-1_081120A 11/26/08 15:33 U
Sample ID: LCS-20606 Radium 226	Laboratory Control Sample 14.5	pCi/Filter		98	70	130			Run: BERTHOLD 770-1_081120A 11/26/08 17:09
Method: E907.0									Batch: 20606
Sample ID: C08110642-001AMS Thorium 230	Sample Matrix Spike 52	pCi/Filter	0.20	108	70	130			Run: EGG-ORTEC_081120A 11/25/08 14:33
Sample ID: C08110642-001AMSD Thorium 230	Sample Matrix Spike Duplicate 47	pCi/Filter	0.20	93	70	130	11	53.5	Run: EGG-ORTEC_081120A 11/25/08 14:33
Sample ID: LCS-20606 Thorium 230	Laboratory Control Sample 27	pCi/Filter	0.20	109	70	130			Run: EGG-ORTEC_081120A 11/25/08 14:33
Sample ID: MB-20606 Thorium 230	Method Blank 0.2	pCi/Filter							Run: EGG-ORTEC_081120A 11/25/08 14:33 U
Method: E909.0M									Batch: R111690
Sample ID: C08110642-006AMS Lead 210	Sample Matrix Spike 677	pCi/Filter		115	70	130			Run: PACKARD 3100TR_081120B 11/20/08 11:05
Sample ID: C08110642-006AMSD Lead 210	Sample Matrix Spike Duplicate 612	pCi/Filter		104	70	130	10	30	Run: PACKARD 3100TR_081120B 11/20/08 11:05
Sample ID: MB-R111690 Lead 210	Method Blank 20	pCi/Filter							Run: PACKARD 3100TR_081120B 11/20/08 11:05 U
Sample ID: LCS-R111690 Lead 210	Laboratory Control Sample 534	pCi/Filter		89	70	130			Run: PACKARD 3100TR_081120B 11/20/08 11:05

Qualifiers:

RL - Analyte reporting limit.
 U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: AATA International Inc
Project: UR Energy 301-809

Report Date: 12/05/08
Work Order: C08110642

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M									Batch: R111857
Sample ID: C08110331-002AMS	Sample Matrix Spike								
Lead 210	151	pCi/g-dry		146	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: C08110331-002AMSD	Sample Matrix Spike Duplicate								
Lead 210	130	pCi/g-dry		126	70	130	15	30	
Sample ID: MB-R111857	Method Blank								
Lead 210	-0.3	pCi/L							U
Sample ID: LCS-R111857	Laboratory Control Sample								
Lead 210	68	pCi/L		118	70	130			
Method: SW6020									Batch: 20606
Sample ID: MB-20606	Method Blank								
Uranium	0.002	mg/filter	6E-05						
Sample ID: LCS1-20606	Laboratory Control Sample								
Uranium	0.0981	mg/filter	0.00030	96	75	125			
Sample ID: C08110642-006AMS	Sample Matrix Spike								
Uranium	0.0498	mg/filter	0.00030	97	75	125			
Sample ID: C08110642-006AMSD	Sample Matrix Spike Duplicate								
Uranium	0.0497	mg/filter	0.00030	97	75	125	0.3		
Sample ID: C08110642-006AMS	Sample Matrix Spike								
Uranium	0.0524	mg/filter	0.00030	102	75	125			
Sample ID: C08110642-006AMSD	Sample Matrix Spike Duplicate								
Uranium	0.0525	mg/filter	0.00030	103	75	125	0.3		

Qualifiers:

RL - Analyte reporting limit.
 S - Spike recovery outside of advisory limits.

