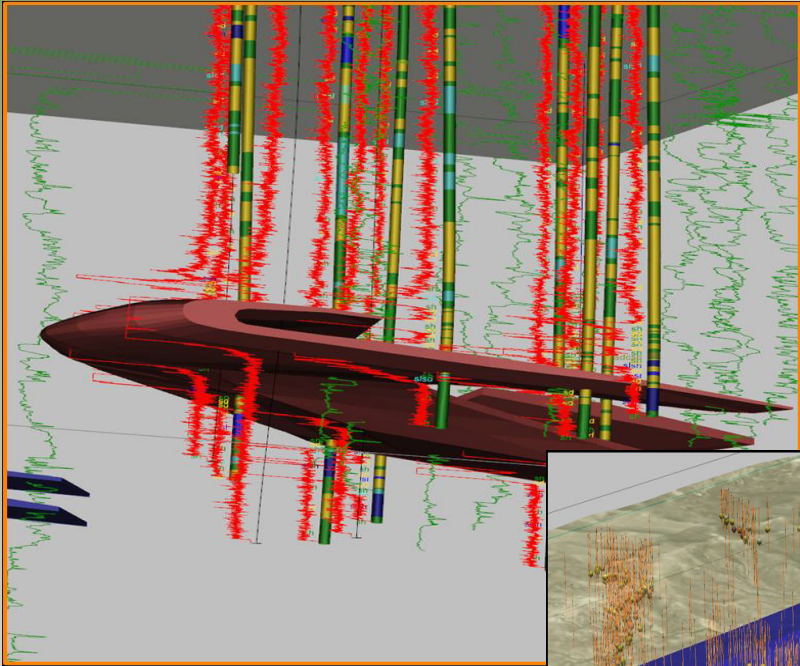
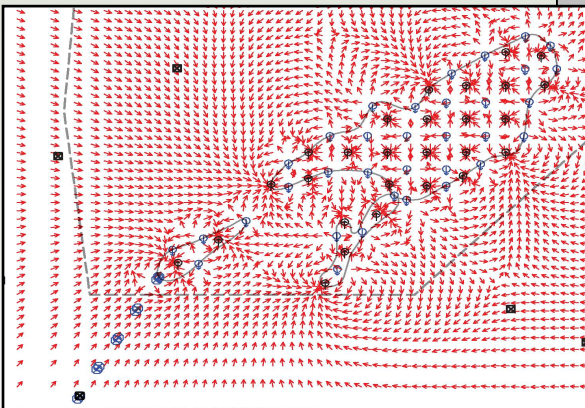
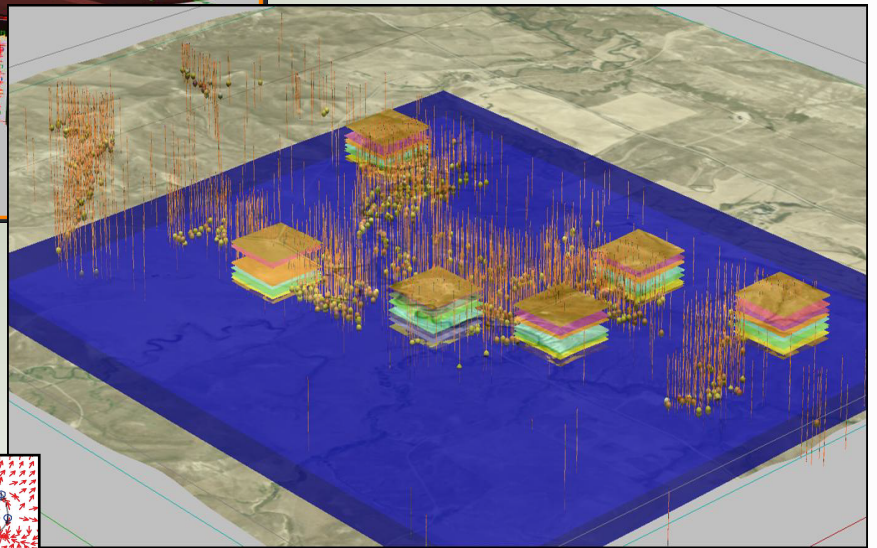


***Ross ISR Project USNRC License Application
Crook County, Wyoming***



December 2010



**Technical Report
Volume 6 of 6
Addenda 2.9-C through 6.4-A**



TABLE OF CONTENTS

VOLUME 1 OF 6

CHAPTER 1 - PROPOSED ACTIVITIES

1.0	PROPOSED ACTIVITIES	1-1
1.1	Licensing Action Requested	1-1
1.2	Project History.....	1-1
1.3	Corporate Entities Involved.....	1-4
1.4	Project Location and Setting.....	1-4
1.5	Land Ownership	1-5
1.6	Ore Body Description	1-5
1.7	ISR Methods and Recovery Process.....	1-6
1.8	Operating Plans, Design Throughput, and Production.....	1-7
1.9	Project Schedule.....	1-9
1.10	Waste Management and Disposal	1-10
1.11	Groundwater Restoration, Decommissioning and Site Reclamation	1-11
1.12	Financial Assurance	1-13
1.13	Engineering and Design.....	1-13
1.14	References	1-20

CHAPTER 2 - SITE CHARACTERIZATION

2.0	SITE CHARACTERIZATION	2-1
2.1	Site Location and Layout	2-2
2.2	Land Use.....	2-8
2.3	Population Distribution	2-12
2.4	Historic, Scenic, and Cultural Resources	2-14
2.5	Meteorology, Climatology, and Air Quality.....	2-20
2.6	Geology and Soils	2-81
2.7	Water Resources.....	2-130
2.8	Ecological Resources	2-278
2.9	Background Radiological Characteristics	2-285
2.10	Other Environmental Features	2-371
2.11	References.....	2-374

TABLE OF CONTENTS (CONTINUED)

VOLUME 2 OF 6

CHAPTER 3 - DESCRIPTION OF PROPOSED FACILITY

3.0 DESCRIPTION OF PROPOSED FACILITY 3-1
3.1 ISR Process and Equipment..... 3-3
3.2 Recovery Plant, Processing, and Chemical Storage Facilities 3-48
3.3 Instrumentation and Control 3-80
3.4 References 3-86

CHAPTER 4 - EFFLUENT CONTROL SYSTEMS

4.0 EFFLUENT CONTROL SYSTEMS 4-1
4.1 Gaseous Emissions and Airborne Particulates 4-2
4.2 Liquid Waste 4-7
4.3 Solid Waste and Contaminated Equipment 4-35
4.4 References 4-39

CHAPTER 5 - OPERATIONS

5.0 OPERATIONS 5-1
5.1 Corporate Organization and Administrative Procedures 5-2
5.2 Management Control Program 5-9
5.3 Management Audit and Inspection Program..... 5-16
5.4 Qualifications for Persons Conducting the Radiation Safety
Program 5-23
5.5 Radiation Safety Training 5-25
5.6 Security..... 5-29
5.7 Radiation Safety Controls and Monitoring..... 5-31
5.8 References 5-111

**CHAPTER 6 - GROUNDWATER RESTORATION, SURFACE RECLAMATION,
AND FACILITY DECOMMISSIONING PLAN**

6.0 GROUNDWATER RESTORATION, SURFACE RECLAMATION, AND
FACILITY DECOMMISSIONING PLAN..... 6-1
6.1 Groundwater Restoration 6-2
6.2 Reclamation of Disturbed Land..... 6-39
6.3 Procedures for Removal and Disposal of Structures and
Equipment 6-46
6.4 Methodologies for Conducting Post-Reclamation and
Decommissioning Radiological Surveys..... 6-49
6.5 Financial Assurance 6-62
6.6 References 6-63

TABLE OF CONTENTS (CONTINUED)

VOLUME 2 OF 6

CHAPTER 7 - POTENTIAL ENVIRONMENTAL IMPACTS

7.0	POTENTIAL ENVIRONMENTAL IMPACTS	7-1
7.1	Potential Impacts during Construction for the Proposed Action	7-2
7.2	Potential Impacts during Operation and Decommissioning for the Proposed Action	7-24
7.3	Radiological Effects	7-42
7.4.	Non Radiological Effects	7-70
7.5	Effects of Accidents	7-73
7.6	Economic and Social Effects of Construction and Operations	7-101
7.7	References	7-102

CHAPTER 8 - ALTERNATIVES

8.0	ALTERNATIVES	8-1
8.1	Description of Alternatives	8-1
8.2	Comparison of the Predicted Environmental Impacts	8-18
8.3	References	8-35

CHAPTER 9 - COST-BENEFIT ANALYSIS

9.0	COST-BENEFIT ANALYSIS	9-1
9.1	General	9-1
9.2	Potential Economic Benefits	9-2
9.3	Potential Benefits of the No-Action Alternative	9-5
9.4	Potential External Costs of the Project	9-6
9.5	Potential Internal Costs of the Project	9-12
9.6	Benefit Cost Summary	9-13
9.7	Summary	9-14
9.8	References	9-17

CHAPTER 10 - ENVIRONMENTAL APPROVALS AND CONSULTATIONS

10.0	ENVIRONMENTAL APPROVALS AND CONSULTATIONS	10-1
------	---	------

CHAPTER 11 - LIST OF PREPARERS

11.0	LIST OF PREPARERS	11-1
------	-------------------------	------

GLOSSARY

TABLE OF CONTENTS (CONTINUED)

VOLUME 3 OF 6

LIST OF ADDENDA

ADDENDUM 1.2-A	Nubeth R&D (Nuclear Dynamics/Sundance Project) Site Decommissioning Documents
ADDENDUM 1.9-A	RAI/Comment Tables
ADDENDUM 2.6-A	Mike Buswell Thesis
ADDENDUM 2.6-B	Exploration/Delineation Drillhole Tabulation
ADDENDUM 2.6-C	Geologic Cross Sections
ADDENDUM 2.6-D	Isopachs and Structure Contour Maps
ADDENDUM 2.6-E	Plugging of Drill Holes and Repair and Abandonment of Wells
ADDENDUM 2.7-A	HEC-HMS Surface Water Hydrologic Model
ADDENDUM 2.7-B	Miller Peak Flow Analysis
ADDENDUM 2.7-C	Flood Inundation Study

TABLE OF CONTENTS (CONTINUED)

VOLUME 4 OF 6

LIST OF ADDENDA

ADDENDUM 2.7-D	Surface Water Quality Data Summary
ADDENDUM 2.7-E	Surface Water Quality Field Sheets and Laboratory Reports
ADDENDUM 2.7-F	Aquifer Test Report
ADDENDUM 2.7-G	Regional Baseline Monitor Well Hydrographs
ADDENDUM 2.7-H	Groundwater Model

TABLE OF CONTENTS (CONTINUED)

VOLUME 5 OF 6

LIST OF ADDENDA

ADDENDUM 2.7-I	Groundwater Quality Data Summary
ADDENDUM 2.7-J	Groundwater Quality Monitoring Field Sheets and Laboratory Reports
ADDENDUM 2.7-K	Groundwater Quality Comparison to Standards
ADDENDUM 2.7-L	Quality Assurance Report on Aqueous Results
ADDENDUM 2.7-M	SEO Permits for Regional Baseline Wells
ADDENDUM 2.9-A	Radiological Sampling and Analysis Plan
ADDENDUM 2.9-B	Baseline Gamma Radiation Survey and Soil Radium-226 Correlation Report

TABLE OF CONTENTS (CONTINUED)

VOLUME 6 OF 6

LIST OF ADDENDA

ADDENDUM 2.9-C	Baseline Radiological Monitoring Results and Laboratory Reports
ADDENDUM 2.9-D	Baseline Radiological Monitoring Results and Final Conclusions (4 th Qtr 2010)
ADDENDUM 3.1-A	Ross ISR Project Facilities Engineering Report
ADDENDUM 4.2-A	Class I Deep Disposal Well Field Application
ADDENDUM 4.2-B	Class I Deep Disposal Well Field Application Correspondence
ADDENDUM 6.1-A	Restoration Action Plan with Financial Assurance Estimate
ADDENDUM 6.4-A	RESRAD Model Supporting Documentation

ADDENDUM 2.9-C
BASELINE RADIOLOGICAL MONITORING
RESULTS AND LABORATORY REPORTS

GROUNDWATER

Regional Baseline Monitor Well Data

Ross ISR Project

2

TR Addendum 2.9-C

Station ID	Zone	Quarter	Sample Date	Analyte*	Value	Units	Detect Limit	Error	10 CFR 20 (µCi/ml)	Value in µCi/ml	NAD 83 Northing	NAD 83 Easting	Depth Interval	Depth to Water (ft)	Method	Contract Laboratory
12-18DM	DM	1Q10	3/10/10	Gross Alpha	4.700	pCi/l	2.0000	2.500	NA	NA	1487561.3	709213.4	612' - 632'	175.99	SM 7110B	IML
12-18DM	DM	1Q10	3/10/10	Gross Beta	24.100	pCi/l	3.9000	4.000	NA	NA	1487561.3	709213.4	612' - 632'	175.99	SM 7110B	IML
12-18DM	DM	1Q10	3/10/10	Ra-226, D	0.280	pCi/l	0.2000	0.090	6.E-08	2.80E-10	1487561.3	709213.4	612' - 632'	175.99	SM 7500-Ra B	IML
12-18DM	DM	1Q10	3/10/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1487561.3	709213.4	612' - 632'	175.99	Ra-05	IML
12-18DM	DM	1Q10	3/10/10	Rn-222	242.000	pCi/l	30.0000	37.000	NA	NA	1487561.3	709213.4	612' - 632'	175.99	SM7500-RN	IML
12-18DM	DM	1Q10	3/10/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1487561.3	709213.4	612' - 632'	175.99	EPA 200.8	IML
12-18DM	DM	2Q10	6/18/10	Gross Alpha	3.200	pCi/l	3.1000	2.000	NA	NA	1487561.3	709213.4	612' - 632'	175.54	SM 7110B	IML
12-18DM	DM	2Q10	6/18/10	Gross Beta	18.800	pCi/l	7.0000	4.300	NA	NA	1487561.3	709213.4	612' - 632'	175.54	SM 7110B	IML
12-18DM	DM	2Q10	6/18/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1487561.3	709213.4	612' - 632'	175.54	OTW01	IML
12-18DM	DM	2Q10	6/18/10	Pb-210, S	<1	pCi/l	1.0000		1.E-08	NA	1487561.3	709213.4	612' - 632'	175.54	OTW01	IML
12-18DM	DM	2Q10	6/18/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1487561.3	709213.4	612' - 632'	175.54	OTW01	IML
12-18DM	DM	2Q10	6/18/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1487561.3	709213.4	612' - 632'	175.54	OTW01	IML
12-18DM	DM	2Q10	6/18/10	Ra-226, D	0.220	pCi/l	0.2000	0.080	6.E-08	2.20E-10	1487561.3	709213.4	612' - 632'	175.54	SM 7500-Ra B	IML
12-18DM	DM	2Q10	6/18/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1487561.3	709213.4	612' - 632'	175.54	SM 7500-Ra B	IML
12-18DM	DM	2Q10	6/18/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1487561.3	709213.4	612' - 632'	175.54	Ra-05	IML
12-18DM	DM	2Q10	6/18/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1487561.3	709213.4	612' - 632'	175.54	ACW10	IML
12-18DM	DM	2Q10	6/18/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1487561.3	709213.4	612' - 632'	175.54	ACW10	IML
12-18DM	DM	2Q10	6/18/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1487561.3	709213.4	612' - 632'	175.54	EPA 200.8	IML
12-18DM	DM	2Q10	6/18/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1487561.3	709213.4	612' - 632'	175.54	EPA 200.8	IML
12-18DM	DM	3Q10	8/10/10	Gross Alpha	<2	pCi/l	2.0000		NA	NA	1487561.3	709213.4	612' - 632'	176.08	SM 7110B	IML
12-18DM	DM	3Q10	8/10/10	Gross Beta	12.000	pCi/l	3.0000	3.700	NA	NA	1487561.3	709213.4	612' - 632'	176.08	SM 7110B	IML
12-18DM	DM	3Q10	8/10/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1487561.3	709213.4	612' - 632'	176.08	OTW01	IML
12-18DM	DM	3Q10	8/10/10	Pb-210, S	<1	pCi/l	1.0000		1.E-08	NA	1487561.3	709213.4	612' - 632'	176.08	OTW01	IML
12-18DM	DM	3Q10	8/10/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1487561.3	709213.4	612' - 632'	176.08	OTW01	IML
12-18DM	DM	3Q10	8/10/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1487561.3	709213.4	612' - 632'	176.08	OTW01	IML
12-18DM	DM	3Q10	8/10/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1487561.3	709213.4	612' - 632'	176.08	SM 7500-Ra B	IML
12-18DM	DM	3Q10	8/10/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1487561.3	709213.4	612' - 632'	176.08	SM 7500-Ra B	IML
12-18DM	DM	3Q10	8/10/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1487561.3	709213.4	612' - 632'	176.08	Ra-05	IML
12-18DM	DM	3Q10	8/10/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1487561.3	709213.4	612' - 632'	176.08	ACW10	IML
12-18DM	DM	3Q10	8/10/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1487561.3	709213.4	612' - 632'	176.08	ACW10	IML
12-18DM	DM	3Q10	8/10/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1487561.3	709213.4	612' - 632'	176.08	EPA 200.8	IML
12-18DM	DM	3Q10	8/10/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1487561.3	709213.4	612' - 632'	176.08	EPA 200.8	IML
12-18DM	DM	4Q10	10/6/10	Gross Alpha	<2	pCi/l	2.0000		NA	NA	1487561.3	709213.4	612' - 632'	175.91	SM 7110B	IML
12-18DM	DM	4Q10	10/6/10	Gross Beta	11.800	pCi/l	3.0000	4.100	NA	NA	1487561.3	709213.4	612' - 632'	175.91	SM 7110B	IML
12-18DM	DM	4Q10	10/6/10	Ra-226, D	0.400	pCi/l	0.2000	0.100	6.E-08	4.00E-10	1487561.3	709213.4	612' - 632'	175.91	SM 7500-Ra B	IML
12-18DM	DM	4Q10	10/6/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1487561.3	709213.4	612' - 632'	175.91	Ga-Tech	IML
12-18DM	DM	4Q10	10/6/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1487561.3	709213.4	612' - 632'	175.91	EPA 200.8	IML
12-18OZ	OZ	1Q10	3/10/10	Gross Alpha	222.000	pCi/l	2.0000	11.000	NA	NA	1487530.2	709175.7	474' - 584'	169.93	SM 7110B	IML
12-18OZ	OZ	1Q10	3/10/10	Gross Beta	26.500	pCi/l	4.1000	4.200	NA	NA	1487530.2	709175.7	474' - 584'	169.93	SM 7110B	IML
12-18OZ	OZ	1Q10	3/10/10	Ra-226, D	8.160	pCi/l	0.2000	0.430	6.E-08	8.16E-09	1487530.2	709175.7	474' - 584'	169.93	SM 7500-Ra B	IML
12-18OZ	OZ	1Q10	3/10/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1487530.2	709175.7	474' - 584'	169.93	Ra-05	IML
12-18OZ	OZ	1Q10	3/10/10	Rn-222	32900.000	pCi/l	0.0000	3700.000	NA	NA	1487530.2	709175.7	474' - 584'	169.93	SM7500-RN	IML
12-18OZ	OZ	1Q10	3/10/10	U, D	0.070	mg/l	0.0010		3.E-07	4.69E-08	1487530.2	709175.7	474' - 584'	169.93	EPA 200.8	IML
12-18OZ	OZ	2Q10	6/18/10	Gross Alpha	157.500	pCi/l	2.0000	9.000	NA	NA	1487530.2	709175.7	474' - 584'	169.79	SM 7110B	IML
12-18OZ	OZ	2Q10	6/18/10	Gross Beta	24.100	pCi/l	3.8000	4.300	NA	NA	1487530.2	709175.7	474' - 584'	169.79	SM 7110B	IML
12-18OZ	OZ	2Q10	6/18/10	Pb-210, D	4.830	pCi/l	1.0000	0.850	1.E-08	4.83E-09	1487530.2	709175.7	474' - 584'	169.79	OTW01	IML
12-18OZ	OZ	2Q10	6/18/10	Pb-210, S	1.700	pCi/l	1.0000	0.560	1.E-08	1.70E-09	1487530.2	709175.7	474' - 584'	169.79	OTW01	IML
12-18OZ	OZ	2Q10	6/18/10	Po-210, D	22.900	pCi/l	1.0000	1.900	4.E-08	2.29E-08	1487530.2	709175.7	474' - 584'	169.79	OTW01	IML
12-18OZ	OZ	2Q10	6/18/10	Po-210, S	35.000	pCi/l	1.0000	2.100	4.E-08	3.50E-08	1487530.2	709175.7	474' - 584'	169.79	OTW01	IML
12-18OZ	OZ	2Q10	6/18/10	Ra-226, D	5.000	pCi/l	0.2000	0.350	6.E-08	5.00E-09	1487530.2	709175.7	474' - 584'	169.79	SM 7500-Ra B	IML
12-18OZ	OZ	2Q10	6/18/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1487530.2	709175.7	474' - 584'	169.79	SM 7500-Ra B	IML
12-18OZ	OZ	2Q10	6/18/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1487530.2	709175.7	474' - 584'	169.79	Ra-05	IML
12-18OZ	OZ	2Q10	6/18/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1487530.2	709175.7	474' - 584'	169.79	ACW10	IML
12-18OZ	OZ	2Q10	6/18/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1487530.2	709175.7	474' - 584'	169.79	ACW10	IML
12-18OZ	OZ	2Q10	6/18/10	U, D	0.033	mg/l	0.0010		3.E-07	2.21E-08	1487530.2	709175.7	474' - 584'	169.79	EPA 200.8	IML
12-18OZ	OZ	2Q10	6/18/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1487530.2	709175.7	474' - 584'	169.79	EPA 200.8	IML
12-18OZ	OZ	3Q10	7/22/10	Gross Alpha	177.000	pCi/l	3.3000	9.700	NA	NA	1487530.2	709175.7	474' - 584'	170.74	SM 7110B	IML
12-18OZ	OZ	3Q10	7/22/10	Gross Beta	43.200	pCi/l	6.6000	4.400	NA	NA	1487530.2	709175.7	474' - 584'	170.74	SM 7110B	IML
12-18OZ	OZ	3Q10	7/22/10	Pb-210, D	4.890	pCi/l	1.0000	0.560	1.E-08	4.89E-09	1487530.2	709175.7	474' - 584'	170.74	OTW01	IML
12-18OZ	OZ	3Q10	7/22/10	Pb-210, S	1.870	pCi/l	1.0000	0.450	1.E-08	1.87E-09	1487530.2	709175.7	474' - 584'	170.74	OTW01	IML
12-18OZ	OZ	3Q10	7/22/10	Po-210, D	22.200	pCi/l	1.0000	2.200	4.E-08	2.22E-08	1487530.2	709175.7	474' - 584'	170.74	OTW01	IML
12-18OZ	OZ	3Q10	7/22/10	Po-210, S	17.200	pCi/l	1.0000	1.500	4.E-08	1.72E-08	1487530.2	709175.7	474' - 584'	170.74	OTW01	IML
12-18OZ	OZ	3Q10	7/22/10	Ra-226, D	12.010	pCi/l	0.2000	0.460	6.E-08	1.20E-08	1487530.2	709175.7	474' - 584'	170.74	SM 7500-Ra B	IML
12-18OZ	OZ	3Q10	7/22/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1487530.2	709175.7	474' - 584'	170.74	SM 7500-Ra B	IML
12-18OZ	OZ	3Q10	7/22/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1487530.2	709175.7	474' - 584'	170.74	Ra-05	IML
12-18OZ	OZ	3Q10	7/22/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1487530.2	709175.7	474' - 584'	170.74	ACW10	IML

Regional Baseline Monitor Well Data

Ross ISR Project

3

TR Addendum 2.9-C

Station ID	Zone	Quarter	Sample Date	Analyte*	Value	Units	Detect Limit	Error	10 CFR 20 MPC (µCi/ml)	Value in µCi/ml	NAD 83 Northing	NAD 83 Easting	Depth Interval	Depth to Water (ft)	Method	Contract Laboratory
12-180Z	OZ	3Q10	7/22/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1487530.2	709175.7	474' - 584'	170.74	ACW10	IML
12-180Z	OZ	3Q10	7/22/10	U, D	0.069	mg/l	0.0010		3.E-07	4.62E-08	1487530.2	709175.7	474' - 584'	170.74	EPA 200.8	IML
12-180Z	OZ	3Q10	7/22/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1487530.2	709175.7	474' - 584'	170.74	EPA 200.8	IML
12-180Z	OZ	4Q10	10/6/10	Gross Alpha	93.900	pCi/l	2.0000	7.000	NA	NA	1487530.2	709175.7	474' - 584'	169.31	SM 7110B	IML
12-180Z	OZ	4Q10	10/6/10	Gross Beta	21.700	pCi/l	3.0000	4.300	NA	NA	1487530.2	709175.7	474' - 584'	169.31	SM 7110B	IML
12-180Z	OZ	4Q10	10/6/10	Ra-226, D	5.800	pCi/l	0.2000	0.300	6.E-08	5.80E-09	1487530.2	709175.7	474' - 584'	169.31	SM 7500-Ra B	IML
12-180Z	OZ	4Q10	10/6/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1487530.2	709175.7	474' - 584'	169.31	Ga-Tech	IML
12-180Z	OZ	4Q10	10/6/10	U, D	0.033	mg/l	0.0010		3.E-07	2.21E-08	1487530.2	709175.7	474' - 584'	169.31	EPA 200.8	IML
12-18SA	SA	1Q10	3/23/10	Gross Alpha	<2	pCi/l	2.0000		NA	NA	1487494.0	709207.1	63' - 103'	50.87	SM 7110B	IML
12-18SA	SA	1Q10	3/23/10	Gross Beta	15.800	pCi/l	3.0000	2.800	NA	NA	1487494.0	709207.1	63' - 103'	50.87	SM 7110B	IML
12-18SA	SA	1Q10	3/23/10	Ra-226, D	0.280	pCi/l	0.2000	0.100	6.E-08	2.80E-10	1487494.0	709207.1	63' - 103'	50.87	SM 7500-Ra B	IML
12-18SA	SA	1Q10	3/23/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1487494.0	709207.1	63' - 103'	50.87	Ra-05	IML
12-18SA	SA	1Q10	3/23/10	U, D	0.003	mg/l	0.0010		3.E-07	2.01E-09	1487494.0	709207.1	63' - 103'	50.87	EPA 200.8	IML
12-18SA	SA	2Q10	6/5/10	Gross Alpha	2.700	pCi/l	2.0000	1.500	NA	NA	1487494.0	709207.1	63' - 103'	48.03	SM 7110B	IML
12-18SA	SA	2Q10	6/5/10	Gross Beta	13.000	pCi/l	3.0000	2.700	NA	NA	1487494.0	709207.1	63' - 103'	48.03	SM 7110B	IML
12-18SA	SA	2Q10	6/5/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1487494.0	709207.1	63' - 103'	48.03	OTW01	IML
12-18SA	SA	2Q10	6/5/10	Pb-210, S	<1	pCi/l	1.0000		1.E-08	NA	1487494.0	709207.1	63' - 103'	48.03	OTW01	IML
12-18SA	SA	2Q10	6/5/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1487494.0	709207.1	63' - 103'	48.03	OTW01	IML
12-18SA	SA	2Q10	6/5/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1487494.0	709207.1	63' - 103'	48.03	OTW01	IML
12-18SA	SA	2Q10	6/5/10	Ra-226, D	0.240	pCi/l	0.2000	0.070	6.E-08	2.40E-10	1487494.0	709207.1	63' - 103'	48.03	SM 7500-Ra B	IML
12-18SA	SA	2Q10	6/5/10	Ra-226, S	0.240	pCi/l	0.2000	0.060	6.E-08	2.40E-10	1487494.0	709207.1	63' - 103'	48.03	SM 7500-Ra B	IML
12-18SA	SA	2Q10	6/5/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1487494.0	709207.1	63' - 103'	48.03	Ra-05	IML
12-18SA	SA	2Q10	6/5/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1487494.0	709207.1	63' - 103'	48.03	ACW10	IML
12-18SA	SA	2Q10	6/5/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1487494.0	709207.1	63' - 103'	48.03	ACW10	IML
12-18SA	SA	2Q10	6/5/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1487494.0	709207.1	63' - 103'	48.03	EPA 200.8	IML
12-18SA	SA	2Q10	6/5/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1487494.0	709207.1	63' - 103'	48.03	EPA 200.8	IML
12-18SA	SA	3Q10	8/11/10	Gross Alpha	<2	pCi/l	2.0000		NA	NA	1487494.0	709207.1	63' - 103'	47.69	SM 7110B	IML
12-18SA	SA	3Q10	8/11/10	Gross Beta	13.500	pCi/l	3.0000	1.200	NA	NA	1487494.0	709207.1	63' - 103'	47.69	SM 7110B	IML
12-18SA	SA	3Q10	8/11/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1487494.0	709207.1	63' - 103'	47.69	OTW01	IML
12-18SA	SA	3Q10	8/11/10	Pb-210, S	<1	pCi/l	1.0000		1.E-08	NA	1487494.0	709207.1	63' - 103'	47.69	OTW01	IML
12-18SA	SA	3Q10	8/11/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1487494.0	709207.1	63' - 103'	47.69	OTW01	IML
12-18SA	SA	3Q10	8/11/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1487494.0	709207.1	63' - 103'	47.69	OTW01	IML
12-18SA	SA	3Q10	8/11/10	Ra-226, D	0.200	pCi/l	0.2000	0.070	6.E-08	2.00E-10	1487494.0	709207.1	63' - 103'	47.69	SM 7500-Ra B	IML
12-18SA	SA	3Q10	8/11/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1487494.0	709207.1	63' - 103'	47.69	SM 7500-Ra B	IML
12-18SA	SA	3Q10	8/11/10	Ra-228, D	1.000	pCi/l	1.0000	0.800	6.E-08	1.00E-09	1487494.0	709207.1	63' - 103'	47.69	Ra-05	IML
12-18SA	SA	3Q10	8/11/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1487494.0	709207.1	63' - 103'	47.69	ACW10	IML
12-18SA	SA	3Q10	8/11/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1487494.0	709207.1	63' - 103'	47.69	ACW10	IML
12-18SA	SA	3Q10	8/11/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1487494.0	709207.1	63' - 103'	47.69	EPA 200.8	IML
12-18SA	SA	3Q10	8/11/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1487494.0	709207.1	63' - 103'	47.69	EPA 200.8	IML
12-18SA	SA	4Q10	10/4/10	Gross Alpha	4.000	pCi/l	2.0000	1.300	NA	NA	1487494.0	709207.1	63' - 103'	48	SM 7110B	IML
12-18SA	SA	4Q10	10/4/10	Gross Beta	11.200	pCi/l	3.0000	2.000	NA	NA	1487494.0	709207.1	63' - 103'	48	SM 7110B	IML
12-18SA	SA	4Q10	10/4/10	Ra-226, D	0.400	pCi/l	0.2000	0.100	6.E-08	4.00E-10	1487494.0	709207.1	63' - 103'	48	SM 7500-Ra B	IML
12-18SA	SA	4Q10	10/4/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1487494.0	709207.1	63' - 103'	48	Ra-05	IML
12-18SA	SA	4Q10	10/4/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1487494.0	709207.1	63' - 103'	48	EPA 200.8	IML
12-18SM	SM	1Q10	3/11/10	Gross Alpha	<2	pCi/l	2.0000		NA	NA	1487527.9	709246.4	342' - 352'	88.89	SM 7110B	IML
12-18SM	SM	1Q10	3/11/10	Gross Beta	3.300	pCi/l	3.0000	1.800	NA	NA	1487527.9	709246.4	342' - 352'	88.89	SM 7110B	IML
12-18SM	SM	1Q10	3/11/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1487527.9	709246.4	342' - 352'	88.89	SM 7500-Ra B	IML
12-18SM	SM	1Q10	3/11/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1487527.9	709246.4	342' - 352'	88.89	Ra-05	IML
12-18SM	SM	1Q10	3/11/10	Rn-222	309.000	pCi/l	28.0000	43.000	NA	NA	1487527.9	709246.4	342' - 352'	88.89	SM7500-RN	IML
12-18SM	SM	1Q10	3/11/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1487527.9	709246.4	342' - 352'	88.89	EPA 200.8	IML
12-18SM	SM	2Q10	6/18/10	Gross Alpha	2.100	pCi/l	3.1000	1.900	NA	NA	1487527.9	709246.4	342' - 352'	90.88	SM 7110B	IML
12-18SM	SM	2Q10	6/18/10	Gross Beta	<6.8	pCi/l	6.8000		NA	NA	1487527.9	709246.4	342' - 352'	90.88	SM 7110B	IML
12-18SM	SM	2Q10	6/18/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1487527.9	709246.4	342' - 352'	90.88	OTW01	IML
12-18SM	SM	2Q10	6/18/10	Pb-210, S	<1	pCi/l	1.0000		1.E-08	NA	1487527.9	709246.4	342' - 352'	90.88	OTW01	IML
12-18SM	SM	2Q10	6/18/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1487527.9	709246.4	342' - 352'	90.88	OTW01	IML
12-18SM	SM	2Q10	6/18/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1487527.9	709246.4	342' - 352'	90.88	OTW01	IML
12-18SM	SM	2Q10	6/18/10	Ra-226, D	0.240	pCi/l	0.2000	0.080	6.E-08	2.40E-10	1487527.9	709246.4	342' - 352'	90.88	SM 7500-Ra B	IML
12-18SM	SM	2Q10	6/18/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1487527.9	709246.4	342' - 352'	90.88	SM 7500-Ra B	IML
12-18SM	SM	2Q10	6/18/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1487527.9	709246.4	342' - 352'	90.88	Ra-05	IML
12-18SM	SM	2Q10	6/18/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1487527.9	709246.4	342' - 352'	90.88	ACW10	IML
12-18SM	SM	2Q10	6/18/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1487527.9	709246.4	342' - 352'	90.88	ACW10	IML
12-18SM	SM	2Q10	6/18/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1487527.9	709246.4	342' - 352'	90.88	EPA 200.8	IML
12-18SM	SM	2Q10	6/18/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1487527.9	709246.4	342' - 352'	90.88	EPA 200.8	IML
12-18SM	SM	3Q10	8/10/10	Gross Alpha	<2	pCi/l	2.0000		NA	NA	1487527.9	709246.4	342' - 352'	91.21	SM 7110B	IML
12-18SM	SM	3Q10	8/10/10	Gross Beta	<3	pCi/l	3.0000		NA	NA	1487527.9	709246.4	342' - 352'	91.21	SM 7110B	IML
12-18SM	SM	3Q10	8/10/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1487527.9	709246.4	342' - 352'	91.21	OTW01	IML

Regional Baseline Monitor Well Data

Ross ISR Project

4

TR Addendum 2.9-C

Station ID	Zone	Quarter	Sample Date	Analyte*	Value	Units	Detect Limit	Error	10 CFR 20 MPC (µCi/ml)	Value in µCi/ml	NAD 83 Northing	NAD 83 Easting	Depth Interval	Depth to Water (ft)	Method	Contract Laboratory
12-18SM	SM	3Q10	8/10/10	Pb-210, S	<1	pCi/l	1.0000		1.E-08	NA	1487527.9	709246.4	342' - 352'	91.21	OTW01	IML
12-18SM	SM	3Q10	8/10/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1487527.9	709246.4	342' - 352'	91.21	OTW01	IML
12-18SM	SM	3Q10	8/10/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1487527.9	709246.4	342' - 352'	91.21	OTW01	IML
12-18SM	SM	3Q10	8/10/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1487527.9	709246.4	342' - 352'	91.21	SM 7500-Ra B	IML
12-18SM	SM	3Q10	8/10/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1487527.9	709246.4	342' - 352'	91.21	SM 7500-Ra B	IML
12-18SM	SM	3Q10	8/10/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1487527.9	709246.4	342' - 352'	91.21	Ra-05	IML
12-18SM	SM	3Q10	8/10/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1487527.9	709246.4	342' - 352'	91.21	ACW10	IML
12-18SM	SM	3Q10	8/10/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1487527.9	709246.4	342' - 352'	91.21	ACW10	IML
12-18SM	SM	3Q10	8/10/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1487527.9	709246.4	342' - 352'	91.21	EPA 200.8	IML
12-18SM	SM	3Q10	8/10/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1487527.9	709246.4	342' - 352'	91.21	EPA 200.8	IML
12-18SM	SM	4Q10	10/6/10	Gross Alpha	<2	pCi/l	2.0000		NA	NA	1487527.9	709246.4	342' - 352'	91.12	SM 7110B	IML
12-18SM	SM	4Q10	10/6/10	Gross Beta	9.400	pCi/l	3.0000	4.000	NA	NA	1487527.9	709246.4	342' - 352'	91.12	SM 7110B	IML
12-18SM	SM	4Q10	10/6/10	Ra-226, D	0.200	pCi/l	0.2000	0.100	6.E-08	2.00E-10	1487527.9	709246.4	342' - 352'	91.12	SM 7500-Ra B	IML
12-18SM	SM	4Q10	10/6/10	Ra-228, D	2.270	pCi/l	1.0000	1.200	6.E-08	2.27E-09	1487527.9	709246.4	342' - 352'	91.12	Ga-Tech	IML
12-18SM	SM	4Q10	10/6/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1487527.9	709246.4	342' - 352'	91.12	EPA 200.8	IML
14-18DM	DM	1Q10	3/29/10	Gross Alpha	13.700	pCi/l	2.0000	3.200	NA	NA	1484888.0	710034.6	570' - 585'	157.17	SM 7110B	IML
14-18DM	DM	1Q10	3/29/10	Gross Beta	32.300	pCi/l	3.0000	4.200	NA	NA	1484888.0	710034.6	570' - 585'	157.17	SM 7110B	IML
14-18DM	DM	1Q10	3/29/10	Ra-226, D	0.350	pCi/l	0.2000	0.110	6.E-08	3.50E-10	1484888.0	710034.6	570' - 585'	157.17	SM 7500-Ra B	IML
14-18DM	DM	1Q10	3/29/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1484888.0	710034.6	570' - 585'	157.17	Ra-05	IML
14-18DM	DM	1Q10	3/29/10	Rn-222	156.000	pCi/l	25.0000	26.000	NA	NA	1484888.0	710034.6	570' - 585'	157.17	SM7500-RN	IML
14-18DM	DM	1Q10	3/29/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1484888.0	710034.6	570' - 585'	157.17	EPA 200.8	IML
14-18DM	DM	2Q10	6/16/10	Gross Alpha	2.100	pCi/l	2.0000	2.000	NA	NA	1484888.0	710034.6	570' - 585'	156.65	SM 7110B	IML
14-18DM	DM	2Q10	6/16/10	Gross Beta	17.200	pCi/l	4.1000	4.300	NA	NA	1484888.0	710034.6	570' - 585'	156.65	SM 7110B	IML
14-18DM	DM	2Q10	6/16/10	Pb-210, D	1.100	pCi/l	1.0000	0.990	1.E-08	1.10E-09	1484888.0	710034.6	570' - 585'	156.65	OTW01	IML
14-18DM	DM	2Q10	6/16/10	Pb-210, S	<1	pCi/l	1.0000		1.E-08	NA	1484888.0	710034.6	570' - 585'	156.65	OTW01	IML
14-18DM	DM	2Q10	6/16/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1484888.0	710034.6	570' - 585'	156.65	OTW01	IML
14-18DM	DM	2Q10	6/16/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1484888.0	710034.6	570' - 585'	156.65	OTW01	IML
14-18DM	DM	2Q10	6/16/10	Ra-226, D	0.210	pCi/l	0.2000	0.060	6.E-08	2.10E-10	1484888.0	710034.6	570' - 585'	156.65	SM 7500-Ra B	IML
14-18DM	DM	2Q10	6/16/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1484888.0	710034.6	570' - 585'	156.65	SM 7500-Ra B	IML
14-18DM	DM	2Q10	6/16/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1484888.0	710034.6	570' - 585'	156.65	Ra-05	IML
14-18DM	DM	2Q10	6/16/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1484888.0	710034.6	570' - 585'	156.65	ACW10	IML
14-18DM	DM	2Q10	6/16/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1484888.0	710034.6	570' - 585'	156.65	ACW10	IML
14-18DM	DM	2Q10	6/16/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1484888.0	710034.6	570' - 585'	156.65	EPA 200.8	IML
14-18DM	DM	2Q10	6/16/10	U, S	0.001	mg/l	0.0010		3.E-07	6.70E-10	1484888.0	710034.6	570' - 585'	156.65	EPA 200.8	IML
14-18DM	DM	3Q10	7/24/10	Gross Alpha	<3.1	pCi/l	3.1000		NA	NA	1484888.0	710034.6	570' - 585'	158.16	SM 7110B	IML
14-18DM	DM	3Q10	7/24/10	Gross Beta	8.240	pCi/l	6.7000	3.570	NA	NA	1484888.0	710034.6	570' - 585'	158.16	SM 7110B	IML
14-18DM	DM	3Q10	7/24/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1484888.0	710034.6	570' - 585'	158.16	OTW01	IML
14-18DM	DM	3Q10	7/24/10	Pb-210, S	<1	pCi/l	1.0000		1.E-08	NA	1484888.0	710034.6	570' - 585'	158.16	OTW01	IML
14-18DM	DM	3Q10	7/24/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1484888.0	710034.6	570' - 585'	158.16	OTW01	IML
14-18DM	DM	3Q10	7/24/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1484888.0	710034.6	570' - 585'	158.16	OTW01	IML
14-18DM	DM	3Q10	7/24/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1484888.0	710034.6	570' - 585'	158.16	SM 7500-Ra B	IML
14-18DM	DM	3Q10	7/24/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1484888.0	710034.6	570' - 585'	158.16	SM 7500-Ra B	IML
14-18DM	DM	3Q10	7/24/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1484888.0	710034.6	570' - 585'	158.16	Ra-05	IML
14-18DM	DM	3Q10	7/24/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1484888.0	710034.6	570' - 585'	158.16	ACW10	IML
14-18DM	DM	3Q10	7/24/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1484888.0	710034.6	570' - 585'	158.16	ACW10	IML
14-18DM	DM	3Q10	7/24/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1484888.0	710034.6	570' - 585'	158.16	EPA 200.8	IML
14-18DM	DM	3Q10	7/24/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1484888.0	710034.6	570' - 585'	158.16	EPA 200.8	IML
14-18DM	DM	4Q10	10/12/10	Gross Alpha	28.300	pCi/l	2.0000	4.200	NA	NA	1484888.0	710034.6	570' - 585'	156.48	SM 7110B	IML
14-18DM	DM	4Q10	10/12/10	Gross Beta	41.000	pCi/l	3.0000	4.400	NA	NA	1484888.0	710034.6	570' - 585'	156.48	SM 7110B	IML
14-18DM	DM	4Q10	10/12/10	Ra-226, D	0.400	pCi/l	0.2000	0.100	6.E-08	4.00E-10	1484888.0	710034.6	570' - 585'	156.48	SM 7500-Ra B	IML
14-18DM	DM	4Q10	10/12/10	Ra-228, D	1.560	pCi/l	1.0000	1.200	6.E-08	1.56E-09	1484888.0	710034.6	570' - 585'	156.48	Ga-Tech	IML
14-18DM	DM	4Q10	10/12/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1484888.0	710034.6	570' - 585'	156.48	EPA 200.8	IML
14-18OZ	OZ	1Q10	3/25/10	Gross Alpha	173.000	pCi/l	2.0000	10.000	NA	NA	1484921.5	709994.4	499' - 529'	158.1	SM 7110B	IML
14-18OZ	OZ	1Q10	3/25/10	Gross Beta	40.200	pCi/l	4.0900	4.800	NA	NA	1484921.5	709994.4	499' - 529'	158.1	SM 7110B	IML
14-18OZ	OZ	1Q10	3/25/10	Ra-226, D	2.310	pCi/l	0.2000	0.270	6.E-08	2.31E-09	1484921.5	709994.4	499' - 529'	158.1	SM 7500-Ra B	IML
14-18OZ	OZ	1Q10	3/25/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1484921.5	709994.4	499' - 529'	158.1	Ra-05	IML
14-18OZ	OZ	1Q10	3/25/10	Rn-222	13500.000	pCi/l	50.0000	1500.000	NA	NA	1484921.5	709994.4	499' - 529'	158.1	SM7500-RN	IML
14-18OZ	OZ	1Q10	3/25/10	U, D	0.096	mg/l	0.0010		3.E-07	6.43E-08	1484921.5	709994.4	499' - 529'	158.1	EPA 200.8	IML
14-18OZ	OZ	2Q10	6/16/10	Gross Alpha	191.000	pCi/l	2.0000	11.000	NA	NA	1484921.5	709994.4	499' - 529'	155.17	SM 7110B	IML
14-18OZ	OZ	2Q10	6/16/10	Gross Beta	37.600	pCi/l	5.1000	5.700	NA	NA	1484921.5	709994.4	499' - 529'	155.17	SM 7110B	IML
14-18OZ	OZ	2Q10	6/16/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1484921.5	709994.4	499' - 529'	155.17	OTW01	IML
14-18OZ	OZ	2Q10	6/16/10	Pb-210, S	1.180	pCi/l	1.0000	0.680	1.E-08	1.18E-09	1484921.5	709994.4	499' - 529'	155.17	OTW01	IML
14-18OZ	OZ	2Q10	6/16/10	Po-210, D	1.790	pCi/l	1.0000	0.280	4.E-08	1.79E-09	1484921.5	709994.4	499' - 529'	155.17	OTW01	IML
14-18OZ	OZ	2Q10	6/16/10	Po-210, S	1.050	pCi/l	1.0000	0.270	4.E-08	1.05E-09	1484921.5	709994.4	499' - 529'	155.17	OTW01	IML
14-18OZ	OZ	2Q10	6/16/10	Ra-226, D	3.740	pCi/l	0.2000	0.250	6.E-08	3.74E-09	1484921.5	709994.4	499' - 529'	155.17	SM 7500-Ra B	IML
14-18OZ	OZ	2Q10	6/16/10	Ra-226, S	0.280	pCi/l	0.2000	0.070	6.E-08	2.80E-10	1484921.5	709994.4	499' - 529'	155.17	SM 7500-Ra B	IML

Regional Baseline Monitor Well Data

Ross ISR Project

5

TR Addendum 2.9-C

Station ID	Zone	Quarter	Sample Date	Analyte*	Value	Units	Detect Limit	Error	10 CFR 20 (µCi/ml)	Value in µCi/ml	NAD 83 Northing	NAD 83 Easting	Depth Interval	Depth to Water (ft)	Method	Contract Laboratory
14-180Z	OZ	2Q10	6/16/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1484921.5	709994.4	499' - 529'	155.17	Ra-05	IML
14-180Z	OZ	2Q10	6/16/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1484921.5	709994.4	499' - 529'	155.17	ACW10	IML
14-180Z	OZ	2Q10	6/16/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1484921.5	709994.4	499' - 529'	155.17	ACW10	IML
14-180Z	OZ	2Q10	6/16/10	U, D	0.109	mg/l	0.0010		3.E-07	7.30E-08	1484921.5	709994.4	499' - 529'	155.17	EPA 200.8	IML
14-180Z	OZ	2Q10	6/16/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1484921.5	709994.4	499' - 529'	155.17	EPA 200.8	IML
14-180Z	OZ	3Q10	7/14/10	Gross Alpha	165.300	pCi/l	3.7000	10.000	NA	NA	1484921.5	709994.4	499' - 529'	155.4	SM 7110B	IML
14-180Z	OZ	3Q10	7/14/10	Gross Beta	39.600	pCi/l	6.6000	4.600	NA	NA	1484921.5	709994.4	499' - 529'	155.4	SM 7110B	IML
14-180Z	OZ	3Q10	7/14/10	Pb-210, D	1.790	pCi/l	1.0000	0.420	1.E-08	1.79E-09	1484921.5	709994.4	499' - 529'	155.4	OTW01	IML
14-180Z	OZ	3Q10	7/14/10	Pb-210, S	1.040	pCi/l	1.0000	0.270	1.E-08	1.04E-09	1484921.5	709994.4	499' - 529'	155.4	OTW01	IML
14-180Z	OZ	3Q10	7/14/10	Po-210, D	5.040	pCi/l	1.0000	0.980	4.E-08	5.04E-09	1484921.5	709994.4	499' - 529'	155.4	OTW01	IML
14-180Z	OZ	3Q10	7/14/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1484921.5	709994.4	499' - 529'	155.4	OTW01	IML
14-180Z	OZ	3Q10	7/14/10	Ra-226, D	4.030	pCi/l	0.2000	0.250	6.E-08	4.03E-09	1484921.5	709994.4	499' - 529'	155.4	SM 7500-Ra B	IML
14-180Z	OZ	3Q10	7/14/10	Ra-226, S	4.240	pCi/l	0.2000	0.270	6.E-08	4.24E-09	1484921.5	709994.4	499' - 529'	155.4	SM 7500-Ra B	IML
14-180Z	OZ	3Q10	7/14/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1484921.5	709994.4	499' - 529'	155.4	Ra-05	IML
14-180Z	OZ	3Q10	7/14/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1484921.5	709994.4	499' - 529'	155.4	ACW10	IML
14-180Z	OZ	3Q10	7/14/10	Th-230, S	0.950	pCi/l	0.2000	0.210	1.E-07	9.50E-10	1484921.5	709994.4	499' - 529'	155.4	ACW10	IML
14-180Z	OZ	3Q10	7/14/10	U, D	0.109	mg/l	0.0010		3.E-07	7.30E-08	1484921.5	709994.4	499' - 529'	155.4	EPA 200.8	IML
14-180Z	OZ	3Q10	7/14/10	U, S	0.003	mg/l	0.0010		3.E-07	2.01E-09	1484921.5	709994.4	499' - 529'	155.4	EPA 200.8	IML
14-180Z	OZ	4Q10	10/11/10	Gross Alpha	183.000	pCi/l	2.0000	10.300	NA	NA	1484921.5	709994.4	499' - 529'	152.45	SM 7110B	IML
14-180Z	OZ	4Q10	10/11/10	Gross Beta	27.600	pCi/l	3.0000	4.100	NA	NA	1484921.5	709994.4	499' - 529'	152.45	SM 7110B	IML
14-180Z	OZ	4Q10	10/11/10	Ra-226, D	4.900	pCi/l	0.2000	0.300	6.E-08	4.90E-09	1484921.5	709994.4	499' - 529'	152.45	SM 7500-Ra B	IML
14-180Z	OZ	4Q10	10/11/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1484921.5	709994.4	499' - 529'	152.45	Ra-05	IML
14-180Z	OZ	4Q10	10/11/10	U, D	0.085	mg/l	0.0010		3.E-07	5.70E-08	1484921.5	709994.4	499' - 529'	152.45	EPA 200.8	IML
14-180Z	OZ	4Q10	10/11/10	U, S	<1	pCi/l	1.0000		3.E-07	NA	1484921.5	709994.4	499' - 529'	152.45	EPA 200.8	IML
14-18SA	SA	1Q10	3/24/10	Gross Alpha	5.100	pCi/l	2.0000	2.500	NA	NA	1484962.1	710028.4	35' - 65'	23.32	SM 7110B	IML
14-18SA	SA	1Q10	3/24/10	Gross Beta	12.100	pCi/l	3.9300	3.700	NA	NA	1484962.1	710028.4	35' - 65'	23.32	SM 7110B	IML
14-18SA	SA	1Q10	3/24/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1484962.1	710028.4	35' - 65'	23.32	SM 7500-Ra B	IML
14-18SA	SA	1Q10	3/24/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1484962.1	710028.4	35' - 65'	23.32	Ra-05	IML
14-18SA	SA	1Q10	3/24/10	U, D	0.007	mg/l	0.0010		3.E-07	4.69E-09	1484962.1	710028.4	35' - 65'	23.32	EPA 200.8	IML
14-18SA	SA	2Q10	6/5/10	Gross Alpha	7.400	pCi/l	2.0000	2.500	NA	NA	1484962.1	710028.4	35' - 65'	22.78	SM 7110B	IML
14-18SA	SA	2Q10	6/5/10	Gross Beta	5.900	pCi/l	3.9000	4.000	NA	NA	1484962.1	710028.4	35' - 65'	22.78	SM 7110B	IML
14-18SA	SA	2Q10	6/5/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1484962.1	710028.4	35' - 65'	22.78	OTW01	IML
14-18SA	SA	2Q10	6/5/10	Pb-210, S	<1	pCi/l	1.0000		1.E-08	NA	1484962.1	710028.4	35' - 65'	22.78	OTW01	IML
14-18SA	SA	2Q10	6/5/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1484962.1	710028.4	35' - 65'	22.78	OTW01	IML
14-18SA	SA	2Q10	6/5/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1484962.1	710028.4	35' - 65'	22.78	OTW01	IML
14-18SA	SA	2Q10	6/5/10	Ra-226, D	0.270	pCi/l	0.2000	0.070	6.E-08	2.70E-10	1484962.1	710028.4	35' - 65'	22.78	SM 7500-Ra B	IML
14-18SA	SA	2Q10	6/5/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1484962.1	710028.4	35' - 65'	22.78	SM 7500-Ra B	IML
14-18SA	SA	2Q10	6/5/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1484962.1	710028.4	35' - 65'	22.78	Ra-05	IML
14-18SA	SA	2Q10	6/5/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1484962.1	710028.4	35' - 65'	22.78	ACW10	IML
14-18SA	SA	2Q10	6/5/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1484962.1	710028.4	35' - 65'	22.78	ACW10	IML
14-18SA	SA	2Q10	6/5/10	U, D	0.007	mg/l	0.0010		3.E-07	4.69E-09	1484962.1	710028.4	35' - 65'	22.78	EPA 200.8	IML
14-18SA	SA	2Q10	6/5/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1484962.1	710028.4	35' - 65'	22.78	EPA 200.8	IML
14-18SA	SA	3Q10	7/22/10	Gross Alpha	7.330	pCi/l	3.2000	2.510	NA	NA	1484962.1	710028.4	35' - 65'	22.93	SM 7110B	IML
14-18SA	SA	3Q10	7/22/10	Gross Beta	5.990	pCi/l	6.7000	3.590	NA	NA	1484962.1	710028.4	35' - 65'	22.93	SM 7110B	IML
14-18SA	SA	3Q10	7/22/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1484962.1	710028.4	35' - 65'	22.93	OTW01	IML
14-18SA	SA	3Q10	7/22/10	Pb-210, S	<1	pCi/l	1.0000		1.E-08	NA	1484962.1	710028.4	35' - 65'	22.93	OTW01	IML
14-18SA	SA	3Q10	7/22/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1484962.1	710028.4	35' - 65'	22.93	OTW01	IML
14-18SA	SA	3Q10	7/22/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1484962.1	710028.4	35' - 65'	22.93	OTW01	IML
14-18SA	SA	3Q10	7/22/10	Ra-226, D	0.260	pCi/l	0.2000	0.070	6.E-08	2.60E-10	1484962.1	710028.4	35' - 65'	22.93	SM 7500-Ra B	IML
14-18SA	SA	3Q10	7/22/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1484962.1	710028.4	35' - 65'	22.93	SM 7500-Ra B	IML
14-18SA	SA	3Q10	7/22/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1484962.1	710028.4	35' - 65'	22.93	Ra-05	IML
14-18SA	SA	3Q10	7/22/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1484962.1	710028.4	35' - 65'	22.93	ACW10	IML
14-18SA	SA	3Q10	7/22/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1484962.1	710028.4	35' - 65'	22.93	ACW10	IML
14-18SA	SA	3Q10	7/22/10	U, D	0.007	mg/l	0.0010		3.E-07	4.69E-09	1484962.1	710028.4	35' - 65'	22.93	EPA 200.8	IML
14-18SA	SA	3Q10	7/22/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1484962.1	710028.4	35' - 65'	22.93	EPA 200.8	IML
14-18SA	SA	4Q10	10/4/10	Gross Alpha	13.800	pCi/l	2.0000	3.300	NA	NA	1484962.1	710028.4	35' - 65'	23.79	SM 7110B	IML
14-18SA	SA	4Q10	10/4/10	Gross Beta	7.900	pCi/l	3.0000	3.600	NA	NA	1484962.1	710028.4	35' - 65'	23.79	SM 7110B	IML
14-18SA	SA	4Q10	10/4/10	Ra-226, D	0.500	pCi/l	0.2000	0.100	6.E-08	5.00E-10	1484962.1	710028.4	35' - 65'	23.79	SM 7500-Ra B	IML
14-18SA	SA	4Q10	10/4/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1484962.1	710028.4	35' - 65'	23.79	Ra-05	IML
14-18SA	SA	4Q10	10/4/10	U, D	0.007	mg/l	0.0010		3.E-07	4.69E-09	1484962.1	710028.4	35' - 65'	23.79	EPA 200.8	IML
14-18SM	SM	1Q10	3/29/10	Gross Alpha	2.800	pCi/l	2.0000	2.000	NA	NA	1484923.8	710066.3	282' - 327'	66.87	SM 7110B	IML
14-18SM	SM	1Q10	3/29/10	Gross Beta	7.200	pCi/l	3.0000	2.400	NA	NA	1484923.8	710066.3	282' - 327'	66.87	SM 7110B	IML
14-18SM	SM	1Q10	3/29/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1484923.8	710066.3	282' - 327'	66.87	SM 7500-Ra B	IML
14-18SM	SM	1Q10	3/29/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1484923.8	710066.3	282' - 327'	66.87	Ra-05	IML
14-18SM	SM	1Q10	3/29/10	Rn-222	300.000	pCi/l	26.0000	41.000	NA	NA	1484923.8	710066.3	282' - 327'	66.87	SM7500-RN	IML
14-18SM	SM	1Q10	3/29/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1484923.8	710066.3	282' - 327'	66.87	EPA 200.8	IML
14-18SM	SM	2Q10	6/16/10	Gross Alpha	3.100	pCi/l	2.0000	2.000	NA	NA	1484923.8	710066.3	282' - 327'	66.72	SM 7110B	IML

Regional Baseline Monitor Well Data

Ross ISR Project

6

TR Addendum 2.9-C

Station ID	Zone	Quarter	Sample Date	Analyte*	Value	Units	Detect Limit	Error	10 CFR 20 (µCi/ml)	Value in µCi/ml	NAD 83 Northing	NAD 83 Easting	Depth Interval	Depth to Water (ft)	Method	Contract Laboratory
14-18SM	SM	2Q10	6/16/10	Gross Beta	7.000	pCi/l	4.1000	4.100	NA	NA	1484923.8	710066.3	282' - 327'	66.72	SM 7110B	IML
14-18SM	SM	2Q10	6/16/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1484923.8	710066.3	282' - 327'	66.72	OTW01	IML
14-18SM	SM	2Q10	6/16/10	Pb-210, S	<1	pCi/l	1.0000		1.E-08	NA	1484923.8	710066.3	282' - 327'	66.72	OTW01	IML
14-18SM	SM	2Q10	6/16/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1484923.8	710066.3	282' - 327'	66.72	OTW01	IML
14-18SM	SM	2Q10	6/16/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1484923.8	710066.3	282' - 327'	66.72	OTW01	IML
14-18SM	SM	2Q10	6/16/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1484923.8	710066.3	282' - 327'	66.72	SM 7500-Ra B	IML
14-18SM	SM	2Q10	6/16/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1484923.8	710066.3	282' - 327'	66.72	SM 7500-Ra B	IML
14-18SM	SM	2Q10	6/16/10	Ra-228, D	1.290	pCi/l	1.0000	0.720	6.E-08	1.29E-09	1484923.8	710066.3	282' - 327'	66.72	Ra-05	IML
14-18SM	SM	2Q10	6/16/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1484923.8	710066.3	282' - 327'	66.72	ACW10	IML
14-18SM	SM	2Q10	6/16/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1484923.8	710066.3	282' - 327'	66.72	ACW10	IML
14-18SM	SM	2Q10	6/16/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1484923.8	710066.3	282' - 327'	66.72	EPA 200.8	IML
14-18SM	SM	2Q10	6/16/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1484923.8	710066.3	282' - 327'	66.72	EPA 200.8	IML
14-18SM	SM	3Q10	7/24/10	Gross Alpha	<3.5	pCi/l	3.5000		NA	NA	1484923.8	710066.3	282' - 327'	66.72	SM 7110B	IML
14-18SM	SM	3Q10	7/24/10	Gross Beta	<6.8	pCi/l	6.8000		NA	NA	1484923.8	710066.3	282' - 327'	66.72	SM 7110B	IML
14-18SM	SM	3Q10	7/24/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1484923.8	710066.3	282' - 327'	66.72	OTW01	IML
14-18SM	SM	3Q10	7/24/10	Pb-210, S	<1	pCi/l	1.0000		1.E-08	NA	1484923.8	710066.3	282' - 327'	66.72	OTW01	IML
14-18SM	SM	3Q10	7/24/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1484923.8	710066.3	282' - 327'	66.72	OTW01	IML
14-18SM	SM	3Q10	7/24/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1484923.8	710066.3	282' - 327'	66.72	OTW01	IML
14-18SM	SM	3Q10	7/24/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1484923.8	710066.3	282' - 327'	66.72	SM 7500-Ra B	IML
14-18SM	SM	3Q10	7/24/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1484923.8	710066.3	282' - 327'	66.72	SM 7500-Ra B	IML
14-18SM	SM	3Q10	7/24/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1484923.8	710066.3	282' - 327'	66.72	Ra-05	IML
14-18SM	SM	3Q10	7/24/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1484923.8	710066.3	282' - 327'	66.72	ACW10	IML
14-18SM	SM	3Q10	7/24/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1484923.8	710066.3	282' - 327'	66.72	ACW10	IML
14-18SM	SM	3Q10	7/24/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1484923.8	710066.3	282' - 327'	66.72	EPA 200.8	IML
14-18SM	SM	3Q10	7/24/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1484923.8	710066.3	282' - 327'	66.72	EPA 200.8	IML
14-18SM	SM	4Q10	10/12/10	Gross Alpha	11.200	pCi/l	2.0000	3.000	NA	NA	1484923.8	710066.3	282' - 327'	66.9	SM 7110B	IML
14-18SM	SM	4Q10	10/12/10	Gross Beta	12.400	pCi/l	3.0000	3.700	NA	NA	1484923.8	710066.3	282' - 327'	66.9	SM 7110B	IML
14-18SM	SM	4Q10	10/12/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1484923.8	710066.3	282' - 327'	66.9	SM 7500-Ra B	IML
14-18SM	SM	4Q10	10/12/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1484923.8	710066.3	282' - 327'	66.9	Ga-Tech	IML
14-18SM	SM	4Q10	10/12/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1484923.8	710066.3	282' - 327'	66.9	EPA 200.8	IML
21-19DM	DM	1Q10	3/24/10	Gross Alpha	<2	pCi/l	2.0000		NA	NA	1483261.0	710663.7	550' - 565'	196.48	SM 7110B	IML
21-19DM	DM	1Q10	3/24/10	Gross Beta	16.200	pCi/l	4.1000	4.400	NA	NA	1483261.0	710663.7	550' - 565'	196.48	SM 7110B	IML
21-19DM	DM	1Q10	3/24/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1483261.0	710663.7	550' - 565'	196.48	SM 7500-Ra B	IML
21-19DM	DM	1Q10	3/24/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1483261.0	710663.7	550' - 565'	196.48	Ra-05	IML
21-19DM	DM	1Q10	3/24/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1483261.0	710663.7	550' - 565'	196.48	EPA 200.8	IML
21-19DM	DM	2Q10	5/19/10	Gross Alpha	2.300	pCi/l	2.0000	2.400	NA	NA	1483261.0	710663.7	550' - 565'	196.09	SM 7110B	IML
21-19DM	DM	2Q10	5/19/10	Gross Beta	13.000	pCi/l	3.0000	4.200	NA	NA	1483261.0	710663.7	550' - 565'	196.09	SM 7110B	IML
21-19DM	DM	2Q10	5/19/10	Pb-210, D	1.160	pCi/l	1.0000	0.570	1.E-08	1.16E-09	1483261.0	710663.7	550' - 565'	196.09	OTW01	IML
21-19DM	DM	2Q10	5/19/10	Pb-210, S	1.250	pCi/l	1.0000	0.940	1.E-08	1.25E-09	1483261.0	710663.7	550' - 565'	196.09	OTW01	IML
21-19DM	DM	2Q10	5/19/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1483261.0	710663.7	550' - 565'	196.09	OTW01	IML
21-19DM	DM	2Q10	5/19/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1483261.0	710663.7	550' - 565'	196.09	OTW01	IML
21-19DM	DM	2Q10	5/19/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1483261.0	710663.7	550' - 565'	196.09	SM 7500-Ra B	IML
21-19DM	DM	2Q10	5/19/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1483261.0	710663.7	550' - 565'	196.09	SM 7500-Ra B	IML
21-19DM	DM	2Q10	5/19/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1483261.0	710663.7	550' - 565'	196.09	Ra-05	IML
21-19DM	DM	2Q10	5/19/10	Th-230, D	0.240	pCi/l	0.2000	0.100	1.E-07	2.40E-10	1483261.0	710663.7	550' - 565'	196.09	ACW10	IML
21-19DM	DM	2Q10	5/19/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1483261.0	710663.7	550' - 565'	196.09	ACW10	IML
21-19DM	DM	2Q10	5/19/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1483261.0	710663.7	550' - 565'	196.09	EPA 200.8	IML
21-19DM	DM	2Q10	5/19/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1483261.0	710663.7	550' - 565'	196.09	EPA 200.8	IML
21-19DM	DM	3Q10	8/5/10	Gross Alpha	3.530	pCi/l	2.0000	2.060	NA	NA	1483261.0	710663.7	550' - 565'	196.39	SM 7110B	IML
21-19DM	DM	3Q10	8/5/10	Gross Beta	8.330	pCi/l	3.0000	3.950	NA	NA	1483261.0	710663.7	550' - 565'	196.39	SM 7110B	IML
21-19DM	DM	3Q10	8/5/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1483261.0	710663.7	550' - 565'	196.39	OTW01	IML
21-19DM	DM	3Q10	8/5/10	Pb-210, S	<1	pCi/l	1.0000		1.E-08	NA	1483261.0	710663.7	550' - 565'	196.39	OTW01	IML
21-19DM	DM	3Q10	8/5/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1483261.0	710663.7	550' - 565'	196.39	OTW01	IML
21-19DM	DM	3Q10	8/5/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1483261.0	710663.7	550' - 565'	196.39	OTW01	IML
21-19DM	DM	3Q10	8/5/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1483261.0	710663.7	550' - 565'	196.39	SM 7500-Ra B	IML
21-19DM	DM	3Q10	8/5/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1483261.0	710663.7	550' - 565'	196.39	SM 7500-Ra B	IML
21-19DM	DM	3Q10	8/5/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1483261.0	710663.7	550' - 565'	196.39	Ra-05	IML
21-19DM	DM	3Q10	8/5/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1483261.0	710663.7	550' - 565'	196.39	ACW10	IML
21-19DM	DM	3Q10	8/5/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1483261.0	710663.7	550' - 565'	196.39	ACW10	IML
21-19DM	DM	3Q10	8/5/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1483261.0	710663.7	550' - 565'	196.39	EPA 200.8	IML
21-19DM	DM	3Q10	8/5/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1483261.0	710663.7	550' - 565'	196.39	EPA 200.8	IML
21-19DM	DM	4Q10	10/14/10	Gross Alpha	4.500	pCi/l	2.0000	2.400	NA	NA	1483261.0	710663.7	550' - 565'	196.12	SM 7110B	IML
21-19DM	DM	4Q10	10/14/10	Gross Beta	9.200	pCi/l	3.0000	3.500	NA	NA	1483261.0	710663.7	550' - 565'	196.12	SM 7110B	IML
21-19DM	DM	4Q10	10/14/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1483261.0	710663.7	550' - 565'	196.12	SM 7500-Ra B	IML
21-19DM	DM	4Q10	10/14/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1483261.0	710663.7	550' - 565'	196.12	Ga-Tech	IML
21-19DM	DM	4Q10	10/14/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1483261.0	710663.7	550' - 565'	196.12	EPA 200.8	IML