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



CLIENT: AATA International Inc
Project: UR Energy 301-809
Sample Delivery Group: C08110642

Date: 05-Dec-08

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 USING EPA 505

Data for Atrazine and Simazine are reported from EPA 525.2, not from EPA 505. Data reported by ELI using EPA method 505 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, FL-DOH NELAC: E87641; 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



ANALYTICAL SUMMARY REPORT

December 30, 2008

AATA International Inc
300 E Boardwalk Dr STE 4A
Fort Collins, CO 80525

Workorder No.: C08120278 Quote ID: C2783 - UR Energy Lost Creek
Project Name: URE LC 301

Energy Laboratories, Inc. received the following 6 samples for AATA International Inc on 12/8/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C08120278-001	HV-1	12/02/08 00:00	12/08/08	Filter	Composite of two or more samples Metals, Total Digestion, Total Metals Lead 210 Radium 226 Thorium, Isotopic
C08120278-002	HV-2	12/02/08 00:00	12/08/08	Filter	Same As Above
C08120278-003	HV-3	12/02/08 00:00	12/08/08	Filter	Same As Above
C08120278-004	HV-4	12/02/08 00:00	12/08/08	Filter	Same As Above
C08120278-005	HV-5	12/02/08 00:00	12/08/08	Filter	Same As Above
C08120278-006	HV-B	12/02/08 00:00	12/08/08	Filter	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: 
STEVE CARLSTON



LABORATORY ANALYTICAL REPORT

Client: AATA International Inc
 Project: URE LC 301
 Lab ID: C08120278-001
 Client Sample ID: HV-1

Report Date: 12/30/08
 Collection Date: 12/02/08
 Date Received: 12/08/08
 Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS							
Uranium	ND	mg/filter		0.0003		SW6020	12/16/08 01:14 / sml
Uranium, Activity	ND	pCi/Filter		0.2		SW6020	12/16/08 01:14 / sml
RADIONUCLIDES - TOTAL							
Lead 210	69	pCi/Filter				E909.0M	12/18/08 09:00 / dm
Lead 210 precision (±)	23	pCi/Filter				E909.0M	12/18/08 09:00 / dm
Lead 210 MDC	37	pCi/Filter				E909.0M	12/18/08 09:00 / dm
Radium 226	-0.3	pCi/Filter	U			E903.0	12/23/08 21:38 / trs
Radium 226 precision (±)	0.8	pCi/Filter				E903.0	12/23/08 21:38 / trs
Radium 226 MDC	1.4	pCi/Filter				E903.0	12/23/08 21:38 / trs
Thorium 230	-0.4	pCi/Filter	U	0.20		E907.0	12/12/08 15:00 / dmf
Thorium 230 precision (±)	0.19	pCi/Filter				E907.0	12/12/08 15:00 / dmf

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



HIGH VOLUME AIR SAMPLING REPORT

CLIENT: AATA International Inc.

REPORT DATE: December 30, 2008

SAMPLE ID: HV-1

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci}/\text{mL}$	Error Estimate $\mu\text{Ci}/\text{mL}$	L.L.D. $\mu\text{Ci}/\text{mL}$	Effluent Conc.* $\mu\text{Ci}/\text{mL}$	% Effluent Concentration
C08120278-001 8/29/08 - 12/2/08 Air Volume in mLs 4.07E+09	^{235}U	< 1.00E-16	N/A	1.00E-16	9.00E-14	< 1.11E-01
	^{230}Th	< 1.00E-16	N/A	1.00E-16	3.00E-14	< 3.33E-01
	^{226}Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
	^{210}Pb	1.69E-14	5.64E-15	2.00E-15	6.00E-13	2.82E+00

LLD's are from Reg. Guide 4.14



LABORATORY ANALYTICAL REPORT

Client: AATA International Inc
 Project: URE LC 301
 Lab ID: C08120278-002
 Client Sample ID: HV-2

Report Date: 12/30/08
 Collection Date: 12/02/08
 Date Received: 12/08/08
 Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS							
Uranium	ND	mg/filter		0.0003		SW6020	12/16/08 01:18 / sml
Uranium, Activity	ND	pCi/Filter		0.2		SW6020	12/16/08 01:18 / sml
RADIONUCLIDES - TOTAL							
Lead 210	66	pCi/Filter				E909.0M	12/18/08 09:00 / dm
Lead 210 precision (±)	23	pCi/Filter				E909.0M	12/18/08 09:00 / dm
Lead 210 MDC	37	pCi/Filter				E909.0M	12/18/08 09:00 / dm
Radium 226	-0.8	pCi/Filter	U			E903.0	12/23/08 21:38 / trs
Radium 226 precision (±)	0.7	pCi/Filter				E903.0	12/23/08 21:38 / trs
Radium 226 MDC	1.4	pCi/Filter				E903.0	12/23/08 21:38 / trs
Thorium 230	-0.5	pCi/Filter	U	0.20		E907.0	12/12/08 15:00 / dmf
Thorium 230 precision (±)	0.19	pCi/Filter				E907.0	12/12/08 15:00 / dmf

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



HIGH VOLUME AIR SAMPLING REPORT

CLIENT: AATA International Inc.

REPORT DATE: December 30, 2008

SAMPLE ID: HV-2

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci}/\text{mL}$	Error Estimate $\mu\text{Ci}/\text{mL}$	L.L.D. $\mu\text{Ci}/\text{mL}$	Effluent Conc.* $\mu\text{Ci}/\text{mL}$	% Effluent Concentration
C08120278-002 8/29/08 - 12/2/08 Air Volume in mLs 4.08E+09	^{235}U	< 1.00E-16	N/A	1.00E-16	9.00E-14	< 1.11E-01
	^{230}Th	< 1.00E-16	N/A	1.00E-16	3.00E-14	< 3.33E-01
	^{226}Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
	^{210}Pb	1.62E-14	5.64E-15	2.00E-15	6.00E-13	2.70E+00

LLD's are from Reg. Guide 4.14



LABORATORY ANALYTICAL REPORT

Client: AATA International Inc
 Project: URE LC 301
 Lab ID: C08120278-003
 Client Sample ID: HV-3

Report Date: 12/30/08
 Collection Date: 12/02/08
 Date Received: 12/08/08
 Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS							
Uranium	ND	mg/filter		0.0003		SW6020	12/16/08 01:22 / sml
Uranium, Activity	ND	pCi/Filter		0.2		SW6020	12/16/08 01:22 / sml
RADIONUCLIDES - TOTAL							
Lead 210	77	pCi/Filter				E909.0M	12/18/08 09:00 / dm
Lead 210 precision (±)	23	pCi/Filter				E909.0M	12/18/08 09:00 / dm
Lead 210 MDC	37	pCi/Filter				E909.0M	12/18/08 09:00 / dm
Radium 226	-0.8	pCi/Filter	U			E903.0	12/23/08 21:38 / trs
Radium 226 precision (±)	0.6	pCi/Filter				E903.0	12/23/08 21:38 / trs
Radium 226 MDC	1.4	pCi/Filter				E903.0	12/23/08 21:38 / trs
Thorium 230	-1.4	pCi/Filter	U	0.20		E907.0	12/12/08 15:00 / dmf
Thorium 230 precision (±)	0.19	pCi/Filter				E907.0	12/12/08 15:00 / dmf

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



HIGH VOLUME AIR SAMPLING REPORT

CLIENT: AATA International Inc.

REPORT DATE: December 30, 2008

SAMPLE ID: HV-3

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci/mL}$	Error Estimate $\mu\text{Ci/mL}$	L.L.D. $\mu\text{Ci/mL}$	Effluent Conc.* $\mu\text{Ci/mL}$	% Effluent Concentration
C08120278-003 8/29/08 - 12/2/08 Air Volume in mLs 4.04E+09	^{235}U	< 1.00E-16	N/A	1.00E-16	9.00E-14	< 1.11E-01
	^{230}Th	< 1.00E-16	N/A	1.00E-16	3.00E-14	< 3.33E-01
	^{226}Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
	^{210}Pb	1.91E-14	5.69E-15	2.00E-15	6.00E-13	3.18E+00

LLD's are from Reg. Guide 4.14



LABORATORY ANALYTICAL REPORT

Client: AATA International Inc
 Project: URE LC 301
 Lab ID: C08120278-004
 Client Sample ID: HV-4