Regional Baseline Monitor Well Data

Station ID	Zone	Quarter	Sample Date	Analyte*	Value	Units	Detect Limit	Error	10 CFR 20 (µCi/ml)	Value in µCi/ml	NAD 83 Northing	NAD 83 Easting	Depth Interval	Depth to Water (ft)	Method	Contract Laboratory
21-190Z	OZ	1Q10	3/25/10	Gross Alpha	33.500	pCi/l	2.0000	4.700	NA	NA	1483295.0	710634.9	433' - 468'	216.63	SM 7110B	IML
21-190Z	OZ	1Q10	3/25/10	Gross Beta	9.200	pCi/l	3.9400	4.100	NA	NA	1483295.0	710634.9	433' - 468'	216.63	SM 7110B	IML
21-190Z	OZ	1Q10	3/25/10	Ra-226, D	0.890	pCi/l	0.2000	0.170	6.E-08	8.90E-10	1483295.0	710634.9	433' - 468'	216.63	SM 7500-Ra B	IML
21-190Z	OZ	1Q10	3/25/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1483295.0	710634.9	433' - 468'	216.63	Ra-05	IML
21-190Z	OZ	1Q10	3/25/10	Rn-222	4580.000	pCi/l	50.0000	520.000	NA	NA	1483295.0	710634.9	433' - 468'	216.63	SM7500-RN	IML
21-190Z	OZ	1Q10	3/25/10	U, D	0.017	mg/l	0.0010		3.E-07	1.14E-08	1483295.0	710634.9	433' - 468'	216.63	EPA 200.8	IML
21-190Z	OZ	2Q10	5/19/10	Gross Alpha	19.000	pCi/l	2.0000	3.700	NA	NA	1483295.0	710634.9	433' - 468'	218.18	SM 7110B	IML
21-190Z	OZ	2Q10	5/19/10	Gross Beta	9.100	pCi/l	3.0000	4.000	NA	NA	1483295.0	710634.9	433' - 468'	218.18	SM 7110B	IML
21-190Z	OZ	2Q10	5/19/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1483295.0	710634.9	433' - 468'	218.18	OTW01	IML
21-190Z	OZ	2Q10	5/19/10	Pb-210, S	<1	pCi/l	1.0000		1.E-08	NA	1483295.0	710634.9	433' - 468'	218.18	OTW01	IML
21-190Z	OZ	2Q10	5/19/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1483295.0	710634.9	433' - 468'	218.18	OTW01	IML
21-190Z	OZ	2Q10	5/19/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1483295.0	710634.9	433' - 468'	218.18	OTW01	IML
21-190Z	OZ	2Q10	5/19/10	Ra-226, D	0.930	pCi/l	0.2000	0.160	6.E-08	9.30E-10	1483295.0	710634.9	433' - 468'	218.18	SM 7500-Ra B	IML
21-190Z	OZ	2Q10	5/19/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1483295.0	710634.9	433' - 468'	218.18	SM 7500-Ra B	IML
21-190Z	OZ	2Q10	5/19/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1483295.0	710634.9	433' - 468'	218.18	Ra-05	IML
21-190Z	OZ	2Q10	5/19/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1483295.0	710634.9	433' - 468'	218.18	ACW10	IML
21-190Z	OZ	2Q10	5/19/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1483295.0	710634.9	433' - 468'	218.18	ACW10	IML
21-190Z	OZ	2Q10	5/19/10	U, D	0.008	mg/l	0.0010		3.E-07	5.36E-09	1483295.0	710634.9	433' - 468'	218.18	EPA 200.8	IML
21-190Z	OZ	2Q10	5/19/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1483295.0	710634.9	433' - 468'	218.18	EPA 200.8	IML
21-190Z	OZ	3Q10	7/16/10	Gross Alpha	47.700	pCi/l	3.6000	5.200	NA	NA	1483295.0	710634.9	433' - 468'	214.35	SM 7110B	IML
21-190Z	OZ	3Q10	7/16/10	Gross Beta	17.100	pCi/l	7.2000	4.000	NA	NA	1483295.0	710634.9	433' - 468'	214.35	SM 7110B	IML
21-190Z	OZ	3Q10	7/16/10	Pb-210, D	1.350	pCi/l	1.0000	0.420	1.E-08	1.35E-09	1483295.0	710634.9	433' - 468'	214.35	OTW01	IML
21-190Z	OZ	3Q10	7/16/10	Pb-210, S	32.200	pCi/l	1.0000	1.400	1.E-08	3.22E-08	1483295.0	710634.9	433' - 468'	214.35	OTW01	IML
21-190Z	OZ	3Q10	7/16/10	Po-210, D	3.740	pCi/l	1.0000	0.840	4.E-08	3.74E-09	1483295.0	710634.9	433' - 468'	214.35	OTW01	IML
21-190Z	OZ	3Q10	7/16/10	Po-210, S	25.400	pCi/l	1.0000	1.600	4.E-08	2.54E-08	1483295.0	710634.9	433' - 468'	214.35	OTW01	IML
21-190Z	OZ	3Q10	7/16/10	Ra-226, D	0.710	pCi/l	0.2000	0.100	6.E-08	7.10E-10	1483295.0	710634.9	433' - 468'	214.35	SM 7500-Ra B	IML
21-190Z	OZ	3Q10	7/16/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1483295.0	710634.9	433' - 468'	214.35	SM 7500-Ra B	IML
21-190Z	OZ	3Q10	7/16/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1483295.0	710634.9	433' - 468'	214.35	Ra-05	IML
21-190Z	OZ	3Q10	7/16/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1483295.0	710634.9	433' - 468'	214.35	ACW10	IML
21-190Z	OZ	3Q10	7/16/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1483295.0	710634.9	433' - 468'	214.35	ACW10	IML
21-190Z	OZ	3Q10	7/16/10	U, D	0.024	mg/l	0.0010		3.E-07	1.61E-08	1483295.0	710634.9	433' - 468'	214.35	EPA 200.8	IML
21-190Z	OZ	3Q10	7/16/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1483295.0	710634.9	433' - 468'	214.35	EPA 200.8	IML
21-190Z	OZ	4Q10	10/11/10	Gross Alpha	18.400	pCi/l	2.0000	3.600	NA	NA	1483295.0	710634.9	433' - 468'	208.04	SM 7110B	IML
21-190Z	OZ	4Q10	10/11/10	Gross Beta	7.100	pCi/l	3.0000	3.600	NA	NA	1483295.0	710634.9	433' - 468'	208.04	SM 7110B	IML
21-190Z	OZ	4Q10	10/11/10	Ra-226, D	0.800	pCi/l	0.2000	0.100	6.E-08	8.00E-10	1483295.0	710634.9	433' - 468'	208.04	SM 7500-Ra B	IML
21-190Z	OZ	4Q10	10/11/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1483295.0	710634.9	433' - 468'	208.04	Ra-05	IML
21-190Z	OZ	4Q10	10/11/10	U, D	0.005	mg/l	0.0010		3.E-07	3.35E-09	1483295.0	710634.9	433' - 468'	208.04	EPA 200.8	IML
21-19SA	SA	1Q10	3/24/10	Gross Alpha	6.500	pCi/l	2.0000	2.200	NA	NA	1483337.4	710670.3	20' - 30'	10.56	SM 7110B	IML
21-19SA	SA	1Q10	3/24/10	Gross Beta	7.400	pCi/l	3.0000	2.400	NA	NA	1483337.4	710670.3	20' - 30'	10.56	SM 7110B	IML
21-19SA	SA	1Q10	3/24/10	Ra-226, D	0.410	pCi/l	0.2000	0.120	6.E-08	4.10E-10	1483337.4	710670.3	20' - 30'	10.56	SM 7500-Ra B	IML
21-19SA	SA	1Q10	3/24/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1483337.4	710670.3	20' - 30'	10.56	Ra-05	IML
21-19SA	SA	1Q10	3/24/10	U, D	0.007	mg/l	0.0010		3.E-07	4.69E-09	1483337.4	710670.3	20' - 30'	10.56	EPA 200.8	IML
21-19SA	SA	2Q10	6/18/10	Gross Alpha	6.400	pCi/l	2.0000	2.100	NA	NA	1483337.4	710670.3	20' - 30'	10.82	SM 7110B	IML
21-19SA	SA	2Q10	6/18/10	Gross Beta	10.000	pCi/l	3.6000	2.600	NA	NA	1483337.4	710670.3	20' - 30'	10.82	SM 7110B	IML
21-19SA	SA	2Q10	6/18/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1483337.4	710670.3	20' - 30'	10.82	OTW01	IML
21-19SA	SA	2Q10	6/18/10	Pb-210, S	<1	pCi/l	1.0000		1.E-08	NA	1483337.4	710670.3	20' - 30'	10.82	OTW01	IML
21-19SA	SA	2Q10	6/18/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1483337.4	710670.3	20' - 30'	10.82	OTW01	IML
21-19SA	SA	2Q10	6/18/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1483337.4	710670.3	20' - 30'	10.82	OTW01	IML
21-19SA	SA	2Q10	6/18/10	Ra-226, D	0.240	pCi/l	0.2000	0.080	6.E-08	2.40E-10	1483337.4	710670.3	20' - 30'	10.82	SM 7500-Ra B	IML
21-19SA	SA	2Q10	6/18/10	Ra-226, S	0.240	pCi/l	0.2000	0.060	6.E-08	2.40E-10	1483337.4	710670.3	20' - 30'	10.82	SM 7500-Ra B	IML
21-19SA	SA	2Q10	6/18/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1483337.4	710670.3	20' - 30'	10.82	Ra-05	IML
21-19SA	SA	2Q10	6/18/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1483337.4	710670.3	20' - 30'	10.82	ACW10	IML
21-19SA	SA	2Q10	6/18/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1483337.4	710670.3	20' - 30'	10.82	ACW10	IML
21-19SA	SA	2Q10	6/18/10	U, D	0.004	mg/l	0.0010		3.E-07	2.68E-09	1483337.4	710670.3	20' - 30'	10.82	EPA 200.8	IML
21-19SA	SA	2Q10	6/18/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1483337.4	710670.3	20' - 30'	10.82	EPA 200.8	IML
21-19SA	SA	3Q10	7/22/10	Gross Alpha	6.160	pCi/l	2.0000	1.550	NA	NA	1483337.4	710670.3	20' - 30'	11.02	SM 7110B	IML
21-19SA	SA	3Q10	7/22/10	Gross Beta	6.990	pCi/l	3.6000	2.160	NA	NA	1483337.4	710670.3	20' - 30'	11.02	SM 7110B	IML
21-19SA	SA	3Q10	7/22/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1483337.4	710670.3	20' - 30'	11.02	OTW01	IML
21-19SA	SA	3Q10	7/22/10	Pb-210, S	<1	pCi/l	1.0000		1.E-08	NA	1483337.4	710670.3	20' - 30'	11.02	OTW01	IML
21-19SA	SA	3Q10	7/22/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1483337.4	710670.3	20' - 30'	11.02	OTW01	IML
21-19SA	SA	3Q10	7/22/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1483337.4	710670.3	20' - 30'	11.02	OTW01	IML
21-19SA	SA	3Q10	7/22/10	Ra-226, D	0.230	pCi/l	0.2000	0.070	6.E-08	2.30E-10	1483337.4	710670.3	20' - 30'	11.02	SM 7500-Ra B	IML
21-19SA	SA	3Q10	7/22/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1483337.4	710670.3	20' - 30'	11.02	SM 7500-Ra B	IML
21-19SA	SA	3Q10	7/22/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1483337.4	710670.3	20' - 30'	11.02	Ra-05	IML
21-19SA	SA	3Q10	7/22/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1483337.4	710670.3	20' - 30'	11.02	ACW10	IML
21-19SA	SA	3Q10	7/22/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1483337.4	710670.3	20' - 30'	11.02	ACW10	IML

Ross ISR Project

7

TR Addendum 2.9-C

Regional Baseline Monitor Well Data

Ross ISR Project

8

TR Addendum 2.9-C

Station ID	Zone	Quarter	Sample Date	Analyte*	Value	Units	Detect Limit	Error	10 CFR 20 MPC (µCi/ml)	Value in µCi/ml	NAD 83 Northing	NAD 83 Easting	Depth Interval	Depth to Water (ft)	Method	Contract Laboratory
21-19SA	SA	3Q10	7/22/10	U, D	0.006	mg/l	0.0010		3.E-07	4.02E-09	1483337.4	710670.3	20' - 30'	11.02	EPA 200.8	IML
21-19SA	SA	3Q10	7/22/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1483337.4	710670.3	20' - 30'	11.02	EPA 200.8	IML
21-19SA	SA	4Q10	10/4/10	Gross Alpha	6.700	pCi/l	2.0000	1.500	NA	NA	1483337.4	710670.3	20' - 30'	11.52	SM 7110B	IML
21-19SA	SA	4Q10	10/4/10	Gross Beta	5.300	pCi/l	3.0000	1.800	NA	NA	1483337.4	710670.3	20' - 30'	11.52	SM 7110B	IML
21-19SA	SA	4Q10	10/4/10	Ra-226, D	0.300	pCi/l	0.2000	0.100	6.E-08	3.00E-10	1483337.4	710670.3	20' - 30'	11.52	SM 7500-Ra B	IML
21-19SA	SA	4Q10	10/4/10	Ra-228, D	1.200	pCi/l	1.0000	1.100	6.E-08	1.20E-09	1483337.4	710670.3	20' - 30'	11.52	Ra-05	IML
21-19SA	SA	4Q10	10/4/10	U, D	0.005	mg/l	0.0010		3.E-07	3.35E-09	1483337.4	710670.3	20' - 30'	11.52	EPA 200.8	IML
21-19SM	SM	1Q10	3/25/10	Gross Alpha	3.100	pCi/l	2.0000	2.500	NA	NA	1483301.1	710706.7	260' - 315'	85.07	SM 7110B	IML
21-19SM	SM	1Q10	3/25/10	Gross Beta	22.200	pCi/l	3.9600	4.400	NA	NA	1483301.1	710706.7	260' - 315'	85.07	SM 7110B	IML
21-19SM	SM	1Q10	3/25/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1483301.1	710706.7	260' - 315'	85.07	SM 7500-Ra B	IML
21-19SM	SM	1Q10	3/25/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1483301.1	710706.7	260' - 315'	85.07	Ra-05	IML
21-19SM	SM	1Q10	3/25/10	Rn-222	353.000	pCi/l	50.0000	47.000	NA	NA	1483301.1	710706.7	260' - 315'	85.07	SM7500-RN	IML
21-19SM	SM	1Q10	3/25/10	U, D	0.003	mg/l	0.0010		3.E-07	2.01E-09	1483301.1	710706.7	260' - 315'	85.07	EPA 200.8	IML
21-19SM	SM	2Q10	5/19/10	Gross Alpha	5.400	pCi/l	2.0000	2.700	NA	NA	1483301.1	710706.7	260' - 315'	84.88	SM 7110B	IML
21-19SM	SM	2Q10	5/19/10	Gross Beta	19.000	pCi/l	3.0000	4.400	NA	NA	1483301.1	710706.7	260' - 315'	84.88	SM 7110B	IML
21-19SM	SM	2Q10	5/19/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1483301.1	710706.7	260' - 315'	84.88	OTW01	IML
21-19SM	SM	2Q10	5/19/10	Pb-210, S	<1	pCi/l	1.0000		1.E-08	NA	1483301.1	710706.7	260' - 315'	84.88	OTW01	IML
21-19SM	SM	2Q10	5/19/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1483301.1	710706.7	260' - 315'	84.88	OTW01	IML
21-19SM	SM	2Q10	5/19/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1483301.1	710706.7	260' - 315'	84.88	OTW01	IML
21-19SM	SM	2Q10	5/19/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1483301.1	710706.7	260' - 315'	84.88	SM 7500-Ra B	IML
21-19SM	SM	2Q10	5/19/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1483301.1	710706.7	260' - 315'	84.88	SM 7500-Ra B	IML
21-19SM	SM	2Q10	5/19/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1483301.1	710706.7	260' - 315'	84.88	Ra-05	IML
21-19SM	SM	2Q10	5/19/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1483301.1	710706.7	260' - 315'	84.88	ACW10	IML
21-19SM	SM	2Q10	5/19/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1483301.1	710706.7	260' - 315'	84.88	ACW10	IML
21-19SM	SM	2Q10	5/19/10	U, D	0.003	mg/l	0.0010		3.E-07	2.01E-09	1483301.1	710706.7	260' - 315'	84.88	EPA 200.8	IML
21-19SM	SM	2Q10	5/19/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1483301.1	710706.7	260' - 315'	84.88	EPA 200.8	IML
21-19SM	SM	3Q10	8/5/10	Gross Alpha	6.600	pCi/l	4.0000	2.770	NA	NA	1483301.1	710706.7	260' - 315'	84.9	SM 7110B	IML
21-19SM	SM	3Q10	8/5/10	Gross Beta	29.800	pCi/l	6.8000	4.400	NA	NA	1483301.1	710706.7	260' - 315'	84.9	SM 7110B	IML
21-19SM	SM	3Q10	8/5/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1483301.1	710706.7	260' - 315'	84.9	OTW01	IML
21-19SM	SM	3Q10	8/5/10	Pb-210, S	<1	pCi/l	1.0000		1.E-08	NA	1483301.1	710706.7	260' - 315'	84.9	OTW01	IML
21-19SM	SM	3Q10	8/5/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1483301.1	710706.7	260' - 315'	84.9	OTW01	IML
21-19SM	SM	3Q10	8/5/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1483301.1	710706.7	260' - 315'	84.9	OTW01	IML
21-19SM	SM	3Q10	8/5/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1483301.1	710706.7	260' - 315'	84.9	SM 7500-Ra B	IML
21-19SM	SM	3Q10	8/5/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1483301.1	710706.7	260' - 315'	84.9	SM 7500-Ra B	IML
21-19SM	SM	3Q10	8/5/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1483301.1	710706.7	260' - 315'	84.9	Ra-05	IML
21-19SM	SM	3Q10	8/5/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1483301.1	710706.7	260' - 315'	84.9	ACW10	IML
21-19SM	SM	3Q10	8/5/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1483301.1	710706.7	260' - 315'	84.9	ACW10	IML
21-19SM	SM	3Q10	8/5/10	U, D	0.004	mg/l	0.0010		3.E-07	2.68E-09	1483301.1	710706.7	260' - 315'	84.9	EPA 200.8	IML
21-19SM	SM	3Q10	8/5/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1483301.1	710706.7	260' - 315'	84.9	EPA 200.8	IML
21-19SM	SM	4Q10	10/14/10	Gross Alpha	12.200	pCi/l	2.0000	9.300	NA	NA	1483301.1	710706.7	260' - 315'	85.18	SM 7110B	IML
21-19SM	SM	4Q10	10/14/10	Gross Beta	42.500	pCi/l	3.0000	13.400	NA	NA	1483301.1	710706.7	260' - 315'	85.18	SM 7110B	IML
21-19SM	SM	4Q10	10/14/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1483301.1	710706.7	260' - 315'	85.18	SM 7500-Ra B	IML
21-19SM	SM	4Q10	10/14/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1483301.1	710706.7	260' - 315'	85.18	Ga-Tech	IML
21-19SM	SM	4Q10	10/14/10	U, D	0.003	mg/l	0.0010		3.E-07	2.01E-09	1483301.1	710706.7	260' - 315'	85.18	EPA 200.8	IML
34-18DM	DM	1Q10	3/17/10	Gross Alpha	<2	pCi/l	2.0000		NA	NA	1483760.1	712451.6	600' - 620'	269.85	SM 7110B	IML
34-18DM	DM	1Q10	3/17/10	Gross Beta	32.600	pCi/l	4.1000	4.400	NA	NA	1483760.1	712451.6	600' - 620'	269.85	SM 7110B	IML
34-18DM	DM	1Q10	3/17/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1483760.1	712451.6	600' - 620'	269.85	SM 7500-Ra B	IML
34-18DM	DM	1Q10	3/17/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1483760.1	712451.6	600' - 620'	269.85	Ra-05	IML
34-18DM	DM	1Q10	3/17/10	Rn-222	<29	pCi/l	29.0000		NA	NA	1483760.1	712451.6	600' - 620'	269.85	SM7500-RN	IML
34-18DM	DM	1Q10	3/17/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1483760.1	712451.6	600' - 620'	269.85	EPA 200.8	IML
34-18DM	DM	2Q10	5/18/10	Gross Alpha	<2	pCi/l	2.0000		NA	NA	1483760.1	712451.6	600' - 620'	272.57	SM 7110B	IML
34-18DM	DM	2Q10	5/18/10	Gross Beta	13.100	pCi/l	3.0000	3.700	NA	NA	1483760.1	712451.6	600' - 620'	272.57	SM 7110B	IML
34-18DM	DM	2Q10	5/18/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1483760.1	712451.6	600' - 620'	272.57	OTW01	IML
34-18DM	DM	2Q10	5/18/10	Pb-210, S	<1	pCi/l	1.0000		1.E-08	NA	1483760.1	712451.6	600' - 620'	272.57	OTW01	IML
34-18DM	DM	2Q10	5/18/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1483760.1	712451.6	600' - 620'	272.57	OTW01	IML
34-18DM	DM	2Q10	5/18/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1483760.1	712451.6	600' - 620'	272.57	OTW01	IML
34-18DM	DM	2Q10	5/18/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1483760.1	712451.6	600' - 620'	272.57	SM 7500-Ra B	IML
34-18DM	DM	2Q10	5/18/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1483760.1	712451.6	600' - 620'	272.57	SM 7500-Ra B	IML
34-18DM	DM	2Q10	5/18/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1483760.1	712451.6	600' - 620'	272.57	Ra-05	IML
34-18DM	DM	2Q10	5/18/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1483760.1	712451.6	600' - 620'	272.57	ACW10	IML
34-18DM	DM	2Q10	5/18/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1483760.1	712451.6	600' - 620'	272.57	ACW10	IML
34-18DM	DM	2Q10	5/18/10	U, D	0.003	mg/l	0.0010		3.E-07	2.01E-09	1483760.1	712451.6	600' - 620'	272.57	EPA 200.8	IML
34-18DM	DM	2Q10	5/18/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1483760.1	712451.6	600' - 620'	272.57	EPA 200.8	IML
34-18DM	DM	3Q10	8/4/10	Gross Alpha	<3.5	pCi/l	3.5000		NA	NA	1483760.1	712451.6	600' - 620'	272.64	SM 7110B	IML
34-18DM	DM	3Q10	8/4/10	Gross Beta	10.100	pCi/l	6.8000	4.000	NA	NA	1483760.1	712451.6	600' - 620'	272.64	SM 7110B	IML
34-18DM	DM	3Q10	8/4/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1483760.1	712451.6	600' - 620'	272.64	OTW01	IML

Regional Baseline Monitor Well Data

Ross ISR Project

9

TR Addendum 2.9-C

Station ID	Zone	Quarter	Sample Date	Analyte*	Value	Units	Detect Limit	Error	10 CFR 20 MPC (µCi/ml)	Value in µCi/ml	NAD 83 Northing	NAD 83 Easting	Depth Interval	Depth to Water (ft)	Method	Contract Laboratory
34-18DM	DM	3Q10	8/4/10	Pb-210, S	<1	pCi/l	1.0000		1.E-08	NA	1483760.1	712451.6	600' - 620'	272.64	OTW01	IML
34-18DM	DM	3Q10	8/4/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1483760.1	712451.6	600' - 620'	272.64	OTW01	IML
34-18DM	DM	3Q10	8/4/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1483760.1	712451.6	600' - 620'	272.64	OTW01	IML
34-18DM	DM	3Q10	8/4/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1483760.1	712451.6	600' - 620'	272.64	SM 7500-Ra B	IML
34-18DM	DM	3Q10	8/4/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1483760.1	712451.6	600' - 620'	272.64	SM 7500-Ra B	IML
34-18DM	DM	3Q10	8/4/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1483760.1	712451.6	600' - 620'	272.64	Ra-05	IML
34-18DM	DM	3Q10	8/4/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1483760.1	712451.6	600' - 620'	272.64	ACW10	IML
34-18DM	DM	3Q10	8/4/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1483760.1	712451.6	600' - 620'	272.64	ACW10	IML
34-18DM	DM	3Q10	8/4/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1483760.1	712451.6	600' - 620'	272.64	EPA 200.8	IML
34-18DM	DM	3Q10	8/4/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1483760.1	712451.6	600' - 620'	272.64	EPA 200.8	IML
34-18DM	DM	4Q10	10/11/10	Gross Alpha	3.100	pCi/l	2.0000	2.300	NA	NA	1483760.1	712451.6	600' - 620'	273.63	SM 7110B	IML
34-18DM	DM	4Q10	10/11/10	Gross Beta	6.600	pCi/l	3.0000	3.600	NA	NA	1483760.1	712451.6	600' - 620'	273.63	SM 7110B	IML
34-18DM	DM	4Q10	10/11/10	Ra-226, D	0.300	pCi/l	0.2000	0.100	6.E-08	3.00E-10	1483760.1	712451.6	600' - 620'	273.63	SM 7500-Ra B	IML
34-18DM	DM	4Q10	10/11/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1483760.1	712451.6	600' - 620'	273.63	Ra-05	IML
34-18DM	DM	4Q10	10/11/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1483760.1	712451.6	600' - 620'	273.63	EPA 200.8	IML
34-18OZ	OZ	1Q10	3/29/10	Gross Alpha	175.700	pCi/l	2.0000	9.500	NA	NA	1483796.9	712419.3	460' - 565'	278.31	SM 7110B	IML
34-18OZ	OZ	1Q10	3/29/10	Gross Beta	43.100	pCi/l	3.0000	4.600	NA	NA	1483796.9	712419.3	460' - 565'	278.31	SM 7110B	IML
34-18OZ	OZ	1Q10	3/29/10	Ra-226, D	5.970	pCi/l	0.2000	0.430	6.E-08	5.97E-09	1483796.9	712419.3	460' - 565'	278.31	SM 7500-Ra B	IML
34-18OZ	OZ	1Q10	3/29/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1483796.9	712419.3	460' - 565'	278.31	Ra-05	IML
34-18OZ	OZ	1Q10	3/29/10	Rn-222	35100.000	pCi/l	50.0000	4000.000	NA	NA	1483796.9	712419.3	460' - 565'	278.31	SM7500-RN	IML
34-18OZ	OZ	1Q10	3/29/10	U, D	0.062	mg/l	0.0010		3.E-07	4.15E-08	1483796.9	712419.3	460' - 565'	278.31	EPA 200.8	IML
34-18OZ	OZ	2Q10	5/18/10	Gross Alpha	111.100	pCi/l	2.0000	7.700	NA	NA	1483796.9	712419.3	460' - 565'	282.71	SM 7110B	IML
34-18OZ	OZ	2Q10	5/18/10	Gross Beta	35.200	pCi/l	3.0000	4.400	NA	NA	1483796.9	712419.3	460' - 565'	282.71	SM 7110B	IML
34-18OZ	OZ	2Q10	5/18/10	Pb-210, D	1.880	pCi/l	1.0000	0.460	1.E-08	1.88E-09	1483796.9	712419.3	460' - 565'	282.71	OTW01	IML
34-18OZ	OZ	2Q10	5/18/10	Pb-210, S	3.880	pCi/l	1.0000	0.530	1.E-08	3.88E-09	1483796.9	712419.3	460' - 565'	282.71	OTW01	IML
34-18OZ	OZ	2Q10	5/18/10	Po-210, D	4.770	pCi/l	1.0000	0.380	4.E-08	4.77E-09	1483796.9	712419.3	460' - 565'	282.71	OTW01	IML
34-18OZ	OZ	2Q10	5/18/10	Po-210, S	13.380	pCi/l	1.0000	0.630	4.E-08	1.34E-08	1483796.9	712419.3	460' - 565'	282.71	OTW01	IML
34-18OZ	OZ	2Q10	5/18/10	Ra-226, D	9.060	pCi/l	0.2000	0.530	6.E-08	9.06E-09	1483796.9	712419.3	460' - 565'	282.71	SM 7500-Ra B	IML
34-18OZ	OZ	2Q10	5/18/10	Ra-226, S	0.490	pCi/l	0.2000	0.110	6.E-08	4.90E-10	1483796.9	712419.3	460' - 565'	282.71	SM 7500-Ra B	IML
34-18OZ	OZ	2Q10	5/18/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1483796.9	712419.3	460' - 565'	282.71	Ra-05	IML
34-18OZ	OZ	2Q10	5/18/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1483796.9	712419.3	460' - 565'	282.71	ACW10	IML
34-18OZ	OZ	2Q10	5/18/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1483796.9	712419.3	460' - 565'	282.71	ACW10	IML
34-18OZ	OZ	2Q10	5/18/10	U, D	0.059	mg/l	0.0010		3.E-07	3.95E-08	1483796.9	712419.3	460' - 565'	282.71	EPA 200.8	IML
34-18OZ	OZ	2Q10	5/18/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1483796.9	712419.3	460' - 565'	282.71	EPA 200.8	IML
34-18OZ	OZ	3Q10	7/13/10	Gross Alpha	76.000	pCi/l	3.3000	6.500	NA	NA	1483796.9	712419.3	460' - 565'	279.99	SM 7110B	IML
34-18OZ	OZ	3Q10	7/13/10	Gross Beta	23.900	pCi/l	6.6000	3.900	NA	NA	1483796.9	712419.3	460' - 565'	279.99	SM 7110B	IML
34-18OZ	OZ	3Q10	7/13/10	Pb-210, D	3.020	pCi/l	1.0000	0.610	1.E-08	3.02E-09	1483796.9	712419.3	460' - 565'	279.99	OTW01	IML
34-18OZ	OZ	3Q10	7/13/10	Pb-210, S	1.660	pCi/l	1.0000	0.380	1.E-08	1.66E-09	1483796.9	712419.3	460' - 565'	279.99	OTW01	IML
34-18OZ	OZ	3Q10	7/13/10	Po-210, D	8.730	pCi/l	1.0000	1.290	4.E-08	8.73E-09	1483796.9	712419.3	460' - 565'	279.99	OTW01	IML
34-18OZ	OZ	3Q10	7/13/10	Po-210, S	6.930	pCi/l	1.0000	0.880	4.E-08	6.93E-09	1483796.9	712419.3	460' - 565'	279.99	OTW01	IML
34-18OZ	OZ	3Q10	7/13/10	Ra-226, D	9.680	pCi/l	0.2000	0.380	6.E-08	9.68E-09	1483796.9	712419.3	460' - 565'	279.99	SM 7500-Ra B	IML
34-18OZ	OZ	3Q10	7/13/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1483796.9	712419.3	460' - 565'	279.99	SM 7500-Ra B	IML
34-18OZ	OZ	3Q10	7/13/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1483796.9	712419.3	460' - 565'	279.99	Ra-05	IML
34-18OZ	OZ	3Q10	7/13/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1483796.9	712419.3	460' - 565'	279.99	ACW10	IML
34-18OZ	OZ	3Q10	7/13/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1483796.9	712419.3	460' - 565'	279.99	ACW10	IML
34-18OZ	OZ	3Q10	7/13/10	U, D	0.046	mg/l	0.0010		3.E-07	3.08E-08	1483796.9	712419.3	460' - 565'	279.99	EPA 200.8	IML
34-18OZ	OZ	3Q10	7/13/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1483796.9	712419.3	460' - 565'	279.99	EPA 200.8	IML
34-18OZ	OZ	4Q10	10/7/10	Gross Alpha	93.800	pCi/l	2.0000	6.900	NA	NA	1483796.9	712419.3	460' - 565'	278.2	SM 7110B	IML
34-18OZ	OZ	4Q10	10/7/10	Gross Beta	26.700	pCi/l	3.0000	4.300	NA	NA	1483796.9	712419.3	460' - 565'	278.2	SM 7110B	IML
34-18OZ	OZ	4Q10	10/7/10	Ra-226, D	8.800	pCi/l	0.2000	0.400	6.E-08	8.80E-09	1483796.9	712419.3	460' - 565'	278.2	SM 7500-Ra B	IML
34-18OZ	OZ	4Q10	10/7/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1483796.9	712419.3	460' - 565'	278.2	Ga-Tech	IML
34-18OZ	OZ	4Q10	10/7/10	U, D	0.041	mg/l	0.0010		3.E-07	2.75E-08	1483796.9	712419.3	460' - 565'	278.2	EPA 200.8	IML
34-18SM	SM	1Q10	3/17/10	Gross Alpha	<2	pCi/l	2.0000		NA	NA	1483792.0	712489.6	278' - 298'	136.25	SM 7110B	IML
34-18SM	SM	1Q10	3/17/10	Gross Beta	18.700	pCi/l	4.1200	4.100	NA	NA	1483792.0	712489.6	278' - 298'	136.25	SM 7110B	IML
34-18SM	SM	1Q10	3/17/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1483792.0	712489.6	278' - 298'	136.25	SM 7500-Ra B	IML
34-18SM	SM	1Q10	3/17/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1483792.0	712489.6	278' - 298'	136.25	Ra-05	IML
34-18SM	SM	1Q10	3/17/10	Rn-222	35.000	pCi/l	28.0000	18.000	NA	NA	1483792.0	712489.6	278' - 298'	136.25	SM7500-RN	IML
34-18SM	SM	1Q10	3/17/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1483792.0	712489.6	278' - 298'	136.25	EPA 200.8	IML
34-18SM	SM	2Q10	5/18/10	Gross Alpha	<2	pCi/l	2.0000		NA	NA	1483792.0	712489.6	278' - 298'	136.19	SM 7110B	IML
34-18SM	SM	2Q10	5/18/10	Gross Beta	17.300	pCi/l	3.0000	3.900	NA	NA	1483792.0	712489.6	278' - 298'	136.19	SM 7110B	IML
34-18SM	SM	2Q10	5/18/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1483792.0	712489.6	278' - 298'	136.19	OTW01	IML
34-18SM	SM	2Q10	5/18/10	Pb-210, S	<1	pCi/l	1.0000		1.E-08	NA	1483792.0	712489.6	278' - 298'	136.19	OTW01	IML
34-18SM	SM	2Q10	5/18/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1483792.0	712489.6	278' - 298'	136.19	OTW01	IML
34-18SM	SM	2Q10	5/18/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1483792.0	712489.6	278' - 298'	136.19	OTW01	IML
34-18SM	SM	2Q10	5/18/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1483792.0	712489.6	278' - 298'	136.19	SM 7500-Ra B	IML
34-18SM	SM	2Q10	5/18/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1483792.0	712489.6	278' - 298'	136.19	SM 7500-Ra B	IML

Regional Baseline Monitor Well Data

Ross ISR Project

10

TR Addendum 2.9-C

Station ID	Zone	Quarter	Sample Date	Analyte*	Value	Units	Detect Limit	Error	10 CFR 20 (µCi/ml)	Value in µCi/ml	NAD 83 Northing	NAD 83 Easting	Depth Interval	Depth to Water (ft)	Method	Contract Laboratory
34-18SM	SM	2Q10	5/18/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1483792.0	712489.6	278' - 298'	136.19	Ra-05	IML
34-18SM	SM	2Q10	5/18/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1483792.0	712489.6	278' - 298'	136.19	ACW10	IML
34-18SM	SM	2Q10	5/18/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1483792.0	712489.6	278' - 298'	136.19	ACW10	IML
34-18SM	SM	2Q10	5/18/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1483792.0	712489.6	278' - 298'	136.19	EPA 200.8	IML
34-18SM	SM	2Q10	5/18/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1483792.0	712489.6	278' - 298'	136.19	EPA 200.8	IML
34-18SM	SM	3Q10	8/4/10	Gross Alpha	<3.5	pCi/l	3.5000		NA	NA	1483792.0	712489.6	278' - 298'	136.18	SM 7110B	IML
34-18SM	SM	3Q10	8/4/10	Gross Beta	16.500	pCi/l	6.8000	4.200	NA	NA	1483792.0	712489.6	278' - 298'	136.18	SM 7110B	IML
34-18SM	SM	3Q10	8/4/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1483792.0	712489.6	278' - 298'	136.18	OTW01	IML
34-18SM	SM	3Q10	8/4/10	Pb-210, S	<1	pCi/l	1.0000		1.E-08	NA	1483792.0	712489.6	278' - 298'	136.18	OTW01	IML
34-18SM	SM	3Q10	8/4/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1483792.0	712489.6	278' - 298'	136.18	OTW01	IML
34-18SM	SM	3Q10	8/4/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1483792.0	712489.6	278' - 298'	136.18	OTW01	IML
34-18SM	SM	3Q10	8/4/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1483792.0	712489.6	278' - 298'	136.18	SM 7500-Ra B	IML
34-18SM	SM	3Q10	8/4/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1483792.0	712489.6	278' - 298'	136.18	SM 7500-Ra B	IML
34-18SM	SM	3Q10	8/4/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1483792.0	712489.6	278' - 298'	136.18	Ra-05	IML
34-18SM	SM	3Q10	8/4/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1483792.0	712489.6	278' - 298'	136.18	ACW10	IML
34-18SM	SM	3Q10	8/4/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1483792.0	712489.6	278' - 298'	136.18	ACW10	IML
34-18SM	SM	3Q10	8/4/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1483792.0	712489.6	278' - 298'	136.18	EPA 200.8	IML
34-18SM	SM	3Q10	8/4/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1483792.0	712489.6	278' - 298'	136.18	EPA 200.8	IML
34-18SM	SM	4Q10	10/11/10	Gross Alpha	<2	pCi/l	2.0000		NA	NA	1483792.0	712489.6	278' - 298'	136.11	SM 7110B	IML
34-18SM	SM	4Q10	10/11/10	Gross Beta	11.000	pCi/l	3.0000	3.700	NA	NA	1483792.0	712489.6	278' - 298'	136.11	SM 7110B	IML
34-18SM	SM	4Q10	10/11/10	Ra-226, D	0.200	pCi/l	0.2000	0.100	6.E-08	2.00E-10	1483792.0	712489.6	278' - 298'	136.11	SM 7500-Ra B	IML
34-18SM	SM	4Q10	10/11/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1483792.0	712489.6	278' - 298'	136.11	Ra-05	IML
34-18SM	SM	4Q10	10/11/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1483792.0	712489.6	278' - 298'	136.11	EPA 200.8	IML
34-7DM	DM	1Q10	3/30/10	Gross Alpha	3.500	pCi/l	2.0000	2.500	NA	NA	1489680.6	713356.2	472' - 487'	85.33	SM 7110B	IML
34-7DM	DM	1Q10	3/30/10	Gross Beta	19.400	pCi/l	3.0000	4.100	NA	NA	1489680.6	713356.2	472' - 487'	85.33	SM 7110B	IML
34-7DM	DM	1Q10	3/30/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1489680.6	713356.2	472' - 487'	85.33	SM 7500-Ra B	IML
34-7DM	DM	1Q10	3/30/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1489680.6	713356.2	472' - 487'	85.33	Ra-05	IML
34-7DM	DM	1Q10	3/30/10	Rn-222	<25	pCi/l	25.0000		NA	NA	1489680.6	713356.2	472' - 487'	85.33	SM7500-RN	IML
34-7DM	DM	1Q10	3/30/10	U, D	0.001	mg/l	0.0010		3.E-07	6.70E-10	1489680.6	713356.2	472' - 487'	85.33	EPA 200.8	IML
34-7DM	DM	2Q10	5/20/10	Gross Alpha	4.400	pCi/l	2.0000	2.200	NA	NA	1489680.6	713356.2	472' - 487'	87.81	SM 7110B	IML
34-7DM	DM	2Q10	5/20/10	Gross Beta	10.500	pCi/l	3.0000	4.200	NA	NA	1489680.6	713356.2	472' - 487'	87.81	SM 7110B	IML
34-7DM	DM	2Q10	5/20/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1489680.6	713356.2	472' - 487'	87.81	OTW01	IML
34-7DM	DM	2Q10	5/20/10	Pb-210, S	<1	pCi/l	1.0000		1.E-08	NA	1489680.6	713356.2	472' - 487'	87.81	OTW01	IML
34-7DM	DM	2Q10	5/20/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1489680.6	713356.2	472' - 487'	87.81	OTW01	IML
34-7DM	DM	2Q10	5/20/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1489680.6	713356.2	472' - 487'	87.81	OTW01	IML
34-7DM	DM	2Q10	5/20/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1489680.6	713356.2	472' - 487'	87.81	SM 7500-Ra B	IML
34-7DM	DM	2Q10	5/20/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1489680.6	713356.2	472' - 487'	87.81	SM 7500-Ra B	IML
34-7DM	DM	2Q10	5/20/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1489680.6	713356.2	472' - 487'	87.81	Ra-05	IML
34-7DM	DM	2Q10	5/20/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1489680.6	713356.2	472' - 487'	87.81	ACW10	IML
34-7DM	DM	2Q10	5/20/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1489680.6	713356.2	472' - 487'	87.81	ACW10	IML
34-7DM	DM	2Q10	5/20/10	U, D	0.002	mg/l	0.0010		3.E-07	1.34E-09	1489680.6	713356.2	472' - 487'	87.81	EPA 200.8	IML
34-7DM	DM	2Q10	5/20/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1489680.6	713356.2	472' - 487'	87.81	EPA 200.8	IML
34-7DM	DM	3Q10	8/10/10	Gross Alpha	20.000	pCi/l	2.0000	4.500	NA	NA	1489680.6	713356.2	472' - 487'	89.04	SM 7110B	IML
34-7DM	DM	3Q10	8/10/10	Gross Beta	28.000	pCi/l	3.0000	5.000	NA	NA	1489680.6	713356.2	472' - 487'	89.04	SM 7110B	IML
34-7DM	DM	3Q10	8/10/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1489680.6	713356.2	472' - 487'	89.04	OTW01	IML
34-7DM	DM	3Q10	8/10/10	Pb-210, S	1.000	pCi/l	1.0000	0.400	1.E-08	1.00E-09	1489680.6	713356.2	472' - 487'	89.04	OTW01	IML
34-7DM	DM	3Q10	8/10/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1489680.6	713356.2	472' - 487'	89.04	OTW01	IML
34-7DM	DM	3Q10	8/10/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1489680.6	713356.2	472' - 487'	89.04	OTW01	IML
34-7DM	DM	3Q10	8/10/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1489680.6	713356.2	472' - 487'	89.04	SM 7500-Ra B	IML
34-7DM	DM	3Q10	8/10/10	Ra-226, S	0.500	pCi/l	0.2000	0.100	6.E-08	5.00E-10	1489680.6	713356.2	472' - 487'	89.04	SM 7500-Ra B	IML
34-7DM	DM	3Q10	8/10/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1489680.6	713356.2	472' - 487'	89.04	Ra-05	IML
34-7DM	DM	3Q10	8/10/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1489680.6	713356.2	472' - 487'	89.04	ACW10	IML
34-7DM	DM	3Q10	8/10/10	Th-230, S	0.325	pCi/l	0.2000	0.089	1.E-07	3.25E-10	1489680.6	713356.2	472' - 487'	89.04	ACW10	IML
34-7DM	DM	3Q10	8/10/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1489680.6	713356.2	472' - 487'	89.04	EPA 200.8	IML
34-7DM	DM	3Q10	8/10/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1489680.6	713356.2	472' - 487'	89.04	EPA 200.8	IML
34-7DM	DM	4Q10	10/13/10	Gross Alpha	10.500	pCi/l	2.0000	3.500	NA	NA	1489680.6	713356.2	472' - 487'	89.42	SM 7110B	IML
34-7DM	DM	4Q10	10/13/10	Gross Beta	16.300	pCi/l	3.0000	4.700	NA	NA	1489680.6	713356.2	472' - 487'	89.42	SM 7110B	IML
34-7DM	DM	4Q10	10/13/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1489680.6	713356.2	472' - 487'	89.42	SM 7500-Ra B	IML
34-7DM	DM	4Q10	10/13/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1489680.6	713356.2	472' - 487'	89.42	Ga-Tech	IML
34-7DM	DM	4Q10	10/13/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1489680.6	713356.2	472' - 487'	89.42	EPA 200.8	IML
34-7OZ	OZ	1Q10	3/30/10	Gross Alpha	69.100	pCi/l	2.0000	6.200	NA	NA	1489634.5	713293.3	318.5' - 378.5'	85.54	SM 7110B	IML
34-7OZ	OZ	1Q10	3/30/10	Gross Beta	16.600	pCi/l	3.0000	3.900	NA	NA	1489634.5	713293.3	318.5' - 378.5'	85.54	SM 7110B	IML
34-7OZ	OZ	1Q10	3/30/10	Ra-226, D	1.380	pCi/l	0.2000	0.200	6.E-08	1.38E-09	1489634.5	713293.3	318.5' - 378.5'	85.54	SM 7500-Ra B	IML
34-7OZ	OZ	1Q10	3/30/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1489634.5	713293.3	318.5' - 378.5'	85.54	Ra-05	IML
34-7OZ	OZ	1Q10	3/30/10	Rn-222	5900.000	pCi/l	30.0000	670.000	NA	NA	1489634.5	713293.3	318.5' - 378.5'	85.54	SM7500-RN	IML
34-7OZ	OZ	1Q10	3/30/10	U, D	0.041	mg/l	0.0010		3.E-07	2.75E-08	1489634.5	713293.3	318.5' - 378.5'	85.54	EPA 200.8	IML

Regional Baseline Monitor Well Data

Ross ISR Project

11

TR Addendum 2.9-C

Station ID	Zone	Quarter	Sample Date	Analyte*	Value	Units	Detect Limit	Error	10 CFR 20 (µCi/ml)	Value in µCi/ml	NAD 83 Northing	NAD 83 Easting	Depth Interval	Depth to Water (ft)	Method	Contract Laboratory
34-70Z	OZ	2Q10	5/20/10	Gross Alpha	46.100	pCi/l	2.0000	5.400	NA	NA	1489634.5	713293.3	318.5' - 378.5'	84.88	SM 7110B	IML
34-70Z	OZ	2Q10	5/20/10	Gross Beta	18.300	pCi/l	3.0000	4.400	NA	NA	1489634.5	713293.3	318.5' - 378.5'	84.88	SM 7110B	IML
34-70Z	OZ	2Q10	5/20/10	Pb-210, D	1.170	pCi/l	1.0000	0.880	1.E-08	1.17E-09	1489634.5	713293.3	318.5' - 378.5'	84.88	OTW01	IML
34-70Z	OZ	2Q10	5/20/10	Pb-210, S	1.940	pCi/l	1.0000	0.650	1.E-08	1.94E-09	1489634.5	713293.3	318.5' - 378.5'	84.88	OTW01	IML
34-70Z	OZ	2Q10	5/20/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1489634.5	713293.3	318.5' - 378.5'	84.88	OTW01	IML
34-70Z	OZ	2Q10	5/20/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1489634.5	713293.3	318.5' - 378.5'	84.88	OTW01	IML
34-70Z	OZ	2Q10	5/20/10	Ra-226, D	0.940	pCi/l	0.2000	0.150	6.E-08	9.40E-10	1489634.5	713293.3	318.5' - 378.5'	84.88	SM 7500-Ra B	IML
34-70Z	OZ	2Q10	5/20/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1489634.5	713293.3	318.5' - 378.5'	84.88	SM 7500-Ra B	IML
34-70Z	OZ	2Q10	5/20/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1489634.5	713293.3	318.5' - 378.5'	84.88	Ra-05	IML
34-70Z	OZ	2Q10	5/20/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1489634.5	713293.3	318.5' - 378.5'	84.88	ACW10	IML
34-70Z	OZ	2Q10	5/20/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1489634.5	713293.3	318.5' - 378.5'	84.88	ACW10	IML
34-70Z	OZ	2Q10	5/20/10	U, D	0.038	mg/l	0.0010		3.E-07	2.55E-08	1489634.5	713293.3	318.5' - 378.5'	84.88	EPA 200.8	IML
34-70Z	OZ	2Q10	5/20/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1489634.5	713293.3	318.5' - 378.5'	84.88	EPA 200.8	IML
34-70Z	OZ	3Q10	7/8/10	Gross Alpha	56.800	pCi/l	3.2000	5.600	NA	NA	1489634.5	713293.3	318.5' - 378.5'	84.94	SM 7110B	IML
34-70Z	OZ	3Q10	7/8/10	Gross Beta	13.300	pCi/l	6.8000	3.800	NA	NA	1489634.5	713293.3	318.5' - 378.5'	84.94	SM 7110B	IML
34-70Z	OZ	3Q10	7/8/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1489634.5	713293.3	318.5' - 378.5'	84.94	OTW01	IML
34-70Z	OZ	3Q10	7/8/10	Pb-210, S	1.440	pCi/l	1.0000	0.380	1.E-08	1.44E-09	1489634.5	713293.3	318.5' - 378.5'	84.94	OTW01	IML
34-70Z	OZ	3Q10	7/8/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1489634.5	713293.3	318.5' - 378.5'	84.94	OTW01	IML
34-70Z	OZ	3Q10	7/8/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1489634.5	713293.3	318.5' - 378.5'	84.94	OTW01	IML
34-70Z	OZ	3Q10	7/8/10	Ra-226, D	2.350	pCi/l	0.2000	0.190	6.E-08	2.35E-09	1489634.5	713293.3	318.5' - 378.5'	84.94	SM 7500-Ra B	IML
34-70Z	OZ	3Q10	7/8/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1489634.5	713293.3	318.5' - 378.5'	84.94	SM 7500-Ra B	IML
34-70Z	OZ	3Q10	7/8/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1489634.5	713293.3	318.5' - 378.5'	84.94	Ra-05	IML
34-70Z	OZ	3Q10	7/8/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1489634.5	713293.3	318.5' - 378.5'	84.94	ACW10	IML
34-70Z	OZ	3Q10	7/8/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1489634.5	713293.3	318.5' - 378.5'	84.94	ACW10	IML
34-70Z	OZ	3Q10	7/8/10	U, D	0.044	mg/l	0.0010		3.E-07	2.95E-08	1489634.5	713293.3	318.5' - 378.5'	84.94	EPA 200.8	IML
34-70Z	OZ	3Q10	7/8/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1489634.5	713293.3	318.5' - 378.5'	84.94	EPA 200.8	IML
34-70Z	OZ	4Q10	10/13/10	Gross Alpha	48.100	pCi/l	2.0000	5.200	NA	NA	1489634.5	713293.3	318.5' - 378.5'	84.02	SM 7110B	IML
34-70Z	OZ	4Q10	10/13/10	Gross Beta	9.600	pCi/l	3.0000	3.700	NA	NA	1489634.5	713293.3	318.5' - 378.5'	84.02	SM 7110B	IML
34-70Z	OZ	4Q10	10/13/10	Ra-226, D	1.500	pCi/l	0.2000	0.200	6.E-08	1.50E-09	1489634.5	713293.3	318.5' - 378.5'	84.02	SM 7500-Ra B	IML
34-70Z	OZ	4Q10	10/13/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1489634.5	713293.3	318.5' - 378.5'	84.02	Ga-Tech	IML
34-70Z	OZ	4Q10	10/13/10	U, D	0.028	mg/l	0.0010		3.E-07	1.88E-08	1489634.5	713293.3	318.5' - 378.5'	84.02	EPA 200.8	IML
34-7SA	SA	1Q10	3/25/10	Gross Alpha	<2	pCi/l	2.0000		NA	NA	1489614.8	713356.1	42' - 52'	22.62	SM 7110B	IML
34-7SA	SA	1Q10	3/25/10	Gross Beta	7.600	pCi/l	3.0000	2.200	NA	NA	1489614.8	713356.1	42' - 52'	22.62	SM 7110B	IML
34-7SA	SA	1Q10	3/25/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1489614.8	713356.1	42' - 52'	22.62	SM 7500-Ra B	IML
34-7SA	SA	1Q10	3/25/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1489614.8	713356.1	42' - 52'	22.62	Ra-05	IML
34-7SA	SA	1Q10	3/25/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1489614.8	713356.1	42' - 52'	22.62	EPA 200.8	IML
34-7SA	SA	2Q10	6/5/10	Gross Alpha	3.800	pCi/l	2.0000	1.700	NA	NA	1489614.8	713356.1	42' - 52'	22.92	SM 7110B	IML
34-7SA	SA	2Q10	6/5/10	Gross Beta	7.700	pCi/l	3.0000	2.500	NA	NA	1489614.8	713356.1	42' - 52'	22.92	SM 7110B	IML
34-7SA	SA	2Q10	6/5/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1489614.8	713356.1	42' - 52'	22.92	OTW01	IML
34-7SA	SA	2Q10	6/5/10	Pb-210, S	<1	pCi/l	1.0000		1.E-08	NA	1489614.8	713356.1	42' - 52'	22.92	OTW01	IML
34-7SA	SA	2Q10	6/5/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1489614.8	713356.1	42' - 52'	22.92	OTW01	IML
34-7SA	SA	2Q10	6/5/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1489614.8	713356.1	42' - 52'	22.92	OTW01	IML
34-7SA	SA	2Q10	6/5/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1489614.8	713356.1	42' - 52'	22.92	SM 7500-Ra B	IML
34-7SA	SA	2Q10	6/5/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1489614.8	713356.1	42' - 52'	22.92	SM 7500-Ra B	IML
34-7SA	SA	2Q10	6/5/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1489614.8	713356.1	42' - 52'	22.92	Ra-05	IML
34-7SA	SA	2Q10	6/5/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1489614.8	713356.1	42' - 52'	22.92	ACW10	IML
34-7SA	SA	2Q10	6/5/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1489614.8	713356.1	42' - 52'	22.92	ACW10	IML
34-7SA	SA	2Q10	6/5/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1489614.8	713356.1	42' - 52'	22.92	EPA 200.8	IML
34-7SA	SA	2Q10	6/5/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1489614.8	713356.1	42' - 52'	22.92	EPA 200.8	IML
34-7SA	SA	3Q10	7/22/10	Gross Alpha	2.650	pCi/l	2.0000	1.170	NA	NA	1489614.8	713356.1	42' - 52'	22.06	SM 7110B	IML
34-7SA	SA	3Q10	7/22/10	Gross Beta	7.270	pCi/l	3.4000	2.080	NA	NA	1489614.8	713356.1	42' - 52'	22.06	SM 7110B	IML
34-7SA	SA	3Q10	7/22/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1489614.8	713356.1	42' - 52'	22.06	OTW01	IML
34-7SA	SA	3Q10	7/22/10	Pb-210, S	<1	pCi/l	1.0000		1.E-08	NA	1489614.8	713356.1	42' - 52'	22.06	OTW01	IML
34-7SA	SA	3Q10	7/22/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1489614.8	713356.1	42' - 52'	22.06	OTW01	IML
34-7SA	SA	3Q10	7/22/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1489614.8	713356.1	42' - 52'	22.06	OTW01	IML
34-7SA	SA	3Q10	7/22/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1489614.8	713356.1	42' - 52'	22.06	SM 7500-Ra B	IML
34-7SA	SA	3Q10	7/22/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1489614.8	713356.1	42' - 52'	22.06	SM 7500-Ra B	IML
34-7SA	SA	3Q10	7/22/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1489614.8	713356.1	42' - 52'	22.06	Ra-05	IML
34-7SA	SA	3Q10	7/22/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1489614.8	713356.1	42' - 52'	22.06	ACW10	IML
34-7SA	SA	3Q10	7/22/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1489614.8	713356.1	42' - 52'	22.06	ACW10	IML
34-7SA	SA	3Q10	7/22/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1489614.8	713356.1	42' - 52'	22.06	EPA 200.8	IML
34-7SA	SA	3Q10	7/22/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1489614.8	713356.1	42' - 52'	22.06	EPA 200.8	IML
34-7SA	SA	4Q10	10/4/10	Gross Alpha	2.400	pCi/l	2.0000	1.200	NA	NA	1489614.8	713356.1	42' - 52'	22.33	SM 7110B	IML
34-7SA	SA	4Q10	10/4/10	Gross Beta	7.100	pCi/l	3.0000	1.900	NA	NA	1489614.8	713356.1	42' - 52'	22.33	SM 7110B	IML
34-7SA	SA	4Q10	10/4/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1489614.8	713356.1	42' - 52'	22.33	SM 7500-Ra B	IML
34-7SA	SA	4Q10	10/4/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1489614.8	713356.1	42' - 52'	22.33	Ra-05	IML

Regional Baseline Monitor Well Data

Ross ISR Project

12

TR Addendum 2.9-C

Station ID	Zone	Quarter	Sample Date	Analyte*	Value	Units	Detect Limit	Error	10 CFR 20 MPC (µCi/ml)	Value in µCi/ml	NAD 83 Northing	NAD 83 Easting	Depth Interval	Depth to Water (ft)	Method	Contract Laboratory
34-75A	SA	4Q10	10/4/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1489614.8	713356.1	42' - 52'	22.33	EPA 200.8	IML
34-75M	SM	1Q10	3/30/10	Gross Alpha	4.700	pCi/l	2.0000	2.500	NA	NA	1489647.6	713384.9	210' - 245'	56.73	SM 7110B	IML
34-75M	SM	1Q10	3/30/10	Gross Beta	8.700	pCi/l	3.0000	3.800	NA	NA	1489647.6	713384.9	210' - 245'	56.73	SM 7110B	IML
34-75M	SM	1Q10	3/30/10	Ra-226, D	0.210	pCi/l	0.2000	0.080	6.E-08	2.10E-10	1489647.6	713384.9	210' - 245'	56.73	SM 7500-Ra B	IML
34-75M	SM	1Q10	3/30/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1489647.6	713384.9	210' - 245'	56.73	Ra-05	IML
34-75M	SM	1Q10	3/30/10	Rn-222	443.000	pCi/l	26.0000	56.000	NA	NA	1489647.6	713384.9	210' - 245'	56.73	SM7500-RN	IML
34-75M	SM	1Q10	3/30/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1489647.6	713384.9	210' - 245'	56.73	EPA 200.8	IML
34-75M	SM	2Q10	5/20/10	Gross Alpha	6.200	pCi/l	2.0000	2.800	NA	NA	1489647.6	713384.9	210' - 245'	56.13	SM 7110B	IML
34-75M	SM	2Q10	5/20/10	Gross Beta	10.300	pCi/l	3.0000	4.000	NA	NA	1489647.6	713384.9	210' - 245'	56.13	SM 7110B	IML
34-75M	SM	2Q10	5/20/10	Pb-210, D	1.340	pCi/l	1.0000	0.800	1.E-08	1.34E-09	1489647.6	713384.9	210' - 245'	56.13	OTW01	IML
34-75M	SM	2Q10	5/20/10	Pb-210, S	<1	pCi/l	1.0000		1.E-08	NA	1489647.6	713384.9	210' - 245'	56.13	OTW01	IML
34-75M	SM	2Q10	5/20/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1489647.6	713384.9	210' - 245'	56.13	OTW01	IML
34-75M	SM	2Q10	5/20/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1489647.6	713384.9	210' - 245'	56.13	OTW01	IML
34-75M	SM	2Q10	5/20/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1489647.6	713384.9	210' - 245'	56.13	SM 7500-Ra B	IML
34-75M	SM	2Q10	5/20/10	Ra-226, S	0.280	pCi/l	0.2000	0.080	6.E-08	2.80E-10	1489647.6	713384.9	210' - 245'	56.13	SM 7500-Ra B	IML
34-75M	SM	2Q10	5/20/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1489647.6	713384.9	210' - 245'	56.13	Ra-05	IML
34-75M	SM	2Q10	5/20/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1489647.6	713384.9	210' - 245'	56.13	ACW10	IML
34-75M	SM	2Q10	5/20/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1489647.6	713384.9	210' - 245'	56.13	ACW10	IML
34-75M	SM	2Q10	5/20/10	U, D	0.001	mg/l	0.0010		3.E-07	6.70E-10	1489647.6	713384.9	210' - 245'	56.13	EPA 200.8	IML
34-75M	SM	2Q10	5/20/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1489647.6	713384.9	210' - 245'	56.13	EPA 200.8	IML
34-75M	SM	3Q10	8/10/10	Gross Alpha	4.100	pCi/l	2.0000	2.400	NA	NA	1489647.6	713384.9	210' - 245'	56.11	SM 7110B	IML
34-75M	SM	3Q10	8/10/10	Gross Beta	5.800	pCi/l	3.0000	3.600	NA	NA	1489647.6	713384.9	210' - 245'	56.11	SM 7110B	IML
34-75M	SM	3Q10	8/10/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1489647.6	713384.9	210' - 245'	56.11	OTW01	IML
34-75M	SM	3Q10	8/10/10	Pb-210, S	<1	pCi/l	1.0000		1.E-08	NA	1489647.6	713384.9	210' - 245'	56.11	OTW01	IML
34-75M	SM	3Q10	8/10/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1489647.6	713384.9	210' - 245'	56.11	OTW01	IML
34-75M	SM	3Q10	8/10/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1489647.6	713384.9	210' - 245'	56.11	OTW01	IML
34-75M	SM	3Q10	8/10/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1489647.6	713384.9	210' - 245'	56.11	SM 7500-Ra B	IML
34-75M	SM	3Q10	8/10/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1489647.6	713384.9	210' - 245'	56.11	SM 7500-Ra B	IML
34-75M	SM	3Q10	8/10/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1489647.6	713384.9	210' - 245'	56.11	Ra-05	IML
34-75M	SM	3Q10	8/10/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1489647.6	713384.9	210' - 245'	56.11	ACW10	IML
34-75M	SM	3Q10	8/10/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1489647.6	713384.9	210' - 245'	56.11	ACW10	IML
34-75M	SM	3Q10	8/10/10	U, D	0.002	mg/l	0.0010		3.E-07	1.34E-09	1489647.6	713384.9	210' - 245'	56.11	EPA 200.8	IML
34-75M	SM	3Q10	8/10/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1489647.6	713384.9	210' - 245'	56.11	EPA 200.8	IML
34-75M	SM	4Q10	10/13/10	Gross Alpha	10.100	pCi/l	2.0000	2.900	NA	NA	1489647.6	713384.9	210' - 245'	56.18	SM 7110B	IML
34-75M	SM	4Q10	10/13/10	Gross Beta	9.700	pCi/l	3.0000	3.700	NA	NA	1489647.6	713384.9	210' - 245'	56.18	SM 7110B	IML
34-75M	SM	4Q10	10/13/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1489647.6	713384.9	210' - 245'	56.18	SM 7500-Ra B	IML
34-75M	SM	4Q10	10/13/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1489647.6	713384.9	210' - 245'	56.18	Ga-Tech	IML
34-75M	SM	4Q10	10/13/10	U, D	0.001	mg/l	0.0010		3.E-07	6.70E-10	1489647.6	713384.9	210' - 245'	56.18	EPA 200.8	IML
42-19DM	DM	1Q10	3/16/10	Gross Alpha	<2	pCi/l	2.0000		NA	NA	1481221.4	713097.4	600' - 610'	286.01	SM 7110B	IML
42-19DM	DM	1Q10	3/16/10	Gross Beta	34.300	pCi/l	3.9600	4.300	NA	NA	1481221.4	713097.4	600' - 610'	286.01	SM 7110B	IML
42-19DM	DM	1Q10	3/16/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1481221.4	713097.4	600' - 610'	286.01	SM 7500-Ra B	IML
42-19DM	DM	1Q10	3/16/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1481221.4	713097.4	600' - 610'	286.01	Ra-05	IML
42-19DM	DM	1Q10	3/16/10	Rn-222	<28	pCi/l	28.0000		NA	NA	1481221.4	713097.4	600' - 610'	286.01	SM7500-RN	IML
42-19DM	DM	1Q10	3/16/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1481221.4	713097.4	600' - 610'	286.01	EPA 200.8	IML
42-19DM	DM	2Q10	5/17/10	Gross Alpha	<2	pCi/l	2.0000		NA	NA	1481221.4	713097.4	600' - 610'	286.32	SM 7110B	IML
42-19DM	DM	2Q10	5/17/10	Gross Beta	19.700	pCi/l	3.0000	4.100	NA	NA	1481221.4	713097.4	600' - 610'	286.32	SM 7110B	IML
42-19DM	DM	2Q10	5/17/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1481221.4	713097.4	600' - 610'	286.32	OTW01	IML
42-19DM	DM	2Q10	5/17/10	Pb-210, S	<1	pCi/l	1.0000		1.E-08	NA	1481221.4	713097.4	600' - 610'	286.32	OTW01	IML
42-19DM	DM	2Q10	5/17/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1481221.4	713097.4	600' - 610'	286.32	OTW01	IML
42-19DM	DM	2Q10	5/17/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1481221.4	713097.4	600' - 610'	286.32	OTW01	IML
42-19DM	DM	2Q10	5/17/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1481221.4	713097.4	600' - 610'	286.32	SM 7500-Ra B	IML
42-19DM	DM	2Q10	5/17/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1481221.4	713097.4	600' - 610'	286.32	SM 7500-Ra B	IML
42-19DM	DM	2Q10	5/17/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1481221.4	713097.4	600' - 610'	286.32	Ra-05	IML
42-19DM	DM	2Q10	5/17/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1481221.4	713097.4	600' - 610'	286.32	ACW10	IML
42-19DM	DM	2Q10	5/17/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1481221.4	713097.4	600' - 610'	286.32	ACW10	IML
42-19DM	DM	2Q10	5/17/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1481221.4	713097.4	600' - 610'	286.32	EPA 200.8	IML
42-19DM	DM	2Q10	5/17/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1481221.4	713097.4	600' - 610'	286.32	EPA 200.8	IML
42-19DM	DM	3Q10	8/4/10	Gross Alpha	<3.5	pCi/l	3.5000		NA	NA	1481221.4	713097.4	600' - 610'	287.28	SM 7110B	IML
42-19DM	DM	3Q10	8/4/10	Gross Beta	<6.8	pCi/l	6.8000		NA	NA	1481221.4	713097.4	600' - 610'	287.28	SM 7110B	IML
42-19DM	DM	3Q10	8/4/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1481221.4	713097.4	600' - 610'	287.28	OTW01	IML
42-19DM	DM	3Q10	8/4/10	Pb-210, S	<1	pCi/l	1.0000		1.E-08	NA	1481221.4	713097.4	600' - 610'	287.28	OTW01	IML
42-19DM	DM	3Q10	8/4/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1481221.4	713097.4	600' - 610'	287.28	OTW01	IML
42-19DM	DM	3Q10	8/4/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1481221.4	713097.4	600' - 610'	287.28	OTW01	IML
42-19DM	DM	3Q10	8/4/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1481221.4	713097.4	600' - 610'	287.28	SM 7500-Ra B	IML
42-19DM	DM	3Q10	8/4/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1481221.4	713097.4	600' - 610'	287.28	SM 7500-Ra B	IML
42-19DM	DM	3Q10	8/4/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1481221.4	713097.4	600' - 610'	287.28	Ra-05	IML