Report Date: 12/30/08
 Collection Date: 12/02/08
 Date Received: 12/08/08
 Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS							
Uranium	0.0003	mg/filter		0.0003		SW6020	12/16/08 01:26 / sml
Uranium, Activity	0.2	pCi/Filter		0.2		SW6020	12/16/08 01:26 / sml
RADIONUCLIDES - TOTAL							
Lead 210	70	pCi/Filter				E909.0M	12/18/08 09:00 / dm
Lead 210 precision (±)	23	pCi/Filter				E909.0M	12/18/08 09:00 / dm
Lead 210 MDC	37	pCi/Filter				E909.0M	12/18/08 09:00 / dm
Radium 226	-0.8	pCi/Filter	U			E903.0	12/23/08 21:38 / trs
Radium 226 precision (±)	0.7	pCi/Filter				E903.0	12/23/08 21:38 / trs
Radium 226 MDC	1.4	pCi/Filter				E903.0	12/23/08 21:38 / trs
Thorium 230	-0.8	pCi/Filter	U	0.20		E907.0	12/12/08 15:00 / dmf
Thorium 230 precision (±)	0.1	pCi/Filter				E907.0	12/12/08 15:00 / dmf

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



HIGH VOLUME AIR SAMPLING REPORT

CLIENT: AATA International Inc.

REPORT DATE: December 30, 2008

SAMPLE ID: HV-4

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci/mL}$	Error Estimate $\mu\text{Ci/mL}$	L.L.D. $\mu\text{Ci/mL}$	Effluent Conc.* $\mu\text{Ci/mL}$	% Effluent Concentration
C08120278-004 8/29/08 - 12/2/08 Air Volume in mLs 4.08E+09	^{nat} U	< 1.00E-16	N/A	1.00E-16	9.00E-14	< 1.11E-01
	²³⁰ Th	< 1.00E-16	N/A	1.00E-16	3.00E-14	< 3.33E-01
	²²⁶ Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
	²¹⁰ Pb	1.72E-14	5.64E-15	2.00E-15	6.00E-13	2.86E+00

LLD's are from Reg. Guide 4.14



LABORATORY ANALYTICAL REPORT

Client: AATA International Inc
Project: URE LC 301
Lab ID: C08120278-005
Client Sample ID: HV-5

Report Date: 12/30/08
Collection Date: 12/02/08
Date Received: 12/08/08
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS							
Uranium	0.0003	mg/filter		0.0003		SW6020	12/16/08 01:46 / sml
Uranium, Activity	0.2	pCi/Filter		0.2		SW6020	12/16/08 01:46 / sml
RADIONUCLIDES - TOTAL							
Lead 210	89	pCi/Filter				E909.0M	12/18/08 09:00 / dm
Lead 210 precision (±)	23	pCi/Filter				E909.0M	12/18/08 09:00 / dm
Lead 210 MDC	37	pCi/Filter				E909.0M	12/18/08 09:00 / dm
Radium 226	-0.7	pCi/Filter	U			E903.0	12/23/08 21:38 / trs
Radium 226 precision (±)	0.7	pCi/Filter				E903.0	12/23/08 21:38 / trs
Radium 226 MDC	1.4	pCi/Filter				E903.0	12/23/08 21:38 / trs
Thorium 230	-0.7	pCi/Filter	U	0.20		E907.0	12/12/08 15:00 / dmf
Thorium 230 precision (±)	0.19	pCi/Filter				E907.0	12/12/08 15:00 / dmf

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



HIGH VOLUME AIR SAMPLING REPORT

CLIENT: AATA International Inc.

REPORT DATE: December 30, 2008

SAMPLE ID: HV-5

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci/mL}$	Error Estimate $\mu\text{Ci/mL}$	L.L.D. $\mu\text{Ci/mL}$	Effluent Conc.* $\mu\text{Ci/mL}$	% Effluent Concentration
C08120278-005 8/29/08 - 12/2/08 Air Volume in mLs 3.85E+09	^{nat} U	< 1.00E-16	N/A	1.00E-16	9.00E-14	< 1.11E-01
	²³⁰ Th	< 1.00E-16	N/A	1.00E-16	3.00E-14	< 3.33E-01
	²²⁶ Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
	²¹⁰ Pb	2.31E-14	5.98E-15	2.00E-15	6.00E-13	3.86E+00

LLD's are from Reg. Guide 4.14



LABORATORY ANALYTICAL REPORT

Client: AATA International Inc
 Project: URE LC 301
 Lab ID: C08120278-006
 Client Sample ID: HV-B

Report Date: 12/30/08
 Collection Date: 12/02/08
 Date Received: 12/08/08
 Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TRACE METALS							
Uranium	ND	mg/filter		0.0003		SW6020	12/16/08 01:50 / sml
Uranium, Activity	ND	pCi/Filter		0.2		SW6020	12/16/08 01:50 / sml
RADIONUCLIDES - TOTAL							
Lead 210	-1	pCi/Filter	U			E909.0M	12/18/08 09:00 / dm
Lead 210 precision (±)	22	pCi/Filter				E909.0M	12/18/08 09:00 / dm
Lead 210 MDC	37	pCi/Filter				E909.0M	12/18/08 09:00 / dm
Radium 226	0.5	pCi/Filter	U			E903.0	12/23/08 21:38 / trs
Radium 226 precision (±)	0.9	pCi/Filter				E903.0	12/23/08 21:38 / trs
Radium 226 MDC	1.4	pCi/Filter				E903.0	12/23/08 21:38 / trs
Thorium 230	-0.9	pCi/Filter	U	0.20		E907.0	12/12/08 15:00 / dmf
Thorium 230 precision (±)	0.1	pCi/Filter				E907.0	12/12/08 15:00 / dmf

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



HIGH VOLUME AIR SAMPLING REPORT

CLIENT: AATA International Inc.

REPORT DATE: December 30, 2008

SAMPLE ID: HV-B

Quarter/Date Sampled Air Volume	Radionuclide	Concentration $\mu\text{Ci}/\text{mL}$	Error Estimate $\mu\text{Ci}/\text{mL}$	L.L.D. $\mu\text{Ci}/\text{mL}$	Effluent Conc.* $\mu\text{Ci}/\text{mL}$	% Effluent Concentration
C08120278-006 8/29/08 - 12/2/08 Air Volume in mLs 4.05E+09	^{235}U	< 1.00E-16	N/A	1.00E-16	9.00E-14	< 1.11E-01
	^{230}Th	< 1.00E-16	N/A	1.00E-16	3.00E-14	< 3.33E-01
	^{226}Ra	1.23E-16	2.22E-16	1.00E-16	9.00E-13	1.37E-02
	^{210}Pb	< 2.00E-15	N/A	2.00E-15	6.00E-13	< 3.33E-01

LLD's are from Reg. Guide 4.14



QA/QC Summary Report

Client: AATA International Inc
Project: URE LC 301

Report Date: 12/30/08
Work Order: C08120278

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: R112780
Sample ID: C08120259-002FDUP Radium 226	Sample Duplicate -0.013	pCi/L			70	130	280		12/23/08 21:38 845 U
Sample ID: C08120278-006AMS Radium 226	Sample Matrix Spike 104	pCi/Filter		73	70	130			Run: BERTHOLD 770-2_081216A 12/23/08 23:22
Sample ID: LCS-20824 Radium 226	Laboratory Control Sample 12	pCi/L		90	70	130			Run: BERTHOLD 770-2_081216A 12/23/08 23:22
Sample ID: MB-20824 Radium 226	Method Blank -0.9	pCi/L							Run: BERTHOLD 770-2_081216A 12/23/08 23:22 U
Method: E907.0									Batch: RA-TH-ISO-0711
Sample ID: C08120222-001AMS Thorium 230	Sample Matrix Spike 61.9	pCi/Filter	0.20	124	70	130			Run: EGG-ORTEC_081212A 12/12/08 15:00
Sample ID: C08120222-001AMSD Thorium 230	Sample Matrix Spike Duplicate 56.6	pCi/Filter	0.20	110	70	130	9		Run: EGG-ORTEC_081212A 12/12/08 15:00 30
Sample ID: LCS-20767 Thorium 230	Laboratory Control Sample 23.6	pCi/Filter	0.20	107	70	130			Run: EGG-ORTEC_081212A 12/12/08 15:00
Sample ID: MB-20767 Thorium 230	Method Blank 0.10	pCi/Filter							Run: EGG-ORTEC_081212A 12/12/08 15:00 U
Method: E909.0M									Batch: R112811
Sample ID: C08120278-001AMS Lead 210	Sample Matrix Spike 1290	pCi/Filter		111	70	130			Run: PACKARD 3100TR_081218B 12/18/08 09:00
Sample ID: C08120278-001AMSD Lead 210	Sample Matrix Spike Duplicate 1050	pCi/Filter		89	70	130	21		Run: PACKARD 3100TR_081218B 12/18/08 09:00 30
Sample ID: MB-R112811 Lead 210	Method Blank -1	pCi/L							Run: PACKARD 3100TR_081218B 12/18/08 09:00 U
Sample ID: LCS-R112811 Lead 210	Laboratory Control Sample 110	pCi/L		98	70	130			Run: PACKARD 3100TR_081218B 12/18/08 09:00