Regional Baseline Monitor Well Data

Ross ISR Project

13

TR Addendum 2.9-C

Station ID	Zone	Quarter	Sample Date	Analyte*	Value	Units	Detect Limit	Error	10 CFR 20 MPC (µCi/ml)	Value in µCi/ml	NAD 83 Northing	NAD 83 Easting	Depth Interval	Depth to Water (ft)	Method	Contract Laboratory
42-19DM	DM	3Q10	8/4/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1481221.4	713097.4	600' - 610'	287.28	ACW10	IML
42-19DM	DM	3Q10	8/4/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1481221.4	713097.4	600' - 610'	287.28	ACW10	IML
42-19DM	DM	3Q10	8/4/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1481221.4	713097.4	600' - 610'	287.28	EPA 200.8	IML
42-19DM	DM	3Q10	8/4/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1481221.4	713097.4	600' - 610'	287.28	EPA 200.8	IML
42-19DM	DM	4Q10	10/5/10	Gross Alpha	<2	pCi/l	2.0000		NA	NA	1481221.4	713097.4	600' - 610'	287.9	SM 7110B	IML
42-19DM	DM	4Q10	10/5/10	Gross Beta	8.900	pCi/l	3.0000	4.100	NA	NA	1481221.4	713097.4	600' - 610'	287.9	SM 7110B	IML
42-19DM	DM	4Q10	10/5/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1481221.4	713097.4	600' - 610'	287.9	SM 7500-Ra B	IML
42-19DM	DM	4Q10	10/5/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1481221.4	713097.4	600' - 610'	287.9	Ga-Tech	IML
42-19DM	DM	4Q10	10/5/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1481221.4	713097.4	600' - 610'	287.9	EPA 200.8	IML
42-19OZ	OZ	1Q10	3/11/10	Gross Alpha	19.400	pCi/l	2.0000	3.800	NA	NA	1481259.0	713060.9	470' - 560'	299.9	SM 7110B	IML
42-19OZ	OZ	1Q10	3/11/10	Gross Beta	4.200	pCi/l	3.9700	4.000	NA	NA	1481259.0	713060.9	470' - 560'	299.9	SM 7110B	IML
42-19OZ	OZ	1Q10	3/11/10	Ra-226, D	1.380	pCi/l	0.2000	0.180	6.E-08	1.38E-09	1481259.0	713060.9	470' - 560'	299.9	SM 7500-Ra B	IML
42-19OZ	OZ	1Q10	3/11/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1481259.0	713060.9	470' - 560'	299.9	Ra-05	IML
42-19OZ	OZ	1Q10	3/11/10	Rn-222	6460.000	pCi/l	30.0000	740.000	NA	NA	1481259.0	713060.9	470' - 560'	299.9	SM7500-RN	IML
42-19OZ	OZ	1Q10	3/11/10	U, D	0.011	mg/l	0.0010		3.E-07	7.37E-09	1481259.0	713060.9	470' - 560'	299.9	EPA 200.8	IML
42-19OZ	OZ	2Q10	5/17/10	Gross Alpha	15.400	pCi/l	2.0000	3.300	NA	NA	1481259.0	713060.9	470' - 560'	303.94	SM 7110B	IML
42-19OZ	OZ	2Q10	5/17/10	Gross Beta	9.800	pCi/l	3.0000	3.700	NA	NA	1481259.0	713060.9	470' - 560'	303.94	SM 7110B	IML
42-19OZ	OZ	2Q10	5/17/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1481259.0	713060.9	470' - 560'	303.94	OTW01	IML
42-19OZ	OZ	2Q10	5/17/10	Pb-210, S	1.350	pCi/l	1.0000	0.380	1.E-08	1.35E-09	1481259.0	713060.9	470' - 560'	303.94	OTW01	IML
42-19OZ	OZ	2Q10	5/17/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1481259.0	713060.9	470' - 560'	303.94	OTW01	IML
42-19OZ	OZ	2Q10	5/17/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1481259.0	713060.9	470' - 560'	303.94	OTW01	IML
42-19OZ	OZ	2Q10	5/17/10	Ra-226, D	1.360	pCi/l	0.2000	0.210	6.E-08	1.36E-09	1481259.0	713060.9	470' - 560'	303.94	SM 7500-Ra B	IML
42-19OZ	OZ	2Q10	5/17/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1481259.0	713060.9	470' - 560'	303.94	SM 7500-Ra B	IML
42-19OZ	OZ	2Q10	5/17/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1481259.0	713060.9	470' - 560'	303.94	Ra-05	IML
42-19OZ	OZ	2Q10	5/17/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1481259.0	713060.9	470' - 560'	303.94	ACW10	IML
42-19OZ	OZ	2Q10	5/17/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1481259.0	713060.9	470' - 560'	303.94	ACW10	IML
42-19OZ	OZ	2Q10	5/17/10	U, D	0.010	mg/l	0.0010		3.E-07	6.70E-09	1481259.0	713060.9	470' - 560'	303.94	EPA 200.8	IML
42-19OZ	OZ	2Q10	5/17/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1481259.0	713060.9	470' - 560'	303.94	EPA 200.8	IML
42-19OZ	OZ	3Q10	7/10/10	Gross Alpha	18.700	pCi/l	3.2000	3.500	NA	NA	1481259.0	713060.9	470' - 560'	301.31	SM 7110B	IML
42-19OZ	OZ	3Q10	7/10/10	Gross Beta	8.540	pCi/l	7.0000	3.740	NA	NA	1481259.0	713060.9	470' - 560'	301.31	SM 7110B	IML
42-19OZ	OZ	3Q10	7/10/10	Pb-210, D	1.400	pCi/l	1.0000	0.460	1.E-08	1.40E-09	1481259.0	713060.9	470' - 560'	301.31	OTW01	IML
42-19OZ	OZ	3Q10	7/10/10	Pb-210, S	1.860	pCi/l	1.0000	0.410	1.E-08	1.86E-09	1481259.0	713060.9	470' - 560'	301.31	OTW01	IML
42-19OZ	OZ	3Q10	7/10/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1481259.0	713060.9	470' - 560'	301.31	OTW01	IML
42-19OZ	OZ	3Q10	7/10/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1481259.0	713060.9	470' - 560'	301.31	OTW01	IML
42-19OZ	OZ	3Q10	7/10/10	Ra-226, D	1.460	pCi/l	0.2000	0.150	6.E-08	1.46E-09	1481259.0	713060.9	470' - 560'	301.31	SM 7500-Ra B	IML
42-19OZ	OZ	3Q10	7/10/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1481259.0	713060.9	470' - 560'	301.31	SM 7500-Ra B	IML
42-19OZ	OZ	3Q10	7/10/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1481259.0	713060.9	470' - 560'	301.31	Ra-05	IML
42-19OZ	OZ	3Q10	7/10/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1481259.0	713060.9	470' - 560'	301.31	ACW10	IML
42-19OZ	OZ	3Q10	7/10/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1481259.0	713060.9	470' - 560'	301.31	ACW10	IML
42-19OZ	OZ	3Q10	7/10/10	U, D	0.010	mg/l	0.0010		3.E-07	6.70E-09	1481259.0	713060.9	470' - 560'	301.31	EPA 200.8	IML
42-19OZ	OZ	3Q10	7/10/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1481259.0	713060.9	470' - 560'	301.31	EPA 200.8	IML
42-19OZ	OZ	4Q10	10/5/10	Gross Alpha	19.600	pCi/l	2.0000	3.500	NA	NA	1481259.0	713060.9	470' - 560'	300.62	SM 7110B	IML
42-19OZ	OZ	4Q10	10/5/10	Gross Beta	13.400	pCi/l	3.0000	4.000	NA	NA	1481259.0	713060.9	470' - 560'	300.62	SM 7110B	IML
42-19OZ	OZ	4Q10	10/5/10	Ra-226, D	1.400	pCi/l	0.2000	0.200	6.E-08	1.40E-09	1481259.0	713060.9	470' - 560'	300.62	SM 7500-Ra B	IML
42-19OZ	OZ	4Q10	10/5/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1481259.0	713060.9	470' - 560'	300.62	Ga-Tech	IML
42-19OZ	OZ	4Q10	10/5/10	U, D	0.009	mg/l	0.0010		3.E-07	6.03E-09	1481259.0	713060.9	470' - 560'	300.62	EPA 200.8	IML
42-19SM	SM	1Q10	3/16/10	Gross Alpha	<2	pCi/l	2.0000		NA	NA	1481260.9	713131.7	260' - 290'	155.65	SM 7110B	IML
42-19SM	SM	1Q10	3/16/10	Gross Beta	10.800	pCi/l	4.0800	3.800	NA	NA	1481260.9	713131.7	260' - 290'	155.65	SM 7110B	IML
42-19SM	SM	1Q10	3/16/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1481260.9	713131.7	260' - 290'	155.65	SM 7500-Ra B	IML
42-19SM	SM	1Q10	3/16/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1481260.9	713131.7	260' - 290'	155.65	Ra-05	IML
42-19SM	SM	1Q10	3/16/10	Rn-222	<28	pCi/l	28.0000		NA	NA	1481260.9	713131.7	260' - 290'	155.65	SM7500-RN	IML
42-19SM	SM	1Q10	3/16/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1481260.9	713131.7	260' - 290'	155.65	EPA 200.8	IML
42-19SM	SM	2Q10	5/18/10	Gross Alpha	<2	pCi/l	2.0000		NA	NA	1481260.9	713131.7	260' - 290'	155.57	SM 7110B	IML
42-19SM	SM	2Q10	5/18/10	Gross Beta	6.800	pCi/l	3.0000	4.100	NA	NA	1481260.9	713131.7	260' - 290'	155.57	SM 7110B	IML
42-19SM	SM	2Q10	5/18/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1481260.9	713131.7	260' - 290'	155.57	OTW01	IML
42-19SM	SM	2Q10	5/18/10	Pb-210, S	<1	pCi/l	1.0000		1.E-08	NA	1481260.9	713131.7	260' - 290'	155.57	OTW01	IML
42-19SM	SM	2Q10	5/18/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1481260.9	713131.7	260' - 290'	155.57	OTW01	IML
42-19SM	SM	2Q10	5/18/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1481260.9	713131.7	260' - 290'	155.57	OTW01	IML
42-19SM	SM	2Q10	5/18/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1481260.9	713131.7	260' - 290'	155.57	SM 7500-Ra B	IML
42-19SM	SM	2Q10	5/18/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1481260.9	713131.7	260' - 290'	155.57	SM 7500-Ra B	IML
42-19SM	SM	2Q10	5/18/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1481260.9	713131.7	260' - 290'	155.57	Ra-05	IML
42-19SM	SM	2Q10	5/18/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1481260.9	713131.7	260' - 290'	155.57	ACW10	IML
42-19SM	SM	2Q10	5/18/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1481260.9	713131.7	260' - 290'	155.57	ACW10	IML
42-19SM	SM	2Q10	5/18/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1481260.9	713131.7	260' - 290'	155.57	EPA 200.8	IML
42-19SM	SM	2Q10	5/18/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1481260.9	713131.7	260' - 290'	155.57	EPA 200.8	IML
42-19SM	SM	3Q10	8/4/10	Gross Alpha	2.780	pCi/l	3.5000	2.190	NA	NA	1481260.9	713131.7	260' - 290'	155.64	SM 7110B	IML

Regional Baseline Monitor Well Data

Station ID	Zone	Quarter	Sample Date	Analyte*	Value	Units	Detect Limit	Error	10 CFR 20 MPC (µCi/ml)	Value in µCi/ml	NAD 83 Northing	NAD 83 Easting	Depth Interval	Depth to Water (ft)	Method	Contract Laboratory
SA43-18-3	SA	2Q10	6/5/10	Gross Alpha	17.000	pCi/l	2.0000	3.500	NA	NA	1486276.9	713754.7	13.1' - 23.1'	13.03	SM 7110B	IML
SA43-18-3	SA	2Q10	6/5/10	Gross Beta	12.500	pCi/l	3.0000	2.700	NA	NA	1486276.9	713754.7	13.1' - 23.1'	13.03	SM 7110B	IML
SA43-18-3	SA	2Q10	6/5/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1486276.9	713754.7	13.1' - 23.1'	13.03	SM 7500-Ra B	IML
SA43-18-3	SA	2Q10	6/5/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1486276.9	713754.7	13.1' - 23.1'	13.03	Ra-05	IML
SA43-18-3	SA	2Q10	6/5/10	U, D	0.013	mg/l	0.0010		3.E-07	8.71E-09	1486276.9	713754.7	13.1' - 23.1'	13.03	EPA 200.8	IML
SA43-18-3	SA	3Q10	7/13/10	Gross Alpha	8.440	pCi/l	2.0000	1.650	NA	NA	1486276.9	713754.7	13.1' - 23.1'	14.75	SM 7110B	IML
SA43-18-3	SA	3Q10	9/22/10	Gross Alpha	18.000	pCi/l	2.0000	2.300	NA	NA	1486276.9	713754.7	13.1' - 23.1'	14.75	SM 7110B	IML
SA43-18-3	SA	3Q10	7/13/10	Gross Beta	6.490	pCi/l	3.4000	2.060	NA	NA	1486276.9	713754.7	13.1' - 23.1'	14.75	SM 7110B	IML
SA43-18-3	SA	3Q10	9/22/10	Gross Beta	15.500	pCi/l	3.0000	2.100	NA	NA	1486276.9	713754.7	13.1' - 23.1'	14.75	SM 7110B	IML
SA43-18-3	SA	3Q10	7/13/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1486276.9	713754.7	13.1' - 23.1'	14.75	OTW01	IML
SA43-18-3	SA	3Q10	7/13/10	Pb-210, S	3.810	pCi/l	1.0000	0.510	1.E-08	3.81E-09	1486276.9	713754.7	13.1' - 23.1'	14.75	OTW01	IML
SA43-18-3	SA	3Q10	7/13/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1486276.9	713754.7	13.1' - 23.1'	14.75	OTW01	IML
SA43-18-3	SA	3Q10	7/13/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1486276.9	713754.7	13.1' - 23.1'	14.75	OTW01	IML
SA43-18-3	SA	3Q10	7/13/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1486276.9	713754.7	13.1' - 23.1'	14.75	SM 7500-Ra B	IML
SA43-18-3	SA	3Q10	9/22/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1486276.9	713754.7	13.1' - 23.1'	14.75	SM 7500-Ra B	IML
SA43-18-3	SA	3Q10	7/13/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1486276.9	713754.7	13.1' - 23.1'	14.75	SM 7500-Ra B	IML
SA43-18-3	SA	3Q10	7/13/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1486276.9	713754.7	13.1' - 23.1'	14.75	Ra-05	IML
SA43-18-3	SA	3Q10	9/22/10	Ra-228, D	2.200	pCi/l	1.0000	0.800	6.E-08	2.20E-09	1486276.9	713754.7	13.1' - 23.1'	14.75	Ra-05	IML
SA43-18-3	SA	3Q10	7/13/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1486276.9	713754.7	13.1' - 23.1'	14.75	ACW10	IML
SA43-18-3	SA	3Q10	7/13/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1486276.9	713754.7	13.1' - 23.1'	14.75	ACW10	IML
SA43-18-3	SA	3Q10	7/13/10	U, D	0.011	mg/l	0.0010		3.E-07	7.37E-09	1486276.9	713754.7	13.1' - 23.1'	14.75	EPA 200.8	IML
SA43-18-3	SA	3Q10	9/22/10	U, D	0.010	mg/l	0.0010		3.E-07	6.70E-09	1486276.9	713754.7	13.1' - 23.1'	14.75	EPA 200.8	IML
SA43-18-3	SA	3Q10	7/13/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1486276.9	713754.7	13.1' - 23.1'	14.75	EPA 200.8	IML

Ross ISR Project

15

TR Addendum 2.9-C

Existing Water Supply Well Data
Groundwater Wells

Well ID	Quarter	Sample Date	Analyte*	Value	Units	Detect Limit	Error	10 CFR 20 MPC (µCi/ml)	Value in µCi/ml	Latitude	Longitude	Well Depth (feet)	Depth to Water (feet)	Method	Well Type	Contract Laboratory
19XX18	1Q10	1/21/10	Gross Alpha	252	pCi/l	2.800	17.000	NA	NA	44.57288	-104.95593	536	Unk	SM 7110B	Injection	IML
19XX18	1Q10	1/21/10	Gross Beta	75	pCi/l	10.200	11.000	NA	NA	44.57288	-104.95593	536	Unk	SM 7110B	Injection	IML
19XX18	1Q10	1/21/10	Ra-226, D	37.3	pCi/l	0.200	0.900	6.E-08	4.E-08	44.57288	-104.95593	536	Unk	SM 7500-Ra B	Injection	IML
19XX18	1Q10	1/21/10	Ra-228, D	1.35	pCi/l	1.000	0.830	6.E-08	1.E-09	44.57288	-104.95593	536	Unk	Ra-05	Injection	IML
19XX18	1Q10	1/22/10	Rn-222	18000	pCi/l	32.000	300.000	FALSE	2.E-05	44.57288	-104.95593	536	Unk	SM7500-RN	Injection	IML
19XX18	1Q10	1/21/10	U, D	0.074	mg/l	0.001		3.E-07	5.E-08	44.57288	-104.95593	536	Unk	EPA 200.8	Injection	IML
19XX18	2Q10	5/14/10	Gross Alpha	267	pCi/l	2.000	12.000	NA	NA	44.57288	-104.95593	536	Unk	SM 7110B	Injection	IML
19XX18	2Q10	5/14/10	Gross Beta	65.7	pCi/l	4.100	5.000	NA	NA	44.57288	-104.95593	536	Unk	SM 7110B	Injection	IML
19XX18	2Q10	5/14/10	Pb-210, D	3.04	pCi/l	1.000	0.069	1.E-08	3.E-09	44.57288	-104.95593	536	Unk	OTW01	Injection	IML
19XX18	2Q10	5/14/10	Pb-210, S	1.43	pCi/l	1.000	0.610	1.E-08	1.E-09	44.57288	-104.95593	536	Unk	OTW01	Injection	IML
19XX18	2Q10	5/14/10	Po-210, D	4.04	pCi/l	1.000	0.370	4.E-08	4.E-09	44.57288	-104.95593	536	Unk	OTW01	Injection	IML
19XX18	2Q10	5/14/10	Po-210, S	3.91	pCi/l	1.000	0.360	4.E-08	4.E-09	44.57288	-104.95593	536	Unk	OTW01	Injection	IML
19XX18	2Q10	5/14/10	Ra-226, D	43.7	pCi/l	0.200	0.900	6.E-08	4.E-08	44.57288	-104.95593	536	Unk	SM 7500-Ra B	Injection	IML
19XX18	2Q10	5/14/10	Ra-226, S	0.31	pCi/l	0.200	0.080	6.E-08	3.E-10	44.57288	-104.95593	536	Unk	SM 7500-Ra B	Injection	IML
19XX18	2Q10	5/14/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.57288	-104.95593	536	Unk	Ra-05	Injection	IML
19XX18	2Q10	5/14/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.57288	-104.95593	536	Unk	ACW10	Injection	IML
19XX18	2Q10	5/14/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.57288	-104.95593	536	Unk	ACW10	Injection	IML
19XX18	2Q10	5/14/10	U, D	0.089	mg/l	0.001		3.E-07	6.E-08	44.57288	-104.95593	536	Unk	EPA 200.8	Injection	IML
19XX18	2Q10	5/14/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.57288	-104.95593	536	Unk	EPA 200.8	Injection	IML
19XX18	3Q09	8/6/09	Gross Alpha	227	pCi/l	2.000	11.000	NA	NA	44.57288	-104.95593	536	Unk	SM 7110B	Injection	IML
19XX18	3Q09	8/6/09	Gross Beta	52.3	pCi/l	3.000	4.800	NA	NA	44.57288	-104.95593	536	Unk	SM 7110B	Injection	IML
19XX18	3Q09	8/6/09	Ra-226, D	39.5	pCi/l	0.200	1.300	6.E-08	4.E-08	44.57288	-104.95593	536	Unk	SM 7500-Ra B	Injection	IML
19XX18	3Q09	8/6/09	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.57288	-104.95593	536	Unk	Ra-05	Injection	IML
19XX18	3Q09	8/6/09	U, D	0.086	mg/l	0.001		3.E-07	6.E-08	44.57288	-104.95593	536	Unk	EPA 200.8	Injection	IML
19XX18	3Q10	7/9/10	Gross Alpha	167.7	pCi/l	3.300	9.400	NA	NA	44.57288	-104.95593	536	Unk	SM 7110B	Injection	IML
19XX18	3Q10	7/9/10	Gross Beta	54	pCi/l	7.000	4.700	NA	NA	44.57288	-104.95593	536	Unk	SM 7110B	Injection	IML
19XX18	3Q10	7/9/10	Pb-210, D	6.13	pCi/l	1.000	0.730	1.E-08	6.E-09	44.57288	-104.95593	536	Unk	OTW01	Injection	IML
19XX18	3Q10	7/9/10	Pb-210, S	2.8	pCi/l	1.000	0.470	1.E-08	3.E-09	44.57288	-104.95593	536	Unk	OTW01	Injection	IML
19XX18	3Q10	7/9/10	Po-210, D	6.4	pCi/l	1.000	1.080	4.E-08	6.E-09	44.57288	-104.95593	536	Unk	OTW01	Injection	IML
19XX18	3Q10	7/9/10	Po-210, S	5.9	pCi/l	1.000	0.790	4.E-08	6.E-09	44.57288	-104.95593	536	Unk	OTW01	Injection	IML
19XX18	3Q10	7/9/10	Ra-226, D	39.4	pCi/l	0.200	1.300	6.E-08	4.E-08	44.57288	-104.95593	536	Unk	SM 7500-Ra B	Injection	IML
19XX18	3Q10	7/9/10	Ra-226, S	0.28	pCi/l	0.200	0.080	6.E-08	3.E-10	44.57288	-104.95593	536	Unk	SM 7500-Ra B	Injection	IML
19XX18	3Q10	7/9/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.57288	-104.95593	536	Unk	Ra-05	Injection	IML
19XX18	3Q10	7/9/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.57288	-104.95593	536	Unk	ACW10	Injection	IML
19XX18	3Q10	7/9/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.57288	-104.95593	536	Unk	ACW10	Injection	IML
19XX18	3Q10	7/9/10	U, D	0.087	mg/l	0.001		3.E-07	6.E-08	44.57288	-104.95593	536	Unk	EPA 200.8	Injection	IML
19XX18	3Q10	7/9/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.57288	-104.95593	536	Unk	EPA 200.8	Injection	IML
19XX18	4Q09	10/21/09	Gross Alpha	185.2	pCi/l	2.000	9.800	NA	NA	44.57288	-104.95593	536	Unk	SM 7110B	Injection	IML
19XX18	4Q09	10/21/09	Gross Beta	39.7	pCi/l	3.980	4.400	NA	NA	44.57288	-104.95593	536	Unk	SM 7110B	Injection	IML
19XX18	4Q09	10/21/09	Pb-210, D	2.41	pCi/l	1.000	0.830	1.E-08	2.E-09	44.57288	-104.95593	536	Unk	OTW01	Injection	IML
19XX18	4Q09	10/21/09	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.57288	-104.95593	536	Unk	OTW01	Injection	IML
19XX18	4Q09	10/21/09	Ra-226, D	47.23	pCi/l	0.200	0.900	6.E-08	5.E-08	44.57288	-104.95593	536	Unk	SM 7500-Ra B	Injection	IML
19XX18	4Q09	10/21/09	Ra-228, D	1.65	pCi/l	1.000	0.860	6.E-08	2.E-09	44.57288	-104.95593	536	Unk	Ra-05	Injection	IML
19XX18	4Q09	10/21/09	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.57288	-104.95593	536	Unk	ACW10	Injection	IML
19XX18	4Q09	10/21/09	U, D	0.085	mg/l	0.001		3.E-07	6.E-08	44.57288	-104.95593	536	Unk	EPA 200.8	Injection	IML
19XX18	4Q10	10/4/10	Gross Alpha	324	pCi/l	2.000	12.900	NA	NA	44.57288	-104.95593	536	Unk	SM 7110B	Injection	IML
19XX18	4Q10	10/4/10	Gross Beta	81.4	pCi/l	3.000	5.100	NA	NA	44.57288	-104.95593	536	Unk	SM 7110B	Injection	IML
19XX18	4Q10	10/4/10	Ra-226, D	42	pCi/l	0.200	0.900	6.E-08	4.E-08	44.57288	-104.95593	536	Unk	SM 7500-Ra B	Injection	IML
19XX18	4Q10	10/4/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.57288	-104.95593	536	Unk	Ra-05	Injection	IML
19XX18	4Q10	10/4/10	U, D	0.078	mg/l	0.001		3.E-07	5.E-08	44.57288	-104.95593	536	Unk	EPA 200.8	Injection	IML
22X-19	1Q10	1/21/10	Gross Alpha	46.3	pCi/l	2.000	5.200	NA	NA	44.56559	-104.95596	750	Unk	SM 7110B	Unknown	IML
22X-19	1Q10	1/21/10	Gross Beta	7.3	pCi/l	3.960	3.600	NA	NA	44.56559	-104.95596	750	Unk	SM 7110B	Unknown	IML
22X-19	1Q10	1/21/10	Ra-226, D	3.38	pCi/l	0.200	0.270	6.E-08	3.E-09	44.56559	-104.95596	750	Unk	SM 7500-Ra B	Unknown	IML
22X-19	1Q10	1/21/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.56559	-104.95596	750	Unk	Ra-05	Unknown	IML
22X-19	1Q10	1/22/10	Rn-222	9100	pCi/l	26.000	200.000	FALSE	9.E-06	44.56559	-104.95596	750	Unk	SM7500-RN	Unknown	IML
22X-19	1Q10	1/21/10	U, D	0.02	mg/l	0.001		3.E-07	1.E-08	44.56559	-104.95596	750	Unk	EPA 200.8	Unknown	IML
22X-19	2Q10	5/14/10	Gross Alpha	45.3	pCi/l	2.000	5.000	NA	NA	44.56559	-104.95596	750	Unk	SM 7110B	Unknown	IML
22X-19	2Q10	5/14/10	Gross Beta	9.3	pCi/l	4.100	3.800	NA	NA	44.56559	-104.95596	750	Unk	SM 7110B	Unknown	IML

Ross ISR Project

16

TR Addendum 2.9-C

Existing Water Supply Well Data
Groundwater Wells

Ross ISR Project

17

TR Addendum 2.9-C

Well ID	Quarter	Sample Date	Analyte*	Value	Units	Detect Limit	Error	10 CFR 20 MPC (μCi/ml)	Value in μCi/ml	Latitude	Longitude	Well Depth (feet)	Depth to Water (feet)	Method	Well Type	Contract Laboratory
22X-19	2Q10	5/14/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.56559	-104.95596	750	Unk	OTW01	Unknown	IML
22X-19	2Q10	5/14/10	Pb-210, S	1.21	pCi/l	1.000	0.690	1.E-08	1.E-09	44.56559	-104.95596	750	Unk	OTW01	Unknown	IML
22X-19	2Q10	5/14/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.56559	-104.95596	750	Unk	OTW01	Unknown	IML
22X-19	2Q10	5/14/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.56559	-104.95596	750	Unk	OTW01	Unknown	IML
22X-19	2Q10	5/14/10	Ra-226, D	3.05	pCi/l	0.200	0.230	6.E-08	3.E-09	44.56559	-104.95596	750	Unk	SM 7500-Ra B	Unknown	IML
22X-19	2Q10	5/14/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.56559	-104.95596	750	Unk	SM 7500-Ra B	Unknown	IML
22X-19	2Q10	5/14/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.56559	-104.95596	750	Unk	Ra-05	Unknown	IML
22X-19	2Q10	5/14/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.56559	-104.95596	750	Unk	ACW10	Unknown	IML
22X-19	2Q10	5/14/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.56559	-104.95596	750	Unk	ACW10	Unknown	IML
22X-19	2Q10	5/14/10	U, D	0.022	mg/l	0.001		3.E-07	1.E-08	44.56559	-104.95596	750	Unk	EPA 200.8	Unknown	IML
22X-19	2Q10	5/14/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.56559	-104.95596	750	Unk	EPA 200.8	Unknown	IML
22X-19	3Q10	7/9/10	Gross Alpha	38.5	pCi/l	3.700	4.800	NA	NA	44.56559	-104.95596	750	Unk	SM 7110B	Unknown	IML
22X-19	3Q10	7/9/10	Gross Beta	12.3	pCi/l	7.000	3.800	NA	NA	44.56559	-104.95596	750	Unk	SM 7110B	Unknown	IML
22X-19	3Q10	7/9/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.56559	-104.95596	750	Unk	OTW01	Unknown	IML
22X-19	3Q10	7/9/10	Pb-210, S	1.46	pCi/l	1.000	0.390	1.E-08	1.E-09	44.56559	-104.95596	750	Unk	OTW01	Unknown	IML
22X-19	3Q10	7/9/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.56559	-104.95596	750	Unk	OTW01	Unknown	IML
22X-19	3Q10	7/9/10	Po-210, S	1.12	pCi/l	1.000	0.370	4.E-08	1.E-09	44.56559	-104.95596	750	Unk	OTW01	Unknown	IML
22X-19	3Q10	7/9/10	Ra-226, D	3.08	pCi/l	0.200	0.220	6.E-08	3.E-09	44.56559	-104.95596	750	Unk	SM 7500-Ra B	Unknown	IML
22X-19	3Q10	7/9/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.56559	-104.95596	750	Unk	SM 7500-Ra B	Unknown	IML
22X-19	3Q10	7/9/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.56559	-104.95596	750	Unk	Ra-05	Unknown	IML
22X-19	3Q10	7/9/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.56559	-104.95596	750	Unk	ACW10	Unknown	IML
22X-19	3Q10	7/9/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.56559	-104.95596	750	Unk	ACW10	Unknown	IML
22X-19	3Q10	7/9/10	U, D	0.021	mg/l	0.001		3.E-07	1.E-08	44.56559	-104.95596	750	Unk	EPA 200.8	Unknown	IML
22X-19	3Q10	7/9/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.56559	-104.95596	750	Unk	EPA 200.8	Unknown	IML
22X-19	4Q10	10/4/10	Gross Alpha	47.9	pCi/l	2.000	5.100	NA	NA	44.56559	-104.95596	750	Unk	SM 7110B	Unknown	IML
22X-19	4Q10	10/4/10	Gross Beta	12.2	pCi/l	3.000	4.000	NA	NA	44.56559	-104.95596	750	Unk	SM 7110B	Unknown	IML
22X-19	4Q10	10/4/10	Ra-226, D	3.2	pCi/l	0.200	0.300	6.E-08	3.E-09	44.56559	-104.95596	750	Unk	SM 7500-Ra B	Unknown	IML
22X-19	4Q10	10/4/10	Ra-228, D	1.4	pCi/l	1.000	1.200	6.E-08	1.E-09	44.56559	-104.95596	750	Unk	Ra-05	Unknown	IML
22X-19	4Q10	10/4/10	U, D	0.02	mg/l	0.001		3.E-07	1.E-08	44.56559	-104.95596	750	Unk	EPA 200.8	Unknown	IML
CSWELL01	1Q10	1/22/10	Gross Alpha	7.2	pCi/l	2.000	2.700	NA	NA	44.56932	-104.9405	330	Unk	SM 7110B	Domestic	IML
CSWELL01	1Q10	1/22/10	Gross Beta	<3.96	pCi/l	3.960		NA	NA	44.56932	-104.9405	330	Unk	SM 7110B	Domestic	IML
CSWELL01	1Q10	1/22/10	Ra-226, D	0.38	pCi/l	0.200	0.100	6.E-08	4.E-10	44.56932	-104.9405	330	Unk	SM 7500-Ra B	Domestic	IML
CSWELL01	1Q10	1/22/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.56932	-104.9405	330	Unk	Ra-05	Domestic	IML
CSWELL01	1Q10	1/22/10	Rn-222	1600	pCi/l	29.000	95.000	FALSE	2.E-06	44.56932	-104.9405	330	Unk	SM7500-RN	Domestic	IML
CSWELL01	1Q10	1/22/10	U, D	0.004	mg/l	0.001		3.E-07	3.E-09	44.56932	-104.9405	330	Unk	EPA 200.8	Domestic	IML
CSWELL01	2Q10	5/13/10	Gross Alpha	9.5	pCi/l	2.000	3.600	NA	NA	44.56932	-104.9405	330	Unk	SM 7110B	Domestic	IML
CSWELL01	2Q10	5/13/10	Gross Beta	6.6	pCi/l	5.000	4.700	NA	NA	44.56932	-104.9405	330	Unk	SM 7110B	Domestic	IML
CSWELL01	2Q10	5/13/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.56932	-104.9405	330	Unk	OTW01	Domestic	IML
CSWELL01	2Q10	5/13/10	Pb-210, S	<1	pCi/l	1.000		1.E-08	NA	44.56932	-104.9405	330	Unk	OTW01	Domestic	IML
CSWELL01	2Q10	5/13/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.56932	-104.9405	330	Unk	OTW01	Domestic	IML
CSWELL01	2Q10	5/13/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.56932	-104.9405	330	Unk	OTW01	Domestic	IML
CSWELL01	2Q10	5/13/10	Ra-226, D	0.5	pCi/l	0.200	0.100	6.E-08	5.E-10	44.56932	-104.9405	330	Unk	SM 7500-Ra B	Domestic	IML
CSWELL01	2Q10	5/13/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.56932	-104.9405	330	Unk	SM 7500-Ra B	Domestic	IML
CSWELL01	2Q10	5/13/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.56932	-104.9405	330	Unk	Ra-05	Domestic	IML
CSWELL01	2Q10	5/13/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.56932	-104.9405	330	Unk	ACW10	Domestic	IML
CSWELL01	2Q10	5/13/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.56932	-104.9405	330	Unk	ACW10	Domestic	IML
CSWELL01	2Q10	5/13/10	U, D	0.015	mg/l	0.001		3.E-07	1.E-08	44.56932	-104.9405	330	Unk	EPA 200.8	Domestic	IML
CSWELL01	2Q10	5/13/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.56932	-104.9405	330	Unk	EPA 200.8	Domestic	IML
CSWELL01	3Q09	8/6/09	Gross Alpha	18.3	pCi/l	2.000	3.400	NA	NA	44.56932	-104.9405	330	148.8	SM 7110B	Domestic	IML
CSWELL01	3Q09	8/6/09	Gross Beta	11.3	pCi/l	4.000	3.600	NA	NA	44.56932	-104.9405	330	148.8	SM 7110B	Domestic	IML
CSWELL01	3Q09	8/6/09	Ra-226, D	0.86	pCi/l	0.200	0.260	6.E-08	9.E-10	44.56932	-104.9405	330	148.8	SM 7500-Ra B	Domestic	IML
CSWELL01	3Q09	8/6/09	Ra-228, D	1.66	pCi/l	1.000	0.370	6.E-08	2.E-09	44.56932	-104.9405	330	148.8	Ra-05	Domestic	IML
CSWELL01	3Q09	8/6/09	U, D	0.014	mg/l	0.001		3.E-07	9.E-09	44.56932	-104.9405	330	148.8	EPA 200.8	Domestic	IML
CSWELL01	3Q10	7/22/10	Gross Alpha	14.6	pCi/l	3.300	3.200	NA	NA	44.56932	-104.9405	330	Unk	SM 7110B	Domestic	IML
CSWELL01	3Q10	7/22/10	Gross Beta	13.2	pCi/l	6.600	4.000	NA	NA	44.56932	-104.9405	330	Unk	SM 7110B	Domestic	IML
CSWELL01	3Q10	7/22/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.56932	-104.9405	330	Unk	OTW01	Domestic	IML
CSWELL01	3Q10	7/22/10	Pb-210, S	<1	pCi/l	1.000		1.E-08	NA	44.56932	-104.9405	330	Unk	OTW01	Domestic	IML
CSWELL01	3Q10	7/22/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.56932	-104.9405	330	Unk	OTW01	Domestic	IML

Existing Water Supply Well Data
Groundwater Wells

Well ID	Quarter	Sample Date	Analyte*	Value	Units	Detect Limit	Error	10 CFR 20 (µCi/ml)	Value in µCi/ml	Latitude	Longitude	Well Depth (feet)	Depth to Water (feet)	Method	Well Type	Contract Laboratory
CSWELL01	3Q10	7/22/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.56932	-104.9405	330	Unk	OTW01	Domestic	IML
CSWELL01	3Q10	7/22/10	Ra-226, D	0.49	pCi/l	0.200	0.090	6.E-08	5.E-10	44.56932	-104.9405	330	Unk	SM 7500-Ra B	Domestic	IML
CSWELL01	3Q10	7/22/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.56932	-104.9405	330	Unk	SM 7500-Ra B	Domestic	IML
CSWELL01	3Q10	7/22/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.56932	-104.9405	330	Unk	Ra-05	Domestic	IML
CSWELL01	3Q10	7/22/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.56932	-104.9405	330	Unk	ACW10	Domestic	IML
CSWELL01	3Q10	7/22/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.56932	-104.9405	330	Unk	ACW10	Domestic	IML
CSWELL01	3Q10	7/22/10	U, D	0.02	mg/l	0.001		3.E-07	1.E-08	44.56932	-104.9405	330	Unk	EPA 200.8	Domestic	IML
CSWELL01	3Q10	7/22/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.56932	-104.9405	330	Unk	EPA 200.8	Domestic	IML
CSWELL01	4Q09	10/23/09	Gross Alpha	16.3	pCi/l	2.000	3.400	NA	NA	44.56932	-104.9405	330	Unk	SM 7110B	Domestic	IML
CSWELL01	4Q09	10/23/09	Gross Beta	12.4	pCi/l	4.090	3.900	NA	NA	44.56932	-104.9405	330	Unk	SM 7110B	Domestic	IML
CSWELL01	4Q09	10/23/09	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.56932	-104.9405	330	Unk	OTW01	Domestic	IML
CSWELL01	4Q09	10/23/09	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.56932	-104.9405	330	Unk	OTW01	Domestic	IML
CSWELL01	4Q09	10/23/09	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.56932	-104.9405	330	Unk	SM 7500-Ra B	Domestic	IML
CSWELL01	4Q09	10/23/09	Ra-228, D	1.44	pCi/l	1.000	0.750	6.E-08	1.E-09	44.56932	-104.9405	330	Unk	Ra-05	Domestic	IML
CSWELL01	4Q09	10/23/09	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.56932	-104.9405	330	Unk	ACW10	Domestic	IML
CSWELL01	4Q09	10/23/09	U, D	0.008	mg/l	0.001		3.E-07	5.E-09	44.56932	-104.9405	330	Unk	EPA 200.8	Domestic	IML
CSWELL01	4Q10	10/4/10	Gross Alpha	12.2	pCi/l	2.000	3.100	NA	NA	44.56932	-104.9405	330	Unk	SM 7110B	Domestic	IML
CSWELL01	4Q10	10/4/10	Gross Beta	4.3	pCi/l	3.000	3.500	NA	NA	44.56932	-104.9405	330	Unk	SM 7110B	Domestic	IML
CSWELL01	4Q10	10/4/10	Ra-226, D	0.4	pCi/l	0.200	0.100	6.E-08	4.E-10	44.56932	-104.9405	330	Unk	SM 7500-Ra B	Domestic	IML
CSWELL01	4Q10	10/4/10	Ra-228, D	1.5	pCi/l	1.000	1.200	6.E-08	2.E-09	44.56932	-104.9405	330	Unk	Ra-05	Domestic	IML
CSWELL01	4Q10	10/4/10	U, D	0.011	mg/l	0.001		3.E-07	7.E-09	44.56932	-104.9405	330	Unk	EPA 200.8	Domestic	IML
CSWELL03	2Q10	5/18/10	Gross Alpha	2.5	pCi/l	2.000	2.000	NA	NA	44.55466	-104.94564	120	Unk	SM 7110B	Stock well	IML
CSWELL03	2Q10	5/18/10	Gross Beta	7.7	pCi/l	3.000	2.300	NA	NA	44.55466	-104.94564	120	Unk	SM 7110B	Stock well	IML
CSWELL03	2Q10	5/18/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.55466	-104.94564	120	Unk	OTW01	Stock well	IML
CSWELL03	2Q10	5/18/10	Pb-210, S	<1	pCi/l	1.000		1.E-08	NA	44.55466	-104.94564	120	Unk	OTW01	Stock well	IML
CSWELL03	2Q10	5/18/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.55466	-104.94564	120	Unk	OTW01	Stock well	IML
CSWELL03	2Q10	5/18/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.55466	-104.94564	120	Unk	OTW01	Stock well	IML
CSWELL03	2Q10	5/18/10	Ra-226, D	0.3	pCi/l	0.200	0.100	6.E-08	3.E-10	44.55466	-104.94564	120	Unk	SM 7500-Ra B	Stock well	IML
CSWELL03	2Q10	5/18/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.55466	-104.94564	120	Unk	SM 7500-Ra B	Stock well	IML
CSWELL03	2Q10	5/18/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.55466	-104.94564	120	Unk	Ra-05	Stock well	IML
CSWELL03	2Q10	5/18/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.55466	-104.94564	120	Unk	ACW10	Stock well	IML
CSWELL03	2Q10	5/18/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.55466	-104.94564	120	Unk	ACW10	Stock well	IML
CSWELL03	2Q10	5/18/10	U, D	0.001	mg/l	0.001		3.E-07	7.E-10	44.55466	-104.94564	120	Unk	EPA 200.8	Stock well	IML
CSWELL03	2Q10	5/18/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.55466	-104.94564	120	Unk	EPA 200.8	Stock well	IML
CSWELL03	3Q10	7/22/10	Gross Alpha	5.53	pCi/l	2.000	1.070	NA	NA	44.55466	-104.94564	120	Unk	SM 7110B	Stock well	IML
CSWELL03	3Q10	7/22/10	Gross Beta	7.36	pCi/l	3.000	1.130	NA	NA	44.55466	-104.94564	120	Unk	SM 7110B	Stock well	IML
CSWELL03	3Q10	7/22/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.55466	-104.94564	120	Unk	OTW01	Stock well	IML
CSWELL03	3Q10	7/22/10	Pb-210, S	<1	pCi/l	1.000		1.E-08	NA	44.55466	-104.94564	120	Unk	OTW01	Stock well	IML
CSWELL03	3Q10	7/22/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.55466	-104.94564	120	Unk	OTW01	Stock well	IML
CSWELL03	3Q10	7/22/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.55466	-104.94564	120	Unk	OTW01	Stock well	IML
CSWELL03	3Q10	7/22/10	Ra-226, D	0.34	pCi/l	0.200	0.080	6.E-08	3.E-10	44.55466	-104.94564	120	Unk	SM 7500-Ra B	Stock well	IML
CSWELL03	3Q10	7/22/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.55466	-104.94564	120	Unk	SM 7500-Ra B	Stock well	IML
CSWELL03	3Q10	7/22/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.55466	-104.94564	120	Unk	Ra-05	Stock well	IML
CSWELL03	3Q10	7/22/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.55466	-104.94564	120	Unk	ACW10	Stock well	IML
CSWELL03	3Q10	7/22/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.55466	-104.94564	120	Unk	ACW10	Stock well	IML
CSWELL03	3Q10	7/22/10	U, D	0.001	mg/l	0.001		3.E-07	7.E-10	44.55466	-104.94564	120	Unk	EPA 200.8	Stock well	IML
CSWELL03	3Q10	7/22/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.55466	-104.94564	120	Unk	EPA 200.8	Stock well	IML
CSWELL03	4Q09	10/23/09	Gross Alpha	<2	pCi/l	2.000		NA	NA	44.55466	-104.94564	120	Unk	SM 7110B	Stock well	IML
CSWELL03	4Q09	10/23/09	Gross Beta	8.5	pCi/l	3.000	1.400	NA	NA	44.55466	-104.94564	120	Unk	SM 7110B	Stock well	IML
CSWELL03	4Q09	10/23/09	Ra-226, D	0.4	pCi/l	0.200	0.090	6.E-08	4.E-10	44.55466	-104.94564	120	Unk	SM 7500-Ra B	Stock well	IML
CSWELL03	4Q09	10/23/09	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.55466	-104.94564	120	Unk	Ra-05	Stock well	IML
CSWELL03	4Q09	10/23/09	U, D	0.001	mg/l	0.001		3.E-07	7.E-10	44.55466	-104.94564	120	Unk	EPA 200.8	Stock well	IML
CSWELL03	4Q10	10/4/10	Gross Alpha	3.5	pCi/l	2.000	0.800	NA	NA	44.55466	-104.94564	120	Unk	SM 7110B	Stock well	IML
CSWELL03	4Q10	10/4/10	Gross Beta	8.8	pCi/l	3.000	1.100	NA	NA	44.55466	-104.94564	120	Unk	SM 7110B	Stock well	IML
CSWELL03	4Q10	10/4/10	Ra-226, D	0.4	pCi/l	0.200	0.100	6.E-08	4.E-10	44.55466	-104.94564	120	Unk	SM 7500-Ra B	Stock well	IML
CSWELL03	4Q10	10/4/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.55466	-104.94564	120	Unk	Ra-05	Stock well	IML
CSWELL03	4Q10	10/4/10	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.55466	-104.94564	120	Unk	EPA 200.8	Stock well	IML
DWWELL01	1Q10	1/22/10	Gross Alpha	14.9	pCi/l	2.800	5.900	NA	NA	44.58007	-104.93779	Unk	Unk	SM 7110B	Domestic	IML

Ross ISR Project

18

TR Addendum 2.9-C

Existing Water Supply Well Data
Groundwater Wells

Well ID	Quarter	Sample Date	Analyte*	Value	Units	Detect Limit	Error	10 CFR 20 MPC (µCi/ml)	Value in µCi/ml	Latitude	Longitude	Well Depth (feet)	Depth to Water (feet)	Method	Well Type	Contract Laboratory
HBWELL03	2Q10	5/14/10	Pb-210, S	1.21	pCi/l	1.000	0.650	1.E-08	1.E-09	44.60206	-104.94049	160	Unk	OTW01	Stock well	IML
HBWELL03	2Q10	5/14/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.60206	-104.94049	160	Unk	OTW01	Stock well	IML
HBWELL03	2Q10	5/14/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.60206	-104.94049	160	Unk	OTW01	Stock well	IML
HBWELL03	2Q10	5/14/10	Ra-226, D	1.03	pCi/l	0.200	0.130	6.E-08	1.E-09	44.60206	-104.94049	160	Unk	SM 7500-Ra B	Stock well	IML
HBWELL03	2Q10	5/14/10	Ra-226, S	0.32	pCi/l	0.200	0.080	6.E-08	3.E-10	44.60206	-104.94049	160	Unk	SM 7500-Ra B	Stock well	IML
HBWELL03	2Q10	5/14/10	Ra-228, D	1.2	pCi/l	1.000	0.790	6.E-08	1.E-09	44.60206	-104.94049	160	Unk	Ra-05	Stock well	IML
HBWELL03	2Q10	5/14/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.60206	-104.94049	160	Unk	ACW10	Stock well	IML
HBWELL03	2Q10	5/14/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.60206	-104.94049	160	Unk	ACW10	Stock well	IML
HBWELL03	2Q10	5/14/10	U, D	0.006	mg/l	0.001		3.E-07	4.E-09	44.60206	-104.94049	160	Unk	EPA 200.8	Stock well	IML
HBWELL03	2Q10	5/14/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.60206	-104.94049	160	Unk	EPA 200.8	Stock well	IML
HBWELL03	3Q09	8/3/09	Gross Alpha	8.8	pCi/l	2.000	2.500	NA	NA	44.60206	-104.94049	160	Unk	SM 7110B	Stock well	IML
HBWELL03	3Q09	8/3/09	Gross Beta	9.3	pCi/l	4.000	3.700	NA	NA	44.60206	-104.94049	160	Unk	SM 7110B	Stock well	IML
HBWELL03	3Q09	8/3/09	Ra-226, D	0.87	pCi/l	0.200	0.290	6.E-08	9.E-10	44.60206	-104.94049	160	Unk	SM 7500-Ra B	Stock well	IML
HBWELL03	3Q09	8/3/09	Ra-228, D	1.2	pCi/l	1.000	0.380	6.E-08	1.E-09	44.60206	-104.94049	160	Unk	Ra-05	Stock well	IML
HBWELL03	3Q09	8/3/09	U, D	0.006	mg/l	0.001		3.E-07	4.E-09	44.60206	-104.94049	160	Unk	EPA 200.8	Stock well	IML
HBWELL03	3Q10	7/21/10	Gross Alpha	8.73	pCi/l	3.200	2.640	NA	NA	44.60206	-104.94049	160	Unk	SM 7110B	Stock well	IML
HBWELL03	3Q10	7/21/10	Gross Beta	17.3	pCi/l	6.800	3.800	NA	NA	44.60206	-104.94049	160	Unk	SM 7110B	Stock well	IML
HBWELL03	3Q10	7/21/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.60206	-104.94049	160	Unk	OTW01	Stock well	IML
HBWELL03	3Q10	7/21/10	Pb-210, S	<1	pCi/l	1.000		1.E-08	NA	44.60206	-104.94049	160	Unk	OTW01	Stock well	IML
HBWELL03	3Q10	7/21/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.60206	-104.94049	160	Unk	OTW01	Stock well	IML
HBWELL03	3Q10	7/21/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.60206	-104.94049	160	Unk	OTW01	Stock well	IML
HBWELL03	3Q10	7/21/10	Ra-226, D	0.77	pCi/l	0.200	0.100	6.E-08	8.E-10	44.60206	-104.94049	160	Unk	SM 7500-Ra B	Stock well	IML
HBWELL03	3Q10	7/21/10	Ra-226, S	0.5	pCi/l	0.200	0.100	6.E-08	5.E-10	44.60206	-104.94049	160	Unk	SM 7500-Ra B	Stock well	IML
HBWELL03	3Q10	7/21/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.60206	-104.94049	160	Unk	Ra-05	Stock well	IML
HBWELL03	3Q10	7/21/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.60206	-104.94049	160	Unk	ACW10	Stock well	IML
HBWELL03	3Q10	7/21/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.60206	-104.94049	160	Unk	ACW10	Stock well	IML
HBWELL03	3Q10	7/21/10	U, D	0.004	mg/l	0.001		3.E-07	3.E-09	44.60206	-104.94049	160	Unk	EPA 200.8	Stock well	IML
HBWELL03	3Q10	7/21/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.60206	-104.94049	160	Unk	EPA 200.8	Stock well	IML
HBWELL03	4Q10	10/4/10	Gross Alpha	10.1	pCi/l	2.000	2.900	NA	NA	44.60206	-104.94049	160	Unk	SM 7110B	Stock well	IML
HBWELL03	4Q10	10/4/10	Gross Beta	15.4	pCi/l	3.000	3.800	NA	NA	44.60206	-104.94049	160	Unk	SM 7110B	Stock well	IML
HBWELL03	4Q10	10/4/10	Ra-226, D	0.8	pCi/l	0.200	0.100	6.E-08	8.E-10	44.60206	-104.94049	160	Unk	SM 7500-Ra B	Stock well	IML
HBWELL03	4Q10	10/4/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.60206	-104.94049	160	Unk	Ra-05	Stock well	IML
HBWELL03	4Q10	10/4/10	U, D	0.002	mg/l	0.001		3.E-07	1.E-09	44.60206	-104.94049	160	Unk	EPA 200.8	Stock well	IML
HBWELL04	1Q10	1/29/10	Gross Alpha	15.2	pCi/l	2.000	3.600	NA	NA	44.59848	-104.93536	100	Unk	SM 7110B	Stock well	IML
HBWELL04	1Q10	1/29/10	Gross Beta	9.1	pCi/l	3.000	2.700	NA	NA	44.59848	-104.93536	100	Unk	SM 7110B	Stock well	IML
HBWELL04	1Q10	1/29/10	Ra-226, D	0.31	pCi/l	0.200	0.080	6.E-08	3.E-10	44.59848	-104.93536	100	Unk	SM 7500-Ra B	Stock well	IML
HBWELL04	1Q10	1/29/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.59848	-104.93536	100	Unk	Ra-05	Stock well	IML
HBWELL04	1Q10	1/29/10	Rn-222	1600	pCi/l	31.000	98.000	FALSE	2.E-06	44.59848	-104.93536	100	Unk	SM7500-RN	Stock well	IML
HBWELL04	1Q10	1/29/10	U, D	0.033	mg/l	0.001		3.E-07	2.E-08	44.59848	-104.93536	100	Unk	EPA 200.8	Stock well	IML
HBWELL04	2Q10	5/13/10	Gross Alpha	12.1	pCi/l	2.000	2.300	NA	NA	44.59848	-104.93536	100	Unk	SM 7110B	Stock well	IML
HBWELL04	2Q10	5/13/10	Gross Beta	11	pCi/l	3.000	2.100	NA	NA	44.59848	-104.93536	100	Unk	SM 7110B	Stock well	IML
HBWELL04	2Q10	5/13/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.59848	-104.93536	100	Unk	OTW01	Stock well	IML
HBWELL04	2Q10	5/13/10	Pb-210, S	1.8	pCi/l	1.000	0.590	1.E-08	2.E-09	44.59848	-104.93536	100	Unk	OTW01	Stock well	IML
HBWELL04	2Q10	5/13/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.59848	-104.93536	100	Unk	OTW01	Stock well	IML
HBWELL04	2Q10	5/13/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.59848	-104.93536	100	Unk	OTW01	Stock well	IML
HBWELL04	2Q10	5/13/10	Ra-226, D	0.31	pCi/l	0.200	0.080	6.E-08	3.E-10	44.59848	-104.93536	100	Unk	SM 7500-Ra B	Stock well	IML
HBWELL04	2Q10	5/13/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.59848	-104.93536	100	Unk	SM 7500-Ra B	Stock well	IML
HBWELL04	2Q10	5/13/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.59848	-104.93536	100	Unk	Ra-05	Stock well	IML
HBWELL04	2Q10	5/13/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.59848	-104.93536	100	Unk	ACW10	Stock well	IML
HBWELL04	2Q10	5/13/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.59848	-104.93536	100	Unk	ACW10	Stock well	IML
HBWELL04	2Q10	5/13/10	U, D	0.034	mg/l	0.001		3.E-07	2.E-08	44.59848	-104.93536	100	Unk	EPA 200.8	Stock well	IML
HBWELL04	2Q10	5/13/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.59848	-104.93536	100	Unk	EPA 200.8	Stock well	IML
HBWELL04	3Q09	8/3/09	Gross Alpha	20.7	pCi/l	2.000	3.500	NA	NA	44.59848	-104.93536	100	Unk	SM 7110B	Stock well	IML
HBWELL04	3Q09	9/1/09	Gross Alpha	16.1	pCi/l	2.000	3.400	NA	NA	44.59848	-104.93536	100	Unk	SM 7110B	Stock well	IML
HBWELL04	3Q09	8/3/09	Gross Beta	7.9	pCi/l	4.000	3.700	NA	NA	44.59848	-104.93536	100	Unk	SM 7110B	Stock well	IML
HBWELL04	3Q09	9/1/09	Gross Beta	11.2	pCi/l	3.000	3.900	NA	NA	44.59848	-104.93536	100	Unk	SM 7110B	Stock well	IML
HBWELL04	3Q09	8/3/09	Ra-226, D	0.28	pCi/l	0.200	0.220	6.E-08	3.E-10	44.59848	-104.93536	100	Unk	SM 7500-Ra B	Stock well	IML
HBWELL04	3Q09	9/1/09	Ra-226, D	0.45	pCi/l	0.200	0.270	6.E-08	5.E-10	44.59848	-104.93536	100	Unk	SM 7500-Ra B	Stock well	IML

Ross ISR Project

20

TR Addendum 2.9-C

Existing Water Supply Well Data
Groundwater Wells

Well ID	Quarter	Sample Date	Analyte*	Value	Units	Detect Limit	Error	10 CFR 20 (µCi/ml)	Value in µCi/ml	Latitude	Longitude	Well Depth (feet)	Depth to Water (feet)	Method	Well Type	Contract Laboratory
HBWELL04	3Q09	8/3/09	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.59848	-104.93536	100	Unk	Ra-05	Stock well	IML
HBWELL04	3Q09	9/1/09	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.59848	-104.93536	100	Unk	Ra-05	Stock well	IML
HBWELL04	3Q09	8/3/09	U, D	0.034	mg/l	0.001		3.E-07	2.E-08	44.59848	-104.93536	100	Unk	EPA 200.8	Stock well	IML
HBWELL04	3Q09	9/1/09	U, D	0.039	mg/l	0.001		3.E-07	3.E-08	44.59848	-104.93536	100	Unk	EPA 200.8	Stock well	IML
HBWELL04	3Q10	7/21/10	Gross Alpha	23	pCi/l	3.100	3.700	NA	NA	44.59848	-104.93536	100	Unk	SM 7110B	Stock well	IML
HBWELL04	3Q10	7/21/10	Gross Beta	17.4	pCi/l	7.000	3.900	NA	NA	44.59848	-104.93536	100	Unk	SM 7110B	Stock well	IML
HBWELL04	3Q10	7/21/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.59848	-104.93536	100	Unk	OTW01	Stock well	IML
HBWELL04	3Q10	7/21/10	Pb-210, S	<1	pCi/l	1.000		1.E-08	NA	44.59848	-104.93536	100	Unk	OTW01	Stock well	IML
HBWELL04	3Q10	7/21/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.59848	-104.93536	100	Unk	OTW01	Stock well	IML
HBWELL04	3Q10	7/21/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.59848	-104.93536	100	Unk	OTW01	Stock well	IML
HBWELL04	3Q10	7/21/10	Ra-226, D	0.52	pCi/l	0.200	0.090	6.E-08	5.E-10	44.59848	-104.93536	100	Unk	SM 7500-Ra B	Stock well	IML
HBWELL04	3Q10	7/21/10	Ra-226, S	0.59	pCi/l	0.200	0.100	6.E-08	6.E-10	44.59848	-104.93536	100	Unk	SM 7500-Ra B	Stock well	IML
HBWELL04	3Q10	7/21/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.59848	-104.93536	100	Unk	Ra-05	Stock well	IML
HBWELL04	3Q10	7/21/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.59848	-104.93536	100	Unk	ACW10	Stock well	IML
HBWELL04	3Q10	7/21/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.59848	-104.93536	100	Unk	ACW10	Stock well	IML
HBWELL04	3Q10	7/21/10	U, D	0.033	mg/l	0.001		3.E-07	2.E-08	44.59848	-104.93536	100	Unk	EPA 200.8	Stock well	IML
HBWELL04	3Q10	7/21/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.59848	-104.93536	100	Unk	EPA 200.8	Stock well	IML
HBWELL05	1Q10	1/29/10	Gross Alpha	11.8	pCi/l	2.000	3.200	NA	NA	44.58396	-104.93547	150	Unk	SM 7110B	Stock well	IML
HBWELL05	1Q10	1/29/10	Gross Beta	10	pCi/l	3.000	2.500	NA	NA	44.58396	-104.93547	150	Unk	SM 7110B	Stock well	IML
HBWELL05	1Q10	1/29/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.58396	-104.93547	150	Unk	SM 7500-Ra B	Stock well	IML
HBWELL05	1Q10	1/29/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.58396	-104.93547	150	Unk	Ra-05	Stock well	IML
HBWELL05	1Q10	1/29/10	U, D	0.011	mg/l	0.001		3.E-07	7.E-09	44.58396	-104.93547	150	Unk	EPA 200.8	Stock well	IML
HBWELL05	2Q10	5/13/10	Gross Alpha	7.5	pCi/l	2.000	2.400	NA	NA	44.58396	-104.93547	150	Unk	SM 7110B	Stock well	IML
HBWELL05	2Q10	5/13/10	Gross Beta	6.4	pCi/l	3.000	2.400	NA	NA	44.58396	-104.93547	150	Unk	SM 7110B	Stock well	IML
HBWELL05	2Q10	5/13/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.58396	-104.93547	150	Unk	OTW01	Stock well	IML
HBWELL05	2Q10	5/13/10	Pb-210, S	1.56	pCi/l	1.000	0.590	1.E-08	2.E-09	44.58396	-104.93547	150	Unk	OTW01	Stock well	IML
HBWELL05	2Q10	5/13/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.58396	-104.93547	150	Unk	OTW01	Stock well	IML
HBWELL05	2Q10	5/13/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.58396	-104.93547	150	Unk	OTW01	Stock well	IML
HBWELL05	2Q10	5/13/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.58396	-104.93547	150	Unk	SM 7500-Ra B	Stock well	IML
HBWELL05	2Q10	5/13/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.58396	-104.93547	150	Unk	SM 7500-Ra B	Stock well	IML
HBWELL05	2Q10	5/13/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.58396	-104.93547	150	Unk	Ra-05	Stock well	IML
HBWELL05	2Q10	5/13/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.58396	-104.93547	150	Unk	ACW10	Stock well	IML
HBWELL05	2Q10	5/13/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.58396	-104.93547	150	Unk	ACW10	Stock well	IML
HBWELL05	2Q10	5/13/10	U, D	0.01	mg/l	0.001		3.E-07	7.E-09	44.58396	-104.93547	150	Unk	EPA 200.8	Stock well	IML
HBWELL05	2Q10	5/13/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.58396	-104.93547	150	Unk	EPA 200.8	Stock well	IML
HBWELL05	3Q09	8/4/09	Gross Alpha	7.1	pCi/l	2.000	2.600	NA	NA	44.58396	-104.93547	150	Unk	SM 7110B	Stock well	IML
HBWELL05	3Q09	8/4/09	Gross Beta	7.2	pCi/l	4.000	3.700	NA	NA	44.58396	-104.93547	150	Unk	SM 7110B	Stock well	IML
HBWELL05	3Q09	8/4/09	Ra-226, D	0.2	pCi/l	0.200	0.230	6.E-08	2.E-10	44.58396	-104.93547	150	Unk	SM 7500-Ra B	Stock well	IML
HBWELL05	3Q09	8/4/09	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.58396	-104.93547	150	Unk	Ra-05	Stock well	IML
HBWELL05	3Q09	8/4/09	U, D	0.015	mg/l	0.001		3.E-07	1.E-08	44.58396	-104.93547	150	Unk	EPA 200.8	Stock well	IML
HBWELL05	3Q10	7/22/10	Gross Alpha	11.3	pCi/l	3.200	2.900	NA	NA	44.58396	-104.93547	150	Unk	SM 7110B	Stock well	IML
HBWELL05	3Q10	7/22/10	Gross Beta	8.77	pCi/l	6.900	4.100	NA	NA	44.58396	-104.93547	150	Unk	SM 7110B	Stock well	IML
HBWELL05	3Q10	7/22/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.58396	-104.93547	150	Unk	OTW01	Stock well	IML
HBWELL05	3Q10	7/22/10	Pb-210, S	<1	pCi/l	1.000		1.E-08	NA	44.58396	-104.93547	150	Unk	OTW01	Stock well	IML
HBWELL05	3Q10	7/22/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.58396	-104.93547	150	Unk	OTW01	Stock well	IML
HBWELL05	3Q10	7/22/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.58396	-104.93547	150	Unk	OTW01	Stock well	IML
HBWELL05	3Q10	7/22/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.58396	-104.93547	150	Unk	SM 7500-Ra B	Stock well	IML
HBWELL05	3Q10	7/22/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.58396	-104.93547	150	Unk	SM 7500-Ra B	Stock well	IML
HBWELL05	3Q10	7/22/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.58396	-104.93547	150	Unk	Ra-05	Stock well	IML
HBWELL05	3Q10	7/22/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.58396	-104.93547	150	Unk	ACW10	Stock well	IML
HBWELL05	3Q10	7/22/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.58396	-104.93547	150	Unk	ACW10	Stock well	IML
HBWELL05	3Q10	7/22/10	U, D	0.013	mg/l	0.001		3.E-07	9.E-09	44.58396	-104.93547	150	Unk	EPA 200.8	Stock well	IML
HBWELL05	3Q10	7/22/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.58396	-104.93547	150	Unk	EPA 200.8	Stock well	IML
HBWELL05	4Q10	10/5/10	Gross Alpha	12.7	pCi/l	2.000	3.000	NA	NA	44.58396	-104.93547	150	Unk	SM 7110B	Stock well	IML
HBWELL05	4Q10	10/5/10	Gross Beta	7.2	pCi/l	3.000	3.900	NA	NA	44.58396	-104.93547	150	Unk	SM 7110B	Stock well	IML
HBWELL05	4Q10	10/5/10	Ra-226, D	0.2	pCi/l	0.200	0.100	6.E-08	2.E-10	44.58396	-104.93547	150	Unk	SM 7500-Ra B	Stock well	IML
HBWELL05	4Q10	10/5/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.58396	-104.93547	150	Unk	Ra-05	Stock well	IML
HBWELL05	4Q10	10/5/10	U, D	0.013	mg/l	0.001		3.E-07	9.E-09	44.58396	-104.93547	150	Unk	EPA 200.8	Stock well	IML

Ross ISR Project

21

TR Addendum 2.9-C

Existing Water Supply Well Data
Groundwater Wells

Well ID	Quarter	Sample Date	Analyte*	Value	Units	Detect Limit	Error	10 CFR 20 MPC (µCi/ml)	Value in µCi/ml	Latitude	Longitude	Well Depth (feet)	Depth to Water (feet)	Method	Well Type	Contract Laboratory
HBWELL06	1Q10	3/23/10	Gross Alpha	<2	pCi/l	2.000		NA	NA	44.56927	-104.90194	Unk	Unk	SM 7110B	Unknown	IML
HBWELL06	1Q10	3/23/10	Gross Beta	3.6	pCi/l	3.000	2.000	NA	NA	44.56927	-104.90194	Unk	Unk	SM 7110B	Unknown	IML
HBWELL06	1Q10	3/23/10	Ra-226, D	0.27	pCi/l	0.200	0.100	6.E-08	3.E-10	44.56927	-104.90194	Unk	Unk	SM 7500-Ra B	Unknown	IML
HBWELL06	1Q10	3/23/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.56927	-104.90194	Unk	Unk	Ra-05	Unknown	IML
HBWELL06	1Q10	3/23/10	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.56927	-104.90194	Unk	Unk	EPA 200.8	Unknown	IML
JJWELL01	2Q10	5/21/10	Gross Alpha	5.2	pCi/l	2.000	1.900	NA	NA	44.56927	-104.90194	Unk	Unk	SM 7110B	Domestic	IML
JJWELL01	2Q10	5/21/10	Gross Beta	6.9	pCi/l	3.000	2.500	NA	NA	44.56927	-104.90194	Unk	Unk	SM 7110B	Domestic	IML
JJWELL01	2Q10	5/21/10	Ra-226, D	0.38	pCi/l	0.200	0.100	6.E-08	4.E-10	44.56927	-104.90194	Unk	Unk	SM 7500-Ra B	Domestic	IML
JJWELL01	2Q10	5/21/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.56927	-104.90194	Unk	Unk	Ra-05	Domestic	IML
JJWELL01	2Q10	5/21/10	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.56927	-104.90194	Unk	Unk	EPA 200.8	Domestic	IML
P144030W	3Q10	8/24/10	Gross Alpha	23.9	pCi/l	2.000	2.600	NA	NA	44.55831	-104.9965	401	Unk	SM 7110B	Unknown	IML
P144030W	3Q10	8/24/10	Gross Beta	23.8	pCi/l	3.000	2.200	NA	NA	44.55831	-104.9965	401	Unk	SM 7110B	Unknown	IML
P144030W	3Q10	8/24/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.55831	-104.9965	401	Unk	OTW01	Unknown	IML
P144030W	3Q10	8/24/10	Pb-210, S	<1	pCi/l	1.000		1.E-08	NA	44.55831	-104.9965	401	Unk	OTW01	Unknown	IML
P144030W	3Q10	8/24/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.55831	-104.9965	401	Unk	OTW01	Unknown	IML
P144030W	3Q10	8/24/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.55831	-104.9965	401	Unk	OTW01	Unknown	IML
P144030W	3Q10	8/24/10	Ra-226, D	0.8	pCi/l	0.200	0.200	6.E-08	8.E-10	44.55831	-104.9965	401	Unk	SM 7500-Ra B	Unknown	IML
P144030W	3Q10	8/24/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.55831	-104.9965	401	Unk	SM 7500-Ra B	Unknown	IML
P144030W	3Q10	8/24/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.55831	-104.9965	401	Unk	Ra-05	Unknown	IML
P144030W	3Q10	8/24/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.55831	-104.9965	401	Unk	ACW10	Unknown	IML
P144030W	3Q10	8/24/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.55831	-104.9965	401	Unk	ACW10	Unknown	IML
P144030W	3Q10	8/24/10	U, D	0.024	mg/l	0.001		3.E-07	2.E-08	44.55831	-104.9965	401	Unk	EPA 200.8	Unknown	IML
P144030W	3Q10	8/24/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.55831	-104.9965	401	Unk	EPA 200.8	Unknown	IML
P15508S	4Q10	10/5/10	Gross Alpha	15	pCi/l	2.000	3.500	NA	NA	44.55831	-104.9965	401	Unk	SM 7110B	Unknown	IML
P15508S	4Q10	10/5/10	Gross Beta	20	pCi/l	3.000	3.900	NA	NA	44.55831	-104.9965	401	Unk	SM 7110B	Unknown	IML
P15508S	4Q10	10/5/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.55831	-104.9965	401	Unk	SM 7500-Ra B	Unknown	IML
P15508S	4Q10	10/5/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.55831	-104.9965	401	Unk	Ga-Tech	Unknown	IML
P15508S	4Q10	10/5/10	U, D	0.027	mg/l	0.001		3.E-07	2.E-08	44.55831	-104.9965	401	Unk	EPA 200.8	Unknown	IML
P17177W	3Q09	8/27/09	Gross Alpha	19.5	pCi/l	2.000	3.300	NA	NA	44.61273	-104.97637	180	Unk	SM 7110B	Stock well	IML
P17177W	3Q09	8/27/09	Gross Beta	6.4	pCi/l	3.000	2.400	NA	NA	44.61273	-104.97637	180	Unk	SM 7110B	Stock well	IML
P17177W	3Q09	8/27/09	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.61273	-104.97637	180	Unk	SM 7500-Ra B	Stock well	IML
P17177W	3Q09	8/27/09	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.61273	-104.97637	180	Unk	Ra-05	Stock well	IML
P17177W	3Q09	8/27/09	U, D	0.024	mg/l	0.001		3.E-07	2.E-08	44.61273	-104.97637	180	Unk	EPA 200.8	Stock well	IML
P17177W	3Q10	8/11/10	Gross Alpha	16.8	pCi/l	2.000	2.200	NA	NA	44.61273	-104.97637	180	Unk	SM 7110B	Stock well	IML
P17177W	3Q10	8/11/10	Gross Beta	8.6	pCi/l	3.300	2.060	NA	NA	44.61273	-104.97637	180	Unk	SM 7110B	Stock well	IML
P17177W	3Q10	8/11/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.61273	-104.97637	180	Unk	OTW01	Stock well	IML
P17177W	3Q10	8/11/10	Pb-210, S	<1	pCi/l	1.000		1.E-08	NA	44.61273	-104.97637	180	Unk	OTW01	Stock well	IML
P17177W	3Q10	8/11/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.61273	-104.97637	180	Unk	OTW01	Stock well	IML
P17177W	3Q10	8/11/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.61273	-104.97637	180	Unk	OTW01	Stock well	IML
P17177W	3Q10	8/11/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.61273	-104.97637	180	Unk	SM 7500-Ra B	Stock well	IML
P17177W	3Q10	8/11/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.61273	-104.97637	180	Unk	SM 7500-Ra B	Stock well	IML
P17177W	3Q10	8/11/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.61273	-104.97637	180	Unk	Ra-05	Stock well	IML
P17177W	3Q10	8/11/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.61273	-104.97637	180	Unk	ACW10	Stock well	IML
P17177W	3Q10	8/11/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.61273	-104.97637	180	Unk	ACW10	Stock well	IML
P17177W	3Q10	8/11/10	U, D	0.022	mg/l	0.001		3.E-07	1.E-08	44.61273	-104.97637	180	Unk	EPA 200.8	Stock well	IML
P17177W	3Q10	8/11/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.61273	-104.97637	180	Unk	EPA 200.8	Stock well	IML
P17177W	4Q09	11/18/09	Gross Alpha	12.1	pCi/l	2.000	2.000	NA	NA	44.61273	-104.97637	180	Unk	SM 7110B	Stock well	IML
P17177W	4Q09	11/18/09	Gross Beta	7.3	pCi/l	3.000	2.000	NA	NA	44.61273	-104.97637	180	Unk	SM 7110B	Stock well	IML
P17177W	4Q09	11/18/09	U, D	0.024	mg/l	0.001		3.E-07	2.E-08	44.61273	-104.97637	180	Unk	EPA 200.8	Stock well	IML
P17177W	4Q10	10/6/10	Gross Alpha	15.7	pCi/l	2.000	2.200	NA	NA	44.61273	-104.97637	180	Unk	SM 7110B	Stock well	IML
P17177W	4Q10	10/6/10	Gross Beta	9.8	pCi/l	3.000	1.900	NA	NA	44.61273	-104.97637	180	Unk	SM 7110B	Stock well	IML
P17177W	4Q10	10/6/10	Ra-226, D	0.3	pCi/l	0.200	0.100	6.E-08	3.E-10	44.61273	-104.97637	180	Unk	SM 7500-Ra B	Stock well	IML
P17177W	4Q10	10/6/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.61273	-104.97637	180	Unk	Ra-05	Stock well	IML
P17177W	4Q10	10/6/10	U, D	0.022	mg/l	0.001		3.E-07	1.E-08	44.61273	-104.97637	180	Unk	EPA 200.8	Stock well	IML
P21129P	2Q10	6/24/10	Gross Alpha	239	pCi/l	2.000	11.000	NA	NA	44.55833	-104.98117	200	Unk	SM 7110B	Unknown	IML
P21129P	2Q10	6/24/10	Gross Beta	123.2	pCi/l	3.600	5.300	NA	NA	44.55833	-104.98117	200	Unk	SM 7110B	Unknown	IML
P21129P	2Q10	6/24/10	Pb-210, D	1.76	pCi/l	1.000	0.580	1.E-08	2.E-09	44.55833	-104.98117	200	Unk	OTW01	Unknown	IML
P21129P	2Q10	6/24/10	Pb-210, S	1.26	pCi/l	1.000	0.520	1.E-08	1.E-09	44.55833	-104.98117	200	Unk	OTW01	Unknown	IML

Ross ISR Project

22

TR Addendum 2.9-C

Existing Water Supply Well Data
Groundwater Wells

Well ID	Quarter	Sample Date	Analyte*	Value	Units	Detect Limit	Error	10 CFR 20 MPC (µCi/ml)	Value in µCi/ml	Latitude	Longitude	Well Depth (feet)	Depth to Water (feet)	Method	Well Type	Contract Laboratory
P21129P	2Q10	6/24/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.55833	-104.98117	200	Unk	OTW01	Unknown	IML
P21129P	2Q10	6/24/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.55833	-104.98117	200	Unk	OTW01	Unknown	IML
P21129P	2Q10	6/24/10	Ra-226, D	0.21	pCi/l	0.200	0.090	6.E-08	2.E-10	44.55833	-104.98117	200	Unk	SM 7500-Ra B	Unknown	IML
P21129P	2Q10	6/24/10	Ra-226, S	0.91	pCi/l	0.200	0.150	6.E-08	9.E-10	44.55833	-104.98117	200	Unk	SM 7500-Ra B	Unknown	IML
P21129P	2Q10	6/24/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.55833	-104.98117	200	Unk	Ra-05	Unknown	IML
P21129P	2Q10	6/24/10	Th-230, D	<0.58	pCi/l	0.580		1.E-07	NA	44.55833	-104.98117	200	Unk	ACW10	Unknown	IML
P21129P	2Q10	6/24/10	Th-230, S	0.49	pCi/l	0.200	0.160	1.E-07	5.E-10	44.55833	-104.98117	200	Unk	ACW10	Unknown	IML
P21129P	2Q10	6/24/10	U, D	0.388	mg/l	0.001		3.E-07	3.E-07	44.55833	-104.98117	200	Unk	EPA 200.8	Unknown	IML
P21129P	2Q10	6/24/10	U, S	0.004	mg/l	0.001		3.E-07	3.E-09	44.55833	-104.98117	200	Unk	EPA 200.8	Unknown	IML
P21129P	3Q10	8/24/10	Gross Alpha	178	pCi/l	2.000	7.600	NA	NA	44.55833	-104.98117	200	Unk	SM 7110B	Unknown	IML
P21129P	3Q10	8/24/10	Gross Beta	128	pCi/l	3.000	3.800	NA	NA	44.55833	-104.98117	200	Unk	SM 7110B	Unknown	IML
P21129P	3Q10	8/24/10	Pb-210, D	17.4	pCi/l	1.000	1.600	1.E-08	2.E-08	44.55833	-104.98117	200	Unk	OTW01	Unknown	IML
P21129P	3Q10	8/24/10	Pb-210, S	1.8	pCi/l	1.000	0.600	1.E-08	2.E-09	44.55833	-104.98117	200	Unk	OTW01	Unknown	IML
P21129P	3Q10	8/24/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.55833	-104.98117	200	Unk	OTW01	Unknown	IML
P21129P	3Q10	8/24/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.55833	-104.98117	200	Unk	OTW01	Unknown	IML
P21129P	3Q10	8/24/10	Ra-226, D	0.3	pCi/l	0.200	0.100	6.E-08	3.E-10	44.55833	-104.98117	200	Unk	SM 7500-Ra B	Unknown	IML
P21129P	3Q10	8/24/10	Ra-226, S	0.7	pCi/l	0.200	0.100	6.E-08	7.E-10	44.55833	-104.98117	200	Unk	SM 7500-Ra B	Unknown	IML
P21129P	3Q10	8/24/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.55833	-104.98117	200	Unk	Ra-05	Unknown	IML
P21129P	3Q10	8/24/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.55833	-104.98117	200	Unk	ACW10	Unknown	IML
P21129P	3Q10	8/24/10	Th-230, S	0.209	pCi/l	0.200	0.042	1.E-07	2.E-10	44.55833	-104.98117	200	Unk	ACW10	Unknown	IML
P21129P	3Q10	8/24/10	U, D	0.271	mg/l	0.001		3.E-07	2.E-07	44.55833	-104.98117	200	Unk	EPA 200.8	Unknown	IML
P21129P	3Q10	8/24/10	U, S	0.002	mg/l	0.001		3.E-07	1.E-09	44.55833	-104.98117	200	Unk	EPA 200.8	Unknown	IML
P21129P	4Q10	10/7/10	Gross Alpha	224	pCi/l	2.000	7.500	NA	NA	44.55833	-104.98117	200	Unk	SM 7110B	Unknown	IML
P21129P	4Q10	10/7/10	Gross Beta	67.9	pCi/l	3.000	3.000	NA	NA	44.55833	-104.98117	200	Unk	SM 7110B	Unknown	IML
P21129P	4Q10	10/7/10	Ra-226, D	0.3	pCi/l	0.200	0.100	6.E-08	3.E-10	44.55833	-104.98117	200	Unk	SM 7500-Ra B	Unknown	IML
P21129P	4Q10	10/7/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.55833	-104.98117	200	Unk	Ga-Tech	Unknown	IML
P21129P	4Q10	10/7/10	U, D	0.375	mg/l	0.001		3.E-07	3.E-07	44.55833	-104.98117	200	Unk	EPA 200.8	Unknown	IML
P31770W	1Q10	1/22/10	Gross Alpha	35.8	pCi/l	2.700	7.500	NA	NA	44.52217	-104.95931	600	Unk	SM 7110B	Domestic	IML
P31770W	1Q10	1/22/10	Gross Beta	14.4	pCi/l	9.760	8.900	NA	NA	44.52217	-104.95931	600	Unk	SM 7110B	Domestic	IML
P31770W	1Q10	1/22/10	Ra-226, D	0.43	pCi/l	0.200	0.100	6.E-08	4.E-10	44.52217	-104.95931	600	Unk	SM 7500-Ra B	Domestic	IML
P31770W	1Q10	1/22/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.52217	-104.95931	600	Unk	Ra-05	Domestic	IML
P31770W	1Q10	1/22/10	Rn-222	390	pCi/l	27.000	55.000	FALSE	4.E-07	44.52217	-104.95931	600	Unk	SM7500-RN	Domestic	IML
P31770W	1Q10	1/22/10	U, D	0.071	mg/l	0.001		3.E-07	5.E-08	44.52217	-104.95931	600	Unk	EPA 200.8	Domestic	IML
P31770W	3Q09	9/3/09	Gross Alpha	7.8	pCi/l	2.000	3.200	NA	NA	44.52217	-104.95931	600	Unk	SM 7110B	Domestic	IML
P31770W	3Q09	9/3/09	Gross Beta	12.9	pCi/l	3.900	3.700	NA	NA	44.52217	-104.95931	600	Unk	SM 7110B	Domestic	IML
P31770W	3Q09	9/3/09	Ra-226, D	0.32	pCi/l	0.200	0.230	6.E-08	3.E-10	44.52217	-104.95931	600	Unk	SM 7500-Ra B	Domestic	IML
P31770W	3Q09	9/3/09	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.52217	-104.95931	600	Unk	Ra-05	Domestic	IML
P31770W	3Q09	9/3/09	U, D	0.017	mg/l	0.001		3.E-07	1.E-08	44.52217	-104.95931	600	Unk	EPA 200.8	Domestic	IML
P31770W	4Q09	11/18/09	Gross Alpha	36.8	pCi/l	2.000	4.900	NA	NA	44.52217	-104.95931	600	Unk	SM 7110B	Domestic	IML
P31770W	4Q09	11/18/09	Gross Beta	17.1	pCi/l	3.000	3.900	NA	NA	44.52217	-104.95931	600	Unk	SM 7110B	Domestic	IML
P31770W	4Q09	11/18/09	U, D	0.015	mg/l	0.001		3.E-07	1.E-08	44.52217	-104.95931	600	Unk	EPA 200.8	Domestic	IML
P42868W	3Q09	8/31/09	Gross Alpha	<2	pCi/l	2.000		NA	NA	44.57643	-104.99156	243	Unk	SM 7110B	Unknown	IML
P42868W	3Q09	8/31/09	Gross Beta	<3	pCi/l	3.000		NA	NA	44.57643	-104.99156	243	Unk	SM 7110B	Unknown	IML
P42868W	3Q09	8/31/09	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.57643	-104.99156	243	Unk	SM 7500-Ra B	Unknown	IML
P42868W	3Q09	8/31/09	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.57643	-104.99156	243	Unk	Ra-05	Unknown	IML
P42868W	3Q09	8/31/09	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.57643	-104.99156	243	Unk	EPA 200.8	Unknown	IML
P50113W	3Q09	8/28/09	Gross Alpha	87.3	pCi/l	2.000	6.700	NA	NA	44.60901	-104.99151	40	Unk	SM 7110B	Stock well	IML
P50113W	3Q09	8/28/09	Gross Beta	40.7	pCi/l	4.000	4.400	NA	NA	44.60901	-104.99151	40	Unk	SM 7110B	Stock well	IML
P50113W	3Q09	8/28/09	Ra-226, D	0.6	pCi/l	0.200	0.240	6.E-08	6.E-10	44.60901	-104.99151	40	Unk	SM 7500-Ra B	Stock well	IML
P50113W	3Q09	8/28/09	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.60901	-104.99151	40	Unk	Ra-05	Stock well	IML
P50113W	3Q09	8/28/09	U, D	0.212	mg/l	0.001		3.E-07	1.E-07	44.60901	-104.99151	40	Unk	EPA 200.8	Stock well	IML
P50113W	3Q10	8/11/10	Gross Alpha	78.6	pCi/l	2.000	6.500	NA	NA	44.60901	-104.99151	40	Unk	SM 7110B	Stock well	IML
P50113W	3Q10	8/11/10	Gross Beta	40.1	pCi/l	3.000	4.300	NA	NA	44.60901	-104.99151	40	Unk	SM 7110B	Stock well	IML
P50113W	3Q10	8/11/10	Pb-210, D	2.1	pCi/l	1.000	0.500	1.E-08	2.E-09	44.60901	-104.99151	40	Unk	OTW01	Stock well	IML
P50113W	3Q10	8/11/10	Pb-210, S	<1	pCi/l	1.000		1.E-08	NA	44.60901	-104.99151	40	Unk	OTW01	Stock well	IML
P50113W	3Q10	8/11/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.60901	-104.99151	40	Unk	OTW01	Stock well	IML
P50113W	3Q10	8/11/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.60901	-104.99151	40	Unk	OTW01	Stock well	IML
P50113W	3Q10	8/11/10	Ra-226, D	0.5	pCi/l	0.200	0.100	6.E-08	5.E-10	44.60901	-104.99151	40	Unk	SM 7500-Ra B	Stock well	IML

Ross ISR Project

23

TR Addendum 2.9-C

Existing Water Supply Well Data
Groundwater Wells

Well ID	Quarter	Sample Date	Analyte*	Value	Units	Detect Limit	Error	10 CFR 20 MPC (µCi/ml)	Value in µCi/ml	Latitude	Longitude	Well Depth (feet)	Depth to Water (feet)	Method	Well Type	Contract Laboratory
P50113W	3Q10	8/11/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.60901	-104.99151	40	Unk	SM 7500-Ra B	Stock well	IML
P50113W	3Q10	8/11/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.60901	-104.99151	40	Unk	Ra-05	Stock well	IML
P50113W	3Q10	8/11/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.60901	-104.99151	40	Unk	ACW10	Stock well	IML
P50113W	3Q10	8/11/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.60901	-104.99151	40	Unk	ACW10	Stock well	IML
P50113W	3Q10	8/11/10	U, D	0.173	mg/l	0.001		3.E-07	1.E-07	44.60901	-104.99151	40	Unk	EPA 200.8	Stock well	IML
P50113W	3Q10	8/11/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.60901	-104.99151	40	Unk	EPA 200.8	Stock well	IML
P50113W	4Q09	11/18/09	Gross Alpha	90.4	pCi/l	2.000	6.800	NA	NA	44.60901	-104.99151	40	Unk	SM 7110B	Stock well	IML
P50113W	4Q09	11/18/09	Gross Beta	37.3	pCi/l	3.000	4.400	NA	NA	44.60901	-104.99151	40	Unk	SM 7110B	Stock well	IML
P50113W	4Q09	11/18/09	U, D	0.21	mg/l	0.001		3.E-07	1.E-07	44.60901	-104.99151	40	Unk	EPA 200.8	Stock well	IML
P50113W	4Q10	10/6/10	Gross Alpha	100	pCi/l	2.000	7.200	NA	NA	44.60901	-104.99151	40	Unk	SM 7110B	Stock well	IML
P50113W	4Q10	10/6/10	Gross Beta	38.1	pCi/l	3.000	4.300	NA	NA	44.60901	-104.99151	40	Unk	SM 7110B	Stock well	IML
P50113W	4Q10	10/6/10	Ra-226, D	0.2	pCi/l	0.200	0.100	6.E-08	2.E-10	44.60901	-104.99151	40	Unk	SM 7500-Ra B	Stock well	IML
P50113W	4Q10	10/6/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.60901	-104.99151	40	Unk	Ra-05	Stock well	IML
P50113W	4Q10	10/6/10	U, D	0.189	mg/l	0.001		3.E-07	1.E-07	44.60901	-104.99151	40	Unk	EPA 200.8	Stock well	IML
P50883W	3Q10	8/24/10	Gross Alpha	15.4	pCi/l	2.000	1.500	NA	NA	44.56919	-104.97118	150	Unk	SM 7110B	Stock well	IML
P50883W	3Q10	8/24/10	Gross Beta	10.1	pCi/l	3.000	1.100	NA	NA	44.56919	-104.97118	150	Unk	SM 7110B	Stock well	IML
P50883W	3Q10	8/24/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.56919	-104.97118	150	Unk	OTW01	Stock well	IML
P50883W	3Q10	8/24/10	Pb-210, S	<1	pCi/l	1.000		1.E-08	NA	44.56919	-104.97118	150	Unk	OTW01	Stock well	IML
P50883W	3Q10	8/24/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.56919	-104.97118	150	Unk	OTW01	Stock well	IML
P50883W	3Q10	8/24/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.56919	-104.97118	150	Unk	OTW01	Stock well	IML
P50883W	3Q10	8/24/10	Ra-226, D	7.7	pCi/l	0.200	0.500	6.E-08	8.E-09	44.56919	-104.97118	150	Unk	SM 7500-Ra B	Stock well	IML
P50883W	3Q10	8/24/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.56919	-104.97118	150	Unk	SM 7500-Ra B	Stock well	IML
P50883W	3Q10	8/24/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.56919	-104.97118	150	Unk	Ra-05	Stock well	IML
P50883W	3Q10	8/24/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.56919	-104.97118	150	Unk	ACW10	Stock well	IML
P50883W	3Q10	8/24/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.56919	-104.97118	150	Unk	ACW10	Stock well	IML
P50883W	3Q10	8/24/10	U, D	0.025	mg/l	0.001		3.E-07	2.E-08	44.56919	-104.97118	150	Unk	EPA 200.8	Stock well	IML
P50883W	3Q10	8/24/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.56919	-104.97118	150	Unk	EPA 200.8	Stock well	IML
P50883W	4Q10	10/7/10	Gross Alpha	16.9	pCi/l	2.000	1.700	NA	NA	44.56919	-104.97118	150	Unk	SM 7110B	Stock well	IML
P50883W	4Q10	10/7/10	Gross Beta	6.4	pCi/l	3.000	1.000	NA	NA	44.56919	-104.97118	150	Unk	SM 7110B	Stock well	IML
P50883W	4Q10	10/7/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.56919	-104.97118	150	Unk	SM 7500-Ra B	Stock well	IML
P50883W	4Q10	10/7/10	Ra-228, D	1.27	pCi/l	1.000	1.200	6.E-08	1.E-09	44.56919	-104.97118	150	Unk	Ga-Tech	Stock well	IML
P50883W	4Q10	10/7/10	U, D	0.028	mg/l	0.001		3.E-07	2.E-08	44.56919	-104.97118	150	Unk	EPA 200.8	Stock well	IML
P61006W	3Q09	8/31/09	Gross Alpha	4.8	pCi/l	2.000	1.400	NA	NA	44.57623	-105.02204	335	Unk	SM 7110B	Stock well	IML
P61006W	3Q09	8/31/09	Gross Beta	3.6	pCi/l	3.000	1.900	NA	NA	44.57623	-105.02204	335	Unk	SM 7110B	Stock well	IML
P61006W	3Q09	8/31/09	Ra-226, D	1.13	pCi/l	0.200	0.320	6.E-08	1.E-09	44.57623	-105.02204	335	Unk	SM 7500-Ra B	Stock well	IML
P61006W	3Q09	8/31/09	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.57623	-105.02204	335	Unk	Ra-05	Stock well	IML
P61006W	3Q09	8/31/09	U, D	0.002	mg/l	0.001		3.E-07	1.E-09	44.57623	-105.02204	335	Unk	EPA 200.8	Stock well	IML
P61007W	3Q09	8/31/09	Gross Alpha	2.3	pCi/l	2.000	1.400	NA	NA	44.57623	-105.02204	304	Unk	SM 7110B	Stock well	IML
P61007W	3Q09	8/31/09	Gross Beta	<3	pCi/l	3.000		NA	NA	44.57623	-105.02204	304	Unk	SM 7110B	Stock well	IML
P61007W	3Q09	8/31/09	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.57623	-105.02204	304	Unk	SM 7500-Ra B	Stock well	IML
P61007W	3Q09	8/31/09	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.57623	-105.02204	304	Unk	Ra-05	Stock well	IML
P61007W	3Q09	8/31/09	U, D	0.001	mg/l	0.001		3.E-07	7.E-10	44.57623	-105.02204	304	Unk	EPA 200.8	Stock well	IML
P71108W	2Q10	6/23/10	Gross Alpha	40	pCi/l	3.700	4.900	NA	NA	44.60904	-104.98647	220	Unk	SM 7110B	Stock well	IML
P71108W	2Q10	6/23/10	Gross Beta	14.8	pCi/l	7.000	4.200	NA	NA	44.60904	-104.98647	220	Unk	SM 7110B	Stock well	IML
P71108W	2Q10	6/23/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.60904	-104.98647	220	Unk	OTW01	Stock well	IML
P71108W	2Q10	6/23/10	Pb-210, S	<1	pCi/l	1.000		1.E-08	NA	44.60904	-104.98647	220	Unk	OTW01	Stock well	IML
P71108W	2Q10	6/23/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.60904	-104.98647	220	Unk	OTW01	Stock well	IML
P71108W	2Q10	6/23/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.60904	-104.98647	220	Unk	OTW01	Stock well	IML
P71108W	2Q10	6/23/10	Ra-226, D	0.22	pCi/l	0.200	0.090	6.E-08	2.E-10	44.60904	-104.98647	220	Unk	SM 7500-Ra B	Stock well	IML
P71108W	2Q10	6/23/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.60904	-104.98647	220	Unk	SM 7500-Ra B	Stock well	IML
P71108W	2Q10	6/23/10	Ra-228, D	1.07	pCi/l	1.000	0.690	6.E-08	1.E-09	44.60904	-104.98647	220	Unk	Ra-05	Stock well	IML
P71108W	2Q10	6/23/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.60904	-104.98647	220	Unk	ACW10	Stock well	IML
P71108W	2Q10	6/23/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.60904	-104.98647	220	Unk	ACW10	Stock well	IML
P71108W	2Q10	6/23/10	U, D	0.064	mg/l	0.001		3.E-07	4.E-08	44.60904	-104.98647	220	Unk	EPA 200.8	Stock well	IML
P71108W	2Q10	6/23/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.60904	-104.98647	220	Unk	EPA 200.8	Stock well	IML
P71108W	3Q09	8/27/09	Gross Alpha	57.7	pCi/l	2.000	5.600	NA	NA	44.60904	-104.98647	220	Unk	SM 7110B	Stock well	IML
P71108W	3Q09	8/27/09	Gross Beta	18.6	pCi/l	3.000	3.900	NA	NA	44.60904	-104.98647	220	Unk	SM 7110B	Stock well	IML
P71108W	3Q09	8/27/09	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.60904	-104.98647	220	Unk	SM 7500-Ra B	Stock well	IML

Ross ISR Project

24

TR Addendum 2.9-C

Existing Water Supply Well Data
Groundwater Wells

Well ID	Quarter	Sample Date	Analyte*	Value	Units	Detect Limit	Error	10 CFR 20 (µCi/ml)	Value in µCi/ml	Latitude	Longitude	Well Depth (feet)	Depth to Water (feet)	Method	Well Type	Contract Laboratory
P71108W	3Q09	8/27/09	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.60904	-104.98647	220	Unk	Ra-05	Stock well	IML
P71108W	3Q09	8/27/09	U, D	0.113	mg/l	0.001		3.E-07	8.E-08	44.60904	-104.98647	220	Unk	EPA 200.8	Stock well	IML
P71108W	3Q10	8/11/10	Gross Alpha	37	pCi/l	2.000	4.500	NA	NA	44.60904	-104.98647	220	Unk	SM 7110B	Stock well	IML
P71108W	3Q10	8/11/10	Gross Beta	21.7	pCi/l	3.000	4.200	NA	NA	44.60904	-104.98647	220	Unk	SM 7110B	Stock well	IML
P71108W	3Q10	8/11/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.60904	-104.98647	220	Unk	OTW01	Stock well	IML
P71108W	3Q10	8/11/10	Pb-210, S	<1	pCi/l	1.000		1.E-08	NA	44.60904	-104.98647	220	Unk	OTW01	Stock well	IML
P71108W	3Q10	8/11/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.60904	-104.98647	220	Unk	OTW01	Stock well	IML
P71108W	3Q10	8/11/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.60904	-104.98647	220	Unk	OTW01	Stock well	IML
P71108W	3Q10	8/11/10	Ra-226, D	0.9	pCi/l	0.200	0.200	6.E-08	9.E-10	44.60904	-104.98647	220	Unk	SM 7500-Ra B	Stock well	IML
P71108W	3Q10	8/11/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.60904	-104.98647	220	Unk	SM 7500-Ra B	Stock well	IML
P71108W	3Q10	8/11/10	Ra-228, D	1.6	pCi/l	1.000	0.900	6.E-08	2.E-09	44.60904	-104.98647	220	Unk	Ra-05	Stock well	IML
P71108W	3Q10	8/11/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.60904	-104.98647	220	Unk	ACW10	Stock well	IML
P71108W	3Q10	8/11/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.60904	-104.98647	220	Unk	ACW10	Stock well	IML
P71108W	3Q10	8/11/10	U, D	0.065	mg/l	0.001		3.E-07	4.E-08	44.60904	-104.98647	220	Unk	EPA 200.8	Stock well	IML
P71108W	3Q10	8/11/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.60904	-104.98647	220	Unk	EPA 200.8	Stock well	IML
P71108W	4Q09	11/18/09	Gross Alpha	59.2	pCi/l	2.000	5.700	NA	NA	44.60904	-104.98647	220	Unk	SM 7110B	Stock well	IML
P71108W	4Q09	11/18/09	Gross Beta	22.3	pCi/l	3.000	4.100	NA	NA	44.60904	-104.98647	220	Unk	SM 7110B	Stock well	IML
P71108W	4Q09	11/18/09	U, D	0.094	mg/l	0.001		3.E-07	6.E-08	44.60904	-104.98647	220	Unk	EPA 200.8	Stock well	IML
P78287W	3Q09	9/1/09	Gross Alpha	<2	pCi/l	2.000		NA	NA	44.58762	-104.91549	560	Unk	SM 7110B	Domestic	IML
P78287W	3Q09	9/1/09	Gross Beta	4.1	pCi/l	3.000	1.700	NA	NA	44.58762	-104.91549	560	Unk	SM 7110B	Domestic	IML
P78287W	3Q09	9/1/09	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.58762	-104.91549	560	Unk	SM 7500-Ra B	Domestic	IML
P78287W	3Q09	9/1/09	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.58762	-104.91549	560	Unk	Ra-05	Domestic	IML
P78287W	3Q09	9/1/09	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.58762	-104.91549	560	Unk	EPA 200.8	Domestic	IML
P84665W	3Q09	8/28/09	Gross Alpha	37.3	pCi/l	2.000	4.400	NA	NA	44.60898	-105.00159	50	Unk	SM 7110B	Stock well	IML
P84665W	3Q09	8/28/09	Gross Beta	15.2	pCi/l	3.000	2.800	NA	NA	44.60898	-105.00159	50	Unk	SM 7110B	Stock well	IML
P84665W	3Q09	8/28/09	Ra-226, D	0.33	pCi/l	0.200	0.220	6.E-08	3.E-10	44.60898	-105.00159	50	Unk	SM 7500-Ra B	Stock well	IML
P84665W	3Q09	8/28/09	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.60898	-105.00159	50	Unk	Ra-05	Stock well	IML
P84665W	3Q09	8/28/09	U, D	0.056	mg/l	0.001		3.E-07	4.E-08	44.60898	-105.00159	50	Unk	EPA 200.8	Stock well	IML
P84665W	3Q10	8/11/10	Gross Alpha	26.7	pCi/l	2.000	2.600	NA	NA	44.60898	-105.00159	50	Unk	SM 7110B	Stock well	IML
P84665W	3Q10	8/11/10	Gross Beta	16	pCi/l	3.000	2.100	NA	NA	44.60898	-105.00159	50	Unk	SM 7110B	Stock well	IML
P84665W	3Q10	8/11/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.60898	-105.00159	50	Unk	OTW01	Stock well	IML
P84665W	3Q10	8/11/10	Pb-210, S	<1	pCi/l	1.000		1.E-08	NA	44.60898	-105.00159	50	Unk	OTW01	Stock well	IML
P84665W	3Q10	8/11/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.60898	-105.00159	50	Unk	OTW01	Stock well	IML
P84665W	3Q10	8/11/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.60898	-105.00159	50	Unk	OTW01	Stock well	IML
P84665W	3Q10	8/11/10	Ra-226, D	0.3	pCi/l	0.200	0.100	6.E-08	3.E-10	44.60898	-105.00159	50	Unk	SM 7500-Ra B	Stock well	IML
P84665W	3Q10	8/11/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.60898	-105.00159	50	Unk	SM 7500-Ra B	Stock well	IML
P84665W	3Q10	8/11/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.60898	-105.00159	50	Unk	Ra-05	Stock well	IML
P84665W	3Q10	8/11/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.60898	-105.00159	50	Unk	ACW10	Stock well	IML
P84665W	3Q10	8/11/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.60898	-105.00159	50	Unk	ACW10	Stock well	IML
P84665W	3Q10	8/11/10	U, D	0.056	mg/l	0.001		3.E-07	4.E-08	44.60898	-105.00159	50	Unk	EPA 200.8	Stock well	IML
P84665W	3Q10	8/11/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.60898	-105.00159	50	Unk	EPA 200.8	Stock well	IML
P84665W	4Q10	10/6/10	Gross Alpha	30.8	pCi/l	2.000	2.900	NA	NA	44.60898	-105.00159	50	Unk	SM 7110B	Stock well	IML
P84665W	4Q10	10/6/10	Gross Beta	16.4	pCi/l	3.000	2.100	NA	NA	44.60898	-105.00159	50	Unk	SM 7110B	Stock well	IML
P84665W	4Q10	10/6/10	Ra-226, D	0.4	pCi/l	0.200	0.100	6.E-08	4.E-10	44.60898	-105.00159	50	Unk	SM 7500-Ra B	Stock well	IML
P84665W	4Q10	10/6/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.60898	-105.00159	50	Unk	Ra-05	Stock well	IML
P84665W	4Q10	10/6/10	U, D	0.056	mg/l	0.001		3.E-07	4.E-08	44.60898	-105.00159	50	Unk	EPA 200.8	Stock well	IML
SBWELL01	2Q10	6/23/10	Gross Alpha	2	pCi/l	2.000	1.500	NA	NA	44.60831	-104.99336	Unk	Unk	SM 7110B	Stock well	IML
SBWELL01	2Q10	6/23/10	Gross Beta	<3.7	pCi/l	3.700		NA	NA	44.60831	-104.99336	Unk	Unk	SM 7110B	Stock well	IML
SBWELL01	2Q10	6/23/10	Pb-210, D	1.04	pCi/l	1.000	0.510	1.E-08	1.E-09	44.60831	-104.99336	Unk	Unk	OTW01	Stock well	IML
SBWELL01	2Q10	6/23/10	Pb-210, S	<1	pCi/l	1.000		1.E-08	NA	44.60831	-104.99336	Unk	Unk	OTW01	Stock well	IML
SBWELL01	2Q10	6/23/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.60831	-104.99336	Unk	Unk	OTW01	Stock well	IML
SBWELL01	2Q10	6/23/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.60831	-104.99336	Unk	Unk	OTW01	Stock well	IML
SBWELL01	2Q10	6/23/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.60831	-104.99336	Unk	Unk	SM 7500-Ra B	Stock well	IML
SBWELL01	2Q10	6/23/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.60831	-104.99336	Unk	Unk	SM 7500-Ra B	Stock well	IML
SBWELL01	2Q10	6/23/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.60831	-104.99336	Unk	Unk	Ra-05	Stock well	IML
SBWELL01	2Q10	6/23/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.60831	-104.99336	Unk	Unk	ACW10	Stock well	IML
SBWELL01	2Q10	6/23/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.60831	-104.99336	Unk	Unk	ACW10	Stock well	IML
SBWELL01	2Q10	6/23/10	U, D	0.002	mg/l	0.001		3.E-07	1.E-09	44.60831	-104.99336	Unk	Unk	EPA 200.8	Stock well	IML

Ross ISR Project

25

TR Addendum 2.9-C

Existing Water Supply Well Data
Groundwater Wells

Well ID	Quarter	Sample Date	Analyte*	Value	Units	Detect Limit	Error	10 CFR 20 MPC (µCi/ml)	Value in µCi/ml	Latitude	Longitude	Well Depth (feet)	Depth to Water (feet)	Method	Well Type	Contract Laboratory
SBWELL01	2Q10	6/23/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.60831	-104.99336	Unk	Unk	EPA 200.8	Stock well	IML
SBWELL01	3Q09	8/27/09	Gross Alpha	<2	pCi/l	2.000		NA	NA	44.60831	-104.99336	Unk	Unk	SM 7110B	Stock well	IML
SBWELL01	3Q09	8/27/09	Gross Beta	3.4	pCi/l	3.000	2.300	NA	NA	44.60831	-104.99336	Unk	Unk	SM 7110B	Stock well	IML
SBWELL01	3Q09	8/27/09	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.60831	-104.99336	Unk	Unk	SM 7500-Ra B	Stock well	IML
SBWELL01	3Q09	8/27/09	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.60831	-104.99336	Unk	Unk	Ra-05	Stock well	IML
SBWELL01	3Q09	8/27/09	U, D	0.001	mg/l	0.001		3.E-07	7.E-10	44.60831	-104.99336	Unk	Unk	EPA 200.8	Stock well	IML
SBWELL01	3Q10	8/11/10	Gross Alpha	3.4	pCi/l	2.000	1.200	NA	NA	44.60831	-104.99336	Unk	Unk	SM 7110B	Stock well	IML
SBWELL01	3Q10	8/11/10	Gross Beta	<3	pCi/l	3.000		NA	NA	44.60831	-104.99336	Unk	Unk	SM 7110B	Stock well	IML
SBWELL01	3Q10	8/11/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.60831	-104.99336	Unk	Unk	OTW01	Stock well	IML
SBWELL01	3Q10	8/11/10	Pb-210, S	1.5	pCi/l	1.000	0.400	1.E-08	2.E-09	44.60831	-104.99336	Unk	Unk	OTW01	Stock well	IML
SBWELL01	3Q10	8/11/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.60831	-104.99336	Unk	Unk	OTW01	Stock well	IML
SBWELL01	3Q10	8/11/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.60831	-104.99336	Unk	Unk	OTW01	Stock well	IML
SBWELL01	3Q10	8/11/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.60831	-104.99336	Unk	Unk	SM 7500-Ra B	Stock well	IML
SBWELL01	3Q10	8/11/10	Ra-226, S	0.7	pCi/l	0.200	0.100	6.E-08	7.E-10	44.60831	-104.99336	Unk	Unk	SM 7500-Ra B	Stock well	IML
SBWELL01	3Q10	8/11/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.60831	-104.99336	Unk	Unk	Ra-05	Stock well	IML
SBWELL01	3Q10	8/11/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.60831	-104.99336	Unk	Unk	ACW10	Stock well	IML
SBWELL01	3Q10	8/11/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.60831	-104.99336	Unk	Unk	ACW10	Stock well	IML
SBWELL01	3Q10	8/11/10	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.60831	-104.99336	Unk	Unk	EPA 200.8	Stock well	IML
SBWELL01	3Q10	8/11/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.60831	-104.99336	Unk	Unk	EPA 200.8	Stock well	IML
SBWELL01	4Q09	11/18/09	Gross Alpha	2.5	pCi/l	2.000	1.700	NA	NA	44.60831	-104.99336	Unk	Unk	SM 7110B	Stock well	IML
SBWELL01	4Q09	11/18/09	Gross Beta	<3	pCi/l	3.000		NA	NA	44.60831	-104.99336	Unk	Unk	SM 7110B	Stock well	IML
SBWELL01	4Q09	11/18/09	U, D	0.001	mg/l	0.001		3.E-07	7.E-10	44.60831	-104.99336	Unk	Unk	EPA 200.8	Stock well	IML
SBWELL01	4Q10	10/6/10	Gross Alpha	2.8	pCi/l	2.000	1.300	NA	NA	44.60831	-104.99336	Unk	Unk	SM 7110B	Stock well	IML
SBWELL01	4Q10	10/6/10	Gross Beta	3.2	pCi/l	3.000	1.800	NA	NA	44.60831	-104.99336	Unk	Unk	SM 7110B	Stock well	IML
SBWELL01	4Q10	10/6/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.60831	-104.99336	Unk	Unk	SM 7500-Ra B	Stock well	IML
SBWELL01	4Q10	10/6/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.60831	-104.99336	Unk	Unk	Ra-05	Stock well	IML
SBWELL01	4Q10	10/6/10	U, D	0.002	mg/l	0.001		3.E-07	1.E-09	44.60831	-104.99336	Unk	Unk	EPA 200.8	Stock well	IML
SBWELL02	2Q10	6/23/10	Gross Alpha	4.1	pCi/l	2.000	1.800	NA	NA	44.60425	-104.96445	Unk	Unk	SM 7110B	Unknown	IML
SBWELL02	2Q10	6/23/10	Gross Beta	12.3	pCi/l	3.500	2.600	NA	NA	44.60425	-104.96445	Unk	Unk	SM 7110B	Unknown	IML
SBWELL02	2Q10	6/23/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.60425	-104.96445	Unk	Unk	OTW01	Unknown	IML
SBWELL02	2Q10	6/23/10	Pb-210, S	1.11	pCi/l	1.000	0.740	1.E-08	1.E-09	44.60425	-104.96445	Unk	Unk	OTW01	Unknown	IML
SBWELL02	2Q10	6/23/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.60425	-104.96445	Unk	Unk	OTW01	Unknown	IML
SBWELL02	2Q10	6/23/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.60425	-104.96445	Unk	Unk	OTW01	Unknown	IML
SBWELL02	2Q10	6/23/10	Ra-226, D	0.21	pCi/l	0.200	0.090	6.E-08	2.E-10	44.60425	-104.96445	Unk	Unk	SM 7500-Ra B	Unknown	IML
SBWELL02	2Q10	6/23/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.60425	-104.96445	Unk	Unk	SM 7500-Ra B	Unknown	IML
SBWELL02	2Q10	6/23/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.60425	-104.96445	Unk	Unk	Ra-05	Unknown	IML
SBWELL02	2Q10	6/23/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.60425	-104.96445	Unk	Unk	ACW10	Unknown	IML
SBWELL02	2Q10	6/23/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.60425	-104.96445	Unk	Unk	ACW10	Unknown	IML
SBWELL02	2Q10	6/23/10	U, D	0.005	mg/l	0.001		3.E-07	3.E-09	44.60425	-104.96445	Unk	Unk	EPA 200.8	Unknown	IML
SBWELL02	2Q10	6/23/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.60425	-104.96445	Unk	Unk	EPA 200.8	Unknown	IML
SBWELL02	3Q10	8/11/10	Gross Alpha	3.89	pCi/l	2.000	1.340	NA	NA	44.60425	-104.96445	Unk	Unk	SM 7110B	Unknown	IML
SBWELL02	3Q10	8/11/10	Gross Beta	9.53	pCi/l	3.400	2.120	NA	NA	44.60425	-104.96445	Unk	Unk	SM 7110B	Unknown	IML
SBWELL02	3Q10	8/11/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.60425	-104.96445	Unk	Unk	OTW01	Unknown	IML
SBWELL02	3Q10	8/11/10	Pb-210, S	<1	pCi/l	1.000		1.E-08	NA	44.60425	-104.96445	Unk	Unk	OTW01	Unknown	IML
SBWELL02	3Q10	8/11/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.60425	-104.96445	Unk	Unk	OTW01	Unknown	IML
SBWELL02	3Q10	8/11/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.60425	-104.96445	Unk	Unk	OTW01	Unknown	IML
SBWELL02	3Q10	8/11/10	Ra-226, D	0.2	pCi/l	0.200	0.100	6.E-08	2.E-10	44.60425	-104.96445	Unk	Unk	SM 7500-Ra B	Unknown	IML
SBWELL02	3Q10	8/11/10	Ra-226, S	7	pCi/l	0.200	0.400	6.E-08	7.E-09	44.60425	-104.96445	Unk	Unk	SM 7500-Ra B	Unknown	IML
SBWELL02	3Q10	8/11/10	Ra-228, D	1.22	pCi/l	1.000	0.990	6.E-08	1.E-09	44.60425	-104.96445	Unk	Unk	Ra-05	Unknown	IML
SBWELL02	3Q10	8/11/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.60425	-104.96445	Unk	Unk	ACW10	Unknown	IML
SBWELL02	3Q10	8/11/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.60425	-104.96445	Unk	Unk	ACW10	Unknown	IML
SBWELL02	3Q10	8/11/10	U, D	0.005	mg/l	0.001		3.E-07	3.E-09	44.60425	-104.96445	Unk	Unk	EPA 200.8	Unknown	IML
SBWELL02	3Q10	8/11/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.60425	-104.96445	Unk	Unk	EPA 200.8	Unknown	IML
SBWELL02	4Q10	10/6/10	Gross Alpha	2.7	pCi/l	2.000	1.200	NA	NA	44.60425	-104.96445	Unk	Unk	SM 7110B	Unknown	IML
SBWELL02	4Q10	10/6/10	Gross Beta	7.6	pCi/l	3.000	1.900	NA	NA	44.60425	-104.96445	Unk	Unk	SM 7110B	Unknown	IML
SBWELL02	4Q10	10/6/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.60425	-104.96445	Unk	Unk	SM 7500-Ra B	Unknown	IML
SBWELL02	4Q10	10/6/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.60425	-104.96445	Unk	Unk	Ra-05	Unknown	IML
SBWELL02	4Q10	10/6/10	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.60425	-104.96445	Unk	Unk	EPA 200.8	Unknown	IML

Ross ISR Project

26

TR Addendum 2.9-C

Existing Water Supply Well Data
Groundwater Wells

Well ID	Quarter	Sample Date	Analyte*	Value	Units	Detect Limit	Error	10 CFR 20 MPC (µCi/ml)	Value in µCi/ml	Latitude	Longitude	Well Depth (feet)	Depth to Water (feet)	Method	Well Type	Contract Laboratory
TSWELL01	4Q09	10/22/09	Gross Alpha	10.8	pCi/l	2.000	2.600	NA	NA	44.58809	-105.04617	Unk	Unk	SM 7110B	Domestic	IML
TSWELL01	4Q09	10/22/09	Gross Beta	7.3	pCi/l	3.000	2.500	NA	NA	44.58809	-105.04617	Unk	Unk	SM 7110B	Domestic	IML
TSWELL01	4Q09	10/22/09	Ra-226, D	0.46	pCi/l	0.200	0.130	6.E-08	5.E-10	44.58809	-105.04617	Unk	Unk	SM 7500-Ra B	Domestic	IML
TSWELL01	4Q09	10/22/09	Ra-228, D	1.17	pCi/l	1.000	0.850	6.E-08	1.E-09	44.58809	-105.04617	Unk	Unk	Ra-05	Domestic	IML
TSWELL01	4Q09	10/22/09	U, D	0.004	mg/l	0.001		3.E-07	3.E-09	44.58809	-105.04617	Unk	Unk	EPA 200.8	Domestic	IML
TW01	1Q10	1/23/10	Gross Alpha	<2	pCi/l	2.000		NA	NA	44.59121	-104.9455	200	Unk	SM 7110B	Domestic	IML
TW01	1Q10	1/23/10	Gross Beta	<4.11	pCi/l	4.110		NA	NA	44.59121	-104.9455	200	Unk	SM 7110B	Domestic	IML
TW01	1Q10	1/23/10	Ra-226, D	0.2	pCi/l	0.200	0.070	6.E-08	2.E-10	44.59121	-104.9455	200	Unk	SM 7500-Ra B	Domestic	IML
TW01	1Q10	1/23/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.59121	-104.9455	200	Unk	Ra-05	Domestic	IML
TW01	1Q10	1/23/10	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.59121	-104.9455	200	Unk	EPA 200.8	Domestic	IML
TW01	2Q10	5/14/10	Gross Alpha	<2	pCi/l	2.000		NA	NA	44.59121	-104.9455	200	Unk	SM 7110B	Domestic	IML
TW01	2Q10	5/14/10	Gross Beta	5.8	pCi/l	3.900	3.500	NA	NA	44.59121	-104.9455	200	Unk	SM 7110B	Domestic	IML
TW01	2Q10	5/14/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.59121	-104.9455	200	Unk	OTW01	Domestic	IML
TW01	2Q10	5/14/10	Pb-210, S	<1	pCi/l	1.000		1.E-08	NA	44.59121	-104.9455	200	Unk	OTW01	Domestic	IML
TW01	2Q10	5/14/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.59121	-104.9455	200	Unk	OTW01	Domestic	IML
TW01	2Q10	5/14/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.59121	-104.9455	200	Unk	OTW01	Domestic	IML
TW01	2Q10	5/14/10	Ra-226, D	0.32	pCi/l	0.200	0.080	6.E-08	3.E-10	44.59121	-104.9455	200	Unk	SM 7500-Ra B	Domestic	IML
TW01	2Q10	5/14/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.59121	-104.9455	200	Unk	SM 7500-Ra B	Domestic	IML
TW01	2Q10	5/14/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.59121	-104.9455	200	Unk	Ra-05	Domestic	IML
TW01	2Q10	5/14/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.59121	-104.9455	200	Unk	ACW10	Domestic	IML
TW01	2Q10	5/14/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.59121	-104.9455	200	Unk	ACW10	Domestic	IML
TW01	2Q10	5/14/10	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.59121	-104.9455	200	Unk	EPA 200.8	Domestic	IML
TW01	2Q10	5/14/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.59121	-104.9455	200	Unk	EPA 200.8	Domestic	IML
TW01	3Q09	7/29/09	Gross Alpha	<2	pCi/l	2.000		NA	NA	44.59121	-104.9455	200	27.7	SM 7110B	Domestic	IML
TW01	3Q09	7/29/09	Gross Beta	<3	pCi/l	3.000		NA	NA	44.59121	-104.9455	200	27.7	SM 7110B	Domestic	IML
TW01	3Q09	7/29/09	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.59121	-104.9455	200	27.7	SM 7500-Ra B	Domestic	IML
TW01	3Q09	7/29/09	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.59121	-104.9455	200	27.7	Ra-05	Domestic	IML
TW01	3Q09	7/29/09	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.59121	-104.9455	200	27.7	EPA 200.8	Domestic	IML
TW01	3Q10	7/21/10	Gross Alpha	<3.7	pCi/l	3.700		NA	NA	44.59121	-104.9455	200	Unk	SM 7110B	Domestic	IML
TW01	3Q10	7/21/10	Gross Beta	8.55	pCi/l	7.000	3.700	NA	NA	44.59121	-104.9455	200	Unk	SM 7110B	Domestic	IML
TW01	3Q10	7/21/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.59121	-104.9455	200	Unk	OTW01	Domestic	IML
TW01	3Q10	7/21/10	Pb-210, S	<1	pCi/l	1.000		1.E-08	NA	44.59121	-104.9455	200	Unk	OTW01	Domestic	IML
TW01	3Q10	7/21/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.59121	-104.9455	200	Unk	OTW01	Domestic	IML
TW01	3Q10	7/21/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.59121	-104.9455	200	Unk	OTW01	Domestic	IML
TW01	3Q10	7/21/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.59121	-104.9455	200	Unk	SM 7500-Ra B	Domestic	IML
TW01	3Q10	7/21/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.59121	-104.9455	200	Unk	SM 7500-Ra B	Domestic	IML
TW01	3Q10	7/21/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.59121	-104.9455	200	Unk	Ra-05	Domestic	IML
TW01	3Q10	7/21/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.59121	-104.9455	200	Unk	ACW10	Domestic	IML
TW01	3Q10	7/21/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.59121	-104.9455	200	Unk	ACW10	Domestic	IML
TW01	3Q10	7/21/10	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.59121	-104.9455	200	Unk	EPA 200.8	Domestic	IML
TW01	3Q10	7/21/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.59121	-104.9455	200	Unk	EPA 200.8	Domestic	IML
TW01	4Q10	10/5/10	Gross Alpha	4.2	pCi/l	2.000	2.100	NA	NA	44.59121	-104.9455	200	Unk	SM 7110B	Domestic	IML
TW01	4Q10	10/5/10	Gross Beta	4.4	pCi/l	3.000	3.900	NA	NA	44.59121	-104.9455	200	Unk	SM 7110B	Domestic	IML
TW01	4Q10	10/5/10	Ra-226, D	0.3	pCi/l	0.200	0.100	6.E-08	3.E-10	44.59121	-104.9455	200	Unk	SM 7500-Ra B	Domestic	IML
TW01	4Q10	10/5/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.59121	-104.9455	200	Unk	Ra-05	Domestic	IML
TW01	4Q10	10/5/10	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.59121	-104.9455	200	Unk	EPA 200.8	Domestic	IML
TW02	1Q10	1/23/10	Gross Alpha	3.1	pCi/l	2.000	2.400	NA	NA	44.58759	-104.94043	160	Unk	SM 7110B	Domestic	IML
TW02	1Q10	1/23/10	Gross Beta	8.6	pCi/l	3.850	3.600	NA	NA	44.58759	-104.94043	160	Unk	SM 7110B	Domestic	IML
TW02	1Q10	1/23/10	Ra-226, D	0.49	pCi/l	0.200	0.110	6.E-08	5.E-10	44.58759	-104.94043	160	Unk	SM 7500-Ra B	Domestic	IML
TW02	1Q10	1/23/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.58759	-104.94043	160	Unk	Ra-05	Domestic	IML
TW02	1Q10	1/23/10	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.58759	-104.94043	160	Unk	EPA 200.8	Domestic	IML
TW02	2Q10	5/13/10	Gross Alpha	<2	pCi/l	2.000		NA	NA	44.58759	-104.94043	160	Unk	SM 7110B	Domestic	IML
TW02	2Q10	5/13/10	Gross Beta	6.6	pCi/l	5.100	4.700	NA	NA	44.58759	-104.94043	160	Unk	SM 7110B	Domestic	IML
TW02	2Q10	5/13/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.58759	-104.94043	160	Unk	OTW01	Domestic	IML
TW02	2Q10	5/13/10	Pb-210, S	<1	pCi/l	1.000		1.E-08	NA	44.58759	-104.94043	160	Unk	OTW01	Domestic	IML
TW02	2Q10	5/13/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.58759	-104.94043	160	Unk	OTW01	Domestic	IML
TW02	2Q10	5/13/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.58759	-104.94043	160	Unk	OTW01	Domestic	IML
TW02	2Q10	5/13/10	Ra-226, D	0.49	pCi/l	0.200	0.090	6.E-08	5.E-10	44.58759	-104.94043	160	Unk	SM 7500-Ra B	Domestic	IML

Ross ISR Project

27

TR Addendum 2.9-C

Existing Water Supply Well Data
Groundwater Wells

Well ID	Quarter	Sample Date	Analyte*	Value	Units	Detect Limit	Error	10 CFR 20 MPC (µCi/ml)	Value in µCi/ml	Latitude	Longitude	Well Depth (feet)	Depth to Water (feet)	Method	Well Type	Contract Laboratory
TW02	2Q10	5/13/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.58759	-104.94043	160	Unk	SM 7500-Ra B	Domestic	IML
TW02	2Q10	5/13/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.58759	-104.94043	160	Unk	Ra-05	Domestic	IML
TW02	2Q10	5/13/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.58759	-104.94043	160	Unk	ACW10	Domestic	IML
TW02	2Q10	5/13/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.58759	-104.94043	160	Unk	ACW10	Domestic	IML
TW02	2Q10	5/13/10	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.58759	-104.94043	160	Unk	EPA 200.8	Domestic	IML
TW02	2Q10	5/13/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.58759	-104.94043	160	Unk	EPA 200.8	Domestic	IML
TW02	3Q09	7/29/09	Gross Alpha	2.4	pCi/l	2.000	1.800	NA	NA	44.58759	-104.94043	160	20.4	SM 7110B	Domestic	IML
TW02	3Q09	7/29/09	Gross Beta	<3	pCi/l	3.000		NA	NA	44.58759	-104.94043	160	20.4	SM 7110B	Domestic	IML
TW02	3Q09	7/29/09	Ra-226, D	0.45	pCi/l	0.200	0.240	6.E-08	5.E-10	44.58759	-104.94043	160	20.4	SM 7500-Ra B	Domestic	IML
TW02	3Q09	7/29/09	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.58759	-104.94043	160	20.4	Ra-05	Domestic	IML
TW02	3Q09	7/29/09	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.58759	-104.94043	160	20.4	EPA 200.8	Domestic	IML
TW02	3Q10	7/21/10	Gross Alpha	4.61	pCi/l	3.200	2.260	NA	NA	44.58759	-104.94043	160	Unk	SM 7110B	Domestic	IML
TW02	3Q10	7/21/10	Gross Beta	10.4	pCi/l	7.000	3.700	NA	NA	44.58759	-104.94043	160	Unk	SM 7110B	Domestic	IML
TW02	3Q10	7/21/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.58759	-104.94043	160	Unk	OTW01	Domestic	IML
TW02	3Q10	7/21/10	Pb-210, S	<1	pCi/l	1.000		1.E-08	NA	44.58759	-104.94043	160	Unk	OTW01	Domestic	IML
TW02	3Q10	7/21/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.58759	-104.94043	160	Unk	OTW01	Domestic	IML
TW02	3Q10	7/21/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.58759	-104.94043	160	Unk	OTW01	Domestic	IML
TW02	3Q10	7/21/10	Ra-226, D	0.41	pCi/l	0.200	0.080	6.E-08	4.E-10	44.58759	-104.94043	160	Unk	SM 7500-Ra B	Domestic	IML
TW02	3Q10	7/21/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.58759	-104.94043	160	Unk	SM 7500-Ra B	Domestic	IML
TW02	3Q10	7/21/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.58759	-104.94043	160	Unk	Ra-05	Domestic	IML
TW02	3Q10	7/21/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.58759	-104.94043	160	Unk	ACW10	Domestic	IML
TW02	3Q10	7/21/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.58759	-104.94043	160	Unk	ACW10	Domestic	IML
TW02	3Q10	7/21/10	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.58759	-104.94043	160	Unk	EPA 200.8	Domestic	IML
TW02	3Q10	7/21/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.58759	-104.94043	160	Unk	EPA 200.8	Domestic	IML
TW02	4Q09	10/21/09	Gross Alpha	4.4	pCi/l	2.000	2.300	NA	NA	44.58759	-104.94043	160	Unk	SM 7110B	Domestic	IML
TW02	4Q09	10/21/09	Gross Beta	11.7	pCi/l	3.940	3.700	NA	NA	44.58759	-104.94043	160	Unk	SM 7110B	Domestic	IML
TW02	4Q09	10/21/09	Ra-226, D	0.31	pCi/l	0.200	0.120	6.E-08	3.E-10	44.58759	-104.94043	160	Unk	SM 7500-Ra B	Domestic	IML
TW02	4Q09	10/21/09	Ra-228, D	1.54	pCi/l	1.000	0.870	6.E-08	2.E-09	44.58759	-104.94043	160	Unk	Ra-05	Domestic	IML
TW02	4Q09	10/21/09	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.58759	-104.94043	160	Unk	EPA 200.8	Domestic	IML
TW02	4Q10	10/5/10	Gross Alpha	3.1	pCi/l	2.000	2.300	NA	NA	44.58759	-104.94043	160	Unk	SM 7110B	Domestic	IML
TW02	4Q10	10/5/10	Gross Beta	9.2	pCi/l	3.000	4.000	NA	NA	44.58759	-104.94043	160	Unk	SM 7110B	Domestic	IML
TW02	4Q10	10/5/10	Ra-226, D	1.1	pCi/l	0.200	0.100	6.E-08	1.E-09	44.58759	-104.94043	160	Unk	SM 7500-Ra B	Domestic	IML
TW02	4Q10	10/5/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.58759	-104.94043	160	Unk	Ra-05	Domestic	IML
TW02	4Q10	10/5/10	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.58759	-104.94043	160	Unk	EPA 200.8	Domestic	IML
TW02	4Q10	10/5/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.58759	-104.94043	160	Unk	EPA 200.8	Domestic	IML
TW02	4Q10	10/5/10	Gross Alpha	6.7	pCi/l	2.000	2.400	NA	NA	44.58689	-104.966111	Unk	Unk	SM 7110B	Stock well	IML
TW02	4Q10	10/5/10	Gross Beta	6.9	pCi/l	3.000	3.900	NA	NA	44.58689	-104.966111	Unk	Unk	SM 7110B	Stock well	IML
TW02	4Q10	10/5/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.58689	-104.966111	Unk	Unk	SM 7500-Ra B	Stock well	IML
TW02	4Q10	10/5/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.58689	-104.966111	Unk	Unk	Ra-05	Stock well	IML
TW02	4Q10	10/5/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.58689	-104.966111	Unk	Unk	ACW10	Stock well	IML
TW02	4Q10	10/5/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.58689	-104.966111	Unk	Unk	ACW10	Stock well	IML
TW02	4Q10	10/5/10	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.58689	-104.966111	Unk	Unk	EPA 200.8	Stock well	IML
TW02	4Q10	10/5/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.58689	-104.966111	Unk	Unk	EPA 200.8	Stock well	IML
TW02	4Q10	10/5/10	Gross Alpha	6.7	pCi/l	2.000	2.400	NA	NA	44.58689	-104.966111	Unk	Unk	SM 7110B	Stock well	IML
TW02	4Q10	10/5/10	Gross Beta	6.9	pCi/l	3.000	3.900	NA	NA	44.58689	-104.966111	Unk	Unk	SM 7110B	Stock well	IML
TW02	4Q10	10/5/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.58689	-104.966111	Unk	Unk	SM 7500-Ra B	Stock well	IML
TW02	4Q10	10/5/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.58689	-104.966111	Unk	Unk	Ra-05	Stock well	IML
TW02	4Q10	10/5/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.58689	-104.966111	Unk	Unk	EPA 200.8	Stock well	IML
TW02	4Q10	10/5/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.58689	-104.966111	Unk	Unk	EPA 200.8	Stock well	IML

*D, Dissolved; S, Suspended

Ross ISR Project

28

TR Addendum 2.9-C

SURFACE WATER

Surface Water Data

Ross ISR Project

30

TR Addendum 2.9-C

Surface Water ID	Quarter	Sample Date	Analyte*	Value	Units	Detect Limit	Error	10 CFR 20 MPC (µCi/ml)	Value in µCi/ml	Latitude	Longitude	Method	Well Type	Contract Laboratory
CSRES01	3Q09	8/6/09	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.56559	-104.95596	EPA 200.8	Stock Res.	
CSRES02	2Q10	5/18/10	Gross Alpha	3.85	pCi/l	2.000	0.970	NA	NA	44.56559	-104.95596	SM 7110B	Stock Res.	IML
CSRES02	2Q10	5/18/10	Gross Beta	20.3	pCi/l	3.000	1.300	NA	NA	44.56559	-104.95596	SM 7110B	Stock Res.	IML
CSRES02	2Q10	5/18/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.56559	-104.95596	OTW01	Stock Res.	IML
CSRES02	2Q10	5/18/10	Pb-210, S	3.26	pCi/l	1.000	0.560	1.E-08	3.E-09	44.56559	-104.95596	OTW01	Stock Res.	IML
CSRES02	2Q10	5/18/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.56559	-104.95596	OTW01	Stock Res.	IML
CSRES02	2Q10	5/18/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.56559	-104.95596	OTW01	Stock Res.	IML
CSRES02	2Q10	5/18/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.56559	-104.95596	SM 7500-Ra B	Stock Res.	IML
CSRES02	2Q10	5/18/10	Ra-226, S	1.12	pCi/l	0.200	0.160	6.E-08	1.E-09	44.56559	-104.95596	SM 7500-Ra B	Stock Res.	IML
CSRES02	2Q10	5/18/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.56559	-104.95596	Ra-05	Stock Res.	IML
CSRES02	2Q10	5/18/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.56559	-104.95596	ACW10	Stock Res.	IML
CSRES02	2Q10	5/18/10	Th-230, S	0.28	pCi/l	0.200	0.110	1.E-07	3.E-10	44.56559	-104.95596	ACW10	Stock Res.	IML
CSRES02	2Q10	5/18/10	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.56559	-104.95596	EPA 200.8	Stock Res.	IML
CSRES02	2Q10	5/18/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.56559	-104.95596	EPA 200.8	Stock Res.	IML
CSRES02	3Q09	8/6/09	Gross Alpha	2.15	pCi/l	2.000	0.950	NA	NA	44.56559	-104.95596	SM 7110B	Stock Res.	IML
CSRES02	3Q09	8/6/09	Gross Beta	16.8	pCi/l	3.000	1.700	NA	NA	44.56559	-104.95596	SM 7110B	Stock Res.	IML
CSRES02	3Q09	8/6/09	Ra-226, D	<2.7	pCi/l	2.700		6.E-08	NA	44.56559	-104.95596	SM 7500-Ra B	Stock Res.	IML
CSRES02	3Q09	8/6/09	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.56559	-104.95596	Ra-05	Stock Res.	IML
CSRES02	3Q09	8/6/09	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.56559	-104.95596	EPA 200.8	Stock Res.	IML
CSRES02	3Q10	8/10/10	Gross Alpha	7.4	pCi/l	2.000	1.600	NA	NA	44.56559	-104.95596	SM 7110B	Stock Res.	IML
CSRES02	3Q10	8/10/10	Gross Beta	28.7	pCi/l	3.000	2.300	NA	NA	44.56559	-104.95596	SM 7110B	Stock Res.	IML
CSRES02	3Q10	8/10/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.56559	-104.95596	OTW01	Stock Res.	IML
CSRES02	3Q10	8/10/10	Pb-210, S	<1	pCi/l	1.000		1.E-08	NA	44.56559	-104.95596	OTW01	Stock Res.	IML
CSRES02	3Q10	8/10/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.56559	-104.95596	OTW01	Stock Res.	IML
CSRES02	3Q10	8/10/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.56559	-104.95596	OTW01	Stock Res.	IML
CSRES02	3Q10	8/10/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.56559	-104.95596	SM 7500-Ra B	Stock Res.	IML
CSRES02	3Q10	8/10/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.56559	-104.95596	SM 7500-Ra B	Stock Res.	IML
CSRES02	3Q10	8/10/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.56559	-104.95596	Ra-05	Stock Res.	IML
CSRES02	3Q10	8/10/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.56559	-104.95596	ACW10	Stock Res.	IML
CSRES02	3Q10	8/10/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.56559	-104.95596	ACW10	Stock Res.	IML
CSRES02	3Q10	8/10/10	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.56559	-104.95596	EPA 200.8	Stock Res.	IML
CSRES02	3Q10	8/10/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.56559	-104.95596	EPA 200.8	Stock Res.	IML
CSRES02	4Q09	10/23/09	Gross Alpha	<2	pCi/l	2.000		NA	NA	44.56559	-104.95596	SM 7110B	Stock Res.	IML
CSRES02	4Q09	10/23/09	Gross Beta	10.5	pCi/l	3.000	1.500	NA	NA	44.56559	-104.95596	SM 7110B	Stock Res.	IML
CSRES02	4Q09	10/23/09	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.56559	-104.95596	SM 7500-Ra B	Stock Res.	IML
CSRES02	4Q09	10/23/09	Ra-228, D	1.22	pCi/l	1.000	0.830	6.E-08	1.E-09	44.56559	-104.95596	Ra-05	Stock Res.	IML
CSRES02	4Q09	10/23/09	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.56559	-104.95596	EPA 200.8	Stock Res.	IML
CSRES03	2Q10	5/20/10	Gross Alpha	3.4	pCi/l	2.000	1.500	NA	NA	44.56559	-104.95596	SM 7110B	Stock Res.	IML
CSRES03	2Q10	5/20/10	Gross Beta	8.6	pCi/l	3.000	2.600	NA	NA	44.56559	-104.95596	SM 7110B	Stock Res.	IML
CSRES03	2Q10	5/20/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.56559	-104.95596	OTW01	Stock Res.	IML
CSRES03	2Q10	5/20/10	Pb-210, S	<1	pCi/l	1.000		1.E-08	NA	44.56559	-104.95596	OTW01	Stock Res.	IML
CSRES03	2Q10	5/20/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.56559	-104.95596	OTW01	Stock Res.	IML
CSRES03	2Q10	5/20/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.56559	-104.95596	OTW01	Stock Res.	IML
CSRES03	2Q10	5/20/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.56559	-104.95596	SM 7500-Ra B	Stock Res.	IML
CSRES03	2Q10	5/20/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.56559	-104.95596	SM 7500-Ra B	Stock Res.	IML
CSRES03	2Q10	5/20/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.56559	-104.95596	Ra-05	Stock Res.	IML
CSRES03	2Q10	5/20/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.56559	-104.95596	ACW10	Stock Res.	IML
CSRES03	2Q10	5/20/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.56559	-104.95596	ACW10	Stock Res.	IML
CSRES03	2Q10	5/20/10	U, D	0.002	mg/l	0.001		3.E-07	1.E-09	44.56559	-104.95596	EPA 200.8	Stock Res.	IML
CSRES03	2Q10	5/20/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.56559	-104.95596	EPA 200.8	Stock Res.	IML