Qualifiers:

RL - Analyte reporting limit.

U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: AATA International Inc
Project: URE LC 301

Report Date: 12/30/08
Work Order: C08120278

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020									Batch: 20797
Sample ID: MB-20797 Uranium	Method Blank 7E-05	mg/L							Run: ICPMS4-C_081215A 12/16/08 00:54
Sample ID: LCS1-20797 Uranium	Laboratory Control Sample 0.0996	mg/L	0.00030	99	75	125			Run: ICPMS4-C_081215A 12/16/08 00:58
Sample ID: C08120278-006AMS Uranium	Sample Matrix Spike 0.0539	mg/filter	0.00030	108	75	125			Run: ICPMS4-C_081215A 12/16/08 01:54
Sample ID: C08120278-006AMSD Uranium	Sample Matrix Spike Duplicate 0.0543	mg/filter	0.00030	108	75	125	0.6	20	Run: ICPMS4-C_081215A 12/16/08 01:58

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



CLIENT: AATA International Inc
Project: URE LC 301
Sample Delivery Group: C08120278

Date: 30-Dec-08

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 USING EPA 505

Data for Atrazine and Simazine are reported from EPA 525.2, not from EPA 505. Data reported by ELI using EPA method 505 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; FL-DOH NELAC: E87641; 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

Appendix APS-2

Energy Laboratories Explanation for Q2 Qualified Uranium Results
Baseline Radiological Air Particulate Sampling
Lost Creek In Situ Uranium Project



December 10, 2008

Duncan Eccleston
AATA International Inc
300 E Boardwalk Dr Ste 4A
Fort Collins, CO 80525

Subject: Explanation of contaminated Uranium Method Blank (MB) on High Volume air filter samples. Work Order - C08110642.

Dear Mr. Eccleston:

The following is an explanation of Energy Laboratories, Inc. (ELI) "best guess" of what might have occurred with the analysis of uranium on the air filters.

On November 18, 2008, six air filters were received at ELI requesting the analysis of NRC Reg. Guide, 4.14 radionuclides: U-nat, Th230, Ra226, and Pb210. On 11/20/08, the filters were digested to a final volume of 0.95 liters using EPA Method 3050. After filtration, a subsample of the filtrate was split into 50 ml conical tubes and given to the Metals Department for the analysis of uranium by EPA SW846 Method 6020.

All six samples including the batch QC (MB and LCS) were analyzed for uranium on 11/21/08. Since uranium was detected in the MB at 0.002 mg/L, the entire sample batch was re-analyzed on 11/22/08. A detect of 0.002 mg/L was again detected in the MB and all six samples were identified with a "B" qualifier indicating the MB contained contamination. In situations where additional sample is available the batch would have been re-digested and reanalyzed, but unfortunately, in the case of air filters, it is not possible to re-digest as the filter is consumed in the original digest.

Therefore, since the filters cannot be re-digested, ELI is of the opinion that either the uranium MB itself got contaminated or the entire batch could have been exposed to uranium contamination during the digestion process. The former conjecture is based on the fact that all of the batch QC samples were within acceptable limits and replication of the duplicate analysis was also within specifications and the latter is explained by an apparent higher than historical field blank value in sample 006 (HV-B).

I hope this is of some value to you and ELI apologizes for the inconvenience this has caused.

Please feel free to contact me if you have any questions.

Sincerely,

Steve Dobos
Client Services Manager