Surface Water Data

Surface Water ID	Quarter	Sample Date	Analyte*	Value	Units	Detect Limit	Error	10 CFR 20 MPC (µCi/ml)	Value in µCi/ml	Latitude	Longitude	Method	Well Type	Contract Laboratory
CSRES03	3Q09	8/6/09	Gross Alpha	<2	pCi/l	2.000		NA	NA	44.56559	-104.95596	SM 7110B	Stock Res.	IML
CSRES03	3Q09	8/6/09	Gross Beta	8.9	pCi/l	3.000	1.400	NA	NA	44.56559	-104.95596	SM 7110B	Stock Res.	IML
CSRES03	3Q09	8/6/09	Ra-226, D	0.46	pCi/l	0.200	0.230	6.E-08	5.E-10	44.56559	-104.95596	SM 7500-Ra B	Stock Res.	IML
CSRES03	3Q09	8/6/09	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.56559	-104.95596	Ra-05	Stock Res.	IML
CSRES03	3Q09	8/6/09	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.56559	-104.95596	EPA 200.8	Stock Res.	IML
CSRES03	3Q10	8/10/10	Gross Alpha	2.5	pCi/l	2.000	0.700	NA	NA	44.56559	-104.95596	SM 7110B	Stock Res.	IML
CSRES03	3Q10	8/10/10	Gross Beta	12.1	pCi/l	3.000	1.100	NA	NA	44.56559	-104.95596	SM 7110B	Stock Res.	IML
CSRES03	3Q10	8/10/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.56559	-104.95596	OTW01	Stock Res.	IML
CSRES03	3Q10	8/10/10	Pb-210, S	<1	pCi/l	1.000		1.E-08	NA	44.56559	-104.95596	OTW01	Stock Res.	IML
CSRES03	3Q10	8/10/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.56559	-104.95596	OTW01	Stock Res.	IML
CSRES03	3Q10	8/10/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.56559	-104.95596	OTW01	Stock Res.	IML
CSRES03	3Q10	8/10/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.56559	-104.95596	SM 7500-Ra B	Stock Res.	IML
CSRES03	3Q10	8/10/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.56559	-104.95596	SM 7500-Ra B	Stock Res.	IML
CSRES03	3Q10	8/10/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.56559	-104.95596	Ra-05	Stock Res.	IML
CSRES03	3Q10	8/10/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.56559	-104.95596	ACW10	Stock Res.	IML
CSRES03	3Q10	8/10/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.56559	-104.95596	ACW10	Stock Res.	IML
CSRES03	3Q10	8/10/10	U, D	0.002	mg/l	0.001		3.E-07	1.E-09	44.56559	-104.95596	EPA 200.8	Stock Res.	IML
CSRES03	3Q10	8/10/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.56559	-104.95596	EPA 200.8	Stock Res.	IML
CSRES03	4Q09	10/23/09	Gross Alpha	<2	pCi/l	2.000		NA	NA	44.56559	-104.95596	SM 7110B	Stock Res.	IML
CSRES03	4Q09	10/23/09	Gross Beta	12.1	pCi/l	3.000	1.600	NA	NA	44.56559	-104.95596	SM 7110B	Stock Res.	IML
CSRES03	4Q09	10/23/09	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.56559	-104.95596	SM 7500-Ra B	Stock Res.	IML
CSRES03	4Q09	10/23/09	Ra-228, D	1.52	pCi/l	1.000	0.840	6.E-08	2.E-09	44.56559	-104.95596	Ra-05	Stock Res.	IML
CSRES03	4Q09	10/23/09	U, D	0.002	mg/l	0.001		3.E-07	1.E-09	44.56559	-104.95596	EPA 200.8	Stock Res.	IML
CSRES03	4Q10	10/4/10	Gross Alpha	11.1	pCi/l	2.000	2.900	NA	NA	44.56559	-104.95596	SM 7110B	Stock Res.	IML
CSRES03	4Q10	10/4/10	Gross Beta	27.6	pCi/l	3.000	4.000	NA	NA	44.56559	-104.95596	SM 7110B	Stock Res.	IML
CSRES03	4Q10	10/4/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.56559	-104.95596	SM 7500-Ra B	Stock Res.	IML
CSRES03	4Q10	10/4/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.56559	-104.95596	Ra-05	Stock Res.	IML
CSRES03	4Q10	10/4/10	U, D	0.005	mg/l	0.001		3.E-07	3.E-09	44.56559	-104.95596	EPA 200.8	Stock Res.	IML
CSRES04	3Q09	8/6/09	Gross Alpha	<2	pCi/l	2.000		NA	NA	44.56559	-104.95596	SM 7110B	Stock Res.	IML
CSRES04	3Q09	8/6/09	Gross Beta	6.9	pCi/l	3.000	1.400	NA	NA	44.56559	-104.95596	SM 7110B	Stock Res.	IML
CSRES04	3Q09	8/6/09	Ra-226, D	0.2	pCi/l	0.200	0.200	6.E-08	2.E-10	44.56559	-104.95596	SM 7500-Ra B	Stock Res.	IML
CSRES04	3Q09	8/6/09	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.56559	-104.95596	Ra-05	Stock Res.	IML
CSRES04	3Q09	8/6/09	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.56559	-104.95596	EPA 200.8	Stock Res.	IML
HBRES04	1Q10	1/9/10	Gross Alpha	5.5	pCi/l	2.000	2.100	NA	NA	44.58007	-104.93779	SM 7110B	Reservoir	IML
HBRES04	1Q10	1/9/10	Gross Beta	12.7	pCi/l	3.000	2.600	NA	NA	44.58007	-104.93779	SM 7110B	Reservoir	IML
HBRES04	1Q10	1/9/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.58007	-104.93779	SM 7500-Ra B	Reservoir	IML
HBRES04	1Q10	1/9/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.58007	-104.93779	Ra-05	Reservoir	IML
HBRES04	1Q10	1/9/10	U, D	0.007	mg/l	0.001		3.E-07	5.E-09	44.58007	-104.93779	EPA 200.8	Reservoir	IML
HBRES04	2Q10	4/14/10	Gross Alpha	3.1	pCi/l	2.000	1.700	NA	NA	44.58007	-104.93779	SM 7110B	Reservoir	IML
HBRES04	2Q10	4/14/10	Gross Beta	11.3	pCi/l	3.000	2.600	NA	NA	44.58007	-104.93779	SM 7110B	Reservoir	IML
HBRES04	2Q10	4/14/10	Ra-226, D	0.2	pCi/l	0.200	0.090	6.E-08	2.E-10	44.58007	-104.93779	SM 7500-Ra B	Reservoir	IML
HBRES04	2Q10	4/14/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.58007	-104.93779	Ra-05	Reservoir	IML
HBRES04	2Q10	4/14/10	U, D	0.007	mg/l	0.001		3.E-07	5.E-09	44.58007	-104.93779	EPA 200.8	Reservoir	IML
HBRES04	3Q09	8/4/09	Gross Alpha	5.1	pCi/l	2.000	1.400	NA	NA	44.58007	-104.93779	SM 7110B	Reservoir	IML
HBRES04	3Q09	8/4/09	Gross Beta	8.1	pCi/l	3.000	2.000	NA	NA	44.58007	-104.93779	SM 7110B	Reservoir	IML
HBRES04	3Q09	8/4/09	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.58007	-104.93779	SM 7500-Ra B	Reservoir	IML
HBRES04	3Q09	8/4/09	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.58007	-104.93779	Ra-05	Reservoir	IML
HBRES04	3Q09	8/4/09	U, D	0.006	mg/l	0.001		3.E-07	4.E-09	44.58007	-104.93779	EPA 200.8	Reservoir	IML
HBRES04	3Q10	7/21/10	Gross Alpha	7.34	pCi/l	2.000	1.580	NA	NA	44.58007	-104.93779	SM 7110B	Reservoir	IML
HBRES04	3Q10	7/21/10	Gross Beta	11.5	pCi/l	3.500	2.000	NA	NA	44.58007	-104.93779	SM 7110B	Reservoir	IML

Ross ISR Project

31

TR Addendum 2.9-C

Surface Water Data

Ross ISR Project

32

TR Addendum 2.9-C

Surface Water ID	Quarter	Sample Date	Analyte*	Value	Units	Detect Limit	Error	10 CFR 20 MPC (µCi/ml)	Value in µCi/ml	Latitude	Longitude	Method	Well Type	Contract Laboratory
HBRES04	3Q10	7/21/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.58007	-104.93779	OTW01	Reservoir	IML
HBRES04	3Q10	7/21/10	Pb-210, S	<1	pCi/l	1.000		1.E-08	NA	44.58007	-104.93779	OTW01	Reservoir	IML
HBRES04	3Q10	7/21/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.58007	-104.93779	OTW01	Reservoir	IML
HBRES04	3Q10	7/21/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.58007	-104.93779	OTW01	Reservoir	IML
HBRES04	3Q10	7/21/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.58007	-104.93779	SM 7500-Ra B	Reservoir	IML
HBRES04	3Q10	7/21/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.58007	-104.93779	SM 7500-Ra B	Reservoir	IML
HBRES04	3Q10	7/21/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.58007	-104.93779	Ra-05	Reservoir	IML
HBRES04	3Q10	7/21/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.58007	-104.93779	ACW10	Reservoir	IML
HBRES04	3Q10	7/21/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.58007	-104.93779	ACW10	Reservoir	IML
HBRES04	3Q10	7/21/10	U, D	0.009	mg/l	0.001		3.E-07	6.E-09	44.58007	-104.93779	EPA 200.8	Reservoir	IML
HBRES04	3Q10	7/21/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.58007	-104.93779	EPA 200.8	Reservoir	IML
HBRES04	4Q09	10/22/09	Gross Alpha	9.1	pCi/l	2.000	3.200	NA	NA	44.58007	-104.93779	SM 7110B	Reservoir	IML
HBRES04	4Q09	10/22/09	Gross Beta	22.9	pCi/l	3.000	3.000	NA	NA	44.58007	-104.93779	SM 7110B	Reservoir	IML
HBRES04	4Q09	10/22/09	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.58007	-104.93779	SM 7500-Ra B	Reservoir	IML
HBRES04	4Q09	10/22/09	Ra-228, D	1.1	pCi/l	1.000	0.700	6.E-08	1.E-09	44.58007	-104.93779	Ra-05	Reservoir	IML
HBRES04	4Q09	10/22/09	U, D	0.006	mg/l	0.001		3.E-07	4.E-09	44.58007	-104.93779	EPA 200.8	Reservoir	IML
HBRES04	4Q10	10/5/10	Gross Alpha	9.5	pCi/l	2.000	1.800	NA	NA	44.58007	-104.93779	SM 7110B	Reservoir	IML
HBRES04	4Q10	10/5/10	Gross Beta	13	pCi/l	3.000	2.000	NA	NA	44.58007	-104.93779	SM 7110B	Reservoir	IML
HBRES04	4Q10	10/5/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.58007	-104.93779	SM 7500-Ra B	Reservoir	IML
HBRES04	4Q10	10/5/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.58007	-104.93779	Ga-Tech	Reservoir	IML
HBRES04	4Q10	10/5/10	U, D	0.008	mg/l	0.001		3.E-07	5.E-09	44.58007	-104.93779	EPA 200.8	Reservoir	IML
P15507S	2Q10	5/5/10	Gross Alpha	13.6	pCi/l	2.000	2.400	NA	NA	44.55831	-104.9965	SM 7110B	Stock Res.	IML
P15507S	2Q10	5/5/10	Gross Beta	12.9	pCi/l	3.000	2.100	NA	NA	44.55831	-104.9965	SM 7110B	Stock Res.	IML
P15507S	2Q10	5/5/10	Pb-210, D	1.46	pCi/l	1.000	0.800	1.E-08	1.E-09	44.55831	-104.9965	OTW01	Stock Res.	IML
P15507S	2Q10	5/5/10	Pb-210, S	1.55	pCi/l	1.000	0.990	1.E-08	2.E-09	44.55831	-104.9965	OTW01	Stock Res.	IML
P15507S	2Q10	5/5/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.55831	-104.9965	OTW01	Stock Res.	IML
P15507S	2Q10	5/5/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.55831	-104.9965	OTW01	Stock Res.	IML
P15507S	2Q10	5/5/10	Ra-226, D	0.31	pCi/l	0.200	0.080	6.E-08	3.E-10	44.55831	-104.9965	SM 7500-Ra B	Stock Res.	IML
P15507S	2Q10	5/5/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.55831	-104.9965	SM 7500-Ra B	Stock Res.	IML
P15507S	2Q10	5/5/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.55831	-104.9965	Ra-05	Stock Res.	IML
P15507S	2Q10	5/5/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.55831	-104.9965	ACW10	Stock Res.	IML
P15507S	2Q10	5/5/10	Th-230, S	0.28	pCi/l	0.200	0.140	1.E-07	3.E-10	44.55831	-104.9965	ACW10	Stock Res.	IML
P15507S	2Q10	5/5/10	U, D	0.019	mg/l	0.001		3.E-07	1.E-08	44.55831	-104.9965	EPA 200.8	Stock Res.	IML
P15507S	2Q10	5/5/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.55831	-104.9965	EPA 200.8	Stock Res.	IML
P15507S	3Q10	8/24/10	Gross Alpha	27.3	pCi/l	2.000	4.700	NA	NA	44.55831	-104.9965	SM 7110B	Stock Res.	IML
P15507S	3Q10	8/24/10	Gross Beta	44.4	pCi/l	3.000	4.400	NA	NA	44.55831	-104.9965	SM 7110B	Stock Res.	IML
P15507S	3Q10	8/24/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.55831	-104.9965	OTW01	Stock Res.	IML
P15507S	3Q10	8/24/10	Pb-210, S	<1	pCi/l	1.000		1.E-08	NA	44.55831	-104.9965	OTW01	Stock Res.	IML
P15507S	3Q10	8/24/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.55831	-104.9965	OTW01	Stock Res.	IML
P15507S	3Q10	8/24/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.55831	-104.9965	OTW01	Stock Res.	IML
P15507S	3Q10	8/24/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.55831	-104.9965	SM 7500-Ra B	Stock Res.	IML
P15507S	3Q10	8/24/10	Ra-226, S	0.3	pCi/l	0.200	0.100	6.E-08	3.E-10	44.55831	-104.9965	SM 7500-Ra B	Stock Res.	IML
P15507S	3Q10	8/24/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.55831	-104.9965	Ra-05	Stock Res.	IML
P15507S	3Q10	8/24/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.55831	-104.9965	ACW10	Stock Res.	IML
P15507S	3Q10	8/24/10	Th-230, S	0.46	pCi/l	0.200	0.160	1.E-07	5.E-10	44.55831	-104.9965	ACW10	Stock Res.	IML
P15507S	3Q10	8/24/10	U, D	0.021	mg/l	0.001		3.E-07	1.E-08	44.55831	-104.9965	EPA 200.8	Stock Res.	IML
P15507S	3Q10	8/24/10	U, S	0.003	mg/l	0.001		3.E-07	2.E-09	44.55831	-104.9965	EPA 200.8	Stock Res.	IML
P15507S	4Q10	10/5/10	Gross Alpha	48.7	pCi/l	2.000	6.000	NA	NA	44.55831	-104.9965	SM 7110B	Stock Res.	IML
P15507S	4Q10	10/5/10	Gross Beta	48.5	pCi/l	3.000	5.700	NA	NA	44.55831	-104.9965	SM 7110B	Stock Res.	IML
P15507S	4Q10	10/5/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.55831	-104.9965	SM 7500-Ra B	Stock Res.	IML

Surface Water Data

Surface Water ID	Quarter	Sample Date	Analyte*	Value	Units	Detect Limit	Error	10 CFR 20 MPC (µCi/ml)	Value in µCi/ml	Latitude	Longitude	Method	Well Type	Contract Laboratory
P15507S	4Q10	10/5/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.55831	-104.9965	Ga-Tech	Stock Res.	IML
P15507S	4Q10	10/5/10	U, D	0.087	mg/l	0.001		3.E-07	6.E-08	44.55831	-104.9965	EPA 200.8	Stock Res.	IML
P15508S	4Q10	10/5/10	Gross Alpha	15	pCi/l	2.000	3.500	NA	NA	44.575917	-104.963306	SM 7110B	Stock Res.	IML
P15508S	4Q10	10/5/10	Gross Beta	20	pCi/l	3.000	3.900	NA	NA	44.575917	-104.963306	SM 7110B	Stock Res.	IML
P15508S	4Q10	10/5/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.575917	-104.963306	SM 7500-Ra B	Stock Res.	IML
P15508S	4Q10	10/5/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.575917	-104.963306	Ga-Tech	Stock Res.	IML
P15508S	4Q10	10/5/10	U, D	0.027	mg/l	0.001		3.E-07	2.E-08	44.575917	-104.963306	EPA 200.8	Stock Res.	IML
P17592S	4Q10	10/5/10	Gross Alpha	16.3	pCi/l	2.000	3.500	NA	NA	44.61273	-104.97637	SM 7110B	Unknown	IML
P17592S	4Q10	10/5/10	Gross Beta	20	pCi/l	3.000	3.900	NA	NA	44.61273	-104.97637	SM 7110B	Unknown	IML
P17592S	4Q10	10/5/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.61273	-104.97637	SM 7500-Ra B	Unknown	IML
P17592S	4Q10	10/5/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.61273	-104.97637	Ga-Tech	Unknown	IML
P17592S	4Q10	10/5/10	U, D	0.02	mg/l	0.001		3.E-07	1.E-08	44.61273	-104.97637	EPA 200.8	Unknown	IML
SW-1	1Q10	3/9/10	Gross Alpha	8.8	pCi/l	2.000	1.700	NA	NA	44.60425	-104.96445	SM 7110B	Unknown	IML
SW-1	1Q10	3/9/10	Gross Beta	8.6	pCi/l	3.000	1.900	NA	NA	44.60425	-104.96445	SM 7110B	Unknown	IML
SW-1	1Q10	3/9/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.60425	-104.96445	SM 7500-Ra B	Unknown	IML
SW-1	1Q10	3/9/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.60425	-104.96445	Ra-05	Unknown	IML
SW-1	1Q10	3/9/10	U, D	0.008	mg/l	0.001		3.E-07	5.E-09	44.60425	-104.96445	EPA 200.8	Unknown	IML
SW-1	2Q10	4/13/10	Gross Alpha	7.3	pCi/l	2.000	2.200	NA	NA	44.60425	-104.96445	SM 7110B	Unknown	IML
SW-1	2Q10	4/13/10	Gross Beta	9.7	pCi/l	3.000	2.700	NA	NA	44.60425	-104.96445	SM 7110B	Unknown	IML
SW-1	2Q10	4/13/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.60425	-104.96445	SM 7500-Ra B	Unknown	IML
SW-1	2Q10	4/13/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.60425	-104.96445	Ra-05	Unknown	IML
SW-1	2Q10	4/13/10	U, D	0.011	mg/l	0.001		3.E-07	7.E-09	44.60425	-104.96445	EPA 200.8	Unknown	IML
SW-2	1Q10	3/9/10	Gross Alpha	4	pCi/l	2.000	1.200	NA	NA	44.60425	-104.96445	SM 7110B	Unknown	IML
SW-2	1Q10	3/9/10	Gross Beta	6	pCi/l	3.000	1.400	NA	NA	44.60425	-104.96445	SM 7110B	Unknown	IML
SW-2	1Q10	3/9/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.60425	-104.96445	SM 7500-Ra B	Unknown	IML
SW-2	1Q10	3/9/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.60425	-104.96445	Ra-05	Unknown	IML
SW-2	1Q10	3/9/10	U, D	0.003	mg/l	0.001		3.E-07	2.E-09	44.60425	-104.96445	EPA 200.8	Unknown	IML
SW-2	2Q10	4/13/10	Gross Alpha	7.9	pCi/l	2.000	2.500	NA	NA	44.60425	-104.96445	SM 7110B	Unknown	IML
SW-2	2Q10	4/13/10	Gross Beta	7.4	pCi/l	3.000	2.600	NA	NA	44.60425	-104.96445	SM 7110B	Unknown	IML
SW-2	2Q10	4/13/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.60425	-104.96445	SM 7500-Ra B	Unknown	IML
SW-2	2Q10	4/13/10	Ra-228, D	1.3	pCi/l	1.000	0.780	6.E-08	1.E-09	44.60425	-104.96445	Ra-05	Unknown	IML
SW-2	2Q10	4/13/10	U, D	0.02	mg/l	0.001		3.E-07	1.E-08	44.60425	-104.96445	EPA 200.8	Unknown	IML
SW-3	1Q10	3/9/10	Gross Alpha	7.3	pCi/l	2.000	2.300	NA	NA	44.60425	-104.96445	SM 7110B	Unknown	IML
SW-3	1Q10	3/9/10	Gross Beta	11.2	pCi/l	3.000	2.600	NA	NA	44.60425	-104.96445	SM 7110B	Unknown	IML
SW-3	1Q10	3/9/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.60425	-104.96445	SM 7500-Ra B	Unknown	IML
SW-3	1Q10	3/9/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.60425	-104.96445	Ra-05	Unknown	IML
SW-3	1Q10	3/9/10	U, D	0.009	mg/l	0.001		3.E-07	6.E-09	44.60425	-104.96445	EPA 200.8	Unknown	IML
SW-3	2Q10	4/13/10	Gross Alpha	6	pCi/l	2.000	2.300	NA	NA	44.60425	-104.96445	SM 7110B	Unknown	IML
SW-3	2Q10	4/13/10	Gross Beta	9.8	pCi/l	3.000	2.700	NA	NA	44.60425	-104.96445	SM 7110B	Unknown	IML
SW-3	2Q10	4/13/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.60425	-104.96445	SM 7500-Ra B	Unknown	IML
SW-3	2Q10	4/13/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.60425	-104.96445	Ra-05	Unknown	IML
SW-3	2Q10	4/13/10	U, D	0.014	mg/l	0.001		3.E-07	9.E-09	44.60425	-104.96445	EPA 200.8	Unknown	IML
TSRES01	4Q09	10/22/09	Gross Alpha	23	pCi/l	2.000	3.900	NA	NA	44.60425	-104.96445	SM 7110B	Stock Res.	IML
TSRES01	4Q09	10/22/09	Gross Beta	31.4	pCi/l	4.120	4.300	NA	NA	44.60425	-104.96445	SM 7110B	Stock Res.	IML
TSRES01	4Q09	10/22/09	Ra-226, D	0.29	pCi/l	0.200	0.090	6.E-08	3.E-10	44.60425	-104.96445	SM 7500-Ra B	Stock Res.	IML
TSRES01	4Q09	10/22/09	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.60425	-104.96445	Ra-05	Stock Res.	IML
TSRES01	4Q09	10/22/09	U, D	0.028	mg/l	0.001		3.E-07	2.E-08	44.60425	-104.96445	EPA 200.8	Stock Res.	IML
TWRES01	2Q10	6/23/10	Gross Alpha	<2	pCi/l	2.000		NA	NA	44.58759	-104.94043	SM 7110B	Stock Res.	IML
TWRES01	2Q10	6/23/10	Gross Beta	9.3	pCi/l	3.000	1.500	NA	NA	44.58759	-104.94043	SM 7110B	Stock Res.	IML
TWRES01	2Q10	6/23/10	Pb-210, D	1.29	pCi/l	1.000	0.580	1.E-08	1.E-09	44.58759	-104.94043	OTW01	Stock Res.	IML

Ross ISR Project

33

TR Addendum 2.9-C

Surface Water Data

Ross ISR Project

34

TR Addendum 2.9-C

Surface Water ID	Quarter	Sample Date	Analyte*	Value	Units	Detect Limit	Error	10 CFR 20 MPC (µCi/ml)	Value in µCi/ml	Latitude	Longitude	Method	Well Type	Contract Laboratory
TWRES01	2Q10	6/23/10	Pb-210, S	<1	pCi/l	1.000		1.E-08	NA	44.58759	-104.94043	OTW01	Stock Res.	IML
TWRES01	2Q10	6/23/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.58759	-104.94043	OTW01	Stock Res.	IML
TWRES01	2Q10	6/23/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.58759	-104.94043	OTW01	Stock Res.	IML
TWRES01	2Q10	6/23/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.58759	-104.94043	SM 7500-Ra B	Stock Res.	IML
TWRES01	2Q10	6/23/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.58759	-104.94043	SM 7500-Ra B	Stock Res.	IML
TWRES01	2Q10	6/23/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.58759	-104.94043	Ra-05	Stock Res.	IML
TWRES01	2Q10	6/23/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.58759	-104.94043	ACW10	Stock Res.	IML
TWRES01	2Q10	6/23/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.58759	-104.94043	ACW10	Stock Res.	IML
TWRES01	2Q10	6/23/10	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.58759	-104.94043	EPA 200.8	Stock Res.	IML
TWRES01	2Q10	6/23/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.58759	-104.94043	EPA 200.8	Stock Res.	IML
TWRES01	3Q09	9/1/09	Gross Alpha	<2	pCi/l	2.000		NA	NA	44.58759	-104.94043	SM 7110B	Stock Res.	IML
TWRES01	3Q09	9/1/09	Gross Beta	8.7	pCi/l	3.000	1.400	NA	NA	44.58759	-104.94043	SM 7110B	Stock Res.	IML
TWRES01	3Q09	9/1/09	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.58759	-104.94043	SM 7500-Ra B	Stock Res.	IML
TWRES01	3Q09	9/1/09	Ra-228, D	1.25	pCi/l	1.000	0.480	6.E-08	1.E-09	44.58759	-104.94043	Ra-05	Stock Res.	IML
TWRES01	3Q09	9/1/09	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.58759	-104.94043	EPA 200.8	Stock Res.	IML
TWRES01	3Q10	7/22/10	Gross Alpha	3.55	pCi/l	2.000	0.950	NA	NA	44.58759	-104.94043	SM 7110B	Stock Res.	IML
TWRES01	3Q10	7/22/10	Gross Beta	9.26	pCi/l	3.000	1.400	NA	NA	44.58759	-104.94043	SM 7110B	Stock Res.	IML
TWRES01	3Q10	7/22/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.58759	-104.94043	OTW01	Stock Res.	IML
TWRES01	3Q10	7/22/10	Pb-210, S	<1	pCi/l	1.000		1.E-08	NA	44.58759	-104.94043	OTW01	Stock Res.	IML
TWRES01	3Q10	7/22/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.58759	-104.94043	OTW01	Stock Res.	IML
TWRES01	3Q10	7/22/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.58759	-104.94043	OTW01	Stock Res.	IML
TWRES01	3Q10	7/22/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.58759	-104.94043	SM 7500-Ra B	Stock Res.	IML
TWRES01	3Q10	7/22/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.58759	-104.94043	SM 7500-Ra B	Stock Res.	IML
TWRES01	3Q10	7/22/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.58759	-104.94043	Ra-05	Stock Res.	IML
TWRES01	3Q10	7/22/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.58759	-104.94043	ACW10	Stock Res.	IML
TWRES01	3Q10	7/22/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.58759	-104.94043	ACW10	Stock Res.	IML
TWRES01	3Q10	7/22/10	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.58759	-104.94043	EPA 200.8	Stock Res.	IML
TWRES01	3Q10	7/22/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.58759	-104.94043	EPA 200.8	Stock Res.	IML
TWRES01	4Q09	10/22/09	Gross Alpha	2.25	pCi/l	2.000	0.910	NA	NA	44.58759	-104.94043	SM 7110B	Stock Res.	IML
TWRES01	4Q09	10/22/09	Gross Beta	13.1	pCi/l	3.000	1.600	NA	NA	44.58759	-104.94043	SM 7110B	Stock Res.	IML
TWRES01	4Q09	10/22/09	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.58759	-104.94043	SM 7500-Ra B	Stock Res.	IML
TWRES01	4Q09	10/22/09	Ra-228, D	1.34	pCi/l	1.000	0.720	6.E-08	1.E-09	44.58759	-104.94043	Ra-05	Stock Res.	IML
TWRES01	4Q09	10/22/09	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.58759	-104.94043	EPA 200.8	Stock Res.	IML
TWRES01	4Q10	10/5/10	Gross Alpha	2.5	pCi/l	2.000	0.700	NA	NA	44.58759	-104.94043	SM 7110B	Stock Res.	IML
TWRES01	4Q10	10/5/10	Gross Beta	14.3	pCi/l	3.000	1.300	NA	NA	44.58759	-104.94043	SM 7110B	Stock Res.	IML
TWRES01	4Q10	10/5/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.58759	-104.94043	SM 7500-Ra B	Stock Res.	IML
TWRES01	4Q10	10/5/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.58759	-104.94043	Ra-05	Stock Res.	IML
TWRES01	4Q10	10/5/10	U, D	0.001	mg/l	0.001		3.E-07	7.E-10	44.58759	-104.94043	EPA 200.8	Stock Res.	IML
TWRES02	2Q10	5/21/10	Gross Alpha	5.6	pCi/l	2.000	2.300	NA	NA	44.58759	-104.94043	SM 7110B	Stock Res.	IML
TWRES02	2Q10	5/21/10	Gross Beta	11.6	pCi/l	3.000	2.500	NA	NA	44.58759	-104.94043	SM 7110B	Stock Res.	IML
TWRES02	2Q10	5/21/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.58759	-104.94043	OTW01	Stock Res.	IML
TWRES02	2Q10	5/21/10	Pb-210, S	<1	pCi/l	1.000		1.E-08	NA	44.58759	-104.94043	OTW01	Stock Res.	IML
TWRES02	2Q10	5/21/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.58759	-104.94043	OTW01	Stock Res.	IML
TWRES02	2Q10	5/21/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.58759	-104.94043	OTW01	Stock Res.	IML
TWRES02	2Q10	5/21/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.58759	-104.94043	SM 7500-Ra B	Stock Res.	IML
TWRES02	2Q10	5/21/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.58759	-104.94043	SM 7500-Ra B	Stock Res.	IML
TWRES02	2Q10	5/21/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.58759	-104.94043	Ra-05	Stock Res.	IML
TWRES02	2Q10	5/21/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.58759	-104.94043	ACW10	Stock Res.	IML
TWRES02	2Q10	5/21/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.58759	-104.94043	ACW10	Stock Res.	IML
TWRES02	2Q10	5/21/10	U, D	0.006	mg/l	0.001		3.E-07	4.E-09	44.58759	-104.94043	EPA 200.8	Stock Res.	IML

Surface Water Data

Surface Water ID	Quarter	Sample Date	Analyte*	Value	Units	Detect Limit	Error	10 CFR 20 MPC (µCi/ml)	Value in µCi/ml	Latitude	Longitude	Method	Well Type	Contract Laboratory
TWRES02	2Q10	5/21/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.58759	-104.94043	EPA 200.8	Stock Res.	IML
TWRES02	3Q10	7/22/10	Gross Alpha	3.61	pCi/l	2.000	0.810	NA	NA	44.58759	-104.94043	SM 7110B	Stock Res.	IML
TWRES02	3Q10	7/22/10	Gross Beta	5.99	pCi/l	3.000	1.100	NA	NA	44.58759	-104.94043	SM 7110B	Stock Res.	IML
TWRES02	3Q10	7/22/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.58759	-104.94043	OTW01	Stock Res.	IML
TWRES02	3Q10	7/22/10	Pb-210, S	<1	pCi/l	1.000		1.E-08	NA	44.58759	-104.94043	OTW01	Stock Res.	IML
TWRES02	3Q10	7/22/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.58759	-104.94043	OTW01	Stock Res.	IML
TWRES02	3Q10	7/22/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.58759	-104.94043	OTW01	Stock Res.	IML
TWRES02	3Q10	7/22/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.58759	-104.94043	SM 7500-Ra B	Stock Res.	IML
TWRES02	3Q10	7/22/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.58759	-104.94043	SM 7500-Ra B	Stock Res.	IML
TWRES02	3Q10	7/22/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.58759	-104.94043	Ra-05	Stock Res.	IML
TWRES02	3Q10	7/22/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.58759	-104.94043	ACW10	Stock Res.	IML
TWRES02	3Q10	7/22/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.58759	-104.94043	ACW10	Stock Res.	IML
TWRES02	3Q10	7/22/10	U, D	0.003	mg/l	0.001		3.E-07	2.E-09	44.58759	-104.94043	EPA 200.8	Stock Res.	IML
TWRES02	3Q10	7/22/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.58759	-104.94043	EPA 200.8	Stock Res.	IML
TWRES02	4Q10	10/5/10	Gross Alpha	4.8	pCi/l	2.000	2.400	NA	NA	44.58759	-104.94043	SM 7110B	Stock Res.	IML
TWRES02	4Q10	10/5/10	Gross Beta	3.9	pCi/l	3.000	3.500	NA	NA	44.58759	-104.94043	SM 7110B	Stock Res.	IML
TWRES02	4Q10	10/5/10	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.58759	-104.94043	SM 7500-Ra B	Stock Res.	IML
TWRES02	4Q10	10/5/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.58759	-104.94043	Ra-05	Stock Res.	IML
TWRES02	4Q10	10/5/10	U, D	0.002	mg/l	0.001		3.E-07	1.E-09	44.58759	-104.94043	EPA 200.8	Stock Res.	IML
*D, Dissolved; S, Suspended														

Ross ISR Project

35

TR Addendum 2.9-C

SEDIMENT

* Sediment Sample - Soil sample

WWC ENGINEERING
LANDOWNER WATER SAMPLING FORM
For STRATA ENERGY

Name: SW-1-SED Date: 8-25-10 Time: 0800

Landowner

Name: _____

Address _____

Phone# _____

Legal Location

Qtr/Qtr _____

SEC _____

TWN _____

RNG _____

Picture #(s) 1, 2

Stock _____

Domestic _____

SEO Permitted Facility Name: _____

Permit No. _____

Location (Decimal Degrees)

Lat _____

Long _____

Elev. _____

Water Quality

pH _____

Cond. _____

Temp. °C _____

Turbidity (ntu) _____

D.O. (mg/L) _____

Water Level (ft): Dry

% Combustible Gas: _____

Casing Height (ft): _____

Ambient Air Temp: _____

Comments: Took sample from directly above
surface water site SW-1. River is Dry

* Sediment Sample - soil

WWC ENGINEERING
LANDOWNER WATER SAMPLING FORM
For STRATA ENERGY

Name: SW-2-5ed Date: 8-25-10 Time: 1020

Landowner

Name: _____

Address _____

Phone# _____

Legal Location

Qtr/Qtr _____

SEC _____

TWN _____

RNG _____

Picture #(s) 5, 6

Stock _____

Domestic _____

SEO Permitted Facility Name: _____

Permit No. _____

Location (Decimal Degrees)

Lat _____

Long _____

Elev. _____

Water Quality

pH _____

Cond. _____

Temp. °C _____

Turbidity (ntu) _____

D.O. (mg/L) _____

Water Level (ft): _____

% Combustible Gas: _____

Casing Height (ft): _____

Ambient Air Temp: _____

Comments: Took sample @ SW-1 surface water site - River is Dry

*Sediment sample - Soil

WWC ENGINEERING
LANDOWNER WATER SAMPLING FORM
For STRATA ENERGY

Name: SW-3-SED Date: 8-25-10 Time: 1100

Landowner

Name: _____

Address _____

Phone# _____

Legal Location

Qtr/Qtr _____

SEC _____

TWN _____

RNG _____

Picture #(s) 7.8

Stock _____

Domestic _____

SEO Permitted Facility Name: _____

Permit No. _____

Location (Decimal Degrees)

Lat _____

Long _____

Elev. _____

Water Quality

pH _____

Cond. _____

Temp. °C _____

Turbidity (ntu) _____

D.O. (mg/L) _____

Water Level (ft): Dry

% Combustible Gas: _____

Casing Height (ft): _____

Ambient Air Temp: _____

Comments: Collected sample at surface water site SW-3. Creek is dry

* Sediment Sample - soil Sample

WWC ENGINEERING
LANDOWNER WATER SAMPLING FORM
For STRATA ENERGY

Name: Oshoto-Res - Sed Date: 8-25-10 Time: 1000

Landowner

Name: _____

Address _____

Phone# _____

Legal Location

Qtr/Qtr _____

SEC _____

TWN _____

RNG _____

Picture #(s) 3, 4

Stock _____

Domestic _____

SEO Permitted Facility Name: _____

Permit No. _____

Location (Decimal Degrees)

Lat _____

Long _____

Elev. _____

Water Quality

pH _____

Cond. _____

Temp. °C _____

Turbidity (ntu) _____

D.O. (mg/L) _____

Water Level (ft): Approx. 3/4 ^{full} ~~1/2~~ % Combustible Gas: _____

Casing Height (ft): _____ Ambient Air Temp: _____

Comments: Took sample at water loadout area



Inter-Mountain Labs
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

This is a **LEGAL DOCUMENT**. All shaded fields must be completed. See reverse for instructions.

131168

Ross ISR Project

Client Name <i>WWC/strata</i>		Project Identification <i>ROSS</i>		Sampler (Signature/Printed) <i>God Fuller</i>		Telephone #	
Report Address <i>WWC</i>		Contact Name <i>God Fuller</i>		ANALYSES / PARAMETERS <i>URANIUM(T)</i> <i>THORIUM 230</i> <i>RADIUM 226</i> <i>LEAD 210</i> <i>GROSS ALFA</i>			
Invoice Address <i>WWC</i>		Email <i>WWC</i>					
		Phone		Purchase Order #		Quote #	

41

ITEM	LAB ID <small>(Lab Use Only)</small>	DATE SAMPLED	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	ANALYSES / PARAMETERS					REMARKS
							URANIUM(T)	THORIUM 230	RADIUM 226	LEAD 210	GROSS ALFA	
1		8-25-10	0800	SW-1-SED	SL	1	✓	✓	✓	✓	✓	
2				OSHOTO-RES-SED								
3		8-25-10	1000	SW-2-SED	SL	1	✓	✓	✓	✓		
4												
5		8-25-10	1020	SW-2-SED	SL	1	✓	✓	✓	✓		
6												
7		8-25-10	1100	SW-3-SED	SL	1	✓	✓	✓	✓		
8												
9												
10												
11												
12												
13												
14												

TR Addendum 2.9-C

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
<i>13 201 16.7 C</i>	<i>God Fuller</i>	8-25-10	16:16	<i>Kathy Boyd</i>	8/25/10	16:17

SHIPPING INFO	MATRIX CODES	TURNAROUND TIMES	COMPLIANCE INFORMATION	ADDITIONAL REMARKS
<input type="checkbox"/> UPS <input type="checkbox"/> Fed Express <input type="checkbox"/> US Mail <input type="checkbox"/> Hand Carried <input type="checkbox"/> Other _____	Water WT <input checked="" type="checkbox"/> Soil SL Solid SD Trip Blank TB Other OT	<input checked="" type="checkbox"/> Check desired service <input type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH - 5 Working Days <input type="checkbox"/> URGENT - < 2 Working Days <i>Rush & Urgent Surcharges will be applied</i>	Compliance Monitoring? Y/N Program (SDWA, NPDES,...) PWSID / Permit # Chlorinated? Y/N Sample Disposal: Lab Client	



Date: 10/15/2010

CLIENT: Western Water Consultants
Project: Ross ISR
Lab Order: S1008487

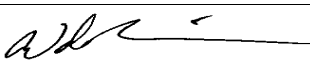
CASE NARRATIVE
Report ID: S1008487001

Samples OSHOTO-RES-SED, SW-1-SED, SW-2-SED, and SW-3-SED were received on August 26, 2010.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1998
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition
Methods indicated with the Monday, March 12, 2007 Federal Register, 40 CFR Part 122, 136 et al.

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager

Page 1 of 1



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/1/2010
Report ID: S1008487002
(Replaces S1008487001)

Project: Ross ISR
Lab ID: S1008487-001
Client Sample ID: SW-1-SED
COC: 131168

Work Order: S1008487
Collection Date: 8/25/2010 8:00:00 AM
Date Received: 8/26/2010
Sampler: Rod Fuller
Matrix: Soil

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Total Metals 3050/200.8						
Uranium	2.11	0.001		mg/Kg	10/28/2010 1846 MS	200.8
Radiochemistry - Soil						
Gross Alpha	2.8 ± 0.6	1		pCi/g	10/07/2010 1758 SH	SM 7110
Lead 210	471±6.1	1		pCi/g	10/10/2010 1239 SH	OTW01
Radium 226	1.5 ± 0.1	0.5		pCi/g	10/12/2010 1513 SH	SM 7500
Thorium230	371±58	1		pCi/g	10/27/2010 1620 WN	ACW10

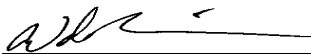
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/1/2010
Report ID: S1008487002
(Replaces S1008487001)

Project: Ross ISR
Lab ID: S1008487-002
Client Sample ID: OSHOTO-RES-SED
COC: 131168

Work Order: S1008487
Collection Date: 8/25/2010 10:00:00 AM
Date Received: 8/26/2010
Sampler: Rod Fuller
Matrix: Soil

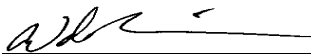
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Total Metals 3050/200.8						
Uranium	1.32	0.001		mg/Kg	09/23/2010 1137 MS	200.8
Radiochemistry - Soil						
Gross Alpha	ND	1		pCi/g	10/07/2010 1758 SH	SM 7110
Lead 210	1.7 ± 0.5	1		pCi/g	10/10/2010 1239 SH	OTW01
Radium 226	1.0 ± 0.1	0.5		pCi/g	10/12/2010 1513 SH	SM 7500
Thorium230	0.87±0.21	0.2		pCi/g	10/27/2010 1620 WN	ACW10

These results apply only to the samples tested.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL
 - O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/1/2010
Report ID: S1008487002
(Replaces S1008487001)

Project: Ross ISR
Lab ID: S1008487-003
Client Sample ID: SW-2-SED
COC: 131168

Work Order: S1008487
Collection Date: 8/25/2010 10:20:00 AM
Date Received: 8/26/2010
Sampler: Rod Fuller
Matrix: Soil

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Total Metals 3050/200.8						
Uranium	0.876	0.001		mg/Kg	09/23/2010 1140 MS	200.8
Radiochemistry - Soil						
Gross Alpha	1.1 ± 0.4	1		pCi/g	10/07/2010 1758 SH	SM 7110
Lead 210	ND	1		pCi/g	10/10/2010 1239 SH	OTW01
Radium 226	0.9 ± 0.1	0.5		pCi/g	10/12/2010 1513 SH	SM 7500
Thorium230	0.39±0.14	0.2		pCi/g	10/27/2010 1620 WN	ACW10

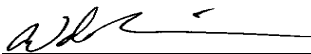
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/1/2010
Report ID: S1008487002
(Replaces S1008487001)

Project: Ross ISR
Lab ID: S1008487-004
Client Sample ID: SW-3-SED
COC: 131168

Work Order: S1008487
Collection Date: 8/25/2010 11:00:00 AM
Date Received: 8/26/2010
Sampler: Rod Fuller
Matrix: Soil

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Total Metals 3050/200.8						
Uranium	2.24	0.001		mg/Kg	09/23/2010 1142 MS	200.8
Radiochemistry - Soil						
Gross Alpha	1.6 ± 0.4	1		pCi/g	10/07/2010 1758 SH	SM 7110
Lead 210	2.1 ± 1.0	1		pCi/g	10/10/2010 1239 SH	OTW01
Radium 226	0.8 ± 0.1	0.5		pCi/g	10/12/2010 1513 SH	SM 7500
Thorium230	0.84±0.21	0.2		pCi/g	10/27/2010 1620 WN	ACW10

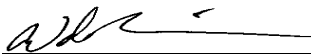
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



ANALYTICAL QC SUMMARY REPORT

Date: 10/27/2010

CLIENT: Western Water Consultants
Work Order: S1008487
Project: Ross ISR

Report ID: S1008487001

Sample ID: MB10-278	SampType: MBLK	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63863
Client ID:		Batch ID: R63863	Analysis Date: 10/7/2010 5:58:00 PM		SeqNo: 1996546
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Gross Alpha ND 1

Sample ID: LCS10-278ALPHA	SampType: LCS	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63863
Client ID:		Batch ID: R63863	Analysis Date: 10/7/2010 5:58:00 PM		SeqNo: 1996547
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Gross Alpha 38.4±1.7 1 34.5 110 50 150

Ross ISR Project

47

TR Addendum 2.9-C

- Qualifiers:**
- E Value above quantitation range
 - L Analyzed by a contract laboratory
 - O Outside the Range of Dilutions
 - H Holding times for preparation or analysis exceeded
 - M Value exceeds Monthly Ave or MCL
 - R RPD outside accepted recovery limits
 - J Analyte detected below quantitation limits
 - ND Not Detected at the Reporting Limit
 - S Spike Recovery outside accepted recovery limits



ANALYTICAL QC SUMMARY REPORT

Date: 10/27/2010

CLIENT: Western Water Consultants
Work Order: S1008487
Project: Ross ISR

Report ID: S1008487001

Sample ID: SMB10-272	SampType: MBLK	TestCode: PB210_SOIL	Units: pCi/g	Prep Date:	RunNo: 63841
Client ID:		Batch ID: 4512	Analysis Date: 10/10/2010 12:39:00 PM	SeqNo: 1996038	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	ND	1			

Sample ID: SLCS10-272	SampType: LCS	TestCode: PB210_SOIL	Units: pCi/g	Prep Date:	RunNo: 63841
Client ID:		Batch ID: 4512	Analysis Date: 10/10/2010 12:39:00 PM	SeqNo: 1996039	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	11	1	11.2		99.6 70 130

Sample ID: S1008487-003AMS	SampType: MS	TestCode: PB210_SOIL	Units: pCi/g	Prep Date:	RunNo: 63841
Client ID: SW-2-SED		Batch ID: 4512	Analysis Date: 10/10/2010 12:39:00 PM	SeqNo: 1996050	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	12	1	11.2	0.552	102 70 130

Sample ID: S1008487-004ADUP	SampType: DUP	TestCode: PB210_SOIL	Units: pCi/g	Prep Date:	RunNo: 63841
Client ID: SW-3-SED		Batch ID: 4512	Analysis Date: 10/10/2010 12:39:00 PM	SeqNo: 1996051	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	1	1			2.13 43.6 30 R

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
L Analyzed by a contract laboratory M Value exceeds Monthly Ave or MCL ND Not Detected at the Reporting Limit
O Outside the Range of Dilutions R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits



ANALYTICAL QC SUMMARY REPORT

Date: 10/27/2010

CLIENT: Western Water Consultants
Work Order: S1008487
Project: Ross ISR

Report ID: S1008487001

Ross ISR Project

Sample ID: MB-R63931	SampType: MBLK	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 63931
Client ID:		Batch ID: R63931	Analysis Date: 10/12/2010 3:13:00 PM		SeqNo: 2000396
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	ND	0.5			

Sample ID: LCS-R63931	SampType: LCS	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 63931
Client ID:		Batch ID: R63931	Analysis Date: 10/12/2010 3:13:00 PM		SeqNo: 2000397
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	5.1	0.5	9.52		54.0 50 150

49

Sample ID: S1008487-003AMS	SampType: MS	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 63931
Client ID: SW-2-SED		Batch ID: R63931	Analysis Date: 10/12/2010 3:13:00 PM		SeqNo: 2000409
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	8.0	0.5	9.52	0.892	74.8 50 150

Sample ID: S1008487-004ADUP	SampType: DUP	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 63931
Client ID: SW-3-SED		Batch ID: R63931	Analysis Date: 10/12/2010 3:13:00 PM		SeqNo: 2000411
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	0.9	0.5			0.823 14.1 20

TR Addendum 2.9-C

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
L Analyzed by a contract laboratory M Value exceeds Monthly Ave or MCL ND Not Detected at the Reporting Limit
O Outside the Range of Dilutions R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits



ANALYTICAL QC SUMMARY REPORT

Date: 10/27/2010

CLIENT: Western Water Consultants
Work Order: S1008487
Project: Ross ISR

Report ID: S1008487001

Sample ID: lcs	SampType: LCS	TestCode: TOT3050_200.8_S	Units: mg/Kg	Prep Date:	RunNo: 63250						
Client ID:		Batch ID: R63250	Analysis Date: 9/23/2010 10:34:33 AM		SeqNo: 1976148						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Uranium	0.103	0.001	0.1		103	85	115				

Ross ISR Project

50

TR Addendum 2.9-C

Qualifiers:	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	L	Analyzed by a contract laboratory	M	Value exceeds Monthly Ave or MCL	ND	Not Detected at the Reporting Limit
	O	Outside the Range of Dilutions	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits



Isotopic Thorium Case Narrative

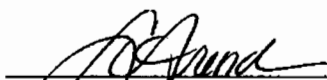
Inter-Mountain labs Western Water

Work Order Number: 1009445

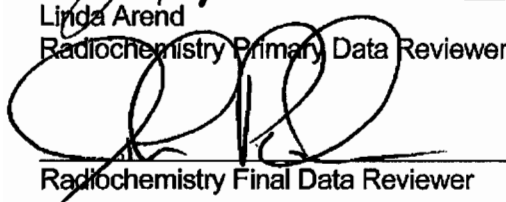
1. This report consists of the analytical results for 10 water samples received by ALS on 09/30/10.
2. These samples were prepared according to procedures SOP776R11 and SOP777R9.
3. The samples were analyzed for the presence of isotopic thorium according to procedure SOP714R12. The analyses were completed on 10/23/10.
4. The analysis results for these samples are reported in units of pCi/L. The water samples were not filtered prior to analysis.
5. Due to insufficient sample volume, a laboratory control sample duplicate (LCSD) was prepared in lieu of a prep batch duplicate.
6. ALS follows the convention outlined in ANSI N42.23 for reporting significant digits in the TPU and MDC results. ANSI N42.23 states that the TPU result should be rounded to two significant digits and that the MDC result should be rounded to the same decimal place as the TPU result. In practice, this could result in an MDC result with a reported value of 0 for samples with significant activity, including the batch laboratory control sample.
7. No anomalous situations were encountered during the preparation or analysis of these samples. All quality control criteria were met.



The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.



Linda Arend
Radiochemistry Primary Data Reviewer



Radiochemistry Final Data Reviewer

10-26-10
Date

10/26/10
Date

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

Paragon OrderNum: 1009445

Client Name: Inter-Mountain Labs

Client Project Name: Western Water

Client Project Number:

Client PO Number: 237666

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
RAD Veg #6 SW	1009445-1		WATER	24-Aug-10	15:35
RAD Veg #7 NE	1009445-2		WATER	24-Aug-10	14:10
RAD Veg #8 NW	1009445-3		WATER	24-Aug-10	14:55
RAD Veg #10 NE	1009445-4		WATER	24-Aug-10	15:30
RAD Veg #11 NE	1009445-5		WATER	24-Aug-10	15:15
RAD Veg #12 SW	1009445-6		WATER	24-Aug-10	15:35
SW-1-SED	1009445-7		WATER	25-Aug-10	8:00
Oshoto-RES-S	1009445-8		WATER	25-Aug-10	10:00
SW-2-SED	1009445-9		WATER	25-Aug-10	10:20
SW-3-SED	1009445-10		WATER	25-Aug-10	11:00

1609445

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, WY 82801
Phone 800-828-1097 FAX 307-672-6053

Relinquished by: Kathy Bail
Date/Time: 9/28/10 14:50
Received by Lab: Kimberly
Date/Time: 9/30/10 12:10

CHAIN OF CUSTODY RECORD

Indicate Client is: Western Water

Sent to: ALS Laboratory Group
Ft. Collins CO 970 490 1511

P. O.: 2376666

①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫

Sample ID	IML Lab Number	Sample Date	Sample Time	Number of Containers	Sample Matrix	Analysis
RAD Veg #6 SW	S1008430-001	8/24/2010	15:35	1	water	Thorium 230 Total for all samples
RAD Veg #7 NE	S1008430-002	8/24/2010	14:10	1	water	
RAD Veg #8 NW	S1008430-003	8/24/2010	14:55	1	water	
RAD Veg #10 NE	S1008430-004	8/24/2010	15:30	1	water	
RAD Veg #11 NE	S1008430-005	8/24/2010	15:15	1	water	
RAD Veg #12 SW	S1008430-006	8/24/2010	15:35	1	water	
SW-1-SED	S1008487-001	8/25/2010	8:00	1	water	
Oshoto-RES-S	S1008487-002	8/25/2010	10:00	1	water	
SW-2-SED	S1008487-003	8/25/2010	10:20	1	water	
SW-3-SED	S1008487-004	8/25/2010	11:00	1	water	
						e-mail copy of results to: waden@imlinc.com
						Thank You
						Invoice to IML /Std Turnaround



CONDITION OF SAMPLE UPON RECEIPT FORM

Client: IML

Workorder No: 1009445

Project Manager: ARW

Initials: LAS Date: 9/30/10

1. Does this project require any special handling in addition to standard Paragon procedures?		YES	<input checked="" type="radio"/> NO
2. Are custody seals on shipping containers intact?	<input checked="" type="radio"/> NONE	YES	NO
3. Are Custody seals on sample containers intact?	<input checked="" type="radio"/> NONE	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<input checked="" type="radio"/> YES	NO
5. Are the COC and bottle labels complete and legible?		<input checked="" type="radio"/> YES	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<input checked="" type="radio"/> YES	NO
7. Were airbills / shipping documents present and/or removable?	DROP OFF	<input checked="" type="radio"/> YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A	<input checked="" type="radio"/> YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	<input checked="" type="radio"/> N/A	YES	NO
10. Is there sufficient sample for the requested analyses?		<input checked="" type="radio"/> YES	NO
11. Were all samples placed in the proper containers for the requested analyses?		<input checked="" type="radio"/> YES	NO
12. Are all samples within holding times for the requested analyses?		<input checked="" type="radio"/> YES	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		<input checked="" type="radio"/> YES	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: _____ < green pea _____ > green pea	<input checked="" type="radio"/> N/A	YES	NO
15. Do perchlorate LCMS-MS samples have headspace? (at least 1/3 of container required)	<input checked="" type="radio"/> N/A	YES	NO
16. Were samples checked for and free from the presence of residual chlorine? (Applicable when PM has indicated samples are from a chlorinated water source; note if field preservation with sodium thiosulfate was not observed.)	<input checked="" type="radio"/> N/A	YES	NO
17. Were the samples shipped on ice?		YES	<input checked="" type="radio"/> NO
18. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: #2 #4	<input checked="" type="radio"/> RAD ONLY	YES	<input checked="" type="radio"/> NO
Cooler #: <u>1</u>			
Temperature (°C): <u>Amb</u>			
No. of custody seals on cooler: <u>0</u>			
External µR/hr reading: <u>13</u>			
Background µR/hr reading: <u>11</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO / NA (if no, see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16

If applicable, was the client contacted? YES / NO / NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: [Signature] 10/1/10

*IR Gun #2: Oakton, SN 29922500201-0066

*IR Gun #4: Oakton, SN 2372220101-0002

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Method Blank Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009445

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS101019-1MB

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 19-Oct-10
Date Prepared: 19-Oct-10
Date Analyzed: 23-Oct-10

Prep Batch: AS101019-1
QCBatchID: AS101019-1-1
Run ID: AS101019-1TH
Count Time: 800 minutes

Final Aliquot: 1000 ml
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	-0.039 +/- 0.046	0.093	0.2	U

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	3.24	pCi/l	73.5	30 - 110 %	

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.

Abbreviations:

TPU - Total Propagated Uncertainty
MDC - Minimum Detectable Concentration
BDL - Below Detection Limit

M - Requested MDC not met.
B - Analyte concentration greater than MDC.
B3 - Analyte concentration greater than MDC but less than Requested MDC.

Data Package ID: TH1009445-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Laboratory Control Sample(s)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009445

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS101019-1LCS

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 19-Oct-10
Date Prepared: 19-Oct-10
Date Analyzed: 23-Oct-10

Prep Batch: AS101019-1
QCBatchID: AS101019-1-1
Run ID: AS101019-1TH
Count Time: 800 minutes

Final Aliquot: 1000 ml
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
14269-63-7	Th-230	5.00 +/- 0.83	0.10	5.11	97.8	85 - 121	P

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.75	pCi/l	62.3	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: TH1009445-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Laboratory Control Sample(s)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009445

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS101019-1LCSD

Sample Matrix: WATER
 Prep SOP: PAI 777 Rev 9
 Date Collected: 19-Oct-10
 Date Prepared: 19-Oct-10
 Date Analyzed: 23-Oct-10

Prep Batch: AS101019-1
 QCBatchID: AS101019-1-1
 Run ID: AS101019-1TH
 Count Time: 800 minutes

Final Aliquot: 1000 ml
 Result Units: pCi/l
 File Name: Spectrum #1

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
14269-63-7	Th-230	5.14 +/- 0.85	0.10	5.11	101	85 - 121	P

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.85	pCi/l	64.6	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: TH1009445-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Duplicate Sample Results (DER)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009445

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	
Lab ID:	AS101019-1LCSD

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 19-Oct-10
Date Prepared: 19-Oct-10
Date Analyzed: 23-Oct-10

Prep Batch: AS101019-1
QCBatchID: AS101019-1-1
Run ID: AS101019-1TH
Count Time: 800 minutes

Final Aliquot: 1000 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Analyte	Sample				Duplicate				DER	DER Lim
		Result +/-	2 s TPU	MDC	Flags	Result +/-	2 s TPU	MDC	Flags		
14269-63-7	Th-230	5.00 +/-	0.83	0.10	P	5.14 +/-	0.85	0.10	P	0.122	2.13

Comments:

Duplicate Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
- Y2 - Chemical Yield outside default limits.
- W - DER is greater than Warning Limit of 1.42
- D - DER is greater than Control Limit of 2.13
- LT - Result is less than Request MDC, greater than sample specific MDC
- M - Requested MDC not met.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS, Matrix Spike Recovery within control limits.
- N - Matrix Spike Recovery outside control limits

Abbreviations:

- TPU - Total Propagated Uncertainty
- DER - Duplicate Error Ratio
- BDL - Below Detection Limit
- NR - Not Reported

Data Package ID: TH1009445-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009445

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	SW-1-SED
Lab ID:	1009445-7

Sample Matrix: WATER

Prep SOP: PAI 777 Rev 9

Date Collected: 25-Aug-10

Date Prepared: 19-Oct-10

Date Analyzed: 23-Oct-10

Prep Batch: AS101019-1

QC Batch ID: AS101019-1-1

Run ID: AS101019-1TH

Count Time: 800 minutes

Report Basis: Unfiltered

Final Aliquot: 500 ml

Prep Basis: Unfiltered

Moisture(%): NA

Result Units: pCi/l

File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	371 +/- 58	0	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	8.820	7.4	pCi/l	84.2	30 - 110 %	

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: TH1009445-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009445

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	Oshoto-RES-S
Lab ID:	1009445-8

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 25-Aug-10
Date Prepared: 19-Oct-10
Date Analyzed: 23-Oct-10

Prep Batch: AS101019-1
QCBatchID: AS101019-1-1
Run ID: AS101019-1TH
Count Time: 800 minutes
Report Basis: Unfiltered

Final Aliquot: 500 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.87 +/- 0.21	0.17	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	8.820	7.2	pCi/l	81.7	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1009445-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009445

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	SW-2-SED
Lab ID:	1009445-9

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 25-Aug-10
Date Prepared: 19-Oct-10
Date Analyzed: 23-Oct-10

Prep Batch: AS101019-1
QCBatchID: AS101019-1-1
Run ID: AS101019-1TH
Count Time: 800 minutes
Report Basis: Unfiltered

Final Aliquot: 500 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.39 +/- 0.14	0.18	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	8.820	7.5	pCi/l	85.4	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1009445-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009445

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	SW-3-SED
Lab ID:	1009445-10

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 25-Aug-10
Date Prepared: 19-Oct-10
Date Analyzed: 23-Oct-10

Prep Batch: AS101019-1
QCBatchID: AS101019-1-1
Run ID: AS101019-1TH
Count Time: 800 minutes
Report Basis: Unfiltered

Final Aliquot: 500 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.84 +/- 0.21	0.18	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	8.820	7.0	pCi/l	79.0	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1009445-1

RADIONUCLIDE PARTICULATES IN AIR



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 10/6/2010
Report ID: S1008050001

Project:
Lab ID: S1008050-001
Client Sample ID: Met Filter 1st Qtr Composite
Comment: Digest All Filters Into One Extract

Work Order: S1008050
Collection Date: 4/5/2010
Date Received: 8/4/2010
Sampler:
Matrix: Filter

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Filter						
Lead 210	12.4±1.1	0.2		pCi/Filter	08/27/2010 1759 SH	
Radium 226	ND	0.2		pCi/Filter	09/17/2010 2003 SH	
Thorium-230	ND	0.2	L	pCi/Filter	09/16/2010 000 WN	
Uranium	ND	0.1		µg/Filter	08/16/2010 1140 MS	

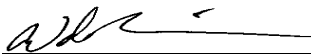
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 10/6/2010
Report ID: S1008050001

Project:
Lab ID: S1008050-002
Client Sample ID: Southwest Filter 1st Qtr Composite
Comment: Digest All Filters Into One Extract

Work Order: S1008050
Collection Date: 4/5/2010
Date Received: 8/4/2010
Sampler:
Matrix: Filter

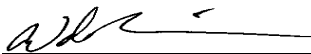
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Filter						
Lead 210	14.0±1.1	0.2		pCi/Filter	08/27/2010 1759 SH	
Radium 226	ND	0.2		pCi/Filter	09/17/2010 2003 SH	
Thorium-230	ND	0.2	L	pCi/Filter	09/16/2010 000 WN	
Uranium	0.4	0.1		µg/Filter	08/16/2010 1147 MS	

These results apply only to the samples tested.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL
 - O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 10/6/2010
Report ID: S1008050001

Project:
Lab ID: S1008050-003
Client Sample ID: South Filter 1st Qtr Compoiste
Comment: Digest All Filters Into One Extract

Work Order: S1008050
Collection Date: 4/5/2010
Date Received: 8/4/2010
Sampler:
Matrix: Filter

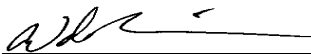
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Filter						
Lead 210	14.9±1.1	0.2		pCi/Filter	08/27/2010 1759 SH	
Radium 226	ND	0.2		pCi/Filter	09/17/2010 2003 SH	
Thorium-230	ND	0.2	L	pCi/Filter	09/16/2010 000 WN	
Uranium	ND	0.1		µg/Filter	08/16/2010 1149 MS	

These results apply only to the samples tested.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL
 - O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 10/6/2010
Report ID: S1008050001

Project:
Lab ID: S1008050-004
Client Sample ID: East Filter 1st Qtr Composite
Comment: Digest All Filters Into One Extract

Work Order: S1008050
Collection Date: 4/5/2010
Date Received: 8/4/2010
Sampler:
Matrix: Filter

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Filter						
Lead 210	12.8±1.0	0.2		pCi/Filter	08/27/2010 1759 SH	
Radium 226	ND	0.2		pCi/Filter	09/17/2010 2003 SH	
Thorium-230	ND	0.2	L	pCi/Filter	09/16/2010 000 WN	
Uranium	ND	0.1		µg/Filter	08/16/2010 1151 MS	

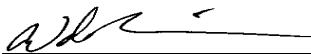
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 10/6/2010
Report ID: S1008050001

Project:
Lab ID: S1008050-005
Client Sample ID: Office Filter 1st Qtr Composite
Comment: Digest All Filters Into One Extract

Work Order: S1008050
Collection Date: 4/5/2010
Date Received: 8/4/2010
Sampler:
Matrix: Filter

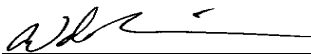
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Filter						
Lead 210	33.2±1.6	0.2		pCi/Filter	08/27/2010 1759 SH	
Radium 226	ND	0.2		pCi/Filter	09/17/2010 2003 SH	
Thorium-230	ND	0.2	L	pCi/Filter	09/16/2010 000 WN	
Uranium	ND	0.1		µg/Filter	08/16/2010 1154 MS	

These results apply only to the samples tested.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL
 - O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 10/6/2010
Report ID: S1008050001

Project:
Lab ID: S1008050-006
Client Sample ID: Met Filter 2nd Qtr Composite
Comment: Digest All Filters Into One Extract

Work Order: S1008050
Collection Date: 7/9/2010
Date Received: 8/4/2010
Sampler:
Matrix: Filter

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Filter						
Lead 210	4.5±0.7	0.2	.	pCi/Filter	08/27/2010 1759 SH	
Radium 226	ND	0.2		pCi/Filter	09/17/2010 2003 SH	
Thorium-230	ND	0.2	L	pCi/Filter	09/16/2010 000 WN	
Uranium	ND	0.1		µg/Filter	08/16/2010 1201 MS	

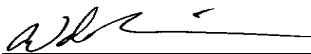
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 10/6/2010
Report ID: S1008050001

Project:
Lab ID: S1008050-007
Client Sample ID: Southwest Filter 2nd Qtr Composite
Comment: Digest All Filters Into One Extract

Work Order: S1008050
Collection Date: 7/9/2010
Date Received: 8/4/2010
Sampler:
Matrix: Filter

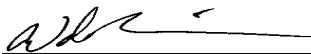
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Filter						
Lead 210	5.2±0.7	0.2		pCi/Filter	08/27/2010 1759 SH	
Radium 226	ND	0.2		pCi/Filter	09/17/2010 2003 SH	
Thorium-230	ND	0.2	L	pCi/Filter	09/16/2010 000 WN	
Uranium	0.6	0.1		µg/Filter	08/16/2010 1203 MS	

These results apply only to the samples tested.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL
 - O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 10/6/2010
Report ID: S1008050001

Project:
Lab ID: S1008050-008
Client Sample ID: South Filter 2nd Qtr Composite
Comment: Digest All Filters Into One Extract

Work Order: S1008050
Collection Date: 7/9/2010
Date Received: 8/4/2010
Sampler:
Matrix: Filter

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Filter						
Lead 210	4.9±0.7	0.2		pCi/Filter	08/27/2010 1759 SH	
Radium 226	ND	0.2		pCi/Filter	09/17/2010 2003 SH	
Thorium-230	ND	0.2	L	pCi/Filter	09/16/2010 000 WN	
Uranium	ND	0.1		µg/Filter	08/16/2010 1205 MS	

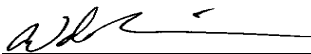
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 10/6/2010
Report ID: S1008050001

Project:
Lab ID: S1008050-009
Client Sample ID: East Filter 2nd Qtr Composite
Comment: Digest All Filters Into One Extract

Work Order: S1008050
Collection Date: 7/9/2010
Date Received: 8/4/2010
Sampler:
Matrix: Filter

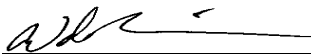
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Filter						
Lead 210	4.8±0.7	0.2		pCi/Filter	08/27/2010 1759 SH	
Radium 226	ND	0.2		pCi/Filter	09/17/2010 2003 SH	
Thorium-230	ND	0.2	L	pCi/Filter	09/16/2010 000 WN	
Uranium	ND	0.1		µg/Filter	08/16/2010 1208 MS	

These results apply only to the samples tested.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL
 - O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 10/6/2010
Report ID: S1008050001

Project:
Lab ID: S1008050-010
Client Sample ID: Office Filter 2nd Qtr Composite
Comment: Digest All Filters Into One Extract

Work Order: S1008050
Collection Date: 7/9/2010
Date Received: 8/4/2010
Sampler:
Matrix: Filter

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Filter						
Lead 210	15.1±1.1	0.2		pCi/Filter	08/27/2010 1759 SH	
Radium 226	ND	0.2		pCi/Filter	09/17/2010 2003 SH	
Thorium-230	ND	0.2	L	pCi/Filter	09/16/2010 000 WN	
Uranium	0.6	0.1		µg/Filter	08/16/2010 1210 MS	

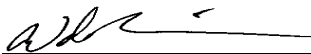
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager

Ross ISR Project

75

TR Addendum 2.9-C

Air Sampler:	Oshoto		Met Station		Southwest		South		East	
Sample Date	Elapsed Time (hr)	Total Liter Volume	Elapsed Time (hr)	Total Liter Volume	Elapsed Time (hr)	Total Liter Volume	Elapsed Time (hr)	Total Liter Volume	Elapsed Time (hr)	Total Liter Volume
1/12/2010			164.05	245,316	167.43	253,419			167.67	255,034
1/15/2010							236.35	356,351		
1/20/2010	191.80	834,330	190.45	286,310	189.42	287,304	119.47	181,940	188.87	277,400
1/26/2010	145.25	610,050	144.98	218,791	144.70	220,541	144.87	220,709	144.77	196,741
2/4/2010	192.27	807,520	216.07	320,204	216.03	320,687	216.10	326,533	216.05	289,868
2/11/2010	169.50	711,900	168.22	253,155	170.35	250,033	171.88	261,131	171.55	225,119
2/18/2010	170.08	714,350	169.62	241,544	169.73	256,011	168.00	255,133	168.45	225,581
2/24/2010	139.50	577,530	139.37	197,932	139.23	209,416	139.37	212,158	139.27	190,713
3/3/2010	168.10	700,977	168.02	234,784	168.02	243,658	167.88	254,746	168.00	221,130
3/11/2010	183.80	716,820	195.78	260,299	195.97	268,339	195.77	283,544	195.97	250,130
3/19/2010	204.42	846,285	191.28	250,516	191.00	270,162	191.28	286,197	191.30	245,643
3/26/2010	164.40	680,616	164.33	210,733	164.58	230,063	164.38	233,851	164.33	204,717
4/5/2010	241.73	986,272	241.67	310,662	241.70	355,025	241.70	336,673	241.73	302,262
Quarter #1		8,186,650		3,030,246		3,164,658		3,208,966		2,884,338
4/16/2010	269.12	1,097,996	269.12	329,654	269.00	376,162	268.92	361,563	268.97	330,629
4/22/2010	140.20	567,810	139.32	164,522	136.45	191,955	137.10	182,284	137.63	160,188
4/30/2010	187.87	789,040	188.52	221,214	191.40	257,061	190.80	248,648	190.17	221,819
5/10/2010	240.95	1,011,990	89.28	101,491	240.73	325,971	240.73	313,708	240.75	278,356
5/17/2010	172.12	722,890	155.65	173,272	172.17	234,635	172.13	226,194	172.15	197,895
5/28/2010	263.50	1,106,700	263.47	308,462	263.70	348,251	263.70	339,976	263.70	296,830
6/4/2010	164.28	689,990	164.18	184,650	164.12	226,505	164.17	212,937	164.17	193,673
6/11/2010	168.22	706,510	168.27	202,720	168.13	226,816	168.23	220,133	168.22	191,375
6/18/2010	171.15	744,503	171.70	207,424	171.25	234,524	0.00	0	171.17	196,861
6/25/2010	167.32	702,730	166.30	193,078	166.25	225,619	166.27	216,391	166.25	189,409
7/1/2010	140.27	0	141.20	161,104	141.25	188,227	141.27	108,232	141.25	158,591
7/9/2010	198.28	832,790	197.90	224,421	197.90	269,675	198.07	259,797	197.98	224,805
Quarter #2		8,972,949		2,472,012		3,105,401		2,689,863		2,640,431



ANALYTICAL QC SUMMARY REPORT

Date: 12/23/2010

CLIENT: Western Water Consultants

Report ID: S1008050001

Work Order: S1008050

Project:

Ross ISR Project

Sample ID: Cont Cal Blank	SampType: MBLK	TestCode: ME_200.8_U_F	Units: µg/Filter	Prep Date:	RunNo: 62031
Client ID:		Batch ID: R62031	Analysis Date: 8/16/2010 11:56:30 AM		SeqNo: 1941173
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	ND	0.1			

Sample ID: Ics	SampType: LCS	TestCode: ME_200.8_U_F	Units: µg/Filter	Prep Date:	RunNo: 62031
Client ID:		Batch ID: R62031	Analysis Date: 8/16/2010 11:33:08 AM		SeqNo: 1941166
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	95.1	0.1	100		95.1 85 115

76

Sample ID: S1008050-001A	SampType: DUP	TestCode: ME_200.8_U_F	Units: µg/Filter	Prep Date:	RunNo: 62031
Client ID: Met Filter 1st Qtr Composite		Batch ID: R62031	Analysis Date: 8/16/2010 11:42:30 AM		SeqNo: 1941168
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	ND	0.1			ND 0 20

TR Addendum 2.9-C

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	L Analyzed by a contract laboratory	M Value exceeds Monthly Ave or MCL
	ND Not Detected at the Reporting Limit	O Outside the Range of Dilutions	R RPD outside accepted recovery limits
	S Spike Recovery outside accepted recovery limits		



ANALYTICAL QC SUMMARY REPORT

Date: 12/23/2010

CLIENT: Western Water Consultants

Report ID: S1008050001

Work Order: S1008050

Project:

Ross ISR Project

Sample ID: MB10-228	SampType: MBLK	TestCode: RAD_PB210_F	Units: µCi/Filter	Prep Date:	RunNo: 63239
Client ID:		Batch ID: R63239	Analysis Date: 8/27/2010 5:59:00 PM		SeqNo: 1975845
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	ND	0.2			

Sample ID: LCS-10-228 PB-210	SampType: LCS	TestCode: RAD_PB210_F	Units: µCi/Filter	Prep Date:	RunNo: 63239
Client ID:		Batch ID: R63239	Analysis Date: 8/27/2010 5:59:00 PM		SeqNo: 1975846
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	9.0 ± 1.0	0.2	11		85.7 70 130

77

Sample ID: MB10-245	SampType: MBLK	TestCode: RAD_RA226_F	Units: pCi/Filter	Prep Date:	RunNo: 63591
Client ID:		Batch ID: R63591	Analysis Date: 9/17/2010 8:03:00 PM		SeqNo: 1988363
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	ND	0.2			

Sample ID: LCS10-245	SampType: LCS	TestCode: RAD_RA226_F	Units:	Prep Date:	RunNo: 63591
Client ID:		Batch ID: R63591	Analysis Date: 9/17/2010 8:03:00 PM		SeqNo: 1988364
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	5.2	0.2	5		103 70 130

TR Addendum 2.9-C

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	L Analyzed by a contract laboratory	M Value exceeds Monthly Ave or MCL
	ND Not Detected at the Reporting Limit	O Outside the Range of Dilutions	R RPD outside accepted recovery limits
	S Spike Recovery outside accepted recovery limits		

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Method Blank Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1008222
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Lab ID: AS100909-9MB	Sample Matrix: WATER Prep SOP: PAI 777 Rev 9 Date Collected: 13-Sep-10 Date Prepared: 13-Sep-10 Date Analyzed: 27-Sep-10	Prep Batch: AS100909-9 QCBatchID: AS100909-9-1 Run ID: AS100909-9TX Count Time: 800 minutes	Final Aliquot: 1000 ml Result Units: pCi/l File Name: Spectrum #1
----------------------	--	--	---

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.045 +/- 0.077	0.135	0.2	U

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	9.271	5.81	pCi/l	62.7	30 - 110 %	

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.

Abbreviations:

TPU - Total Propagated Uncertainty
MDC - Minimum Detectable Concentration
BDL - Below Detection Limit

M - Requested MDC not met.
B - Analyte concentration greater than MDC.
B3 - Analyte concentration greater than MDC but less than Requested MDC.

Data Package ID: TH1008222-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Laboratory Control Sample(s)

Lab Name: ALS Environmental -- FC

Work Order Number: 1008222

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS100909-9LCS	Sample Matrix: WATER Prep SOP: PAI 777 Rev 9 Date Collected: 13-Sep-10 Date Prepared: 13-Sep-10 Date Analyzed: 16-Sep-10	Prep Batch: AS100909-9 QCBatchID: AS100909-9-1 Run ID: AS100909-9TH Count Time: 360 minutes	Final Aliquot: 1000 ml Result Units: pCi/l File Name: Spectrum #1
-----------------------	--	--	---

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
14269-63-7	Th-230	9.6 +/- 1.6	0.2	10.2	93.7	85 - 121	P,M3

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	9.271	4.92	pCi/l	53.1	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: TH1008222-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Laboratory Control Sample(s)

Lab Name: ALS Environmental -- FC

Work Order Number: 1008222

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS100909-9LCSD	Sample Matrix: WATER Prep SOP: PAI 777 Rev 9 Date Collected: 13-Sep-10 Date Prepared: 13-Sep-10 Date Analyzed: 16-Sep-10	Prep Batch: AS100909-9 QCBatchID: AS100909-9-1 Run ID: AS100909-9TH Count Time: 360 minutes	Final Aliquot: 1000 ml Result Units: pCi/l File Name: Spectrum #1
------------------------	--	--	---

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
14269-63-7	Th-230	10.0 +/- 1.7	0.2	10.2	97.4	85 - 121	P,M3

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	9.271	5.13	pCi/l	55.3	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: TH1008222-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Duplicate Sample Results (DER)

Lab Name: ALS Environmental -- FC

Work Order Number: 1008222

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	
Lab ID:	AS100909-9LCSD

Sample Matrix: WATER

Prep SOP: PAI 777 Rev 9

Date Collected: 13-Sep-10

Date Prepared: 13-Sep-10

Date Analyzed: 16-Sep-10

Prep Batch: AS100909-9

QCBatchID: AS100909-9-1

Run ID: AS100909-9TH

Count Time: 360 minutes

Final Aliquot: 1000 ml

Prep Basis: Unfiltered

Moisture(%): NA

Result Units: pCi/l

File Name: Spectrum #1

CASNO	Analyte	Sample				Duplicate				DER	DER Lim
		Result +/-	2 s TPU	MDC	Flags	Result +/-	2 s TPU	MDC	Flags		
14269-63-7	Th-230	9.6 +/-	1.6	0.2	P,M3	10.0 +/-	1.7	0.2	P,M3	0.16	2.13

Comments:

Duplicate Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
- Y2 - Chemical Yield outside default limits.
- W - DER is greater than Warning Limit of 1.42
- D - DER is greater than Control Limit of 2.13
- LT - Result is less than Request MDC, greater than sample specific MDC
- M - Requested MDC not met.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS, Matrix Spike Recovery within control limits.
- N - Matrix Spike Recovery outside control limits

Abbreviations:

- TPU - Total Propagated Uncertainty
- DER - Duplicate Error Ratio
- BDL - Below Detection Limit
- NR - Not Reported

Data Package ID: TH1008222-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1008222
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	Metal Filter 1st Qtr
Lab ID:	1008222-1

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 05-Apr-10
Date Prepared: 13-Sep-10
Date Analyzed: 21-Sep-10

Prep Batch: AS100909-9
QCBatchID: AS100909-9-1
Run ID: AS100909-9TH
Count Time: 420 minutes
Report Basis: Unfiltered

Final Aliquot: 1000 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	-0.025 +/- 0.088	0.191	0.2	U

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	9.271	6.34	pCi/l	68.4	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1008222-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1008222
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	Southwest Filter 1st Qtr
Lab ID:	1008222-2

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 05-Apr-10
Date Prepared: 13-Sep-10
Date Analyzed: 21-Sep-10

Prep Batch: AS100909-9
QCBatchID: AS100909-9-1
Run ID: AS100909-9TH
Count Time: 420 minutes
Report Basis: Unfiltered

Final Aliquot: 1000 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	-0.141 +/- 0.077	0.199	0.2	U

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	9.271	5.89	pCi/l	63.5	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1008222-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1008222
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	South Filter 1st Qtr
Lab ID:	1008222-3

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 05-Apr-10
Date Prepared: 13-Sep-10
Date Analyzed: 21-Sep-10

Prep Batch: AS100909-9
QCBatchID: AS100909-9-1
Run ID: AS100909-9TH
Count Time: 420 minutes
Report Basis: Unfiltered

Final Aliquot: 1000 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	-0.068 +/- 0.083	0.193	0.2	U

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	9.271	6.31	pCi/l	68.1	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1008222-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1008222

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	East Filter 1st Qtr
Lab ID:	1008222-4

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 05-Apr-10
Date Prepared: 13-Sep-10
Date Analyzed: 21-Sep-10

Prep Batch: AS100909-9
QCBatchID: AS100909-9-1
Run ID: AS100909-9TH
Count Time: 420 minutes
Report Basis: Unfiltered

Final Aliquot: 1000 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	-0.105 +/- 0.079	0.193	0.2	U

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	9.271	5.93	pCi/l	64.0	30 - 110 %	

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: TH1008222-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1008222
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	Office Filter 1st Qtr
Lab ID:	1008222-5

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 05-Apr-10
Date Prepared: 13-Sep-10
Date Analyzed: 23-Sep-10

Prep Batch: AS100909-9
QCBatchID: AS100909-9-1
Run ID: AS100909-9TH
Count Time: 800 minutes
Report Basis: Unfiltered

Final Aliquot: 1000 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	-0.149 +/- 0.069	0.144	0.2	U

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	9.271	5.50	pCi/l	59.3	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1008222-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
 Work Order Number: 1008222
 Client Name: Inter-Mountain Labs
 ClientProject ID: Western Water

Field ID:	Metal Filter 2nd Qtr
Lab ID:	1008222-6

Sample Matrix: WATER
 Prep SOP: PAI 777 Rev 9
 Date Collected: 05-Apr-10
 Date Prepared: 13-Sep-10
 Date Analyzed: 21-Sep-10

Prep Batch: AS100909-9
 QCBatchID: AS100909-9-1
 Run ID: AS100909-9TH
 Count Time: 420 minutes
 Report Basis: Unfiltered

Final Aliquot: 1000 ml
 Prep Basis: Unfiltered
 Moisture(%): NA
 Result Units: pCi/l
 File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.032 +/- 0.096	0.194	0.2	U

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	9.271	6.12	pCi/l	66.0	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1008222-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1008222

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	Southwest Filter 2nd Qtr
Lab ID:	1008222-7

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 09-Jul-10
Date Prepared: 13-Sep-10
Date Analyzed: 24-Sep-10

Prep Batch: AS100909-9
QCBatchID: AS100909-9-1
Run ID: AS100909-9TH
Count Time: 800 minutes
Report Basis: Unfiltered

Final Aliquot: 1000 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	-0.123 +/- 0.077	0.158	0.2	U

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	9.271	5.08	pCi/l	54.8	30 - 110 %	

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: TH1008222-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
 Work Order Number: 1008222
 Client Name: Inter-Mountain Labs
 ClientProject ID: Western Water

Field ID:	South Filter 2nd Qtr
Lab ID:	1008222-8

Sample Matrix: WATER
 Prep SOP: PAI 777 Rev 9
 Date Collected: 09-Jul-10
 Date Prepared: 13-Sep-10
 Date Analyzed: 24-Sep-10

Prep Batch: AS100909-9
 QCBatchID: AS100909-9-1
 Run ID: AS100909-9TH
 Count Time: 800 minutes
 Report Basis: Unfiltered

Final Aliquot: 1000 ml
 Prep Basis: Unfiltered
 Moisture(%): NA
 Result Units: pCi/l
 File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	-0.047 +/- 0.089	0.171	0.2	U

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	9.271	4.24	pCi/l	45.7	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1008222-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1008222
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	East Filter 2nd Qtr
Lab ID:	1008222-9

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 09-Jul-10
Date Prepared: 13-Sep-10
Date Analyzed: 21-Sep-10

Prep Batch: AS100909-9
QCBatchID: AS100909-9-1
Run ID: AS100909-9TH
Count Time: 420 minutes
Report Basis: Unfiltered

Final Aliquot: 1000 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	-0.065 +/- 0.086	0.198	0.2	U

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	9.271	5.97	pCi/l	64.4	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1008222-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1008222
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	Office Filter 2nd Qtr
Lab ID:	1008222-10

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 09-Jul-10
Date Prepared: 13-Sep-10
Date Analyzed: 21-Sep-10

Prep Batch: AS100909-9
QCBatchID: AS100909-9-1
Run ID: AS100909-9TH
Count Time: 420 minutes
Report Basis: Unfiltered

Final Aliquot: 1000 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	-0.014 +/- 0.086	0.184	0.2	U

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	9.271	6.8	pCi/l	73.5	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1008222-1



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 12/9/2010
Report ID: S1010161001

Project:
Lab ID: S1010161-001
Client Sample ID: Office

Work Order: S1010161
Collection Date: 10/8/2010
Date Received: 10/13/2010
Sampler:
Matrix: Filter

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Filter						
Lead 210	121 ± 6.9	0.2		pCi/Filter	11/10/2010 1113 SH	
Radium 226	ND	0.2		pCi/Filter	11/04/2010 1717 SH	
Thorium-230	0.4 ± 0.3	0.2		pCi/Filter	11/08/2010 1124 WL	
Uranium	0.7	0.1		µg/Filter	10/25/2010 1637 MS	

These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: Karen A Secor
Karen Secor, Soil Lab Supervisor



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 12/9/2010
Report ID: S1010161001

Project:
Lab ID: S1010161-002
Client Sample ID: Met Station

Work Order: S1010161
Collection Date: 10/8/2010
Date Received: 10/13/2010
Sampler:
Matrix: Filter

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Filter						
Lead 210	13.3 ± 2.9	0.2		pCi/Filter	11/10/2010 1113 SH	
Radium 226	ND	0.2		pCi/Filter	11/04/2010 1717 SH	
Thorium-230	ND	0.2		pCi/Filter	11/08/2010 1124 WL	
Uranium	1.0	0.1		µg/Filter	10/25/2010 1646 MS	

These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: Karen A Secor
Karen Secor, Soil Lab Supervisor



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 12/9/2010
Report ID: S1010161001

Project:
Lab ID: S1010161-003
Client Sample ID: Southwest

Work Order: S1010161
Collection Date: 10/8/2010
Date Received: 10/13/2010
Sampler:
Matrix: Filter

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Filter						
Lead 210	27.1 ± 3.6	0.2		pCi/Filter	11/10/2010 1113 SH	
Radium 226	ND	0.2		pCi/Filter	11/04/2010 1717 SH	
Thorium-230	ND	0.2		pCi/Filter	11/08/2010 1124 WL	
Uranium	ND	0.1		µg/Filter	10/25/2010 1649 MS	

These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: Karen A Secor
Karen Secor, Soil Lab Supervisor



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 12/9/2010
Report ID: S1010161001

Project:
Lab ID: S1010161-004
Client Sample ID: South

Work Order: S1010161
Collection Date: 10/8/2010
Date Received: 10/13/2010
Sampler:
Matrix: Filter

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Filter						
Lead 210	26.9 ± 3.7	0.2		pCi/Filter	11/10/2010 1353 SH	
Radium 226	ND	0.2		pCi/Filter	11/04/2010 1717 SH	
Thorium-230	0.3 ± 0.3	0.2		pCi/Filter	11/08/2010 1124 WL	
Uranium	ND	0.1		µg/Filter	10/25/2010 1652 MS	

These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: Karen A Secor
Karen Secor, Soil Lab Supervisor



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 12/9/2010
Report ID: S1010161001

Project:
Lab ID: S1010161-005
Client Sample ID: East

Work Order: S1010161
Collection Date: 10/8/2010
Date Received: 10/13/2010
Sampler:
Matrix: Filter

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Filter						
Lead 210	30.7 ± 4.0	0.2		pCi/Filter	11/10/2010 1353 SH	
Radium 226	ND	0.2		pCi/Filter	11/04/2010 1717 SH	
Thorium-230	ND	0.2		pCi/Filter	11/08/2010 1124 WL	
Uranium	ND	0.1		µg/Filter	10/25/2010 1656 MS	

These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: Karen A Secor
Karen Secor, Soil Lab Supervisor



ANALYTICAL QC SUMMARY REPORT

Date: 12/23/2010

CLIENT: Western Water Consultants

Report ID: S1010161001

Work Order: S1010161

Project:

Ross ISR Project

Sample ID: Cont Cal Blank	SampType: MBLK	TestCode: ME_200.8_U_F	Units: µg/Filter	Prep Date:	RunNo: 64306
Client ID:		Batch ID: R64306	Analysis Date: 10/25/2010 5:05:20 PM	SeqNo: 2010614	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	ND	0.1			

Sample ID: Ics	SampType: LCS	TestCode: ME_200.8_U_F	Units: µg/Filter	Prep Date:	RunNo: 64306
Client ID:		Batch ID: R64306	Analysis Date: 10/25/2010 3:19:55 PM	SeqNo: 2010606	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	97.6	0.1	100		97.6 85 115

97

Sample ID: S1010161-001As	SampType: MS	TestCode: ME_200.8_U_F	Units: µg/Filter	Prep Date:	RunNo: 64306
Client ID: Office		Batch ID: R64306	Analysis Date: 10/25/2010 4:43:37 PM	SeqNo: 2010609	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	1130	0.1	1100	0.68	102 85 115

Sample ID: S1010161-001A	SampType: DUP	TestCode: ME_200.8_U_F	Units: µg/Filter	Prep Date:	RunNo: 64306
Client ID: Office		Batch ID: R64306	Analysis Date: 10/25/2010 4:40:31 PM	SeqNo: 2010608	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	0.6	0.1			0.680 7.79 20

TR Addendum 2.9-C

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected below quantitation limits
 - ND Not Detected at the Reporting Limit
 - S Spike Recovery outside accepted recovery limits
 - E Value above quantitation range
 - L Analyzed by a contract laboratory
 - O Outside the Range of Dilutions
 - H Holding times for preparation or analysis exceeded
 - M Value exceeds Monthly Ave or MCL
 - R RPD outside accepted recovery limits



ANALYTICAL QC SUMMARY REPORT

Date: 12/23/2010

CLIENT: Western Water Consultants

Report ID: S1010161001

Work Order: S1010161

Project:

Ross ISR Project

Sample ID: MB-R65541	SampType: MBLK	TestCode: RAD_PB210_F	Units: µCi/Filter	Prep Date:	RunNo: 65541
Client ID:		Batch ID: R65541	Analysis Date: 11/10/2010 11:13:00 AM	SeqNo: 2049951	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	0.3	0.2			

Sample ID: LCS-R65541	SampType: LCS	TestCode: RAD_PB210_F	Units: µCi/Filter	Prep Date:	RunNo: 65541
Client ID:		Batch ID: R65541	Analysis Date: 11/10/2010 1:53:00 PM	SeqNo: 2056438	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	11	0.2	11		99.7 70 130

98

Sample ID: MB-R64803	SampType: MBLK	TestCode: RAD_RA226_F	Units: pCi/Filter	Prep Date:	RunNo: 64803
Client ID:		Batch ID: R64803	Analysis Date: 11/4/2010 5:17:00 PM	SeqNo: 2025395	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	ND	0.2			

Sample ID: LCS-R64803	SampType: LCS	TestCode: RAD_RA226_F	Units: pCi/Filter	Prep Date:	RunNo: 64803
Client ID:		Batch ID: R64803	Analysis Date: 11/4/2010 5:17:00 PM	SeqNo: 2025396	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	7.8	0.2	9.52		82.3 70 130

TR Addendum 2.9-C

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	L Analyzed by a contract laboratory	M Value exceeds Monthly Ave or MCL
	ND Not Detected at the Reporting Limit	O Outside the Range of Dilutions	R RPD outside accepted recovery limits
	S Spike Recovery outside accepted recovery limits		



ANALYTICAL QC SUMMARY REPORT

Date: 12/23/2010

CLIENT: Western Water Consultants

Report ID: S1010161001

Work Order: S1010161

Project:

Sample ID: MB-R65546	SampType: MBLK	TestCode: RAD_TH_F	Units: µCi/Filter	Prep Date:	RunNo: 65546
Client ID:	Batch ID: R65546	Analysis Date: 11/8/2010 8:45:00 AM	SeqNo: 2058549		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Thorium-230	ND	0.2			

Sample ID: LCS-R65546	SampType: LCS	TestCode: RAD_TH_F	Units: µCi/Filter	Prep Date:	RunNo: 65546
Client ID:	Batch ID: R65546	Analysis Date: 11/8/2010 8:45:00 AM	SeqNo: 2057293		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Thorium-230	17	0.2	12		132 50 150

Ross ISR Project

99

TR Addendum 2.9-C

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected below quantitation limits
 - ND Not Detected at the Reporting Limit
 - S Spike Recovery outside accepted recovery limits
 - E Value above quantitation range
 - L Analyzed by a contract laboratory
 - O Outside the Range of Dilutions
 - H Holding times for preparation or analysis exceeded
 - M Value exceeds Monthly Ave or MCL
 - R RPD outside accepted recovery limits

RADON IN AIR

Radon Monitoring Report

SENES CONSULTANTS LTD
 ATTN: STEVE BROWN
 8310 S VALLEY HWY, #3016
 ENGLEWOOD, CO 80112

LANDAUER

Landauer, Inc. 2 Science Road Glenwood, Illinois 60425-1586
 Telephone: (800) 528-8327 Facsimile: (708) 755-7048

Acct. No. 0410356

Detector Number	Detector Type	Starting Date	Ending Date	Field Data / Comments	Exposure pCi/l-days	Avg. Radon Conc. pCi/l
4793898	DRNF	12-JAN-10	22-APR-10	OFFICE SITE	171.4 ±11.8	1.7 ±0.12
4793899	DRNF	12-JAN-10	22-APR-10	MET STATION	198.4 ±12.8	2.0 ±0.13
4793900	DRNF	12-JAN-10	22-APR-10	SOUTHWEST SITE	192.4 ±12.6	1.9 ±0.13
4793901	DRNF	12-JAN-10	22-APR-10	EAST SITE	171.4 ±11.8	1.7 ±0.12
4793902	DRNF	12-JAN-10	22-APR-10	SITE 13	171.4 ±11.8	1.7 ±0.12
4793903	DRNF	15-JAN-10	22-APR-10	SOUTH SITE	49.9 ±5.26	0.5 ±0.05
4793904	DRNF	15-JAN-10	22-APR-10	SITE 11	60.9 ±6.06	0.6 ±0.06
4793905	DRNF	15-JAN-10	22-APR-10	SITE 12	49.0 ±5.19	0.5 ±0.05
4793906	DRNF	15-JAN-10	22-APR-10	SITE 10	36.1 ±4.14	0.4 ±0.04
4793907	DRNF	15-JAN-10	22-APR-10	SITE 9	29.1 ±3.51	0.3 ±0.04

① ② ③ ④
 RESULTS RELATED ONLY TO MONITORS
 AS RECEIVED BY LANDAUER.

⑤ Q.C. Release DRB	Process No. AZ1888	Report Date 24-MAY-10	⑥ Date Received 30-APR-10
--------------------------	-----------------------	--------------------------	---------------------------------

⑦ PAGE 1 OF ⑧ 2

Radon Monitoring Report

SENEB CONSULTANTS LTD
 ATTN: STEVE BROWN
 8310 S VALLEY HWY, #3016
 ENGLEWOOD, CO 80112

LANDAUER

Landauer, Inc. 2 Science Road Glenwood, Illinois 60425-1586
 Telephone: (800) 528-8327 Facsimile: (708) 755-7048

Acct. No. 0410356

Ross ISR Project

Detector Number	Detector Type	Starting Date	Ending Date	Field Data / Comments	Exposure pCi/l-days	Avg. Radon Conc. pCi/l
4793913	DRNF	12-JAN-10	22-APR-10	SITE 15	71.8 ±6.78	0.7 ±0.07
4793914	DRNF	12-JAN-10	22-APR-10	SITE 14	76.7 ±7.09	0.8 ±0.07
4793915	DRNF	12-JAN-10	22-APR-10	WESLEY SITE	88.7 ±7.81	0.9 ±0.08
4793916	DRNF	12-JAN-10	22-APR-10	WOOD SITE	106.6 ±8.8	1.1 ±0.09
4793917	DRNF	12-JAN-10	22-APR-10	STRONG SITE	81.7 ±7.40	0.8 ±0.07

102

TR Addendum 2.9-C

① RESULTS RELATED ONLY TO MONITORS
 AS RECEIVED BY LANDAUER.

②	③	④	⑤	⑥	⑦	⑧
Q.C. Release	Process No.	Report Date	Date Received			
DRB	A21888	24-MAY-10	30-APR-10			

⑦ PAGE 2 OF 2

Radon Monitoring Report

SENES CONSULTANTS LTD
 ATTN: STEVE BROWN
 8310 S VALLEY HWY, #3016
 ENGLEWOOD, CO 80112

LANDAUER

Landauer, Inc. 2 Science Road Glenwood, Illinois 60425-1586
 Telephone: (800) 528-8327 Facsimile: (708) 755-7048

Acct. No. 0410356

Detector Number	Detector Type	Starting Date	Ending Date	Field Data / Comments	Exposure pCi/days	Avg. Radon Conc. pCi/l
4787107	DRNF	20-MAY-10	19-JUL-10	16	82.1 ±5.97	1.4 ±0.10
4787108	DRNF	20-MAY-10	19-JUL-10	17	81.5 ±5.95	1.4 ±0.10
4791324	DRNF	22-APR-10	19-JUL-10	OFFICE-OSHO	58.1 ±4.41	0.7 ±0.05
4791325	DRNF	22-APR-10	19-JUL-10	WOOD	79.8 ±5.52	0.9 ±0.06
4791326	DRNF	22-APR-10	23-JUL-10	STRONG	64.3 ±4.74	0.7 ±0.05
4791331	DRNF	22-APR-10	19-JUL-10	11	50.1 ±3.95	0.6 ±0.04
4791332	DRNF	22-APR-10	19-JUL-10	12	70.5 ±5.06	0.8 ±0.06
4791333	DRNF	22-APR-10	19-JUL-10	15	74.2 ±5.25	0.8 ±0.06
4791343	DRNF	22-APR-10	19-JUL-10	EAST	63.7 ±4.71	0.7 ±0.05
4791344	DRNF	22-APR-10	19-JUL-10	9	76.1 ±5.34	0.9 ±0.06

RESULTS RELATED ONLY TO MONITORS AS RECEIVED BY LANDAUER.

Q.C. Release	Process No.	Report Date	Date Received
DRB	A21987	05-AUG-10	02-AUG-10

Radon Monitoring Report

SENEC CONSULTANTS LTD
 ATTN: STEVE BROWN
 8310 S VALLEY HWY, #3016
 ENGLEWOOD, CO 80112

LANDAUER

Landauer, Inc. 2 Science Road Glenwood, Illinois 60425-1586
 Telephone: (800) 528-8327 Facsimile: (708) 755-7048

Acct. No. 0410356

Detector Number	Detector Type	Starting Date	Ending Date	Field Data / Comments	Exposure pCiI-days	Avg. Radon Conc. pCi/l
4791345	DRNF	22-APR-10	19-JUL-10	10	68.0 ±4.94	0.8 ±0.06
4791346	DRNF	22-APR-10	19-JUL-10	13	68.7 ±4.97	0.8 ±0.06
4791347	DRNF	22-APR-10	19-JUL-10	SOUTH	69.3 ±5.00	0.8 ±0.06
4791348	DRNF	22-APR-10	19-JUL-10	SOUTHWEST	92.8 ±6.12	1.1 ±0.07
4791349	DRNF	22-APR-10	19-JUL-10	WESLEY	90.4 ±6.01	1.0 ±0.07
4791350	DRNF	22-APR-10	19-JUL-10	14	48.9 ±3.87	0.6 ±0.04
4791351	DRNF	22-APR-10	19-JUL-10	MET STATION	55.7 ±4.27	0.6 ±0.05

①

②

③

④

⑤

⑥

⑦

⑧

RESULTS RELATED ONLY TO MONITORS
 AS RECEIVED BY LANDAUER.

Q.C. Release	Process No.	Report Date	Date Received
DRB	A21987	05-AUG-10	02-AUG-10

PAGE 2 OF 2

Radon Monitoring Report

SENE CONSULTANTS LTD
 ATTN: STEVE BROWN
 8310 S VALLEY HWY, #3016
 ENGLEWOOD, CO 80112

LANDAUER

Landauer, Inc. 2 Science Road Glenwood, Illinois 60425-1586
 Telephone: (800) 528-8327 Facsimile: (708) 755-7048

Acct. No. 0410356

Detector Number	Detector Type	Starting Date	Ending Date	Field Data / Comments	Exposure pCi/days	Avg. Radon Conc. pCi/l
4801621	DRNF	19-JUL-10	15-OCT-10	SOUTHWEST	90.0 ±6.35	1.0 ±0.07
4801622	DRNF	19-JUL-10	15-OCT-10	13	107.1 ±7.1	1.2 ±0.08
4804542	DRNF	19-JUL-10	15-OCT-10	SOUTH	66.0 ±4.92	0.8 ±0.06
4804543	DRNF	19-JUL-10	15-OCT-10	EAST	52.2 ±4.18	0.6 ±0.05
4804544	DRNF	19-JUL-10	15-OCT-10	9	74.1 ±5.32	0.8 ±0.06
4804545	DRNF	19-JUL-10	15-OCT-10	10	102.4 ±6.6	1.2 ±0.07
4804546	DRNF	19-JUL-10	15-OCT-10	11	53.4 ±4.24	0.6 ±0.05
4804547	DRNF	19-JUL-10	15-OCT-10	12	64.3 ±4.83	0.7 ±0.05
4804548	DRNF	19-JUL-10	15-OCT-10	15	62.6 ±4.74	0.7 ±0.05
4804549	DRNF	19-JUL-10	15-OCT-10	MET STATION	39.0 ±3.38	0.4 ±0.04

① ② ③ ④
 RESULTS RELATED ONLY TO MONITORS
 AS RECEIVED BY LANDAUER.

Q.C. Release	Process No.	Report Date	Date Received
LMR	A22046	03-NOV-10	22-OCT-10

⑤ ⑥ ⑦ ⑧
 PAGE 1 OF 2

Ross ISR Project

105

TR Addendum 2.9-C

Radon Monitoring Report

SENES CONSULTANTS LTD
 ATTN: STEVE BROWN
 8310 S VALLEY HWY, #3016
 ENGLEWOOD, CO 80112

LANDAUER

Landauer, Inc. 2 Science Road Glenwood, Illinois 60425-1586
 Telephone: (800) 528-8327 Facsimile: (708) 755-7048

Acct. No. 0410356

Detector Number	Detector Type	Starting Date	Ending Date	Field Data / Comments	Exposure pCi/l-days	Avg. Radon Conc. pCi/l
4804550	DRNF	19-JUL-10	15-OCT-10	16	74.1 ±5.32	0.8 ±0.06
4804551	DRNF	19-JUL-10	15-OCT-10	17	71.8 ±5.21	0.8 ±0.06
4804563	DRNF	19-JUL-10	15-OCT-10	14	66.6 ±4.95	0.8 ±0.06
4804564	DRNF	19-JUL-10	15-OCT-10	WESLEY	79.3 ±5.57	0.9 ±0.06
4804565	DRNF	19-JUL-10	15-OCT-10	OFFICE	67.8 ±5.01	0.8 ±0.06
4804566	DRNF	19-JUL-10	15-OCT-10	WOOD	112.8 ±7.0	1.3 ±0.08
4804567	DRNF	19-JUL-10	15-OCT-10	STRONG	79.9 ±5.59	0.9 ±0.06

①
 ②
 ③
 ④
 ⑤
**RESULTS RELATED ONLY TO MONITORS
 AS RECEIVED BY LANDAUER.**

Q.C. Release	Process No.	Report Date	Date Received
LMR	A22046	03-NOV-10	22-OCT-10

⑥
 ⑦
 ⑧
 PAGE 2 OF 2

Ross ISR Project

107

TR Addendum 2.9-C

Quarter	Site	Radon Deploy Date	Radon Deploy Time	Radon Detector ID	Radon Retrieve Date	Radon Retrieve Time	Gamma Deploy Date	Gamma Deploy Time	Gamma TLD ID	Gamma Retrieve Date	Gamma Retrieve Time
1	Office	1/12/2010	10:20	4793898	4/22/2010	14:30	1/12/2010	10:20	8533232R	4/22/2010	14:30
	Met Station	1/12/2010	10:40	4793899	4/22/2010	13:30	1/12/2010	10:40	8533233R	4/22/2010	13:30
	Southwest	1/12/2010	12:00	4793900	4/22/2010	9:30	1/12/2010	12:00	8533234R	4/22/2010	9:30
	East	1/12/2010	12:40	4793901	4/22/2010	11:00	1/12/2010	12:40	8533235R	4/22/2010	11:00
	South	1/15/2010	10:00	4793903	4/22/2010	10:25	1/15/2010	10:00	8533224R	4/22/2010	10:25
	Wesley	1/12/2010	14:30	4793915	4/22/2010	14:15	1/12/2010	14:30	8533229R	4/22/2010	14:15
	Wood	1/12/2010	15:10	4793916	4/22/2010	15:05	1/12/2010	15:10	8533230R	4/22/2010	15:05
	Strong	1/12/2010	15:30	4793917	4/22/2010	15:20	1/12/2010	15:30	8533231R	4/22/2010	15:20
	9	1/15/2010	13:15	4793907	4/22/2010	12:35	1/15/2010	13:15	8533225R	4/22/2010	12:35
	10	1/15/2010	12:00	4793906	4/22/2010	12:15	1/15/2010	12:00	8533226R	4/22/2010	12:15
	11	1/15/2010	10:45	4793904	4/22/2010	11:30	1/15/2010	10:45	8533228R	4/22/2010	11:30
	12	1/15/2010	11:25	4793905	4/22/2010	11:45	1/15/2010	11:25	8533227R	4/22/2010	11:45
	13	1/12/2010	13:30	4793902	4/22/2010	9:55	1/12/2010	13:30	8533221R	4/22/2010	9:55
	14	1/12/2010	14:20	4793914	4/22/2010	14:50	1/12/2010	14:20	8533223R	4/22/2010	14:50
	15	1/12/2010	14:00	4793913	4/22/2010	14:00	1/12/2010	14:00	8533222R	4/22/2010	14:00
2	Office	4/22/2010	14:30	4791324	7/19/2010	14:00	4/22/2010	14:30	8967194R	7/19/2010	14:00
	Met Station	4/22/2010	13:30	4791351	7/19/2010	12:45	4/22/2010	13:30	9002524R	7/19/2010	12:45
	Southwest	4/22/2010	9:30	4791348	7/19/2010	9:35	4/22/2010	9:30	9002519R	7/19/2010	9:35
	East	4/22/2010	11:00	4791343	7/19/2010	10:50	4/22/2010	11:00	8967193R	7/19/2010	10:50
	South	4/22/2010	10:25	4791347	7/19/2010	10:30	4/22/2010	10:25	9002517R	7/19/2010	10:30
	Wesley	4/22/2010	14:15	4791349	7/19/2010	13:45	4/22/2010	14:15	9002520R	7/19/2010	13:45
	Wood	4/22/2010	15:05	4791325	7/19/2010	14:20	4/22/2010	15:05	8967195R	7/19/2010	14:20
	Strong	4/22/2010	15:20	4791326	7/23/2010	15:00	4/22/2010	15:20	8967196R	7/19/2010	14:40
	9	4/22/2010	12:35	4791344	7/19/2010	12:30	4/22/2010	12:35	8967190R	7/19/2010	12:30
	10	4/22/2010	12:15	4791345	7/19/2010	12:00	4/22/2010	12:15	8967191R	7/19/2010	12:00
	11	4/22/2010	11:30	4791331	7/19/2010	11:20	4/22/2010	11:30	9002522R	7/19/2010	11:20
	12	4/22/2010	11:45	4791332	7/19/2010	11:35	4/22/2010	11:45	8967192R	7/19/2010	11:35
	13	4/22/2010	9:55	4791346	7/19/2010	10:05	4/22/2010	9:55	9002518R	7/19/2010	10:05
	14	4/22/2010	14:50	4791350	7/19/2010	13:30	4/22/2010	14:50	9002521R	7/19/2010	13:30
	15	4/22/2010	14:00	4791333	7/19/2010	12:30	4/22/2010	14:00	9002523R	7/19/2010	12:30
	16	5/20/2010	10:40	4787107	7/19/2010	13:00	5/20/2010	10:40	9094273R	7/19/2010	13:00
	17	5/20/2010	11:00	4787108	7/19/2010	13:15	5/20/2010	11:00	9094274R	7/19/2010	13:15

Ross ISR Project

108

TR Addendum 2.9-C

Quarter	Site	Radon Deploy Date	Radon Deploy Time	Radon Detector ID	Radon Retrieve Date	Radon Retrieve Time	Gamma Deploy Date	Gamma Deploy Time	Gamma TLD ID	Gamma Retrieve Date	Gamma Retrieve Time
3	Office	7/19/2010	14:00	4804565	10/15/2010	8:30	7/19/2010	14:00	9217377R	10/15/2010	8:30
	Met Station	7/19/2010	12:45	4804549	10/15/2010	9:00	7/19/2010	12:45	9217378R	10/15/2010	9:00
	Southwest	7/19/2010	9:35	4801621	10/15/2010	9:30	7/19/2010	9:35	9217379R	10/15/2010	9:30
	East	7/19/2010	10:50	4804543	10/15/2010	10:00	7/19/2010	10:50	9217380R	10/15/2010	10:00
	South	7/19/2010	10:30	4804542	10/15/2010	10:25	7/19/2010	10:30	9217381R	10/15/2010	10:25
	Wesley	7/19/2010	13:45	4804564	10/15/2010	13:15	7/19/2010	13:45	9217382R	10/15/2010	13:15
	Wood	7/19/2010	14:20	4804566	10/15/2010	13:45	7/19/2010	14:20	9217383R	10/15/2010	13:45
	Strong	7/23/2010	15:00	4804567	10/15/2010	14:05	7/19/2010	14:40	9217384R	10/15/2010	14:05
	9	7/19/2010	12:30	4804544	10/15/2010	12:00	7/19/2010	12:30	9217385R	10/15/2010	12:00
	10	7/19/2010	12:00	4804545	10/15/2010	11:45	7/19/2010	12:00	9217386R	10/15/2010	11:45
	11	7/19/2010	11:20	4804546	10/15/2010	11:10	7/19/2010	11:20	9364107R	10/15/2010	11:10
	12	7/19/2010	11:35	4804547	10/15/2010	11:25	7/19/2010	11:35	9364108R	10/15/2010	11:25
	13	7/19/2010	10:05	4801622	10/15/2010	12:25	7/19/2010	10:05	9364109R	10/15/2010	12:25
	14	7/19/2010	13:30	4804563	10/15/2010	13:10	7/19/2010	13:30	9364110R	10/15/2010	13:10
	15	7/19/2010	12:30	4804548	10/15/2010	13:25	7/19/2010	12:30	9364111R	10/15/2010	13:25
	16	7/19/2010	13:00	4804550	10/15/2010	13:00	7/19/2010	13:00	9364112R	10/15/2010	13:00
	17	7/19/2010	13:15	4804551	10/15/2010	13:10	7/19/2010	13:15	9364113R	10/15/2010	13:10
4	Office	10/15/2010	8:30	4801490			10/15/2010	8:30	9600184R		
	Met Station	10/15/2010	9:00	4801491			10/15/2010	9:00	9600185R		
	Southwest	10/15/2010	9:30	4801492			10/15/2010	9:30	9600186R		
	East	10/15/2010	10:00	4801493			10/15/2010	10:00	9600187R		
	South	10/15/2010	10:25	4801636			10/15/2010	10:25	9600188R		
	Wesley	10/15/2010	13:15	4804689			10/15/2010	13:15	9600189R		
	Wood	10/15/2010	13:45	4804690			10/15/2010	13:45	9600190R		
	Strong	10/15/2010	14:05	4804691			10/15/2010	14:05	9715641R		
	9	10/15/2010	12:00	4804692			10/15/2010	12:00	9715642R		
	10	10/15/2010	11:45	4804693			10/15/2010	11:45	9715643R		
	11	10/15/2010	11:10	4804694			10/15/2010	11:10	9715644R		
	12	10/15/2010	11:25	4804695			10/15/2010	11:25	9715645R		
	13	10/15/2010	12:25	4804696			10/15/2010	12:25	9715646R		
	14	10/15/2010	13:10	4804697			10/15/2010	13:10	9715647R		
	15	10/15/2010	13:25	4804698			10/15/2010	13:25	9715648R		
	16	10/15/2010	13:00	4804699			10/15/2010	13:00	9727624R		
	17	10/15/2010	13:10	4804700			10/15/2010	13:10	9727625R		

SOIL



Inter-Mountain Laboratories, Inc.
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

This is a LEGAL DOCUMENT. All shaded fields must be completed.

Submit by Email

Print Form

WEB

Ross ISR Project

Client Name SENES/BKS Environmental				Project Identification #614 WWC Radiological Sampling				Sampler (Signature/Printed) <i>Jacob Mulinix</i> / Jacob Mulinix				Telephone # 307-686-0800			
Report Address Lisa Manglass - SENES - 8310 South Valley Hwy Suite 300 Englewood, CO 80112				Contact Name and Email Jacob Mulinix Jmulinix@bksenvironmental.com				ANALYSES / PARAMETERS							
Invoice Address Ben Schiffer - WWC Engineering 1849 Terra Ave. Sheridan, WY 82801				Voice 307-686-0800											
				FAX				U-Nat	Ra-226	Th-230	Pb-210	Gross Alpha	REMARKS		
				Purchase Order #		Quote #									
ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION		Matrix	# of Containers								
1	510064891	6-21-10	1:00 PM	RP-1 0-30		Soil	1	X	X	X	X	X			
2	2	6-21-10	1:00 PM	RP-1 30-60		Soil	1	X	X	X	X	X			
3	3	6-21-10	1:00 PM	RP-1 60-100		Soil	1	X	X	X	X	X			
4	4	6-21-10	1:00 PM	RP-1 0-15		Soil	1	X	X	X	X	X			
5	5	6-21-10	2:40 PM	RP-2 0-30		Soil	1		X			X			
6	6	6-21-10	2:40 PM	RP-2 30-60		Soil	1		X			X			
7	7	6-21-10	2:40 PM	RP-2 60-100		Soil	1		X			X			
8	8	6-21-10	2:40 PM	RP-2 0-15		Soil	1	X	X	X	X	X			
9	9	6-10-10	3:30 PM	RP-3 0-30		Soil	1		X			X			
10	10	6-10-10	3:30 PM	RP-3 30-60		Soil	1		X			X			
11	11	6-10-10	3:30 PM	RP-3 60-100		Soil	1		X			X			
12	12	6-10-10	3:30 PM	RP-3 0-15		Soil	1	X	X	X	X	X			
13	13	6-10-10	3:10 PM	RP-4 0-30		Soil	1		X			X			
14	14	6-10-10	3:10 PM	RP-4 30-60		Soil	1		X			X			
LAB COMMENTS				Relinquished By (Signature/Printed)				DATE	TIME	Received By (Signature/Printed)				DATE	TIME
				<i>Jacob Mulinix</i> / Jacob Mulinix				6/21	3:00 PM	<i>Alice X. McKel</i> <i>Karen Secor</i>				6-22-10	1500 AM
SHIPPING INFO				MATRIX CODES		TURN AROUND TIMES		COMPLIANCE INFORMATION				ADDITIONAL REMARKS			
<input type="checkbox"/> UPS				Water WT		<input type="checkbox"/> Check desired service		Compliance Monitoring ?				Y / N			
<input type="checkbox"/> Fed Express				Soil SL		<input checked="" type="checkbox"/> Standard turnaround		Program (SDWA, NPDES, ...)							
<input type="checkbox"/> US Mail				Solid SD		<input type="checkbox"/> RUSH - 5 Working Days		PWSID / Permit #							
<input type="checkbox"/> Hand Carried				Trip Blank TB		<input type="checkbox"/> URGENT - < 2 Working Days		Chlorinated?				Y / N			
<input type="checkbox"/> Other				Other OT		<i>Rush & Urgent Surcharges will be applied</i>		Sample Disposal: Lab				Client			

110

TR Addendum 2.9-C



Inter-Mountain Laboratories, Inc.
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

This is a LEGAL DOCUMENT. All shaded fields must be completed.

Submit by Email

Print Form

WEB

Ross ISR Project

Client Name SENES/BKS Environmental	Project Identification #614 WWC Radiological Sampling	Sampler (Signature/Printed) <i>Jacob Mulinix</i> /Jacob Mulinix	Telephone # 307-686-0800
Report Address Lisa Manglass - SENES - 8310 South Valley Hwy Suite 300 Englewood, CO 80112	Contact Name and Email Jacob Mulinix Jmulinix@bksenvironmental.com Voice 307-686-0800		ANALYSES / PARAMETERS
Invoice Address Ben Schiffer - WWC Engineering 1849 Terra Ave. Sheridan, WY 82801	FAX	Quote #	
Purchase Order #		REMARKS	

ITEM	LAB ID (Lab Use Only)	DATE	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	U-Nat	Ra-226	Th-230	Pb-210	Gross Alpha					REMARKS
1	51006489	6-10-10	3:10 PM	RP-4 60-100	Soil	1		X			X					
2	16	6-10-10	3:10 PM	RP-4 0-15	Soil	1	X	X	X	X	X					
3	17	6-10-10	1:30 PM	RP-5 0-30	Soil	1		X			X					
4	18	6-10-10	1:30 PM	RP-5 30-60	Soil	1		X			X					
5	19	6-10-10	1:30 PM	RP-5 60-100	Soil	1		X			X					
6	20	6-10-10	1:30 PM	RP-5 0-15	Soil	1	X	X	X	X	X					
7	21	6-10-10	2:45 PM	RP-6 0-30	Soil	1	X	X	X	X	X					
8	22	6-10-10	2:45 PM	RP-6 30-60	Soil	1	X	X	X	X	X					
9	23	6-10-10	2:45 PM	RP-6 60-100	Soil	1	X	X	X	X	X					
10	24	6-10-10	2:45 PM	RP-6 0-15	Soil	1	X	X	X	X	X					
11	25	6-10-10	2:15 PM	RP-8 0-30	Soil	1		X			X					
12	26	6-10-10	2:15 PM	RP-8 30-60	Soil	1		X			X					
13	27	6-10-10	2:15 PM	RP-8 60-100	Soil	1		X			X					
14	28	6-10-10	2:15 PM	RP-8 0-15	Soil	1	X	X			X					

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
	<i>Jacob Mulinix</i> /Jacob Mulinix	6/21	3:00 PM	<i>Alice X. McVeil</i> KS	6-22-10	1:50
					6/25/10	

SHIPPING INFO	MATRIX CODES	TURN AROUND TIMES	COMPLIANCE INFORMATION	ADDITIONAL REMARKS
<input type="checkbox"/> UPS	Water WT	<input type="checkbox"/> Check desired service	Compliance Monitoring ?	Y / N
<input type="checkbox"/> Fed Express	Soil SL	<input checked="" type="checkbox"/> Standard turnaround	Program (SDWA, NPDES, ...)	
<input type="checkbox"/> US Mail	Solid SD	<input type="checkbox"/> RUSH - 5 Working Days	PWSID / Permit #	
<input type="checkbox"/> Hand Carried	Trip Blank TB	<input type="checkbox"/> URGENT - < 2 Working Days	Chlorinated?	Y / N
<input type="checkbox"/> Other	Other OT	<i>Rush & Urgent Surcharges will be applied</i>	Sample Disposal: Lab	Client

111

TR Addendum 2.9-C

2



Inter-Mountain Laboratories, Inc.
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

This is a LEGAL DOCUMENT. All shaded fields must be completed.

Submit by Email

Print Form

WEB

Ross ISR Project

Client Name SENES/BKS Environmental				Project Identification #614 WWC Radiological Sampling				Sampler (Signature/Printed) <i>Jacob Mulinix</i> / Jacob Mulinix				Telephone # 307-686-0800							
Report Address Lisa Manglass - SENES - 8310 South Valley Hwy Suite 300 Englewood, CO 80112				Contact Name and Email Jacob Mulinix Jmulinix@bksenvironmental.com Voice 307-686-0800 FAX				ANALYSES / PARAMETERS											
Invoice Address Ben Schiffer - WWC Engineering 1849 Terra Ave. Sheridan, WY 82801				Purchase Order #		Quote #													
ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	U-Nat	Ra-226	Th-230	Pb-210	Gross Alpha	REMARKS							
1	51006489	6-21-10	11:40 AM	RP-9 0-30	Soil	1	X	X	X	X	X								
2	30	6-21-10	11:40 AM	RP-9 30-60	Soil	1	X	X	X	X	X								
3	31	6-21-10	11:40 AM	RP-9 60-100	Soil	1	X	X	X	X	X								
4	32	6-21-10	11:40 AM	RP-9 0-15	Soil	1	X	X			X								
5	33	6-21-10	11:40 AM	RP-9 0-5	Soil	1		X			X								
6	24	6-10-10	4:25 PM	RP-10 0-30	Soil	1		X			X								
7	35	6-10-10	4:25 PM	RP-10 30-60	Soil	1		X			X								
8	36	6-10-10	4:25 PM	RP-10 60-100	Soil	1		X			X								
9	37	6-10-10	4:25 PM	RP-10 0-15	Soil	1	X	X			X								
10	38	6-10-10	4:25 PM	RP-10 0-5	Soil	1		X			X								
11	39	6-10-10	4:50 PM	RP-11 0-30	Soil	1		X			X								
12	40	6-10-10	4:50 PM	RP-11 30-60	Soil	1		X			X								
13	41	6-10-10	4:50 PM	RP-11 60-100	Soil	1		X			X								
14	42	6-10-10	4:50 PM	RP-11 0-15	Soil	1	X	X			X								
LAB COMMENTS				Relinquished By (Signature/Printed) <i>Jacob Mulinix</i> / Jacob Mulinix				DATE 6/21		TIME 3:00 PM		Received By (Signature/Printed) <i>Alice X. McNeil</i>							
												DATE 6-22-10		TIME 1500					
														DATE 6/25/10					
SHIPPING INFO				MATRIX CODES				TURN AROUND TIMES				COMPLIANCE INFORMATION				ADDITIONAL REMARKS			
<input type="checkbox"/> UPS				Water WT				<input type="checkbox"/> Check desired service				Compliance Monitoring ?				Y / N			
<input type="checkbox"/> Fed Express				Soil SL				<input checked="" type="checkbox"/> Standard turnaround				Program (SDWA, NPDES, ...)							
<input type="checkbox"/> US Mail				Solid SD				<input type="checkbox"/> RUSH - 5 Working Days				PWSID / Permit #							
<input type="checkbox"/> Hand Carried				Trip Blank TB				<input type="checkbox"/> URGENT - < 2 Working Days				Chlorinated?				Y / N			
<input type="checkbox"/> Other				Other OT				Rush & Urgent Surcharges will be applied				Sample Disposal: Lab				Client			

112

TR Addendum 2.9-C



Inter-Mountain Laboratories, Inc.
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

This is a LEGAL DOCUMENT. All shaded fields must be completed.

Submit by Email

Print Form

WEB

Ross ISR Project

113

TR Addendum 2.9-C

Client Name SENES/BKS Environmental		Project Identification #614 WWC Radiological Sampling		Sampler (Signature/Printed) <i>Jacob Mulinix</i> /Jacob Mulinix		Telephone # 307-686-0800														
Report Address Lisa Manglass - SENES - 8310 South Valley Hwy Suite 300 Englewood, CO 80112		Contact Name and Email Jacob Mulinix Jmulinix@bksenvironmental.com		ANALYSES / PARAMETERS																
Invoice Address Ben Schiffer - WWC Engineering 1849 Terra Ave. Sheridan, WY 82801		Voice 307-686-0800																		
		FAX		U-Nat	Ra-226	Th-230	Pb-210	Gross Alpha												
		Purchase Order #		Quote #		REMARKS														
ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME	SAMPLE IDENTIFICATION		Matrix	# of Containers													
1	<i>S1006489</i>	6-10-10	4:50 PM	RP-11	0-5	Soil	1		X			X								
2	<i>44</i>	6-21-10	2:15 PM	RP-12	0-30	Soil	1		X			X								
3	<i>45</i>	6-21-10	2:15 PM	RP-12	30-60	Soil	1		X			X								
4	<i>46</i>	6-21-10	2:15 PM	RP-12	60-100	Soil	1		X			X								
5	<i>47</i>	6-21-10	2:15 PM	RP-12	0-15	Soil	1	X	X			X								
6	<i>48</i>	6-21-10	2:15 PM	RP-12	0-5	Soil	1		X			X								
7	<i>49</i>	6-21-10	4:50 PM	RP-13	0-30	Soil	1		X			X								
8	<i>50</i>	6-21-10	4:50 PM	RP-13	30-60	Soil	1		X			X								
9	<i>51</i>	6-21-10	4:50 PM	RP-13	60-100	Soil	1		X			X								
10	<i>52</i>	6-21-10	4:50 PM	RP-13	0-15	Soil	1	X	X			X								
11	<i>53</i>	6-21-10	4:50 PM	RP-13	0-5	Soil	1	X	X	X	X	X								
12	<i>54</i>	6-21-10	11:00 AM	RP-14	0-30	Soil	1	X	X	X	X	X								
13	<i>55</i>	6-21-10	11:00 AM	RP-14	30-60	Soil	1	X	X	X	X	X								
14	<i>56</i>	6-21-10	11:00 AM	RP-14	60-100	Soil	1	X	X	X	X	X								
LAB COMMENTS		Relinquished By (Signature/Printed)		DATE	TIME	Received By (Signature/Printed)		DATE	TIME											
		<i>Jacob Mulinix</i> /Jacob Mulinix		6/21	3:00PM	<i>Alice X McNeil</i> KS		6-22-10	1500											
								6/25/10												
SHIPPING INFO		MATRIX CODES		TURN AROUND TIMES		COMPLIANCE INFORMATION		ADDITIONAL REMARKS												
<input type="checkbox"/> UPS		Water WT		<input type="checkbox"/> Check desired service		Compliance Monitoring ?		Y / N												
<input type="checkbox"/> Fed Express		Soil SL		<input checked="" type="checkbox"/> Standard turnaround		Program (SDWA, NPDES, ...)														
<input type="checkbox"/> US Mail		Solid SD		<input type="checkbox"/> RUSH - 5 Working Days		PWSID / Permit #														
<input type="checkbox"/> Hand Carried		Trip Blank TB		<input type="checkbox"/> URGENT - < 2 Working Days		Chlorinated?		Y / N												
<input type="checkbox"/> Other		Other OT		<i>Rush & Urgent Surcharges will be applied</i>		Sample Disposal: Lab		Client												

4



Inter-Mountain Laboratories, Inc.
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

This is a LEGAL DOCUMENT. All shaded fields must be completed.

Submit by Email

Print Form

WEB

Ross ISR Project

114

TR Addendum 2.9-C

Client Name SENES/BKS Environmental				Project Identification #614 WWC Radiological Sampling				Sampler (Signature/Printed) <i>Jacob Mulinix</i> / Jacob Mulinix				Telephone # 307-686-0800			
Report Address Lisa Manglass - SENES - 8310 South Valley Hwy Suite 300 Englewood, CO 80112				Contact Name and Email Jacob Mulinix Jmulinix@bksenvironmental.com Voice 307-686-0800				ANALYSES / PARAMETERS							
Invoice Address Ben Schiffer - WWC Engineering 1849 Terra Ave. Sheridan, WY 82801				Purchase Order #											
												REMARKS			
ITEM	LAB ID <i>(Lab Use Only)</i>	DATE	TIME	SAMPLE IDENTIFICATION		Matrix	# of Containers	U-Nat	Ra-226	Th-230	Pb-210	Gross Alpha			
1	<i>51006489</i>	6-21-10	11:00 AM	RP-14	0-15	Soil	1	X	X			X			
2	<i>59</i>	6-21-10	11:00 AM	RP-14	0-5	Soil	1		X			X			
3	<i>59</i>	6-21-10	3:30 PM	RP-19	0-30	Soil	1		X			X			
4	<i>60</i>	6-21-10	3:30 PM	RP-19	30-60	Soil	1		X			X			
5	<i>61</i>	6-21-10	3:30 PM	RP-19	60-100	Soil	1		X			X			
6	<i>62</i>	6-21-10	3:30 PM	RP-19	0-15	Soil	1	X	X			X			
7	<i>63</i>	6-21-10	3:30 PM	RP-19	0-5	Soil	1		X			X			
8	<i>64</i>	6-21-10	4:00 PM	RP-20	0-30	Soil	1		X			X			
9	<i>65</i>	6-21-10	4:00 PM	RP-20	30-60	Soil	1		X			X			
10	<i>66</i>	6-21-10	4:00 PM	RP-20	60-100	Soil	1		X			X			
11	<i>67</i>	6-21-10	4:00 PM	RP-20	0-15	Soil	1	X	X			X			
12	<i>68</i>	6-10-10	4:00 PM	RS-1	0-15	Soil	1	X	X			X			
13	<i>69</i>	6-10-10	4:15 PM	RS-2	0-15	Soil	1	X	X			X			
14	<i>70</i>	6-10-10	3:30 PM	RS-3	0-15	Soil	1	X	X	X	X	X			
LAB COMMENTS				Relinquished By (Signature/Printed)				DATE	TIME	Received By (Signature/Printed)				DATE	TIME
				<i>Jacob Mulinix</i> / Jacob Mulinix				6/21	3:00pm	<i>Shirley D. McNeil</i>				6/22/10	1500
										<i>KS</i>				6/25/10	
SHIPPING INFO		MATRIX CODES		TURN AROUND TIMES			COMPLIANCE INFORMATION			ADDITIONAL REMARKS					
<input type="checkbox"/> UPS	Water	WT	Check desired service			Compliance Monitoring ?			Y / N						
<input type="checkbox"/> Fed Express	Soil	SL	<input checked="" type="checkbox"/> Standard turnaround			Program (SDWA, NPDES, ...)									
<input type="checkbox"/> US Mail	Solid	SD	<input type="checkbox"/> RUSH - 5 Working Days			PWSID / Permit #									
<input type="checkbox"/> Hand Carried	Trip Blank	TB	<input type="checkbox"/> URGENT - < 2 Working Days			Chlorinated?			Y / N						
<input type="checkbox"/> Other _____	Other	OT	<i>Rush & Urgent Surcharges will be applied</i>			Sample Disposal: Lab _____ Client _____									

5



Inter-Mountain Laboratories, Inc.
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

This is a LEGAL DOCUMENT. All shaded fields must be completed

Submit by Email

Print Form

WEB

Ross ISR Project

115

TR Addendum 2.9-C

Client Name SENES/BKS Environmental				Project Identification #614 WWC Radiological Sampling				Sampler (Signature/Printed) <i>Jacob Mulinix</i> /Jacob Mulinix				Telephone # 307-686-0800			
Report Address Lisa Manglass - SENES - 8310 South Valley Hwy Suite 300 Englewood, CO 80112				Contact Name and Email Jacob Mulinix Jmulinix@bksenvironmental.com				ANALYSES / PARAMETERS							
Invoice Address Ben Schiffer - WWC Engineering 1849 Terra Ave. Sheridan, WY 82801				Voice 307-686-0800											
				FAX				U-Nat	Ra-226	Th-230	Pb-210	Gross Alpha	REMARKS		
				Purchase Order #		Quote #									
ITEM	LAB ID (Lab Use Only)	DATE	TIME	SAMPLE IDENTIFICATION		Matrix	# of Containers								
1	<i>S1006489</i>	6-10-10	11:15 AM	RS-4	0-15	Soil	1	X	X			X			
2	<i>72</i>	6-10-10	4:20 PM	RS-5	0-15	Soil	1	X	X			X			
3	<i>73</i>	6-10-10	4:45 PM	RS-6	0-15	Soil	1	X	X			X			
4	<i>74</i>	6-21-10	10:00 AM	RS-7	0-15	Soil	1	X	X			X			
5	<i>75</i>	6-21-10	2:00 PM	RS-8	0-15	Soil	1	X	X			X			
6	<i>76</i>	6-21-10	10:20 AM	RS-9	0-15	Soil	1	X	X	X	X	X			
7	<i>77</i>	6-21-10	10:30 AM	RS-10	0-15	Soil	1	X	X			X			
8	<i>78</i>	6-21-10	10:40 AM	RS-11	0-15	Soil	1	X	X			X			
9	<i>79</i>	6-21-10	1:30 PM	RS-12	0-15	Soil	1	X	X	X	X	X			
10	<i>80</i>	6-21-10	12:30 PM	RS-13	0-15	Soil	1	X	X			X			
11	<i>81</i>	6-21-10	12:45 PM	RS-14	0-15	Soil	1	X	X	X	X	X			
12	<i>82</i>	6-10-10	11:15 AM	RS-15	0-15	Soil	1	X	X			X			
13	<i>83</i>	6-10-10	11:15 AM	RS-15	0-5	Soil	1		X			X			
14	<i>84</i>	6-21-10	11:30 AM	RS-16	0-15	Soil	1	X	X			X			
LAB COMMENTS		Relinquished By (Signature/Printed)				DATE	TIME	Received By (Signature/Printed)				DATE	TIME		
		<i>Jacob Mulinix</i> /Jacob Mulinix				6/21	3:00pm	<i>Alicia X. Miller</i>				6-22-10	1:00		
								<i>WS</i>				6/25/10			
SHIPPING INFO		MATRIX CODES		TURN AROUND TIMES			COMPLIANCE INFORMATION			ADDITIONAL REMARKS					
<input type="checkbox"/> UPS		Water	WT	Check desired service			Compliance Monitoring ?			Y / N					
<input type="checkbox"/> Fed Express		Soil	SL	<input checked="" type="checkbox"/> Standard turnaround			Program (SDWA, NPDES, ...)								
<input type="checkbox"/> US Mail		Solid	SD	<input type="checkbox"/> RUSH - 5 Working Days			PWSID / Permit #								
<input type="checkbox"/> Hand Carried		Trip Blank	TB	<input type="checkbox"/> URGENT - < 2 Working Days			Chlorinated?			Y / N					
<input type="checkbox"/> Other		Other	OT	Rush & Urgent Surcharges will be applied			Sample Disposal: Lab			Client					

6



Inter-Mountain Laboratories, Inc.
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

This is a LEGAL DOCUMENT. All shaded fields must be completed.

WEB

Ross ISR Project

Client Name SENES/BKS Environmental		Project Identification #614 WWC Radiological Sampling		Sampler (Signature/Printed) <i>Jacob Mulinix</i> /Jacob Mulinix		Telephone # 307-686-0800	
Report Address Lisa Manglass - SENES - 8310 South Valley Hwy Suite 300 Englewood, CO 80112		Contact Name and Email Jacob Mulinix Jmulinix@bksenvironmental.com		ANALYSES / PARAMETERS			
Invoice Address Ben Schiffer - WWC Engineering 1849 Terra Ave. Sheridan, WY 82801		Voice 307-686-0800					
		FAX		Purchase Order #		Quote #	

ITEM	LAB ID (Lab Use Only)	DATE	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	U-Nat	Ra-226	Th-230	Pb-210	Gross Alpha	REMARKS
2	86	6-10-10	11:45 AM	RS-17 0-5	Soil	1		X			X	
3	97	6-10-10	12:25 PM	RS-18 0-15	Soil	1	X	X			X	
4	98	6-10-10	12:25 PM	RS-18 0-5	Soil	1		X			X	
5	99	6-21-10	5:20 PM	RS-19 0-15	Soil	1	X	X	X	X	X	
6	90	6-21-10	5:30 PM	RS-20 0-15	Soil	1	X	X			X	
7	91	6-21-10	3:15 PM	RS-21 0-15	Soil	1	X	X			X	
8												
9												
10												
11												
12												
13												
14												

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
	<i>Jacob Mulinix</i> /Jacob Mulinix	6/21	3:00 PM	<i>Alicia O. McKelvie</i> /S	6-22-10	1500
					6/25/10	

SHIPPING INFO		MATRIX CODES		TURN AROUND TIMES		COMPLIANCE INFORMATION		ADDITIONAL REMARKS	
<input type="checkbox"/> UPS	Water	WT	Check desired service		Compliance Monitoring?		Y / N		
<input type="checkbox"/> FedEx	Soil	SL	<input checked="" type="checkbox"/> Standard turnaround	Compliance Program (SDWA, NPDES, ...)					
<input type="checkbox"/> US Mail	Solid	SD	<input type="checkbox"/> RUSH - 5 Working Days	PWSID / Permit #					
<input type="checkbox"/> Hand Carried	Trip Blank	TB	<input type="checkbox"/> URGENT - < 2 Working Days	Chlorinated?		Y / N			
<input type="checkbox"/> Other	Other	OT	<i>Rush & Urgent Surcharges will be applied</i>		Sample Disposal: Lab		Client		

116

TR Addendum 2.9-C

7



Ross ISR Project

Soil Analysis Report
Western Water Consultants
1849 Terra
Sheridan, WY 82801

Report ID: S1006489001

Project: SENES Radiological Samples
Date Received: 6/25/2010

Date Reported: 10/12/2010
Work Order: S1006489

Lab ID	Sample ID	Depths cm	Total	Gross	Lead	Radium	Thorium
			Uranium mg/Kg	Alpha pCi/g	210 pCi/g	226 pCi/g	230 pCi/g
			200.8	SM 7110	OTW01	SM 7500	ACW10
S1006489-001	RP-1	0-30	0.93	2.0 ± 0.4	0.9 ± 0.4	1.6 ± 0.2	0.60 ± 0.13
S1006489-002	RP-1	30-60	1.12	1.9 ± 0.4	1.0 ± 0.4	1.1 ± 0.1	0.68 ± 0.14
S1006489-003	RP-1	60-100	1.76	<1	1.1 ± 0.6	1.5 ± 0.2	0.96 ± 0.18
S1006489-004	RP-1	0-15	1.05	<1	1.0 ± 0.4	1.0 ± 0.1	0.72 ± 0.17
S1006489-005	RP-2	0-30		2.0 ± 0.4		1.6 ± 0.2	
S1006489-006	RP-2	30-60		1.5 ± 0.4		1.1 ± 0.2	
S1006489-007	RP-2	60-100		2.0 ± 0.5		1.3 ± 0.2	
S1006489-008	RP-2	0-15	1.32	<1	1.4 ± 0.4	1.2 ± 0.2	0.97 ± 0.19
S1006489-009	RP-3	0-30		1.4 ± 0.4		0.5 ± 0.1	
S1006489-010	RP-3	30-60		<1		0.6 ± 0.1	
S1006489-011	RP-3	60-100		<1		0.5 ± 0.1	
S1006489-012	RP-3	0-15	0.36	1.0 ± 0.4	0.6 ± 0.4	0.5 ± 0.1	0.234 ± 0.078
S1006489-013	RP-4	0-30		<1		0.4 ± 0.1	
S1006489-014	RP-4	30-60		<1		0.5 ± 0.1	
S1006489-015	RP-4	60-100		1.4 ± 0.4		<0.005	
S1006489-016	RP-4	0-15	0.24	<1	0.8 ± 0.4	0.3 ± 0.1	<0.2
S1006489-017	RP-5	0-30		<1		1.0 ± 0.1	
S1006489-018	RP-5	30-60		3.6 ± 1.7		1.0 ± 0.2	
S1006489-019	RP-5	60-100		1.7 ± 0.4		1.5 ± 0.2	

117

TR Addendum 2.9-C

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H2OSol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Wade Nieuwsma
Wade Nieuwsma, Assistant Laboratory Manager



Ross ISR Project

Soil Analysis Report
Western Water Consultants
1849 Terra
Sheridan, WY 82801

Report ID: S1006489001

Project: SENES Radiological Samples
Date Received: 6/25/2010

Date Reported: 10/12/2010
Work Order: S1006489

Lab ID	Sample ID	Depths cm	Total	Gross	Lead	Radium	Thorium
			Uranium mg/Kg	Alpha pCi/g	210 pCi/g	226 pCi/g	230 pCi/g
			200.8	SM 7110	OTW01	SM 7500	ACW10
S1006489-020	RP-5	0-15	0.79	1.6 ± 0.4	1.1 ± 0.6	1.1 ± 0.2	0.59 ± 0.13
S1006489-021	RP-6	0-30	0.82	2.1 ± 0.5	0.6 ± 0.4	1.3 ± 0.2	0.55 ± 0.14
S1006489-022	RP-6	30-60	0.48	<1	<0.5	1.0 ± 0.2	0.39 ± 0.10
S1006489-023	RP-6	60-100	0.67	1.1 ± 0.4	0.9 ± 0.4	1.1 ± 0.2	0.52 ± 0.12
S1006489-024	RP-6	0-15	0.92	1.0 ± 0.4	1.4 ± 0.5	1.0 ± 0.2	0.53 ± 0.12
S1006489-025	RP-8	0-30		<1		0.7 ± 0.1	
S1006489-026	RP-8	30-60		1.5 ± 0.4		1.0 ± 0.2	
S1006489-027	RP-8	60-100		1.4 ± 0.4		1.2 ± 0.2	
S1006489-028	RP-8	0-15	0.51	1.0 ± 0.4		0.6 ± 0.1	
S1006489-029	RP-9	0-30	1.18	1.7 ± 0.4	1.2 ± 0.5	1.4 ± 0.2	0.86 ± 0.17
S1006489-030	RP-9	30-60	1.76	1.9 ± 0.5	1.0 ± 0.4	1.6 ± 0.2	0.48 ± 0.12
S1006489-031	RP-9	60-100	1.88	1.4 ± 0.4	0.7 ± 0.5	1.0 ± 0.1	0.96 ± 0.18
S1006489-032	RP-9	0-15	1.08	1.8 ± 0.4		1.3 ± 0.2	
S1006489-033	RP-9	0-5		1.1 ± 0.4		1.2 ± 0.2	
S1006489-034	RP-10	0-30		<1		0.6 ± 0.1	
S1006489-035	RP-10	30-60		1.1 ± 0.4		1.9 ± 0.2	
S1006489-036	RP-10	60-100		1.3 ± 0.4		1.7 ± 0.2	
S1006489-037	RP-10	0-15	0.56	1.1 ± 0.4		1.3 ± 0.2	
S1006489-038	RP-10	0-5		1.1 ± 0.4		1.2 ± 0.2	

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H2OSol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Wade Nieuwsma
Wade Nieuwsma, Assistant Laboratory Manager

118 TR Addendum 2.9-C



Ross ISR Project

Soil Analysis Report
Western Water Consultants
1849 Terra
Sheridan, WY 82801

Report ID: S1006489001

Project: SENES Radiological Samples

Date Reported: 10/12/2010

Date Received: 6/25/2010

Work Order: S1006489

Lab ID	Sample ID	Depths cm	Total	Gross	Lead	Radium	Thorium
			Uranium mg/Kg	Alpha pCi/g	210 pCi/g	226 pCi/g	230 pCi/g
			200.8	SM 7110	OTW01	SM 7500	ACW10
S1006489-039	RP-11	0-30		1.1 ± 0.4		1.3 ± 0.2	
S1006489-040	RP-11	30-60		1.7 ± 0.5		1.0 ± 0.2	
S1006489-041	RP-11	60-100		1.7 ± 0.4		0.9 ± 0.2	
S1006489-042	RP-11	0-15	0.65	1.4 ± 0.4		1.1 ± 0.2	
S1006489-043	RP-11	0-5		1.1 ± 0.4		1.2 ± 0.2	
S1006489-044	RP-12	0-30		<1		1.2 ± 0.2	
S1006489-045	RP-12	30-60		1.4 ± 0.4		1.1 ± 0.2	
S1006489-046	RP-12	60-100		1.0 ± 0.4		1.2 ± 0.2	
S1006489-047	RP-12	0-15	0.53	<1		0.8 ± 0.1	
S1006489-048	RP-12	0-5		1.7 ± 0.4		1.1 ± 0.2	
S1006489-049	RP-13	0-30		1.2 ± 0.4		1.1 ± 0.2	
S1006489-050	RP-13	30-60		<1		7.1 ± 1.3	
S1006489-051	RP-13	60-100		1.1 ± 0.4		9.7 ± 1.5	
S1006489-052	RP-13	0-15	0.79	1.2 ± 0.4		1.8 ± 0.2	
S1006489-053	RP-13	0-5	0.71	1.0 ± 0.4	2.0 ± 0.7	1.1 ± 0.2	<0.73
S1006489-054	RP-14	0-30	1.78	2.3 ± 0.5	1.3 ± 0.9	2.0 ± 0.2	1.29 ± 0.59
S1006489-055	RP-14	30-60	1.93	2.2 ± 0.5	0.9 ± 0.8	1.8 ± 0.2	<2.6
S1006489-056	RP-14	60-100	2.80	2.0 ± 0.5	1.6 ± 0.7	2.0 ± 0.2	<1.73
S1006489-057	RP-14	0-15	1.19	1.3 ± 0.4		1.6 ± 0.2	

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H2OSol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Wade Nieuwsma
Wade Nieuwsma, Assistant Laboratory Manager

119

TR Addendum 2.9-C



Ross ISR Project

Soil Analysis Report
Western Water Consultants
1849 Terra
Sheridan, WY 82801

Report ID: S1006489001

Project: SENES Radiological Samples
Date Received: 6/25/2010

Date Reported: 10/12/2010
Work Order: S1006489

Lab ID	Sample ID	Depths cm	Total	Gross	Lead	Radium	Thorium
			Uranium	Alpha	210	226	230
			mg/Kg	pCi/g	pCi/g	pCi/g	pCi/g
			200.8	SM 7110	OTW01	SM 7500	ACW10
S1006489-058	RP-14	0-5		1.9 ± 0.5		1.4 ± 0.2	
S1006489-059	RP-19	0-30		1.9 ± 0.5		0.9 ± 0.1	
S1006489-060	RP-19	30-60		1.4 ± 0.4		1.0 ± 0.2	
S1006489-061	RP-19	60-100		1.9 ± 0.5		1.1 ± 0.2	
S1006489-062	RP-19	0-15	<0.01	<1		1.0 ± 0.2	
S1006489-063	RP-19	0-5		2.0 ± 0.5		1.0 ± 0.2	
S1006489-064	RP-20	0-30		2.6 ± 0.5		1.7 ± 0.2	
S1006489-065	RP-20	30-60		1.4 ± 0.4		1.5 ± 0.2	
S1006489-066	RP-20	60-100		1.4 ± 0.4		1.5 ± 0.2	
S1006489-067	RP-20	0-15	<0.01	1.5 ± 0.4		13.7 ± 1.7	
S1006489-068	RS-1	0-15	<0.01	1.3 ± 0.4		8.2 ± 1.4	
S1006489-069	RS-2	0-15	1.38	1.3 ± 0.4		2.1 ± 0.2	
S1006489-071	RS-4	0-15	0.70	1.2 ± 0.4		0.8 ± 0.1	
S1006489-072	RS-5	0-15	0.74	<1		1.0 ± 0.2	
S1006489-073	RS-6	0-15	0.44	<1		0.9 ± 0.2	
S1006489-074	RS-7	0-15	0.57	1.1 ± 0.4		0.7 ± 0.1	
S1006489-075	RS-8	0-15	1.22	1.1 ± 0.4		1.8 ± 0.2	
S1006489-078	RS-11	0-15	0.72	1.2 ± 0.4		1.2 ± 0.2	
S1006489-079	RS-12	0-15	1.20	1.5 ± 0.4	1.9 ± 0.5	2.0 ± 0.2	0.72±0.17

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H2OSol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Wade Nieuwsma
Wade Nieuwsma, Assistant Laboratory Manager

120
TR Addendum 2.9-C



Ross ISR Project

Soil Analysis Report
Western Water Consultants
1849 Terra
Sheridan, WY 82801

Report ID: S1006489001

Project: SENES Radiological Samples

Date Reported: 10/12/2010

Date Received: 6/25/2010

Work Order: S1006489

Lab ID	Sample ID	Depths cm	Total	Gross	Lead	Radium	Thorium
			Uranium	Alpha	210	226	230
			mg/Kg	pCi/g	pCi/g	pCi/g	pCi/g
			200.8	SM 7110	OTW01	SM 7500	ACW10
S1006489-081	RS-14	0-15	0.93	1.1 ± 0.4	1.5 ± 0.4	1.6 ± 0.2	0.59±0.13
S1006489-082	RS-15	0-15	0.90	1.6 ± 0.4		1.4 ± 0.0.2	
S1006489-083	RS-15	0-5		1.2 ± 0.4		1.7 ± 0.2	
S1006489-084	RS-16	0-15	1.02	1.4 ± 0.4		1.5 ± 0.2	
S1006489-085	RS-17	0-15	0.83	1.1 ± 0.4		1.0 ± 0.2	
S1006489-086	RS-17	0-5		1.2 ± 0.4		1.3 ± 0.2	
S1006489-087	RS-18	0-15	0.97	1.8 ± 0.4		1.5 ± 0.2	
S1006489-088	RS-18	0-5		1.5 ± 0.4		14.4 ± 2.0	
S1006489-089	RS-19	0-15	0.65	1.1 ± 0.4	1.7 ± 0.6	14.1 ± 1.9	0.281±0.084
S1006489-090	RS-20	0-15	<0.01	1.8 ± 0.5		1.9 ± 0.2	
S1006489-091	RS-21	0-15	<0.01	1.3 ± 0.5		1.5 ± 0.2	

121

TR Addendum 2.9-C

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H2OSol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Wade Nieuwsma
Wade Nieuwsma, Assistant Laboratory Manager



ANALYTICAL QC SUMMARY REPORT

Date: 10/20/2010

CLIENT: Western Water Consultants
Work Order: S1006489
Project: SENES Radiological Samples

Report ID: S1006489001

Sample ID: MB-R63126	SampType: MBLK	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63126
Client ID:		Batch ID: R63126	Analysis Date: 9/11/2010 10:31:00 AM		SeqNo: 1972990
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Gross Alpha	ND	1			

Sample ID: MB-R63132	SampType: MBLK	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63132
Client ID:		Batch ID: R63132	Analysis Date: 9/12/2010 5:20:00 AM		SeqNo: 1973061
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Gross Alpha	ND	1			

Sample ID: MB10-252B	SampType: MBLK	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63240
Client ID:		Batch ID: R63240	Analysis Date: 9/18/2010 12:30:00 PM		SeqNo: 1975876
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Gross Alpha	ND	1			

Sample ID: MB10-253B	SampType: MBLK	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63249
Client ID:		Batch ID: R63249	Analysis Date: 9/20/2010 3:18:00 PM		SeqNo: 1976145
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Gross Alpha	ND	1			

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
L Analyzed by a contract laboratory M Value exceeds Monthly Ave or MCL ND Not Detected at the Reporting Limit
O Outside the Range of Dilutions R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits



ANALYTICAL QC SUMMARY REPORT

Date: 10/20/2010

CLIENT: Western Water Consultants
Work Order: S1006489
Project: SENES Radiological Samples

Report ID: S1006489001

Sample ID: MB-R63371	SampType: MBLK	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63371
Client ID:		Batch ID: R63371	Analysis Date: 9/22/2010 1:59:00 PM		SeqNo: 1980410
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Gross Alpha	ND	1			

Sample ID: MB10-253A	SampType: MBLK	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63515
Client ID:		Batch ID: R63515	Analysis Date: 9/30/2010 6:58:00 PM		SeqNo: 1986202
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Gross Alpha	ND	1			

Sample ID: LCS-10-251A	SampType: LCS	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63126
Client ID:		Batch ID: R63126	Analysis Date: 9/11/2010 10:31:00 AM		SeqNo: 1972991
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Gross Alpha	29.6±1.1	1	34.5		85.9 50 150

Sample ID: LCS-R63132	SampType: LCS	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63132
Client ID:		Batch ID: R63132	Analysis Date: 9/12/2010 5:20:00 AM		SeqNo: 1973062
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Gross Alpha	32.8±1.6	1	34.5		95.1 50 150

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
L Analyzed by a contract laboratory M Value exceeds Monthly Ave or MCL ND Not Detected at the Reporting Limit
O Outside the Range of Dilutions R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Ross ISR Project

123

TR Addendum 2.9-C



ANALYTICAL QC SUMMARY REPORT

Date: 10/20/2010

CLIENT: Western Water Consultants
Work Order: S1006489
Project: SENES Radiological Samples

Report ID: S1006489001

Sample ID: LCS10-252ALPHA B	SampType: LCS	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63240						
Client ID:		Batch ID: R63240	Analysis Date: 9/18/2010 12:30:00 PM		SeqNo: 1975877						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gross Alpha	36.4 ± 6.8	1	34.5		106	50	150				

Sample ID: LCS-R63371	SampType: LCS	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63371						
Client ID:		Batch ID: R63371	Analysis Date: 9/22/2010 1:59:00 PM		SeqNo: 1980411						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gross Alpha	31.1 ± 6.3	1	34.5		89.1	50	150				

Sample ID: LCS10-253ALPHA A	SampType: LCS	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63515						
Client ID:		Batch ID: R63515	Analysis Date: 9/30/2010 6:58:00 PM		SeqNo: 1986203						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gross Alpha	36.7±1.7	1	34.5		106	50	150				

Sample ID: S1006489-001AMSA	SampType: MS	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63126						
Client ID: RP-1		Batch ID: R63126	Analysis Date: 9/11/2010 10:31:00 AM		SeqNo: 1972995						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gross Alpha	34.5±6.4	1	34.5	1.96	94.3	50	150				

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
L	Analyzed by a contract laboratory	M	Value exceeds Monthly Ave or MCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits



ANALYTICAL QC SUMMARY REPORT

Date: 10/20/2010

CLIENT: Western Water Consultants
Work Order: S1006489
Project: SENES Radiological Samples

Report ID: S1006489001

Sample ID: S1006489-025AMSA	SampType: MS	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63132						
Client ID: RP-8		Batch ID: R63132	Analysis Date: 9/12/2010 5:20:00 AM		SeqNo: 1973072						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gross Alpha	25.0±7.2	1	34.5	0.879	70.0	50	150				

Sample ID: S1006489-035AMSA	SampType: MS	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63240						
Client ID: RP-10		Batch ID: R63240	Analysis Date: 9/18/2010 12:30:00 PM		SeqNo: 1975874						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gross Alpha	28.7±9.4	1	34.5	1.1	80.0	50	150				

Sample ID: S1006489-074MSAL	SampType: MS	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63249						
Client ID:		Batch ID: R63249	Analysis Date: 9/20/2010 3:18:00 PM		SeqNo: 1976174						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gross Alpha	23.4 ± 1.5	1	34.5	1.06	64.8	50	150				

Sample ID: S1006489-090AMSA	SampType: MS	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63371						
Client ID: RS-20		Batch ID: R63371	Analysis Date: 9/22/2010 1:59:00 PM		SeqNo: 1980412						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gross Alpha	23.9 ± 1.4	1	34.5	1.78	64.2	50	150				

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
L	Analyzed by a contract laboratory	M	Value exceeds Monthly Ave or MCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

Ross ISR Project

125

TR Addendum 2.9-C



ANALYTICAL QC SUMMARY REPORT

Date: 10/20/2010

CLIENT: Western Water Consultants
Work Order: S1006489
Project: SENES Radiological Samples

Report ID: S1006489001

Sample ID: S1006489-055AMS	SampType: MS	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63515						
Client ID: RP-14		Batch ID: R63515	Analysis Date: 9/30/2010 6:58:00 PM		SeqNo: 1986222						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gross Alpha	27.7±7.9	1	34.5	2.16	74.0	50	150				

Sample ID: S1006489-002ADUP	SampType: DUP	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63126						
Client ID: RP-1		Batch ID: R63126	Analysis Date: 9/11/2010 10:31:00 AM		SeqNo: 1972997						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gross Alpha	1.7 ± 0.4	1						1.93	13.9	0	

Sample ID: S1006489-014ADUP	SampType: DUP	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63126						
Client ID: RP-4		Batch ID: R63126	Analysis Date: 9/11/2010 10:31:00 AM		SeqNo: 1973010						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gross Alpha	ND	1						0.620	0	0	

Sample ID: S1006489-020ADUP	SampType: DUP	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63132						
Client ID: RP-5		Batch ID: R63132	Analysis Date: 9/12/2010 5:20:00 AM		SeqNo: 1973066						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gross Alpha	1.1 ± 0.4	1						1.57	29.7	0	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
L Analyzed by a contract laboratory M Value exceeds Monthly Ave or MCL ND Not Detected at the Reporting Limit
O Outside the Range of Dilutions R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits



ANALYTICAL QC SUMMARY REPORT

Date: 10/20/2010

CLIENT: Western Water Consultants
Work Order: S1006489
Project: SENES Radiological Samples

Report ID: S1006489001

Sample ID: S1006489-030ADUP	SampType: DUP	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63132						
Client ID: RP-9		Batch ID: R63132	Analysis Date: 9/12/2010 5:20:00 AM		SeqNo: 1973078						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gross Alpha	1.6±0.4	1						1.91	16.4	0	

Sample ID: S1006489-036ADUP	SampType: DUP	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63240						
Client ID: RP-10		Batch ID: R63240	Analysis Date: 9/18/2010 12:30:00 PM		SeqNo: 1975875						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gross Alpha	1.8 ± 0.5	1						1.34	36.3	0	

Sample ID: S1006489-044ADUP	SampType: DUP	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63240						
Client ID: RP-12		Batch ID: R63240	Analysis Date: 9/18/2010 12:30:00 PM		SeqNo: 1975914						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gross Alpha	1.2 ± 0.4	1						0.736	64.7	0	

Sample ID: S1006489-069ADUP	SampType: DUP	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63249						
Client ID: RS-2		Batch ID: R63249	Analysis Date: 9/20/2010 3:18:00 PM		SeqNo: 1976173						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gross Alpha	1.6 ± 0.4	1						1.29	19.4	0	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
L Analyzed by a contract laboratory M Value exceeds Monthly Ave or MCL ND Not Detected at the Reporting Limit
O Outside the Range of Dilutions R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits



ANALYTICAL QC SUMMARY REPORT

Date: 10/20/2010

CLIENT: Western Water Consultants
Work Order: S1006489
Project: SENES Radiological Samples

Report ID: S1006489001

Sample ID: S1006489-085ADUP	SampType: DUP	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63249						
Client ID: RS-17		Batch ID: R63249	Analysis Date: 9/20/2010 3:18:00 PM		SeqNo: 1976175						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gross Alpha	ND	1						1.09	0	0	

Sample ID: S1006489-091ADUP	SampType: DUP	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63371						
Client ID: RS-21		Batch ID: R63371	Analysis Date: 9/22/2010 1:59:00 PM		SeqNo: 1980413						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gross Alpha	1.4 ± 0.4	1						1.31	3.45	0	

Sample ID: S1006489-052ADUP	SampType: DUP	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63515						
Client ID: RP-13		Batch ID: R63515	Analysis Date: 9/30/2010 6:58:00 PM		SeqNo: 1986221						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gross Alpha	1.3 ± 0.4	1						1.17	8.38	0	

Sample ID: S1006489-067ADUP	SampType: DUP	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63515						
Client ID: RP-20		Batch ID: R63515	Analysis Date: 9/30/2010 6:58:00 PM		SeqNo: 1986223						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gross Alpha	2.2±0.5	1						1.48	51.4	0	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
L Analyzed by a contract laboratory M Value exceeds Monthly Ave or MCL ND Not Detected at the Reporting Limit
O Outside the Range of Dilutions R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Ross ISR Project

128

TR Addendum 2.9-C



ANALYTICAL QC SUMMARY REPORT

Date: 10/20/2010

CLIENT: Western Water Consultants
Work Order: S1006489
Project: SENES Radiological Samples

Report ID: S1006489001

Sample ID: MB-R63152	SampType: MBLK	TestCode: PB210_SOIL	Units: pCi/g	Prep Date:	RunNo: 63152
Client ID:		Batch ID: 4400	Analysis Date: 8/31/2010 11:34:00 AM	SeqNo: 1973400	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	0.2	0.2			

Sample ID: MB-R63408	SampType: MBLK	TestCode: PB210_SOIL	Units: pCi/g	Prep Date:	RunNo: 63408
Client ID:		Batch ID: 4403	Analysis Date: 9/16/2010 4:46:00 PM	SeqNo: 1981563	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	ND	0.2			

Sample ID: MB10-23	SampType: MBLK	TestCode: PB210_SOIL	Units: pCi/g	Prep Date:	RunNo: 63408
Client ID:		Batch ID: 4403	Analysis Date: 9/16/2010 4:46:00 PM	SeqNo: 1981577	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	ND	0.2			

Sample ID: LCS PB210 447	SampType: LCS	TestCode: PB210_SOIL	Units: pCi/g	Prep Date:	RunNo: 63152
Client ID:		Batch ID: 4400	Analysis Date: 8/31/2010 11:34:00 AM	SeqNo: 1973401	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	11.3 ± 0.9	0.5	11.2		99.0 50 150

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
L Analyzed by a contract laboratory M Value exceeds Monthly Ave or MCL ND Not Detected at the Reporting Limit
O Outside the Range of Dilutions R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits



ANALYTICAL QC SUMMARY REPORT

Date: 10/20/2010

CLIENT: Western Water Consultants
Work Order: S1006489
Project: SENES Radiological Samples

Report ID: S1006489001

Sample ID: LCS PB210 447 2	SampType: LCS	TestCode: PB210_SOIL	Units: pCi/g	Prep Date:	RunNo: 63152
Client ID:		Batch ID: 4401	Analysis Date: 8/31/2010 11:34:00 AM	SeqNo: 1973402	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	12.1 ± 1.0	0.5	11.2		106 50 150

Sample ID: LCS-R63408	SampType: LCS	TestCode: PB210_SOIL	Units: pCi/g	Prep Date:	RunNo: 63408
Client ID:		Batch ID: 4403	Analysis Date: 9/16/2010 4:46:00 PM	SeqNo: 1981564	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	5.6±0.4	0.5	11.2		49.7 50 150

Sample ID: S1006489-001AMS	SampType: MS	TestCode: PB210_SOIL	Units: pCi/g	Prep Date:	RunNo: 63152
Client ID: RP-1		Batch ID: 4400	Analysis Date: 8/31/2010 11:34:00 AM	SeqNo: 1973405	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	13.9 ± 1.1	0.5	11.2	0.85	116 70 130

Sample ID: S1006489-012AMS	SampType: MS	TestCode: PB210_SOIL	Units: pCi/g	Prep Date:	RunNo: 63152
Client ID: RP-3		Batch ID: 4400	Analysis Date: 8/31/2010 11:34:00 AM	SeqNo: 1973412	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	13.0 ± 0.9	0.5	11.2	0.615	110 70 130

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
L Analyzed by a contract laboratory M Value exceeds Monthly Ave or MCL ND Not Detected at the Reporting Limit
O Outside the Range of Dilutions R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits



ANALYTICAL QC SUMMARY REPORT

Date: 10/20/2010

CLIENT: Western Water Consultants
Work Order: S1006489
Project: SENES Radiological Samples

Report ID: S1006489001

Sample ID: S1006489-053AMS	SampType: MS	TestCode: PB210_SOIL	Units: pCi/g	Prep Date:	RunNo: 63408						
Client ID: RP-13		Batch ID: 4403	Analysis Date: 9/16/2010 4:46:00 PM		SeqNo: 1981573						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead 210	16.5 ± 1.7	0.5	11.2	2.03	129	70	130				

Sample ID: S1006489-055AMS	SampType: MS	TestCode: PB210_SOIL	Units: pCi/g	Prep Date:	RunNo: 63408						
Client ID: RP-14		Batch ID: 4403	Analysis Date: 9/16/2010 4:46:00 PM		SeqNo: 1981575						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead 210	13.6 ± 1.4	0.5	11.2	0.912	113	70	130				

Sample ID: S1006489-002ADUP	SampType: DUP	TestCode: PB210_SOIL	Units: pCi/g	Prep Date:	RunNo: 63152						
Client ID: RP-1		Batch ID: 4400	Analysis Date: 8/31/2010 11:34:00 AM		SeqNo: 1973407						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead 210	1.1 ± 0.5	0.5						0.958	15.1	30	

Sample ID: S1006489-016ADUP	SampType: DUP	TestCode: PB210_SOIL	Units: pCi/g	Prep Date:	RunNo: 63152						
Client ID: RP-4		Batch ID: 4400	Analysis Date: 8/31/2010 11:34:00 AM		SeqNo: 1973414						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead 210	0.7 ± 0.4	0.5						0.844	18.9	30	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 L Analyzed by a contract laboratory M Value exceeds Monthly Ave or MCL ND Not Detected at the Reporting Limit
 O Outside the Range of Dilutions R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Ross ISR Project

131

TR Addendum 2.9-C



ANALYTICAL QC SUMMARY REPORT

Date: 10/20/2010

CLIENT: Western Water Consultants
Work Order: S1006489
Project: SENES Radiological Samples

Report ID: S1006489001

Sample ID: S1006489-054ADUP	SampType: DUP	TestCode: PB210_SOIL	Units: pCi/g	Prep Date:	RunNo: 63408						
Client ID: RP-14		Batch ID: 4403	Analysis Date: 9/16/2010 4:46:00 PM		SeqNo: 1981574						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead 210	1.4 ± 0.6	0.5						1.25	10.8	30	

Sample ID: S1006489-056ADUP	SampType: DUP	TestCode: PB210_SOIL	Units: pCi/g	Prep Date:	RunNo: 63408						
Client ID: RP-14		Batch ID: 4403	Analysis Date: 9/16/2010 4:46:00 PM		SeqNo: 1981576						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead 210	0.9 ± 0.4	0.5						1.55	39.8	30	R

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
L Analyzed by a contract laboratory M Value exceeds Monthly Ave or MCL ND Not Detected at the Reporting Limit
O Outside the Range of Dilutions R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits



ANALYTICAL QC SUMMARY REPORT

Date: 10/20/2010

CLIENT: Western Water Consultants
Work Order: S1006489
Project: SENES Radiological Samples

Report ID: S1006489001

Sample ID: MB-R63324	SampType: MBLK	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 63324
Client ID:		Batch ID: 4400	Analysis Date: 9/24/2010 10:38:00 AM		SeqNo: 1979212
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	ND	0.5			

Sample ID: MB-R63331	SampType: MBLK	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 63331
Client ID:		Batch ID: 4401	Analysis Date: 9/24/2010 4:19:00 PM		SeqNo: 1979292
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	ND	0.5			

Sample ID: MB-R63388	SampType: MBLK	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 63388
Client ID:		Batch ID: 4402	Analysis Date: 9/27/2010 10:52:00 AM		SeqNo: 1980862
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	ND	0.5			

Sample ID: MB10-266B	SampType: MBLK	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 63392
Client ID:		Batch ID: 4403	Analysis Date: 9/27/2010 5:18:00 PM		SeqNo: 1980918
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	ND	0.5			

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
L Analyzed by a contract laboratory M Value exceeds Monthly Ave or MCL ND Not Detected at the Reporting Limit
O Outside the Range of Dilutions R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits



Ross ISR Project

ANALYTICAL QC SUMMARY REPORT

Date: 10/20/2010

CLIENT: Western Water Consultants
Work Order: S1006489
Project: SENES Radiological Samples

Report ID: S1006489001

Sample ID: MB10-270A	SampType: MBLK	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 63519
Client ID:		Batch ID: 4404	Analysis Date: 9/30/2010 2:15:00 PM	SeqNo: 1986243	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	ND	0.5			

Sample ID: MB-R63525	SampType: MBLK	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 63525
Client ID:		Batch ID: 4405	Analysis Date: 10/1/2010 9:03:00 AM	SeqNo: 1986374	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	ND	0.5			

Sample ID: LCS-R63324	SampType: LCS	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 63324
Client ID:		Batch ID: 4400	Analysis Date: 9/24/2010 10:38:00 AM	SeqNo: 1979213	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	5.2±0.3	0.5	5		104 50 150

Sample ID: LCS-R63331	SampType: LCS	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 63331
Client ID:		Batch ID: 4401	Analysis Date: 9/24/2010 4:19:00 PM	SeqNo: 1979293	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	8.2 ± 0.5	0.5	9.52		86.1 50 150

134

TR Addendum 2.9-C

- Qualifiers:**
- E Value above quantitation range
 - L Analyzed by a contract laboratory
 - O Outside the Range of Dilutions
 - H Holding times for preparation or analysis exceeded
 - M Value exceeds Monthly Ave or MCL
 - R RPD outside accepted recovery limits
 - J Analyte detected below quantitation limits
 - ND Not Detected at the Reporting Limit
 - S Spike Recovery outside accepted recovery limits



ANALYTICAL QC SUMMARY REPORT

Date: 10/20/2010

CLIENT: Western Water Consultants
Work Order: S1006489
Project: SENES Radiological Samples

Report ID: S1006489001

Sample ID: LCS-R63388	SampType: LCS	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 63388
Client ID:		Batch ID: 4402	Analysis Date: 9/27/2010 10:52:00 AM	SeqNo: 1980863	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	7.8± 0.4	0.5	5.88		132 50 150

Sample ID: LCS10-266B	SampType: LCS	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 63392
Client ID:		Batch ID: 4403	Analysis Date: 9/27/2010 5:18:00 PM	SeqNo: 1980919	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	8.2 ± 0.4	0.5	5.88		140 50 150

Sample ID: LCS10-270A	SampType: LCS	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 63519
Client ID:		Batch ID: 4404	Analysis Date: 9/30/2010 2:15:00 PM	SeqNo: 1986244	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	8.8±0.5	0.5	9.52		91.9 50 150

Sample ID: S1006489-001AMS	SampType: MS	TestCode: R226_S	Units: pCi/g	Prep Date: 8/11/2010	RunNo: 63324
Client ID: RP-1		Batch ID: 4400	Analysis Date: 9/24/2010 10:38:00 AM	SeqNo: 1979233	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	6.3 ± 0.3	0.5	5	1.61	94.3 50 150

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
L Analyzed by a contract laboratory M Value exceeds Monthly Ave or MCL ND Not Detected at the Reporting Limit
O Outside the Range of Dilutions R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits



ANALYTICAL QC SUMMARY REPORT

Date: 10/20/2010

CLIENT: Western Water Consultants
Work Order: S1006489
Project: SENES Radiological Samples

Report ID: S1006489001

Sample ID: S1006489-012AMS	SampType: MS	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 63324						
Client ID: RP-3		Batch ID: 4400	Analysis Date: 9/24/2010 2:02:00 PM		SeqNo: 1979235						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium 226	6.1 ± 0.3	0.5	5	0.501	112	50	150				

Sample ID: S1006489-020AMS	SampType: MS	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 63331						
Client ID: RP-5		Batch ID: 4401	Analysis Date: 9/24/2010 4:19:00 PM		SeqNo: 1979312						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium 226	8.6 ± 0.4	0.5	9.52	1.07	79.2	50	150				

Sample ID: S1006489-029AMS	SampType: MS	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 63331						
Client ID: RP-9		Batch ID: 4401	Analysis Date: 9/24/2010 7:17:00 PM		SeqNo: 1979314						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium 226	9.4 ± 0.5	0.5	9.52	1.37	84.6	50	150				

Sample ID: S1006489-035AMS	SampType: MS	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 63388						
Client ID: RP-10		Batch ID: 4402	Analysis Date: 9/27/2010 10:52:00 AM		SeqNo: 1980882						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium 226	8.9 ± 0.5	0.5	9.52	1.91	73.4	50	150				

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 L Analyzed by a contract laboratory M Value exceeds Monthly Ave or MCL ND Not Detected at the Reporting Limit
 O Outside the Range of Dilutions R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits



ANALYTICAL QC SUMMARY REPORT

Date: 10/20/2010

CLIENT: Western Water Consultants
Work Order: S1006489
Project: SENES Radiological Samples

Report ID: S1006489001

Sample ID: S1006489-044AMS	SampType: MS	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 63388
Client ID: RP-12		Batch ID: 4402	Analysis Date: 9/27/2010 10:52:00 AM		SeqNo: 1980884
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	8.4 ± 0.4	0.5	9.52	1.17	75.5 50 150

Sample ID: S1006489-053AMS	SampType: MS	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 63392
Client ID: RP-13		Batch ID: 4403	Analysis Date: 9/27/2010 5:18:00 PM		SeqNo: 1980938
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	8.8 ± 0.4	0.5	9.52	1.11	80.9 50 150

Sample ID: S1006489-055AMS	SampType: MS	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 63392
Client ID: RP-14		Batch ID: 4403	Analysis Date: 9/27/2010 5:18:00 PM		SeqNo: 1980940
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	9.3 ± 0.5	0.5	9.52	1.79	78.4 50 150

Sample ID: S1006489-079AMS	SampType: MS	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 63519
Client ID: RS-12		Batch ID: 4404	Analysis Date: 9/30/2010 2:15:00 PM		SeqNo: 1986268
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	8.7±0.5	0.5	9.52	2.03	70.3 50 150

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
L Analyzed by a contract laboratory M Value exceeds Monthly Ave or MCL ND Not Detected at the Reporting Limit
O Outside the Range of Dilutions R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Ross ISR Project

137

TR Addendum 2.9-C



ANALYTICAL QC SUMMARY REPORT

Date: 10/20/2010

CLIENT: Western Water Consultants
Work Order: S1006489
Project: SENES Radiological Samples

Report ID: S1006489001

Sample ID: S1006489-081AMS	SampType: MS	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 63519						
Client ID: RS-14		Batch ID: 4404	Analysis Date: 9/30/2010 2:15:00 PM		SeqNo: 1986270						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium 226	9.1±0.5	0.5	9.52	1.58	78.6	50	150				

Sample ID: S1006489-002ADUP	SampType: DUP	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 63324						
Client ID: RP-1		Batch ID: 4400	Analysis Date: 9/24/2010 10:38:00 AM		SeqNo: 1979234						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium 226	1.1 ± 0.2	0.5						1.08	0.520	20	

Sample ID: S1006489-016ADUP	SampType: DUP	TestCode: R226_S	Units: pCi/g	Prep Date: 8/11/2010	RunNo: 63324						
Client ID: RP-4		Batch ID: 4400	Analysis Date: 9/24/2010 2:02:00 PM		SeqNo: 1979236						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium 226	0.5 ± 0.1	0.5						0.332	0	20	

Sample ID: S1006489-021ADUP	SampType: DUP	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 63331						
Client ID: RP-6		Batch ID: 4401	Analysis Date: 9/24/2010 4:19:00 PM		SeqNo: 1979313						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium 226	1.0 ± 0.2	0.5						1.25	22.9	20	R

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
L Analyzed by a contract laboratory M Value exceeds Monthly Ave or MCL ND Not Detected at the Reporting Limit
O Outside the Range of Dilutions R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits



ANALYTICAL QC SUMMARY REPORT

Date: 10/20/2010

CLIENT: Western Water Consultants
Work Order: S1006489
Project: SENES Radiological Samples

Report ID: S1006489001

Sample ID: S1006489-030ADUP	SampType: DUP	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 63331						
Client ID: RP-9		Batch ID: 4401		Analysis Date: 9/24/2010 7:17:00 PM	SeqNo: 1979315						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium 226	1.5 ± 0.2	0.5						1.59	8.01	20	

Sample ID: S1006489-045ADUP	SampType: DUP	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 63388						
Client ID: RP-12		Batch ID: 4402		Analysis Date: 9/27/2010 10:52:00 AM	SeqNo: 1980885						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium 226	1.4 ± 0.2	0.5						1.11	29.2	20	R

Sample ID: S1006489-054ADUP	SampType: DUP	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 63392						
Client ID: RP-14		Batch ID: 4403		Analysis Date: 9/27/2010 5:18:00 PM	SeqNo: 1980939						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium 226	1.9 ± 0.2	0.5						2.01	5.95	20	

Sample ID: S1006489-056ADUP	SampType: DUP	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 63392						
Client ID: RP-14		Batch ID: 4403		Analysis Date: 9/27/2010 5:18:00 PM	SeqNo: 1980955						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium 226	1.5 ± 0.2	0.5						2.02	24.4	20	R

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 L Analyzed by a contract laboratory M Value exceeds Monthly Ave or MCL ND Not Detected at the Reporting Limit
 O Outside the Range of Dilutions R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Ross ISR Project

139

TR Addendum 2.9-C



ANALYTICAL QC SUMMARY REPORT

Date: 10/20/2010

CLIENT: Western Water Consultants
Work Order: S1006489
Project: SENES Radiological Samples

Report ID: S1006489001

Sample ID: S1006489-079ADUP	SampType: DUP	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 63519						
Client ID: RS-12		Batch ID: 4404	Analysis Date: 9/30/2010 2:15:00 PM		SeqNo: 1986267						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium 226	1.8±0.2	0.5						2.03	13.6	20	

Sample ID: S1006489-081ADUP	SampType: DUP	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 63519						
Client ID: RS-14		Batch ID: 4404	Analysis Date: 9/30/2010 2:15:00 PM		SeqNo: 1986269						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium 226	1.5±0.2	0.5						1.58	1.01	20	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
L Analyzed by a contract laboratory M Value exceeds Monthly Ave or MCL ND Not Detected at the Reporting Limit
O Outside the Range of Dilutions R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Ross ISR Project

140

TR Addendum 2.9-C



ANALYTICAL QC SUMMARY REPORT

Date: 10/20/2010

CLIENT: Western Water Consultants
Work Order: S1006489
Project: SENES Radiological Samples

Report ID: S1006489001

Sample ID: ics	SampType: LCS	TestCode: TOT3050_200.8_S	Units: ppm	Prep Date:	RunNo: 62180						
Client ID:		Batch ID: 4400		Analysis Date: 8/20/2010 10:19:37 AM	SeqNo: 1945999						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Uranium	0.098	0.001	0.1		98.1	85	115				

Sample ID: ics	SampType: LCS	TestCode: TOT3050_200.8_S	Units: ppm	Prep Date:	RunNo: 62180						
Client ID:		Batch ID: 4401		Analysis Date: 8/20/2010 11:51:33 AM	SeqNo: 1946023						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Uranium	0.099	0.001	0.1		0	85	115				

Sample ID: ics	SampType: LCS	TestCode: TOT3050_200.8_S	Units: ppm	Prep Date:	RunNo: 62237						
Client ID:		Batch ID: R62237		Analysis Date: 8/23/2010 10:41:08 AM	SeqNo: 1947377						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Uranium	0.100	0.001	0.1		100	85	115				

Sample ID: ics	SampType: LCS	TestCode: TOT3050_200.8_S	Units: ppm	Prep Date:	RunNo: 62275						
Client ID:		Batch ID: 4403		Analysis Date: 8/24/2010 10:37:40 AM	SeqNo: 1948283						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Uranium	0.109	0.001	0.1		109	85	115				

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 L Analyzed by a contract laboratory M Value exceeds Monthly Ave or MCL ND Not Detected at the Reporting Limit
 O Outside the Range of Dilutions R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits



ANALYTICAL QC SUMMARY REPORT

Date: 10/20/2010

CLIENT: Western Water Consultants
Work Order: S1006489
Project: SENES Radiological Samples

Report ID: S1006489001

Sample ID: Ics	SampType: LCS	TestCode: TOT3050_200.8_S	Units: ppm	Prep Date:	RunNo: 63522						
Client ID:		Batch ID: R63522	Analysis Date: 9/29/2010 11:04:54 AM		SeqNo: 1986360						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Uranium	0.098	0.001	0.1		98.1	85	115				

Sample ID: S1006489-003A	SampType: DUP	TestCode: TOT3050_200.8_S	Units: mg/Kg	Prep Date: 8/11/2010	RunNo: 62180						
Client ID: RP-1		Batch ID: 4400	Analysis Date: 8/20/2010 10:57:07 AM		SeqNo: 1946003						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Uranium	1.79	0.001						1.76	2.04	0	

Sample ID: S1006489-032A	SampType: DUP	TestCode: TOT3050_200.8_S	Units: mg/Kg	Prep Date: 8/11/2010	RunNo: 62180						
Client ID: RP-9		Batch ID: 4401	Analysis Date: 8/20/2010 11:46:37 AM		SeqNo: 1946022						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Uranium	1.12	0.001						1.08	3.36	0	

Sample ID: S1006489-069A	SampType: DUP	TestCode: TOT3050_200.8_S	Units: mg/Kg	Prep Date: 8/23/2010	RunNo: 62304						
Client ID: RS-2		Batch ID: 4404	Analysis Date: 8/25/2010 9:16:59 AM		SeqNo: 1949061						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Uranium	1.37	0.001						1.38	0.616	0	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
L Analyzed by a contract laboratory M Value exceeds Monthly Ave or MCL ND Not Detected at the Reporting Limit
O Outside the Range of Dilutions R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Ross ISR Project

142

TR Addendum 2.9-C



ANALYTICAL QC SUMMARY REPORT

Date: 10/20/2010

CLIENT: Western Water Consultants
Work Order: S1006489
Project: SENES Radiological Samples

Report ID: S1006489001

Sample ID: S1006489-084A	SampType: DUP	TestCode: TOT3050_200.8_S	Units: mg/Kg	Prep Date: 8/23/2010	RunNo: 62304
Client ID: RS-16		Batch ID: 4404	Analysis Date: 8/25/2010 9:49:45 AM	SeqNo: 1949077	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	1.03	0.001			1.02 0.811 0

Sample ID: S1006489-091A	SampType: DUP	TestCode: TOT3050_200.8_S	Units: mg/Kg	Prep Date:	RunNo: 63522
Client ID: RS-21		Batch ID: R63522	Analysis Date: 9/29/2010 11:23:37 AM	SeqNo: 1986366	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	ND	0.01			0.831 0 0

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
L Analyzed by a contract laboratory M Value exceeds Monthly Ave or MCL ND Not Detected at the Reporting Limit
O Outside the Range of Dilutions R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Ross ISR Project

143

TR Addendum 2.9-C




Isotopic Thorium Case Narrative

Inter-Mountain Labs Western Water

Work Order Number: 1008346

1. This report consists of the analytical results for 15 water samples received by ALS on 08/26/10.
2. These samples were prepared according to procedures SOP773R10 and SOP777R9.
3. The samples were analyzed for the presence of isotopic thorium according to procedure SOP714R12. The analyses were completed on 10/02/10.
4. The analysis results for these samples are reported in units of pCi/L. These samples were not filtered prior to analysis.
5. Due to insufficient sample volume, a laboratory control sample duplicate (LCSD) was prepared in lieu of a prep batch duplicate.
6. No anomalous situations were encountered during the preparation or analysis of these samples. All quality control criteria were met.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.



Linda Arend
Radiochemistry Primary Data Reviewer

10-05-10
Date



Radiochemistry Final Data Reviewer

10/06/10
Date

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

Paragon OrderNum: 1008346

Client Name: Inter-Mountain Labs

Client Project Name: Western Water

Client Project Number:

Client PO Number: 237543

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
RP-1	1008346-1		WATER	21-Jun-10	
RP-1	1008346-2		WATER	21-Jun-10	
RP-1	1008346-3		WATER	21-Jun-10	
RP-1	1008346-4		WATER	21-Jun-10	
RP-2	1008346-5		WATER	21-Jun-10	
RP-3	1008346-6		WATER	10-Jun-10	
RP-4	1008346-7		WATER	10-Jun-10	
RP-5	1008346-8		WATER	10-Jun-10	
RP-6	1008346-9		WATER	10-Jun-10	
RP-6	1008346-10		WATER	10-Jun-10	
RP-6	1008346-11		WATER	10-Jun-10	
RP-6	1008346-12		WATER	10-Jun-10	
RP-9	1008346-13		WATER	21-Jun-10	
RP-9	1008346-14		WATER	21-Jun-10	
RP-9	1008346-15		WATER	21-Jun-10	

Inter-Mountain Laboratories, Inc.
 1673 Terra Avenue, Sheridan, WY 82801
 Phone 800-828-1097 FAX 307-672-6053

Relinquished by: Kathy Boyd
 Date/Time: 8/24/10 15:00
 Received by Lab: [Signature]
 Date/Time: 8/26/10 1300

1008346

Sent
8/24/10

CHAIN OF CUSTODY RECORD

Indicate Client is: Western Water

Sent to: ALS Laboratory Group
Ft. Collins CO 970 490 1511

P. O.: 237543

Sample ID	IML Lab Number	Sample Date	Sample Time	Number of Containers	Sample Matrix	Analysis
RP-1	S1006489-001	6/21/2010		1	water	Total Thorium 230
RP-1	S1006489-002	6/21/2010		1	water	
RP-1	S1006489-003	6/21/2010		1	water	
RP-1	S1006489-004	6/21/2010		1	water	
RP-2	S1006489-008	6/21/2010		1	water	
RP-3	S1006489-012	6/10/2010		1	water	
RP-4	S1006489-016	6/10/2010		1	water	
RP-5	S1006489-020	6/10/2010		1	water	
RP-6	S1006489-021	6/10/2010		1	water	
RP-6	S1006489-022	6/10/2010		1	water	
RP-6	S1006489-023	6/10/2010		1	water	
RP-6	S1006489-024	6/10/2010		1	water	e-mail copy of results to:
RP-9	S1006489-029	6/21/2010		1	water	waden@imlinc.com
RP-9	S1006489-030	6/21/2010		1	water	
RP-9	S1006489-031	6/21/2010		1	water	
						Thank You
						Invoice to IML /Std Turnaround



CONDITION OF SAMPLE UPON RECEIPT FORM

Client: JML

Workorder No: 1008340

Project Manager: AW

Initials: Dee Date: 8-26-10

1. Does this project require any special handling in addition to standard Paragon procedures?		YES	NO
2. Are custody seals on shipping containers intact?	NONE	YES	NO
3. Are Custody seals on sample containers intact?	NONE	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		YES	NO
5. Are the COC and bottle labels complete and legible?		YES	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		YES	NO
7. Were airbills / shipping documents present and/or removable?	DROP OFF	YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A	YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	N/A	YES	NO
10. Is there sufficient sample for the requested analyses?		YES	NO
11. Were all samples placed in the proper containers for the requested analyses?		YES	NO
12. Are all samples within holding times for the requested analyses?		YES	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		YES	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: <u>< green pea</u> > green pea	N/A	YES	NO
15. Do perchlorate LCMS-MS samples have headspace? (at least 1/3 of container required)	N/A	YES	NO
16. Were samples checked for and free from the presence of residual chlorine? (Applicable when PM has indicated samples are from a chlorinated water source; note if field preservation with sodium thiosulfate was not observed.)	N/A	YES	NO
17. Were the samples shipped on ice?		YES	NO
18. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: #2 #4		RAD ONLY	YES NO
Cooler #: <u>1</u>			
Temperature (°C): <u>AW</u>			
No. of custody seals on cooler: _____			
DOT Survey/Acceptance Information	External µR/hr reading: <u>11</u>		
	Background µR/hr reading: <u>11</u>		
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO NA (If no, see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16

If applicable, was the client contacted? YES / NO (NA) Contact: _____ Date/Time: _____

Project Manager Signature / Date: [Signature] 8/30/10

*IR Gun #2: Oakton, SN 29922500201-0066

*IR Gun #4: Oakton, SN 2372220101-0002

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Method Blank Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1008346

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS100920-1AMB	Sample Matrix: WATER Prep SOP: PAI 777 Rev 9 Date Collected: 20-Sep-10 Date Prepared: 20-Sep-10 Date Analyzed: 27-Sep-10	Prep Batch: AS100920-1 QCBatchID: AS100920-1-1 Run ID: AS100920-1T Count Time: 1000 minutes	Final Aliquot: 1000 ml Result Units: pCi/l File Name: Spectrum #1
-----------------------	--	--	---

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.052 +/- 0.053	0.084	0.2	U

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.636	3.34	pCi/l	72.0	30 - 110 %	

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.

Abbreviations:

TPU - Total Propagated Uncertainty
MDC - Minimum Detectable Concentration
BDL - Below Detection Limit

M - Requested MDC not met.
B - Analyte concentration greater than MDC.
B3 - Analyte concentration greater than MDC but less than Requested MDC.

Data Package ID: TH1008346-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Laboratory Control Sample(s)

Lab Name: ALS Environmental -- FC

Work Order Number: 1008346

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS100920-1LCS

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 20-Sep-10
Date Prepared: 20-Sep-10
Date Analyzed: 27-Sep-10

Prep Batch: AS100920-1
QCBatchID: AS100920-1-1
Run ID: AS100920-1T
Count Time: 1000 minutes

Final Aliquot: 1000 ml
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
14269-63-7	Th-230	5.02 +/- 0.81	0.09	5.11	98.1	85 - 121	P

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.636	3.02	pCi/l	65.3	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: TH1008346-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Laboratory Control Sample(s)

Lab Name: ALS Environmental -- FC

Work Order Number: 1008346

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS100920-1LCSD

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 20-Sep-10
Date Prepared: 20-Sep-10
Date Analyzed: 27-Sep-10

Prep Batch: AS100920-1
QCBatchID: AS100920-1-1
Run ID: AS100920-1T
Count Time: 1000 minutes

Final Aliquot: 1000 ml
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
14269-63-7	Th-230	4.96 +/- 0.80	0.09	5.11	97.0	85 - 121	P

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.636	3.24	pCi/l	69.9	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: TH1008346-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Duplicate Sample Results (DER)

Lab Name: ALS Environmental -- FC

Work Order Number: 1008346

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	
Lab ID:	AS100920-1LCSD

Sample Matrix: WATER

Prep SOP: PAI 777 Rev 9

Date Collected: 20-Sep-10

Date Prepared: 20-Sep-10

Date Analyzed: 27-Sep-10

Prep Batch: AS100920-1

QCBatchID: AS100920-1-1

Run ID: AS100920-1T

Count Time: 1000 minutes

Final Aliquot: 1000 ml

Prep Basis: Unfiltered

Moisture(%): NA

Result Units: pCi/l

File Name: Spectrum #1

CASNO	Analyte	Sample				Duplicate				DER	DER Lim
		Result +/-	2 s TPU	MDC	Flags	Result +/-	2 s TPU	MDC	Flags		
14269-63-7	Th-230	5.02 +/-	0.81	0.09	P	4.96 +/-	0.80	0.09	P	0.0504	2.13

Comments:

Duplicate Qualifiers/Flags:

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits.

W - DER is greater than Warning Limit of 1.42

D - DER is greater than Control Limit of 2.13

LT - Result is less than Request MDC, greater than sample specific MDC

M - Requested MDC not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

P - LCS, Matrix Spike Recovery within control limits.

N - Matrix Spike Recovery outside control limits

Abbreviations:

TPU - Total Propagated Uncertainty

DER - Duplicate Error Ratio

BDL - Below Detection Limit

NR - Not Reported

Data Package ID: TH1008346-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1008346
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	RP-1
Lab ID:	1008346-1

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 21-Jun-10
Date Prepared: 20-Sep-10
Date Analyzed: 30-Sep-10

Prep Batch: AS100920-1
QCBatchID: AS100920-1-1
Run ID: AS100920-1T
Count Time: 800 minutes
Report Basis: Unfiltered

Final Aliquot: 995 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.60 +/- 0.13	0.09	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.659	3.73	pCi/l	80.0	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1008346-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1008346
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	RP-1
Lab ID:	1008346-2

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 21-Jun-10
Date Prepared: 20-Sep-10
Date Analyzed: 30-Sep-10

Prep Batch: AS100920-1
QCBatchID: AS100920-1-1
Run ID: AS100920-1T
Count Time: 800 minutes
Report Basis: Unfiltered

Final Aliquot: 995 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.68 +/- 0.14	0.09	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.659	3.62	pCi/l	77.7	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1008346-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1008346
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	RP-1
Lab ID:	1008346-3

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 21-Jun-10
Date Prepared: 20-Sep-10
Date Analyzed: 30-Sep-10

Prep Batch: AS100920-1
QCBatchID: AS100920-1-1
Run ID: AS100920-1T
Count Time: 800 minutes
Report Basis: Unfiltered

Final Aliquot: 995 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.96 +/- 0.18	0.09	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.659	3.71	pCi/l	79.6	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1008346-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1008346
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	RP-1
Lab ID:	1008346-4

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 21-Jun-10
Date Prepared: 20-Sep-10
Date Analyzed: 30-Sep-10

Prep Batch: AS100920-1
QCBatchID: AS100920-1-1
Run ID: AS100920-1T
Count Time: 800 minutes
Report Basis: Unfiltered

Final Aliquot: 995 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.72 +/- 0.17	0.12	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.659	2.02	pCi/l	43.4	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1008346-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1008346
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	RP-2
Lab ID:	1008346-5

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 21-Jun-10
Date Prepared: 20-Sep-10
Date Analyzed: 30-Sep-10

Prep Batch: AS100920-1
QCBatchID: AS100920-1-1
Run ID: AS100920-1T
Count Time: 800 minutes
Report Basis: Unfiltered

Final Aliquot: 995 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.97 +/- 0.19	0.09	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.659	3.45	pCi/l	74.1	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1008346-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1008346
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	RP-3
Lab ID:	1008346-6

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 10-Jun-10
Date Prepared: 20-Sep-10
Date Analyzed: 30-Sep-10

Prep Batch: AS100920-1
QCBatchID: AS100920-1-1
Run ID: AS100920-1T
Count Time: 800 minutes
Report Basis: Unfiltered

Final Aliquot: 995 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.234 +/- 0.078	0.091	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.659	3.77	pCi/l	81.0	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1008346-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1008346
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	RP-4
Lab ID:	1008346-7

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 10-Jun-10
Date Prepared: 20-Sep-10
Date Analyzed: 30-Sep-10

Prep Batch: AS100920-1
QCBatchID: AS100920-1-1
Run ID: AS100920-1T
Count Time: 800 minutes
Report Basis: Unfiltered

Final Aliquot: 995 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.148 +/- 0.067	0.093	0.2	LT

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.659	3.53	pCi/l	75.8	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1008346-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1008346
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	RP-5
Lab ID:	1008346-8

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 10-Jun-10
Date Prepared: 20-Sep-10
Date Analyzed: 30-Sep-10

Prep Batch: AS100920-1
QCBatchID: AS100920-1-1
Run ID: AS100920-1T
Count Time: 800 minutes
Report Basis: Unfiltered

Final Aliquot: 995 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.59 +/- 0.13	0.09	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.659	3.72	pCi/l	79.8	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1008346-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1008346
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	RP-6
Lab ID:	1008346-9

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 10-Jun-10
Date Prepared: 20-Sep-10
Date Analyzed: 30-Sep-10

Prep Batch: AS100920-1
QCBatchID: AS100920-1-1
Run ID: AS100920-1T
Count Time: 800 minutes
Report Basis: Unfiltered

Final Aliquot: 995 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.55 +/- 0.14	0.11	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.659	2.62	pCi/l	56.2	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1008346-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1008346
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	RP-6
Lab ID:	1008346-10

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 10-Jun-10
Date Prepared: 20-Sep-10
Date Analyzed: 30-Sep-10

Prep Batch: AS100920-1
QCBatchID: AS100920-1-1
Run ID: AS100920-1T
Count Time: 800 minutes
Report Basis: Unfiltered

Final Aliquot: 995 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.39 +/- 0.10	0.09	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.659	3.54	pCi/l	75.9	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1008346-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1008346
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	RP-6
Lab ID:	1008346-11

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 10-Jun-10
Date Prepared: 20-Sep-10
Date Analyzed: 30-Sep-10

Prep Batch: AS100920-1
QCBatchID: AS100920-1-1
Run ID: AS100920-1T
Count Time: 800 minutes
Report Basis: Unfiltered

Final Aliquot: 990 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.52 +/- 0.12	0.09	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.682	3.76	pCi/l	80.2	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1008346-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1008346
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	RP-6
Lab ID:	1008346-12

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 10-Jun-10
Date Prepared: 20-Sep-10
Date Analyzed: 30-Sep-10

Prep Batch: AS100920-1
QCBatchID: AS100920-1-1
Run ID: AS100920-1T
Count Time: 800 minutes
Report Basis: Unfiltered

Final Aliquot: 1000 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.53 +/- 0.12	0.09	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.636	3.35	pCi/l	72.2	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1008346-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1008346
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	RP-9
Lab ID:	1008346-13

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 21-Jun-10
Date Prepared: 20-Sep-10
Date Analyzed: 30-Sep-10

Prep Batch: AS100920-1
QCBatchID: AS100920-1-1
Run ID: AS100920-1T
Count Time: 800 minutes
Report Basis: Unfiltered

Final Aliquot: 1000 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.86 +/- 0.17	0.10	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.636	3.70	pCi/l	79.9	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1008346-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1008346
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	RP-9
Lab ID:	1008346-14

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 21-Jun-10
Date Prepared: 20-Sep-10
Date Analyzed: 02-Oct-10

Prep Batch: AS100920-1
QCBatchID: AS100920-1-1
Run ID: AS100920-1T
Count Time: 800 minutes
Report Basis: Unfiltered

Final Aliquot: 1000 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.48 +/- 0.12	0.09	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.636	3.17	pCi/l	68.4	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1008346-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1008346
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	RP-9
Lab ID:	1008346-15

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 21-Jun-10
Date Prepared: 20-Sep-10
Date Analyzed: 02-Oct-10

Prep Batch: AS100920-1
QCBatchID: AS100920-1-1
Run ID: AS100920-1T
Count Time: 800 minutes
Report Basis: Unfiltered

Final Aliquot: 1000 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.96 +/- 0.18	0.09	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.636	3.43	pCi/l	74.0	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1008346-1



Isotopic Thorium Case Narrative


Inter-Mountain Labs Western Water

Work Order Number: 1008348

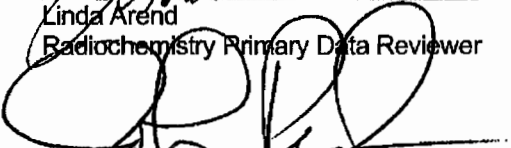
1. This report consists of the analytical results for four water samples received by ALS on 08/26/10.
2. These samples were prepared according to procedures SOP773R10 and SOP777R9.
3. The samples were analyzed for the presence of isotopic thorium according to procedure SOP714R12. The analyses were completed on 09/30/10.
4. The analysis results for these samples are reported in units of pCi/L. These samples were not filtered prior to analysis.
5. Due to alpha activity in the samples, a laboratory control sample duplicate (LCSD) was prepared in lieu of a prep batch duplicate.
6. Due to high alpha activity seen in pre-screen results, these samples were prepared at a reduced aliquot. Consequently, the requested MDC of 0.2 pCi/L was not achieved for all the samples, following a maximum count time of 1000 minutes. The samples are identified with an "M" or "M3" flag on the final reports. Samples identified with an "M3" flag have activity greater than the achieved MDC. Results are submitted without further qualification.
7. No further anomalous situations were encountered during the preparation or analysis of these samples. All remaining quality control criteria were met.



The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.



Linda Arend
Radiochemistry Primary Data Reviewer



Radiochemistry Final Data Reviewer

10-05-10
Date

10/06/10
Date

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

Paragon OrderNum: 1008348

Client Name: Inter-Mountain Labs

Client Project Name: Western Water

Client Project Number:

Client PO Number: 237544

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
RP-13	1008348-1		WATER	21-Jun-10	
RP-14	1008348-2		WATER	21-Jun-10	
RP-14	1008348-3		WATER	21-Jun-10	
RP-14	1008348-4		WATER	21-Jun-10	



CONDITION OF SAMPLE UPON RECEIPT FORM

Client: IML

Workorder No: 1008348

Project Manager: AW

Initials: CW Date: 8-26-10

1. Does this project require any special handling in addition to standard Paragon procedures?		YES	<input checked="" type="radio"/> NO
2. Are custody seals on shipping containers intact?	<input checked="" type="radio"/> NONE	YES	NO
3. Are Custody seals on sample containers intact?	<input checked="" type="radio"/> NONE	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<input checked="" type="radio"/> YES	NO
5. Are the COC and bottle labels complete and legible?		<input checked="" type="radio"/> YES	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<input checked="" type="radio"/> YES	NO
7. Were airbills / shipping documents present and/or removable?	<input checked="" type="radio"/> NONE	YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	<input checked="" type="radio"/> N/A	YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	<input checked="" type="radio"/> N/A	YES	NO
10. Is there sufficient sample for the requested analyses?		<input checked="" type="radio"/> YES	NO
11. Were all samples placed in the proper containers for the requested analyses?		<input checked="" type="radio"/> YES	NO
12. Are all samples within holding times for the requested analyses?		<input checked="" type="radio"/> YES	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		<input checked="" type="radio"/> YES	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: <u> </u> < green pea <u> </u> > green pea	<input checked="" type="radio"/> N/A	YES	NO
15. Do perchlorate LCMS-MS samples have headspace? (at least 1/3 of container required)	<input checked="" type="radio"/> N/A	YES	NO
16. Were samples checked for and free from the presence of residual chlorine? (Applicable when PM has indicated samples are from a chlorinated water source; note if field preservation with sodium thiosulfate was not observed.)	<input checked="" type="radio"/> N/A	YES	NO
17. Were the samples shipped on ice?		YES	<input checked="" type="radio"/> NO
18. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: #2 #4		<input checked="" type="radio"/> RAD ONLY	YES NO
Cooler #: <u>1</u>			
Temperature (°C): <u>4.5</u>			
No. of custody seals on cooler: <u>0</u>			
External µR/hr reading: <u>11</u>			
Background µR/hr reading: <u>11</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO / NA (If no, see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16

If applicable, was the client contacted? YES / NO / NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: C. W. 8/30/10

*IR Gun #2: Oakton, SN 29922500201-0066

*IR Gun #4: Oakton, SN 2372220101-0002

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Method Blank Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1008348

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS100921-5MB	Sample Matrix: WATER Prep SOP: PAI 777 Rev 9 Date Collected: 21-Sep-10 Date Prepared: 21-Sep-10 Date Analyzed: 30-Sep-10	Prep Batch: AS100921-5 QCBatchID: AS100921-5-1 Run ID: AS100921-5TH Count Time: 1000 minutes	Final Aliquot: 1000 ml Result Units: pCi/l File Name: Spectrum #1
----------------------	--	---	---

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	-0.015 +/- 0.046	0.084	0.2	U

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	3.07	pCi/l	69.7	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

- M - Requested MDC not met.
- B - Analyte concentration greater than MDC.
- B3 - Analyte concentration greater than MDC but less than Requested MDC.

Data Package ID: TH1008348-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Laboratory Control Sample(s)

Lab Name: ALS Environmental -- FC

Work Order Number: 1008348

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS100921-5LCS	Sample Matrix: WATER Prep SOP: PAI 777 Rev 9 Date Collected: 21-Sep-10 Date Prepared: 21-Sep-10 Date Analyzed: 30-Sep-10	Prep Batch: AS100921-5 QCBatchID: AS100921-5-1 Run ID: AS100921-5TH Count Time: 1000 minutes	Final Aliquot: 1000 ml Result Units: pCi/l File Name: Spectrum #1
-----------------------	--	---	---

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
14269-63-7	Th-230	5.43 +/- 0.87	0.09	5.11	106	85 - 121	P

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	3.28	pCi/l	74.4	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: TH1008348-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Laboratory Control Sample(s)

Lab Name: ALS Environmental -- FC

Work Order Number: 1008348

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS100921-5LCSD

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 21-Sep-10
Date Prepared: 21-Sep-10
Date Analyzed: 30-Sep-10

Prep Batch: AS100921-5
QCBatchID: AS100921-5-1
Run ID: AS100921-5TH
Count Time: 1000 minutes

Final Aliquot: 1000 ml
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
14269-63-7	Th-230	5.11 +/- 0.81	0.08	5.11	99.9	85 - 121	P

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	3.42	pCi/l	77.7	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: TH1008348-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Duplicate Sample Results (DER)

Lab Name: ALS Environmental -- FC

Work Order Number: 1008348

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	
Lab ID:	AS100921-5LCSD

Sample Matrix: WATER

Prep SOP: PAI 777 Rev 9

Date Collected: 21-Sep-10

Date Prepared: 21-Sep-10

Date Analyzed: 30-Sep-10

Prep Batch: AS100921-5

QCBatchID: AS100921-5-1

Run ID: AS100921-5TH

Count Time: 1000 minutes

Final Aliquot: 1000 ml

Prep Basis: Unfiltered

Moisture(%): NA

Result Units: pCi/l

File Name: Spectrum #1

CASNO	Analyte	Sample				Duplicate				DER	DER Lim
		Result +/-	2 s TPU	MDC	Flags	Result +/-	2 s TPU	MDC	Flags		
14269-63-7	Th-230	5.43 +/-	0.87	0.09	P	5.11 +/-	0.81	0.08	P	0.273	2.13

Comments:

Duplicate Qualifiers/Flags:

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits.

W - DER is greater than Warning Limit of 1.42

D - DER is greater than Control Limit of 2.13

LT - Result is less than Request MDC, greater than sample specific MDC

M - Requested MDC not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

P - LCS, Matrix Spike Recovery within control limits.

N - Matrix Spike Recovery outside control limits

Abbreviations:

TPU - Total Propagated Uncertainty

DER - Duplicate Error Ratio

BDL - Below Detection Limit

NR - Not Reported

Data Package ID: TH1008348-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1008348
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	RP-13
Lab ID:	1008348-1

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 21-Jun-10
Date Prepared: 21-Sep-10
Date Analyzed: 28-Sep-10

Prep Batch: AS100921-5
QCBatchID: AS100921-5-1
Run ID: AS100921-5TH
Count Time: 1000 minutes
Report Basis: Unfiltered

Final Aliquot: 100 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	-0.07 +/- 0.41	0.73	0.2	U,M

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	44.10	37.0	pCi/l	83.9	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1008348-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1008348
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	RP-14
Lab ID:	1008348-2

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 21-Jun-10
Date Prepared: 21-Sep-10
Date Analyzed: 28-Sep-10

Prep Batch: AS100921-5
QCBatchID: AS100921-5-1
Run ID: AS100921-5TH
Count Time: 1000 minutes
Report Basis: Unfiltered

Final Aliquot: 100 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	1.29 +/- 0.59	0.80	0.2	M3

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	44.10	33.7	pCi/l	76.5	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1008348-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1008348
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	RP-14
Lab ID:	1008348-3

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 21-Jun-10
Date Prepared: 21-Sep-10
Date Analyzed: 28-Sep-10

Prep Batch: AS100921-5
QCBatchID: AS100921-5-1
Run ID: AS100921-5TH
Count Time: 1000 minutes
Report Basis: Unfiltered

Final Aliquot: 30.0 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.7 +/- 1.5	2.6	0.2	U,M

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	147.0	110	pCi/l	74.7	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1008348-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1008348
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	RP-14
Lab ID:	1008348-4

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 21-Jun-10
Date Prepared: 21-Sep-10
Date Analyzed: 28-Sep-10

Prep Batch: AS100921-5
QCBatchID: AS100921-5-1
Run ID: AS100921-5TH
Count Time: 1000 minutes
Report Basis: Unfiltered

Final Aliquot: 50.0 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	-0.01 +/- 0.97	1.73	0.2	U,M

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	88.20	58.3	pCi/l	66.1	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1008348-1




Isotopic Thorium Case Narrative

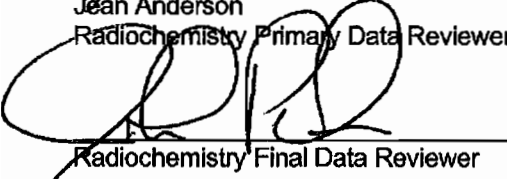
Inter-Mountain Labs Western Water

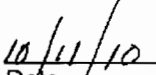
Work Order Number: 1009017


1. This report consists of the analytical results for three water samples received by ALS on 09/01/2010.
2. These samples were prepared according to procedures SOP776R11 and SOP777R9.
3. The samples were analyzed for the presence of isotopic thorium according to procedure SOP714R12. The analyses were completed on 10/03/2010.
4. The analysis results for these samples are reported in units of pCi/L. The water samples were not filtered prior to analysis.
5. Due to insufficient sample volume, a laboratory control sample duplicate (LCSD) was prepared in lieu of a prep batch duplicate.
6. No anomalous situations were encountered during the preparation or analysis of these samples. All quality control criteria were met.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.


Jean Anderson
Radiochemistry Primary Data Reviewer


Radiochemistry Final Data Reviewer


Date


Date

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

Paragon OrderNum: 1009017

Client Name: Inter-Mountain Labs

Client Project Name: Western Water

Client Project Number:

Client PO Number: 237564

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
RS-12	1009017-1		WATER	21-Jun-10	
RS-14	1009017-2		WATER	21-Jun-10	
RS-19	1009017-3		WATER	21-Jun-10	



CONDITION OF SAMPLE UPON RECEIPT FORM

Client: IML

Workorder No: 1009017

Project Manager: ARW

Initials: LAS Date: 9/1/10

1. Does this project require any special handling in addition to standard Paragon procedures?		YES	<input checked="" type="radio"/> NO
2. Are custody seals on shipping containers intact?	<input checked="" type="radio"/> NONE	YES	NO
3. Are Custody seals on sample containers intact?	<input checked="" type="radio"/> NONE	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<input checked="" type="radio"/> YES	NO
5. Are the COC and bottle labels complete and legible?		<input checked="" type="radio"/> YES	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		YES	<input checked="" type="radio"/> NO *
7. Were airbills / shipping documents present and/or removable?	DROP OFF	<input checked="" type="radio"/> YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A	<input checked="" type="radio"/> YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	<input checked="" type="radio"/> N/A	YES	NO
10. Is there sufficient sample for the requested analyses?		<input checked="" type="radio"/> YES	NO
11. Were all samples placed in the proper containers for the requested analyses?		<input checked="" type="radio"/> YES	NO
12. Are all samples within holding times for the requested analyses?		<input checked="" type="radio"/> YES	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		<input checked="" type="radio"/> YES	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CNS, radon) headspace free? Size of bubble: _____ < green pea _____ > green pea	<input checked="" type="radio"/> N/A	YES	NO
15. Do perchlorate LCMS-MS samples have headspace? (at least 1/3 of container required)	<input checked="" type="radio"/> N/A	YES	NO
16. Were samples checked for and free from the presence of residual chlorine? (Applicable when PM has indicated samples are from a chlorinated water source; note if field preservation with sodium thiosulfate was not observed.)	<input checked="" type="radio"/> N/A	YES	NO
17. Were the samples shipped on ice?		YES	<input checked="" type="radio"/> NO
18. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: #2 #4		<input checked="" type="radio"/> RAD ONLY	YES <input checked="" type="radio"/> NO <input checked="" type="radio"/>
Cooler #: <u>1</u>			
Temperature (°C): <u>Amb</u>			
No. of custody seals on cooler: <u>0</u>			
External µR/hr reading: <u>12</u>			
Background µR/hr reading: <u>11</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? <input checked="" type="radio"/> YES <input type="radio"/> NO <input type="radio"/> NA (if no, see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16

*1009017-3-1 on COC has ID# = RS-19 & has same IML Lab bottle label ID# = RS-185 number = S1006489-089

ID is RS-19 - per Lacy Ketran 9/1/10

If applicable, was the client contacted? YES NO NA Contact: Wade Newsom Date/Time: 9/5/10
2 mail

Project Manager Signature / Date: [Signature] 9/8/10

*IR Gun #2: Oakton, SN 29922500201-0066

*IR Gun #4: Oakton, SN 2372220101-0002

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Method Blank Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009017

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS100924-1MB	Sample Matrix: WATER Prep SOP: PAI 777 Rev 9 Date Collected: 27-Sep-10 Date Prepared: 27-Sep-10 Date Analyzed: 02-Oct-10	Prep Batch: AS100924-1 QCBatchID: AS100924-1-1 Run ID: AS100924-1TH Count Time: 900 minutes	Final Aliquot: 1000 ml Result Units: pCi/l File Name: Spectrum #1
----------------------	--	--	---

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	-0.012 +/- 0.053	0.098	0.2	U

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.91	pCi/l	66.1	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

- M - Requested MDC not met.
- B - Analyte concentration greater than MDC.
- B3 - Analyte concentration greater than MDC but less than Requested MDC.

Data Package ID: TH1009017-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Laboratory Control Sample(s)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009017

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS100924-1LCS	Sample Matrix: WATER Prep SOP: PAI 777 Rev 9 Date Collected: 27-Sep-10 Date Prepared: 27-Sep-10 Date Analyzed: 02-Oct-10	Prep Batch: AS100924-1 QCBatchID: AS100924-1-1 Run ID: AS100924-1TH Count Time: 900 minutes	Final Aliquot: 1000 ml Result Units: pCi/l File Name: Spectrum #1
-----------------------	--	--	---

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
14269-63-7	Th-230	4.87 +/- 0.79	0.09	5.11	95.2	85 - 121	P

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	3.10	pCi/l	70.3	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: TH1009017-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Laboratory Control Sample(s)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009017

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS100924-1LCSD

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 27-Sep-10
Date Prepared: 27-Sep-10
Date Analyzed: 03-Oct-10

Prep Batch: AS100924-1
QCBatchID: AS100924-1-1
Run ID: AS100924-1TH
Count Time: 900 minutes

Final Aliquot: 1000 ml
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
14269-63-7	Th-230	4.94 +/- 0.82	0.10	5.11	96.6	85 - 121	P

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.37	pCi/l	53.8	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: TH1009017-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Duplicate Sample Results (DER)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009017

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	
Lab ID:	AS100924-1LCSD

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 27-Sep-10
Date Prepared: 27-Sep-10
Date Analyzed: 03-Oct-10

Prep Batch: AS100924-1
QCBatchID: AS100924-1-1
Run ID: AS100924-1TH
Count Time: 900 minutes

Final Aliquot: 1000 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Analyte	Sample				Duplicate				DER	DER Lim
		Result +/-	2 s TPU	MDC	Flags	Result +/-	2 s TPU	MDC	Flags		
14269-63-7	Th-230	4.87 +/-	0.79	0.09	P	4.94 +/-	0.82	0.10	P	0.0611	2.13

Comments:

Duplicate Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
- Y2 - Chemical Yield outside default limits.
- W - DER is greater than Warning Limit of 1.42
- D - DER is greater than Control Limit of 2.13
- LT - Result is less than Request MDC, greater than sample specific MDC
- M - Requested MDC not met.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS, Matrix Spike Recovery within control limits.
- N - Matrix Spike Recovery outside control limits

Abbreviations:

- TPU - Total Propagated Uncertainty
- DER - Duplicate Error Ratio
- BDL - Below Detection Limit
- NR - Not Reported

Data Package ID: TH1009017-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009017

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	RS-12
Lab ID:	1009017-1

Sample Matrix: WATER

Prep SOP: PAI 777 Rev 9

Date Collected: 21-Jun-10

Date Prepared: 27-Sep-10

Date Analyzed: 02-Oct-10

Prep Batch: AS100924-1

QC Batch ID: AS100924-1-1

Run ID: AS100924-1TH

Count Time: 900 minutes

Report Basis: Unfiltered

Final Aliquot: 990 ml

Prep Basis: Unfiltered

Moisture(%): NA

Result Units: pCi/l

File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.72 +/- 0.17	0.12	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.455	1.81	pCi/l	40.6	30 - 110 %	

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: TH1009017-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1009017
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	RS-14
Lab ID:	1009017-2

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 21-Jun-10
Date Prepared: 27-Sep-10
Date Analyzed: 02-Oct-10

Prep Batch: AS100924-1
QCBatchID: AS100924-1-1
Run ID: AS100924-1TH
Count Time: 900 minutes
Report Basis: Unfiltered

Final Aliquot: 980 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.59 +/- 0.13	0.09	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.500	3.14	pCi/l	69.7	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1009017-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1009017
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	RS-19
Lab ID:	1009017-3

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 21-Jun-10
Date Prepared: 27-Sep-10
Date Analyzed: 02-Oct-10

Prep Batch: AS100924-1
QCBatchID: AS100924-1-1
Run ID: AS100924-1TH
Count Time: 900 minutes
Report Basis: Unfiltered

Final Aliquot: 990 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.281 +/- 0.084	0.091	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.455	3.20	pCi/l	71.9	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1009017-1



Inter-Mountain Laboratories, Inc.
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

This is a LEGAL DOCUMENT. All shaded fields must be completed.

Submit by Email

Print Form

WEB

Ross ISR Project

192

TR Addendum 2.9-C

Client Name SENES/BKS Environmental				Project Identification #614 WWC Radiological Sampling				Sampler (Signature/Printed) <i>Jacob Mulinix</i> / Jacob Mulinix				Telephone # 307-686-0800			
Report Address Lisa Manglass - SENES - 8310 South Valley Hwy Suite 300 Englewood, CO 80112				Contact Name and Email Jacob Mulinix Jmulinix@bksenvironmental.com Voice 307-686-0800 FAX				ANALYSES / PARAMETERS							
Invoice Address Ben Schiffer - WWC Engineering 1849 Terra Ave. Sheridan, WY 82801				Purchase Order #											
ITEM	LAB ID <i>(Lab Use Only)</i>	DATE	TIME	SAMPLE IDENTIFICATION		Matrix	# of Containers	U-Nat	Ra-226	Th-230	Pb-210	Gross Alpha	REMARKS		
1	<i>S1008298</i>	8-9-10	10:30 AM	RS-10	0-15	Soil	1	X	X			X			
2		8-9-10	9:55 AM	RS-13	0-15	Soil	1	X	X			X			
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
LAB COMMENTS				Relinquished By (Signature/Printed) <i>Jacob Mulinix</i> / Jacob Mulinix				DATE	TIME	Received By (Signature/Printed) <i>Alvin S. McNeil</i> <i>Karen Secor</i>				DATE	TIME
								8-12	3:00 PM					8/12/10	1300
														8/17/10	
SHIPPING INFO		MATRIX CODES		TURN AROUND TIMES		COMPLIANCE INFORMATION		ADDITIONAL REMARKS							
<input type="checkbox"/> UPS	Water	WT	Check desired service		Compliance Monitoring ?		Y / N								
<input type="checkbox"/> Fed Express	Soil	SL	<input checked="" type="checkbox"/> Standard turnaround		Program (SDWA, NPDES, ...)										
<input type="checkbox"/> US Mail	Solid	SD	<input type="checkbox"/> RUSH - 5 Working Days		PWSID / Permit #										
<input type="checkbox"/> Hand Carried	Trip Blank	TB	<input type="checkbox"/> URGENT - < 2 Working Days		Chlorinated?		Y / N								
<input type="checkbox"/> Other _____	Other	OT	<i>Rush & Urgent Surcharges will be applied</i>		Sample Disposal: Lab _____ Client _____										

2



Date: 10/15/2010

CLIENT: Western Water Consultants
Project: SENES Radiological Sampling
Lab Order: S1008298

CASE NARRATIVE
Report ID: S1008298001

Samples RP-17, RP-18, RP-7, RS-10, RS-13, RS-3, and RS-9 were received on August 17, 2010.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1998
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition
Methods indicated with the Monday, March 12, 2007 Federal Register, 40 CFR Part 122, 136 et al.

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Qualifiers by sample

S1008298-001 - Radiochemistry - Soil/Thorium230 - Analyzed by a contract laboratory
S1008298-002 - Radiochemistry - Soil/Thorium230 - Analyzed by a contract laboratory
S1008298-003 - Radiochemistry - Soil/Thorium230 - Analyzed by a contract laboratory
S1008298-004 - Radiochemistry - Soil/Thorium230 - Analyzed by a contract laboratory
S1008298-005 - Radiochemistry - Soil/Thorium230 - Analyzed by a contract laboratory
S1008298-006 - Radiochemistry - Soil/Thorium230 - Analyzed by a contract laboratory
S1008298-007 - Radiochemistry - Soil/Thorium230 - Analyzed by a contract laboratory
S1008298-008 - Radiochemistry - Soil/Thorium230 - Analyzed by a contract laboratory
S1008298-009 - Radiochemistry - Soil/Thorium230 - Analyzed by a contract laboratory
S1008298-010 - Radiochemistry - Soil/Thorium230 - Analyzed by a contract laboratory
S1008298-011 - Radiochemistry - Soil/Thorium230 - Analyzed by a contract laboratory
S1008298-012 - Radiochemistry - Soil/Thorium230 - Analyzed by a contract laboratory
S1008298-013 - Radiochemistry - Soil/Thorium230 - Analyzed by a contract laboratory
S1008298-014 - Radiochemistry - Soil/Thorium230 - Analyzed by a contract laboratory
S1008298-015 - Radiochemistry - Soil/Thorium230 - Analyzed by a contract laboratory
S1008298-016 - Radiochemistry - Soil/Thorium230 - Analyzed by a contract laboratory

Reviewed by: Karen A Secor
Karen Secor, Soil Lab Supervisor



Ross ISR Project

Soil Analysis Report
Western Water Consultants
1849 Terra
Sheridan, WY 82801

Report ID: S1008298001

Project: SENES Radiological Sampling

Date Reported: 10/15/2010

Date Received: 8/17/2010

Work Order: S1008298

Lab ID	Sample ID	Depths cm	Total	Gross	Lead	Radium	Thorium
			Uranium	Alpha	210	226	230
			mg/Kg	pCi/g	pCi/g	pCi/g	pCi/g
			6010C	SM 7110	OTW01	SM 7500	ACW10
S1008298-001	RP-7	0-15	<0.01	1.8 ± 0.4	1.1 ± 0.5	<0.5	0.47±0.11
S1008298-002	RP-7	0-30	<0.01	1.5 ± 0.4	1.1 ± 0.5	<0.5	0.51±0.11
S1008298-003	RP-7	30-60	<0.01	1.3 ± 0.4	0.8±0.6	<0.5	0.47±0.11
S1008298-004	RP-7	60-100	<0.01	1.2 ± 0.4	0.7±0.5	<0.5	0.48±0.11
S1008298-005	RP-17	0-15	<0.01	3.5 ± 0.6	1.1 ± 0.5	<0.5	0.57±0.12
S1008298-006	RP-17	0-30	<0.01	1.5 ± 0.4	1.2 ± 0.5	<0.5	0.54±0.12
S1008298-007	RP-17	30-60	<0.01	2.0 ± 0.5	0.8±0.5	<0.5	0.47±0.13
S1008298-008	RP-17	60-100	<0.01	1.1 ± 0.4	1.2 ± 0.6	<0.5	0.56±0.12
S1008298-009	RP-18	0-15	<0.01	1.5 ± 0.4	1.7 ± 0.5	<0.5	0.59±0.12
S1008298-010	RP-18	0-30	<0.01	1.9 ± 0.5	1.0±0.5	<0.5	0.54±0.12
S1008298-011	RP-18	30-60	<0.01	1.6 ± 0.4	<0.5	<0.5	0.49±0.12
S1008298-012	RP-18	60-100	<0.01	<1	2.0 ± 0.6	<0.5	0.44±0.11
S1008298-013	RS-3	0-15	<0.01	1.2 ± 0.4	1.1 ± 0.5	<0.5	0.60±0.13
S1008298-014	RS-9	0-15	<0.01	<1	1.3 ± 0.5	<0.5	0.217±0.078
S1008298-015	RS-10	0-15	<0.01	1.5 ± 0.4	1.2 ± 0.5	<0.5	0.401±0.099
S1008298-016	RS-13	0-15	<0.01	1.3 ± 0.4	1.2 ± 0.4	<0.5	0.420±0.099

194

TR Addendum 2.9-C

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H2OSol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Wade Nieuwsma
Wade Nieuwsma, Assistant Laboratory Manager



ANALYTICAL QC SUMMARY REPORT

Date: 10/21/2010

CLIENT: Western Water Consultants
Work Order: S1008298
Project: SENES Radiological Sampling

Report ID: S1008298001

Sample ID: MB10-278	SampType: MBLK	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63863
Client ID:		Batch ID: R63863	Analysis Date: 10/7/2010 5:58:00 PM		SeqNo: 1996546
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Gross Alpha	ND	1			

Sample ID: LCS10-278ALPHA	SampType: LCS	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63863
Client ID:		Batch ID: R63863	Analysis Date: 10/7/2010 5:58:00 PM		SeqNo: 1996547
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Gross Alpha	38.4±1.7	1	34.5		110 0 0

Sample ID: S1008298-006AMS	SampType: MS	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63863
Client ID: RP-17		Batch ID: R63863	Analysis Date: 10/7/2010 5:58:00 PM		SeqNo: 1996554
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Gross Alpha	28.4±1.6	1	34.5	1.5	77.8 60 140

Sample ID: S1008298-011AMS	SampType: MS	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63863
Client ID: RP-18		Batch ID: R63863	Analysis Date: 10/7/2010 5:58:00 PM		SeqNo: 1996561
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Gross Alpha	32.0±1.7	1	34.5	1.62	88.0 60 140

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
L Analyzed by a contract laboratory M Value exceeds Monthly Ave or MCL ND Not Detected at the Reporting Limit
O Outside the Range of Dilutions R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Ross ISR Project

195

TR Addendum 2.9-C



ANALYTICAL QC SUMMARY REPORT

Date: 10/21/2010

CLIENT: Western Water Consultants
Work Order: S1008298
Project: SENES Radiological Sampling

Report ID: S1008298001

Sample ID: S1008298-007ADUP	SampType: DUP	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63863						
Client ID: RP-17		Batch ID: R63863	Analysis Date: 10/7/2010 5:58:00 PM		SeqNo: 1996556						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gross Alpha	1.7±0.5	1						1.97	15.9	0	

Sample ID: S1008298-012ADUP	SampType: DUP	TestCode: GROSSALPHA_SOIL	Units: pCi/g	Prep Date:	RunNo: 63863						
Client ID: RP-18		Batch ID: R63863	Analysis Date: 10/7/2010 5:58:00 PM		SeqNo: 1996563						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gross Alpha	1.4±0.4	1						0.728	106	0	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
L	Analyzed by a contract laboratory	M	Value exceeds Monthly Ave or MCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

Ross ISR Project

196

TR Addendum 2.9-C



ANALYTICAL QC SUMMARY REPORT

Date: 10/21/2010

CLIENT: Western Water Consultants
Work Order: S1008298
Project: SENES Radiological Sampling

Report ID: S1008298001

Sample ID: MB10-263	SampType: MBLK	TestCode: PB210_SOIL	Units: pCi/g	Prep Date:	RunNo: 63802
Client ID:	Batch ID: 4519	Analysis Date: 10/2/2010 5:03:00 PM	SeqNo: 1994572		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	ND	0.5			

Sample ID: LCS10-263 PB-210	SampType: LCS	TestCode: PB210_SOIL	Units: pCi/g	Prep Date:	RunNo: 63802
Client ID:	Batch ID: 4519	Analysis Date: 10/2/2010 5:03:00 PM	SeqNo: 1994573		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	12.3±1.1	0.5	11.2		110 70 130

Sample ID: S1008298-001AMS	SampType: MS	TestCode: PB210_SOIL	Units: pCi/g	Prep Date: 9/16/2010	RunNo: 63802
Client ID: RP-7	Batch ID: 4519	Analysis Date: 10/2/2010 5:03:00 PM	SeqNo: 1994575		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	13.0±1.0	0.5	11.2	1.06	107 70 130

Sample ID: S1008298-012AMS	SampType: MS	TestCode: PB210_SOIL	Units: pCi/g	Prep Date: 9/16/2010	RunNo: 63802
Client ID: RP-18	Batch ID: 4519	Analysis Date: 10/2/2010 5:03:00 PM	SeqNo: 1994577		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	12.4±1.0	0.5	11.2	2.04	93.0 70 130

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
L Analyzed by a contract laboratory M Value exceeds Monthly Ave or MCL ND Not Detected at the Reporting Limit
O Outside the Range of Dilutions R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Ross ISR Project

197

TR Addendum 2.9-C



ANALYTICAL QC SUMMARY REPORT

Date: 10/21/2010

CLIENT: Western Water Consultants
Work Order: S1008298
Project: SENES Radiological Sampling

Report ID: S1008298001

Sample ID: S1008298-002ADUP	SampType: DUP	TestCode: PB210_SOIL	Units: pCi/g	Prep Date: 9/16/2010	RunNo: 63802						
Client ID: RP-7		Batch ID: 4519	Analysis Date: 10/2/2010 5:03:00 PM	SeqNo: 1994576							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead 210	0.5	0.5						1.12	52.7	30	R

Sample ID: S1008298-013ADUP	SampType: DUP	TestCode: PB210_SOIL	Units: pCi/g	Prep Date: 9/16/2010	RunNo: 63802						
Client ID: RS-3		Batch ID: 4519	Analysis Date: 10/2/2010 5:03:00 PM	SeqNo: 1994578							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead 210	1.1±0.6	0.5						1.09	4.11	30	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
L	Analyzed by a contract laboratory	M	Value exceeds Monthly Ave or MCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

Ross ISR Project

198

TR Addendum 2.9-C



ANALYTICAL QC SUMMARY REPORT

Date: 10/21/2010

CLIENT: Western Water Consultants
Work Order: S1008298
Project: SENES Radiological Sampling

Report ID: S1008298001

Sample ID: MB-R64000	SampType: MBLK	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 64000
Client ID:	Batch ID: 4519	Analysis Date: 10/12/2010 10:59:00 PM	SeqNo: 2001435		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	ND	0.5			

Sample ID: UTS-4 DIGEST BAT	SampType: LCS	TestCode: R226_S	Units: pCi/g	Prep Date:	RunNo: 64000
Client ID:	Batch ID: 4519	Analysis Date: 10/12/2010 10:59:00 PM	SeqNo: 2001438		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	522±6.0	0.5	1000		52.2 50 150

Sample ID: S1008298-002ADUP	SampType: DUP	TestCode: R226_S	Units: pCi/g	Prep Date: 9/16/2010	RunNo: 64000
Client ID: RP-7	Batch ID: 4519	Analysis Date: 10/12/2010 10:59:00 PM	SeqNo: 2001442		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	0.3 ± 0.1	0.5			ND 0 20

Sample ID: S1008298-013ADUP	SampType: DUP	TestCode: R226_S	Units: pCi/g	Prep Date: 9/16/2010	RunNo: 64000
Client ID: RS-3	Batch ID: 4519	Analysis Date: 10/12/2010 10:59:00 PM	SeqNo: 2001455		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	0.4 ± 0.1	0.5			ND 0 20

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
L Analyzed by a contract laboratory M Value exceeds Monthly Ave or MCL ND Not Detected at the Reporting Limit
O Outside the Range of Dilutions R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Ross ISR Project

199

TR Addendum 2.9-C



ANALYTICAL QC SUMMARY REPORT

Date: 10/21/2010

CLIENT: Western Water Consultants
Work Order: S1008298
Project: SENES Radiological Sampling

Report ID: S1008298001

Sample ID: BLK 9/22 3050	SampType: MBLK	TestCode: TOT3050_6010C_S	Units: mg/Kg	Prep Date:	RunNo: 63235
Client ID:		Batch ID: 4462	Analysis Date: 9/22/2010 6:40:09 PM		SeqNo: 1975772
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	ND	0.8			

Sample ID: S1008298-009A	SampType: DUP	TestCode: TOT3050_6010C_S	Units: mg/Kg	Prep Date: 9/13/2010	RunNo: 63235
Client ID: RP-18		Batch ID: 4462	Analysis Date: 9/22/2010 6:12:02 PM		SeqNo: 1975760
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	ND	0.01			ND 0 20

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
L	Analyzed by a contract laboratory	M	Value exceeds Monthly Ave or MCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

Ross ISR Project

200

TR Addendum 2.9-C



Isotopic Thorium Case Narrative

Inter-Mountain Labs Western Water

Work Order Number: 1009379

1. This report consists of the analytical results for 23 water samples received by ALS on 09/24/2010.
2. These samples were prepared according to procedures SOP776R11 and SOP777R9. Modifications were made to the method as described on QASS #384544.
3. The samples were analyzed for the presence of isotopic thorium according to procedure SOP714R12. The analyses were completed on 10/12/2010.
4. The analysis results for these samples are reported in units of pCi/L. The water samples were not filtered prior to analysis.
5. Due to insufficient sample volume, a laboratory control sample duplicate (LCSD) was prepared in lieu of a prep batch duplicate.
6. The requested MDC of 0.2 pCi/L was not met for samples 1009379-1 and -2. The reported activity for these samples is greater than the achieved MDC. These samples are identified with an "M3" flag on the final reports.
7. No further anomalous situations were encountered during the preparation or analysis of these samples. All remaining quality control criteria were met.



The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Jean Anderson

Jean Anderson
Radiochemistry Primary Data Reviewer

10/20/10

Date

[Signature]

Radiochemistry Final Data Reviewer

10/20/10

Date

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

Paragon OrderNum: 1009379

Client Name: Inter-Mountain Labs

Client Project Name: Western Water

Client Project Number:

Client PO Number: 237650

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
Berger-NESE-S7	1009379-1		WATER	10-Aug-10	
SC01	1009379-2		WATER	27-Jul-10	
RP-7	1009379-3		WATER	09-Aug-10	
RP-7	1009379-4		WATER	09-Aug-10	
RP-7	1009379-5		WATER	09-Aug-10	
RP-7	1009379-6		WATER	09-Aug-10	
RP-17	1009379-7		WATER	09-Aug-10	
RP-17	1009379-8		WATER	09-Aug-10	
RP-17	1009379-9		WATER	09-Aug-10	
RP-17	1009379-10		WATER	09-Aug-10	
RP-18	1009379-11		WATER	09-Aug-10	
RP-18	1009379-12		WATER	09-Aug-10	
RP-18	1009379-13		WATER	09-Aug-10	
RP-18	1009379-14		WATER	09-Aug-10	
RS-3	1009379-15		WATER	09-Aug-10	
RS-9	1009379-16		WATER	09-Aug-10	
RS-10	1009379-17		WATER	09-Aug-10	
RS-13	1009379-18		WATER	09-Aug-10	
RAD Veg #4-NW	1009379-19		WATER	23-Aug-10	17:00
RAD Veg #5-SW	1009379-20		WATER	23-Aug-10	17:35
RAD-GV-Veg1	1009379-21		WATER	18-Aug-10	13:00
RAD-GV-Veg2	1009379-22		WATER	18-Aug-10	13:00
RAD-GV-Veg3	1009379-23		WATER	18-Aug-10	13:00

2005

1009379

Inter-Mountain Laboratories, Inc.
 1673 Terra Avenue, Sheridan, WY 82801
 Phone 800-828-1097 FAX 307-672-6053

Relinquished by: Kathy Boyd
 Date/Time: 9/22/10 14:25
 Received by Lab: Janice Schmitt / ALS
 Date/Time: 9/24/10 @ 10:30

CHAIN OF CUSTODY RECORD

Indicate Client is: Western Water

Sent to: ALS Laboratory Group
Ft. Collins CO 970 490 1511

P. O.: 237650

Sample ID	IML Lab Number	Sample Date	Sample Time	Number of Containers	Sample Matrix	Analysis
Berger-NESE-S7	S1008189-001	8/10/2010		1	water	Thorium 230 Total for all samples
SC01	S1008451-002	7/27/2010		1	water	
RP-7	S1008298-001	8/9/2010		1	water	
RP-7	S1008298-002	8/9/2010		1	water	
RP-7	S1008298-003	8/9/2010		1	water	
RP-7	S1008298-004	8/9/2010		1	water	
RP-17	S1008298-005	8/9/2010		1	water	
RP-17	S1008298-006	8/9/2010		1	water	
RP-17	S1008298-007	8/9/2010		1	water	
RP-17	S1008298-008	8/9/2010		1	water	
RP-18	S1008298-009	8/9/2010		1	water	
RP-18	S1008298-010	8/9/2010		1	water	e-mail copy of results to: waden@imlinc.com
RP-18	S1008298-011	8/9/2010		1	water	
RP-18	S1008298-012	8/9/2010		1	water	
RS-3	S1008298-013	8/9/2010		1	water	
RS-9	S1008298-014	8/9/2010		1	water	Thank You
RS-10	S1008298-015	8/9/2010		1	water	
RS-13	S1008298-016	8/9/2010		1	water	Invoice to IML /Std Turnaround
RAD Veg #4-NW	S1008396-004	8/23/2010	17:00	1	water	
RAD Veg #5-SW	S1008396-005	8/23/2010	17:35	1	water	
RAD-GV-Veg1	S1008420-001	8/18/2010	13:00	1	water	
RAD-GV-Veg2	S1008420-002	8/18/2010	13:00	1	water	
RAD-GV-Veg3	S1008420-003	8/18/2010	13:00	1	water	

ALS
 9-24-10

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20
- 21
- 22
- 23
- 24



CONDITION OF SAMPLE UPON RECEIPT FORM

Client: IML

Workorder No: 1009379

Project Manager: ARW

Initials: LAS Date: 9.24.10

1. Does this project require any special handling in addition to standard Paragon procedures?		YES	<input checked="" type="radio"/> NO
2. Are custody seals on shipping containers intact?	<input checked="" type="radio"/> NONE	YES	NO
3. Are Custody seals on sample containers intact?	<input checked="" type="radio"/> NONE	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<input checked="" type="radio"/> YES	NO
5. Are the COC and bottle labels complete and legible?		<input checked="" type="radio"/> YES	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		YES	<input checked="" type="radio"/> NO *
7. Were airbills / shipping documents present and/or removable?	DROP OFF	<input checked="" type="radio"/> YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A	<input checked="" type="radio"/> YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	<input checked="" type="radio"/> N/A	YES	NO
10. Is there sufficient sample for the requested analyses?		<input checked="" type="radio"/> YES	NO
11. Were all samples placed in the proper containers for the requested analyses?		<input checked="" type="radio"/> YES	NO
12. Are all samples within holding times for the requested analyses?		<input checked="" type="radio"/> YES	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		<input checked="" type="radio"/> YES	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: _____ < green pea _____ > green pea	<input checked="" type="radio"/> N/A	YES	NO
15. Do perchlorate LCMS-MS samples have headspace? (at least 1/3 of container required)	<input checked="" type="radio"/> N/A	YES	NO
16. Were samples checked for and free from the presence of residual chlorine? (Applicable when PM has indicated samples are from a chlorinated water source; note if field preservation with sodium thiosulfate was not observed.)	<input checked="" type="radio"/> N/A	YES	NO
17. Were the samples shipped on ice?		YES	<input checked="" type="radio"/> NO
18. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: #2 #4		<input checked="" type="radio"/> RAD ONLY	<input checked="" type="radio"/> YES <input checked="" type="radio"/> NO
Cooler #: <u>1 2</u>			
Temperature (°C): <u>Ambient →</u>			
No. of custody seals on cooler: <u>0 0</u>			
External µR/hr reading: <u>11 12</u>			
Background µR/hr reading: <u>11</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? <input checked="" type="radio"/> YES <input type="radio"/> NO <input type="radio"/> NA (If no, see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16

*6 1009379-2-1 (lab # S1008451-002 on COC) → IML NUMBER on bottle label # = S1008451-001A, but sample ID is the same, → (SC01) nothing else shipped of a similar sample ID.

If applicable, was the client contacted? YES NO NA Contact: Wade Nieuwsma Date/Time: 9/27/10

Project Manager Signature / Date: [Signature] 9/27/10

*IR Gun #2: Oakton, SN 29922500201-0066 *IR Gun #4: Oakton, SN 2372220101-0002

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Method Blank Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS101001-4MB	Sample Matrix: WATER Prep SOP: PAI 777 Rev 9 Date Collected: 01-Oct-10 Date Prepared: 01-Oct-10 Date Analyzed: 11-Oct-10	Prep Batch: AS101001-4 QCBatchID: AS101001-4-1 Run ID: TAS101001-4TH Count Time: 900 minutes	Final Aliquot: 500 ml Result Units: pCi/l File Name: Spectrum #1
----------------------	--	---	--

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.032 +/- 0.080	0.141	0.2	U

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.82	pCi/l	64.0	30 - 110 %	

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.

Abbreviations:

TPU - Total Propagated Uncertainty
MDC - Minimum Detectable Concentration
BDL - Below Detection Limit

M - Requested MDC not met.
B - Analyte concentration greater than MDC.
B3 - Analyte concentration greater than MDC but less than Requested MDC.

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Method Blank Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS101001-5MB

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 01-Oct-10
Date Prepared: 01-Oct-10
Date Analyzed: 08-Oct-10

Prep Batch: AS101001-5
QCBatchID: AS101001-5-1
Run ID: AS101001-5TH
Count Time: 800 minutes

Final Aliquot: 500 ml
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.014 +/- 0.091	0.173	0.2	U

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.37	pCi/l	53.8	30 - 110 %	

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.

Abbreviations:

TPU - Total Propagated Uncertainty
MDC - Minimum Detectable Concentration
BDL - Below Detection Limit

M - Requested MDC not met.
B - Analyte concentration greater than MDC.
B3 - Analyte concentration greater than MDC but less than Requested MDC.

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Laboratory Control Sample(s)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS101001-4LCS	Sample Matrix: WATER Prep SOP: PAI 777 Rev 9 Date Collected: 01-Oct-10 Date Prepared: 01-Oct-10 Date Analyzed: 11-Oct-10	Prep Batch: AS101001-4 QCBatchID: AS101001-4-1 Run ID: TAS101001-4TH Count Time: 900 minutes	Final Aliquot: 500 ml Result Units: pCi/l File Name: Spectrum #1
-----------------------	--	---	--

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
14269-63-7	Th-230	5.24 +/- 0.93	0.14	5.11	102	85 - 121	P

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.83	pCi/l	64.1	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Laboratory Control Sample(s)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS101001-4LCSD

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 01-Oct-10
Date Prepared: 01-Oct-10
Date Analyzed: 11-Oct-10

Prep Batch: AS101001-4
QCBatchID: AS101001-4-1
Run ID: TAS101001-4TH
Count Time: 900 minutes

Final Aliquot: 500 ml
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
14269-63-7	Th-230	5.28 +/- 0.93	0.14	5.11	103	85 - 121	P

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.67	pCi/l	60.6	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Laboratory Control Sample(s)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS101001-5LCS	Sample Matrix: WATER Prep SOP: PAI 777 Rev 9 Date Collected: 01-Oct-10 Date Prepared: 01-Oct-10 Date Analyzed: 08-Oct-10	Prep Batch: AS101001-5 QCBatchID: AS101001-5-1 Run ID: AS101001-5TH Count Time: 800 minutes	Final Aliquot: 500 ml Result Units: pCi/l File Name: Spectrum #1
-----------------------	--	--	--

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
14269-63-7	Th-230	5.5 +/- 1.0	0.1	5.11	109	85 - 121	P

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.58	pCi/l	58.5	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Laboratory Control Sample(s)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS101001-5LCS

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 01-Oct-10
Date Prepared: 01-Oct-10
Date Analyzed: 08-Oct-10

Prep Batch: AS101001-5
QCBatchID: AS101001-5-1
Run ID: AS101001-5TH
Count Time: 800 minutes

Final Aliquot: 500 ml
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
14269-63-7	Th-230	5.24 +/- 0.96	0.15	5.11	102	85 - 121	P

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.53	pCi/l	57.4	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Duplicate Sample Results (DER)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	
Lab ID:	AS101001-4LCSD

Sample Matrix: WATER

Prep SOP: PAI 777 Rev 9

Date Collected: 01-Oct-10

Date Prepared: 01-Oct-10

Date Analyzed: 11-Oct-10

Prep Batch: AS101001-4

QCBatchID: AS101001-4-1

Run ID: TAS101001-4TH

Count Time: 900 minutes

Final Aliquot: 500 ml

Prep Basis: Unfiltered

Moisture(%): NA

Result Units: pCi/l

File Name: Spectrum #1

CASNO	Analyte	Sample				Duplicate				DER	DER Lim
		Result +/-	2 s TPU	MDC	Flags	Result +/-	2 s TPU	MDC	Flags		
14269-63-7	Th-230	5.24 +/-	0.93	0.14	P	5.28 +/-	0.93	0.14	P	0.0313	2.13

Comments:

Duplicate Qualifiers/Flags:

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits.

W - DER is greater than Warning Limit of 1.42

D - DER is greater than Control Limit of 2.13

LT - Result is less than Request MDC, greater than sample specific MDC

M - Requested MDC not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

P - LCS, Matrix Spike Recovery within control limits.

N - Matrix Spike Recovery outside control limits

Abbreviations:

TPU - Total Propagated Uncertainty

DER - Duplicate Error Ratio

BDL - Below Detection Limit

NR - Not Reported

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Duplicate Sample Results (DER)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	
Lab ID:	AS101001-5LCSD

Sample Matrix: WATER

Prep SOP: PAI 777 Rev 9

Date Collected: 01-Oct-10

Date Prepared: 01-Oct-10

Date Analyzed: 08-Oct-10

Prep Batch: AS101001-5

QCBatchID: AS101001-5-1

Run ID: AS101001-5TH

Count Time: 800 minutes

Final Aliquot: 500 ml

Prep Basis: Unfiltered

Moisture(%): NA

Result Units: pCi/l

File Name: Spectrum #1

CASNO	Analyte	Sample				Duplicate				DER	DER Lim
		Result +/-	2 s TPU	MDC	Flags	Result +/-	2 s TPU	MDC	Flags		
14269-63-7	Th-230	5.5 +/-	1.0	0.1	P	5.24 +/-	0.96	0.15	P	0.225	2.13

Comments:

Duplicate Qualifiers/Flags:

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits.

W - DER is greater than Warning Limit of 1.42

D - DER is greater than Control Limit of 2.13

LT - Result is less than Request MDC, greater than sample specific MDC

M - Requested MDC not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

P - LCS, Matrix Spike Recovery within control limits.

N - Matrix Spike Recovery outside control limits

Abbreviations:

TPU - Total Propagated Uncertainty

DER - Duplicate Error Ratio

BDL - Below Detection Limit

NR - Not Reported

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1009379
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	RP-7
Lab ID:	1009379-3

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 09-Aug-10
Date Prepared: 01-Oct-10
Date Analyzed: 11-Oct-10

Prep Batch: AS101001-4
QCBatchID: AS101001-4-1
Run ID: TAS101001-4TH
Count Time: 900 minutes
Report Basis: Unfiltered

Final Aliquot: 990 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.47 +/- 0.11	0.09	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.455	3.53	pCi/l	79.3	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1009379
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	RP-7
Lab ID:	1009379-4

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 09-Aug-10
Date Prepared: 01-Oct-10
Date Analyzed: 11-Oct-10

Prep Batch: AS101001-4
QCBatchID: AS101001-4-1
Run ID: TAS101001-4TH
Count Time: 900 minutes
Report Basis: Unfiltered

Final Aliquot: 990 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.51 +/- 0.11	0.08	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.455	3.65	pCi/l	81.9	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1009379
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	RP-7
Lab ID:	1009379-5

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 09-Aug-10
Date Prepared: 01-Oct-10
Date Analyzed: 11-Oct-10

Prep Batch: AS101001-4
QCBatchID: AS101001-4-1
Run ID: TAS101001-4TH
Count Time: 900 minutes
Report Basis: Unfiltered

Final Aliquot: 990 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.47 +/- 0.11	0.09	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.455	3.14	pCi/l	70.4	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1009379
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	RP-7
Lab ID:	1009379-6

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 09-Aug-10
Date Prepared: 01-Oct-10
Date Analyzed: 11-Oct-10

Prep Batch: AS101001-4
QCBatchID: AS101001-4-1
Run ID: TAS101001-4TH
Count Time: 900 minutes
Report Basis: Unfiltered

Final Aliquot: 990 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.48 +/- 0.11	0.09	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.455	3.60	pCi/l	80.9	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	RP-17
Lab ID:	1009379-7

Sample Matrix: WATER

Prep SOP: PAI 777 Rev 9

Date Collected: 09-Aug-10

Date Prepared: 01-Oct-10

Date Analyzed: 11-Oct-10

Prep Batch: AS101001-4

QC Batch ID: AS101001-4-1

Run ID: TAS101001-4TH

Count Time: 900 minutes

Report Basis: Unfiltered

Final Aliquot: 990 ml

Prep Basis: Unfiltered

Moisture(%): NA

Result Units: pCi/l

File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.57 +/- 0.12	0.08	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.455	3.53	pCi/l	79.2	30 - 110 %	

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1009379
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	RP-17
Lab ID:	1009379-8

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 09-Aug-10
Date Prepared: 01-Oct-10
Date Analyzed: 11-Oct-10

Prep Batch: AS101001-4
QCBatchID: AS101001-4-1
Run ID: TAS101001-4TH
Count Time: 900 minutes
Report Basis: Unfiltered

Final Aliquot: 990 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.54 +/- 0.12	0.09	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.455	3.18	pCi/l	71.3	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1009379
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	RP-17
Lab ID:	1009379-9

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 09-Aug-10
Date Prepared: 01-Oct-10
Date Analyzed: 11-Oct-10

Prep Batch: AS101001-4
QCBatchID: AS101001-4-1
Run ID: TAS101001-4TH
Count Time: 900 minutes
Report Basis: Unfiltered

Final Aliquot: 990 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.47 +/- 0.13	0.12	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.455	1.89	pCi/l	42.4	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	RP-17
Lab ID:	1009379-10

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 09-Aug-10
Date Prepared: 01-Oct-10
Date Analyzed: 11-Oct-10

Prep Batch: AS101001-4
QCBatchID: AS101001-4-1
Run ID: TAS101001-4TH
Count Time: 900 minutes
Report Basis: Unfiltered

Final Aliquot: 980 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.56 +/- 0.12	0.08	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.500	3.59	pCi/l	79.8	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	RP-18
Lab ID:	1009379-11

Sample Matrix: WATER

Prep SOP: PAI 777 Rev 9

Date Collected: 09-Aug-10

Date Prepared: 01-Oct-10

Date Analyzed: 11-Oct-10

Prep Batch: AS101001-4

QC Batch ID: AS101001-4-1

Run ID: TAS101001-4TH

Count Time: 900 minutes

Report Basis: Unfiltered

Final Aliquot: 990 ml

Prep Basis: Unfiltered

Moisture(%): NA

Result Units: pCi/l

File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.59 +/- 0.12	0.08	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.455	3.59	pCi/l	80.6	30 - 110 %	

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	RP-18
Lab ID:	1009379-12

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 09-Aug-10
Date Prepared: 01-Oct-10
Date Analyzed: 11-Oct-10

Prep Batch: AS101001-4
QCBatchID: AS101001-4-1
Run ID: TAS101001-4TH
Count Time: 900 minutes
Report Basis: Unfiltered

Final Aliquot: 990 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.54 +/- 0.12	0.09	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.455	3.46	pCi/l	77.6	30 - 110 %	

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1009379
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	RP-18
Lab ID:	1009379-13

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 09-Aug-10
Date Prepared: 01-Oct-10
Date Analyzed: 12-Oct-10

Prep Batch: AS101001-4
QCBatchID: AS101001-4-1
Run ID: TAS101001-4TH
Count Time: 800 minutes
Report Basis: Unfiltered

Final Aliquot: 1000 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.49 +/- 0.12	0.10	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.81	pCi/l	63.6	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	RP-18
Lab ID:	1009379-14

Sample Matrix: WATER

Prep SOP: PAI 777 Rev 9

Date Collected: 09-Aug-10

Date Prepared: 01-Oct-10

Date Analyzed: 11-Oct-10

Prep Batch: AS101001-4

QC Batch ID: AS101001-4-1

Run ID: TAS101001-4TH

Count Time: 900 minutes

Report Basis: Unfiltered

Final Aliquot: 990 ml

Prep Basis: Unfiltered

Moisture(%): NA

Result Units: pCi/l

File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.44 +/- 0.11	0.09	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.455	3.51	pCi/l	78.8	30 - 110 %	

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1009379
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	RS-3
Lab ID:	1009379-15

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 09-Aug-10
Date Prepared: 01-Oct-10
Date Analyzed: 11-Oct-10

Prep Batch: AS101001-4
QCBatchID: AS101001-4-1
Run ID: TAS101001-4TH
Count Time: 900 minutes
Report Basis: Unfiltered

Final Aliquot: 990 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.60 +/- 0.13	0.09	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.455	3.33	pCi/l	74.7	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1009379
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	RS-9
Lab ID:	1009379-16

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 09-Aug-10
Date Prepared: 01-Oct-10
Date Analyzed: 11-Oct-10

Prep Batch: AS101001-4
QCBatchID: AS101001-4-1
Run ID: TAS101001-4TH
Count Time: 900 minutes
Report Basis: Unfiltered

Final Aliquot: 1000 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.217 +/- 0.078	0.093	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.88	pCi/l	65.4	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	RS-10
Lab ID:	1009379-17

Sample Matrix: WATER

Prep SOP: PAI 777 Rev 9

Date Collected: 09-Aug-10

Date Prepared: 01-Oct-10

Date Analyzed: 11-Oct-10

Prep Batch: AS101001-4

QC Batch ID: AS101001-4-1

Run ID: TAS101001-4TH

Count Time: 900 minutes

Report Basis: Unfiltered

Final Aliquot: 990 ml

Prep Basis: Unfiltered

Moisture(%): NA

Result Units: pCi/l

File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.401 +/- 0.099	0.085	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.455	3.47	pCi/l	77.9	30 - 110 %	

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1009379
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	RS-13
Lab ID:	1009379-18

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 09-Aug-10
Date Prepared: 01-Oct-10
Date Analyzed: 11-Oct-10

Prep Batch: AS101001-4
QCBatchID: AS101001-4-1
Run ID: TAS101001-4TH
Count Time: 900 minutes
Report Basis: Unfiltered

Final Aliquot: 980 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.420 +/- 0.099	0.083	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.500	3.84	pCi/l	85.4	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1009379-1



ALS Laboratory Group - Fort Collins

QUALITY ASSURANCE SUMMARY SHEET

PAR W.O. #, BATCH AS101001-3, -4, and -5
 TEST Th
 METHOD Prep
 SOP/REV (PREP) 777
 SOP/REV (ANAL) _____

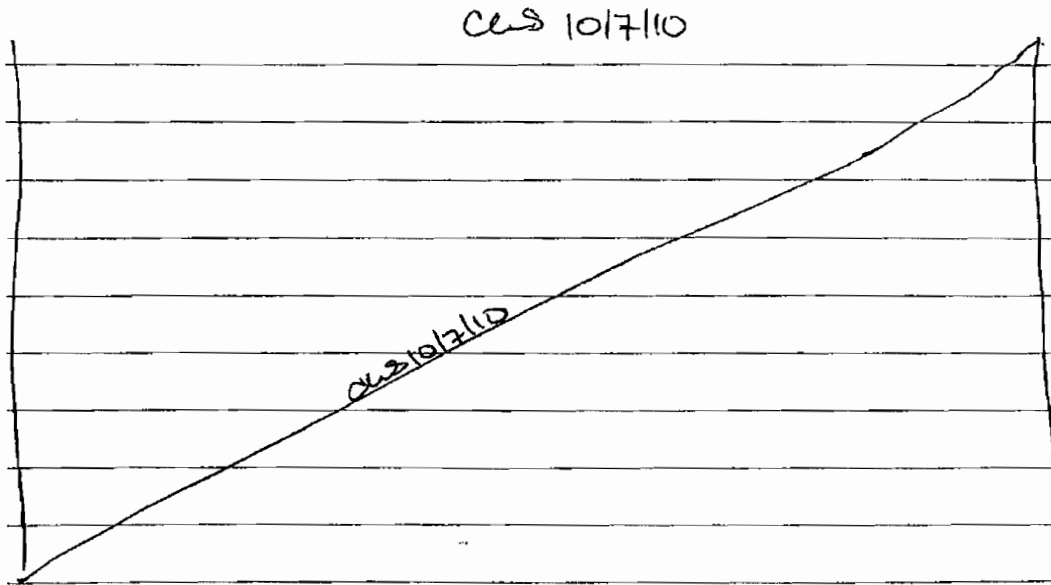
Briefly document any QA or other problems or deviations associated with the analysis of samples. Problems could result from: log-in, color, odor, dilution, consistency, scheduling, equipment, or instrumentation, or may include documentation of minor deviations necessary due to unique DQC's or sample characteristics.

CS 10/7/10

CS 10/7/10

In batches AS101001-3, -4, and -5, some samples formed a large amount of ferric hydroxide precipitate. As this could cause potential matrix interference, these samples were split prior to a nitrate column so that only one half of the sample was run on the column. The final aliquots for these split samples were adjusted accordingly (see benchsheets).

CS 10/7/10



TECHNICIAN/ANALYST Crystal Shaeffer

DATE 10/7/10

DEPARTMENT MANAGER T. Elbert

DATE 10/7/10

384544

FORM 302r6b.doc (4/22/04)

GAMMA FIELD SURVEY

(See Addendum 2.9-B for Complete Tetra Tech, Inc. Report)

LONG TERM EXPOSURE

(TLDs)

(4th Quarter Results will be submitted to NRC in February 2011 in Addendum 2.9-D)

LANDAUER

Landauer, Inc. 2 Science Road Glenwood, Illinois 60425-1586 Telephone: (708) 755-7000 Facsimile: (708) 755-7016

1001

ENVIRONMENTAL / LOW LEVEL DOSIMETRY REPORT

ADDRESS ACCOUNT NO. SERIAL CODE
 DEWETS CONSULTANTS LTD 291407
 ATTN: STEVE BROWN
 8310 SOUTH VALLEY HWY SUITE 3015
 GLENWOOD, CO 80539

FOR EXPOSURE PERIOD 01/01/2010

NET CUMULATIVE TOTALS (MILLIREMS)

LOCATION ID NUMBER	IDENTIFIER (CLIENT SUPPLIED)	NOTE CODE	EXPOSURE OF DOSIMETER (MILLIREMS AMBIENT DOSE EQUIVALENT)		CALENDAR QUARTER	YEAR TO DATE	PERMANENT	ADJUST-MENTS	NUMBER OF DOSIMETERS REPORTED	INCEPTION DATE OF PERM. TOTAL
			GROSS	NET						
00000	TRANSIT CONTROL	NL	4.2							

NOTES: COLUMN 11 - NL - Returned Separately From The Deployment Control

Client Release	Product No.	Reported Date	Date Processed	Date Received	Minimum Detectable Dose In This Process - Millirems Ambient Dose Equivalent	ONLY PAGE
	005001	01/07/2010	01/07/2010	01/05/2010	0.05	1

LANDAUER

Landauer, Inc. 2 Science Road Glenwood, Illinois 60425-1586 Telephone: (708) 755-7000 Facsimile: (708) 755-7016

10 Q 1

ENVIRONMENTAL / LOW LEVEL DOSIMETRY REPORT

ADDRESS ACCOUNT NO. SERIES CODE
 AIR SCIENCE 291407
 ATTN : RONN SMITH
 5555 ABSARAKA STREET
 SHERIDAN, WY 82801

FOR EXPOSURE PERIOD 01/01/2010

NET CUMULATIVE TOTALS (MILLIREMS)

LOCATION ID NUMBER	IDENTIFIER (CLIENT SUPPLIED)	NOTE CODE	EXPOSURE OF DOSIMETER (MILLIREMS AMBIENT DOSE EQUIVALENT)	CALENDAR QUARTER	YEAR TO DATE	PERMANENT	ADJUSTMENTS	NUMBER OF DOSIMETERS REPORTED	INCEPTION DATE OF PERM. TOTAL
			GROSS	NET					
00009	DEPLOY CONTROL		29.4	0.0					
00001			35.5	6.0	6.0	6.0	6.1	4	/ /
00002			32.1	2.7	2.7	2.7	2.1	3	/ /
00003			31.3	1.9	1.9	1.9	-0.5	3	/ /
00004			29.6	0.1	0.1	0.1	-3.3	3	/ /
00005			32.3	2.8	2.8	2.8	0.7	3	/ /
00006			35.0	5.5	5.5	5.5	1.4	3	/ /
00007			33.6	4.2	4.2	4.2	3.9	3	/ /
00008			33.8	4.3	4.3	4.3	5.1	3	/ /
00009			32.7	3.2	3.2	3.2	3.2	1	/ /
00010			34.8	5.4	5.4	5.4	9.2	2	/ /
00011			33.7	4.2	4.2	4.2	5.8	2	/ /
00012			34.4	5.0	5.0	5.0	1.3	2	/ /
00013			34.2	4.8	4.8	4.8	0.0	2	/ /
00014			34.9	5.5	5.5	5.5	6.1	2	/ /
00015			32.8	3.4	3.4	3.4	8.5	2	/ /

G.C. Release	Process No.	Reported Date	Date Processed	Date Received	Minimum Detectable Dose In This Process, Millirems Ambient Dose Equivalent	ONLY PAGE
ac	850004	05/05/2010	05/04/2010	04/29/2010	0.10	1

LANDAUER

Landauer, Inc 2 Science Road Glenwood, Illinois 60425-1586 Telephone: (708) 755-7000 Facsimile: (708) 755-7016

10 Q2

ENVIRONMENTAL / LOW LEVEL DOSIMETRY REPORT

ADDRESS ACCOUNT NO. SERIES CODE
 AIR SCIENCE 291407
 ATTN: RONN SMITH
 3333 ABSARAKA STREET
 SHERIDAN, WY 82801

FOR EXPOSURE PERIOD 04/01/2010

LOCATION ID NUMBER	IDENTIFIER (CLIENT SUPPLIED)	NOTE CODE	EXPOSURE OF DOSIMETER (MILLIREMS AMBIENT DOSE EQUIVALENT)	NET CUMULATIVE TOTALS (MILLIREMS)					
				CALENDAR QUARTER	YEAR TO DATE	PERMANENT	ADJUSTMENTS	NUMBER OF DOSIMETERS REPORTED	INCEPTION DATE OF PERM. TOTAL

00000	TRANSIT CONTROL	NC	8.4	<p>(For Quarter 2) (For TLDs 1-15)</p>					
-------	-----------------	----	-----	--	--	--	--	--	--

NOTES (COLUMN 3) : NC Returned Separately From The Deployment Control

Q.C. Release	Process No.	Reported Date	Date Processed	Date Received	Minimum Detectable Dose In This Process, Millirems Ambient Dose Equivalent	ONLY PAGE
ac	850004	05/05/2010	05/04/2010	04/29/2010	0.10	1

LANDAUER

Landauer, Inc. 2 Science Road Glenwood, Illinois 60425-1586 Telephone: (708) 755-7000 Facsimile: (708) 755-7016

10 Q2

ENVIRONMENTAL / LOW LEVEL DOSIMETRY REPORT

ADDRESS ACCOUNT NO. SERIES CODE
 1M AIR SCIENCE 291488
 ATTN : RONN SMITH
 555 ABSARAKA ST
 SHERIDAN, WY 82801

FOR EXPOSURE PERIOD 04/01/2010

NET CUMULATIVE TOTALS (MILLIREMS)

LOCATION ID NUMBER	IDENTIFIER (CLIENT SUPPLIED)	NOTE CODE	EXPOSURE OF DOSIMETER (MILLIREMS AMBIENT DOSE EQUIVALENT)	CALENDAR QUARTER	YEAR TO DATE	PERMANENT	ADJUST-MENTS	NUMBER OF DOSIMETERS REPORTED	INCEPTION DATE OF PERM. TOTAL
			GROSS NET						
00000	TRANSIT CONTROL	NC	4.6						

(for TLD's 16 & 17)

NOTES (COLUMN 3) : NC Returned Separately From The Deployment Control

Q.C. Release	Process No.	Reported Date	Date Processed	Date Received	Minimum Detectable Dose In This Process, Millirems Ambient Dose Equivalent	ONLY PAGE
ac	875002	06/01/2010	05/25/2010	05/24/2010	0.10	1

LANDAUER

Landauer, Inc. 2 Science Road Glenwood, Illinois 60425-1586 Telephone: (708) 755-7000 Facsimile: (708) 755-7016

ENVIRONMENTAL / LOW LEVEL DOSIMETRY REPORT

ADDRESS ACCOUNT NO. SERIES CODE
 IML AIR SCIENCE 291488
 ATTN : RONN SMITH
 555 ABSARAKA ST
 SHERIDAN, WY 82801

FOR EXPOSURE PERIOD 04/01/2010

NET CUMULATIVE TOTALS (MILLIREMS)

LOCATION ID NUMBER	IDENTIFIER (CLIENT SUPPLIED)	NOTE CODE	EXPOSURE OF DOSIMETER (MILLIREMS AMBIENT DOSE EQUIVALENT)	CALENDAR QUARTER	YEAR TO DATE	PERMANENT	ADJUST-MENTS	NUMBER OF DOSIMETERS REPORTED	INCEPTION DATE OF PERM. TOTAL
			GROSS						
			NET						
000X9	DEPLOY CONTROL		24.3						
000X9	DEPLOY CONTROL		17.2						
00001	9002517R		26.3	2.0	2.0	2.0		1	/ /
00002	9002518R	#13	28.4	4.1	4.1	4.1		1	/ /
00003	9002519R		29.2	4.9	4.9	4.9		1	/ /
00004	9002520R		32.1	7.8	7.8	7.8		1	/ /
00005	9002521R	#14	31.2	6.9	6.9	6.9		1	/ /
00006	9002522R	#11 - #14	31.1	6.8	6.8	6.8		1	/ /
00007	9002523R	#15	31.1	6.8	6.8	6.8		1	/ /
00008	9002524R		30.2	5.9	5.9	5.9		1	/ /
00009	9094273R	#16	23.2	-1.1	-1.1	-1.1		1	/ /
00010	9094274R	#17	21.9	-2.4	-2.4	-2.4		1	/ /

↑
 Ross site #15

See net page for #12

Q.C. Release	Process No.	Reported Date	Date Processed	Date Received	Minimum Detectable Dose In This Process, Millirems Ambient Dose Equivalent	ONLY PAGE
ac	938003	07/30/2010	07/28/2010	07/26/2010	0.10	1

Ross ISR Project

237

TR Addendum 2.9-C

LANDAUER

Landauer, Inc. 2 Science Road Glenwood, Illinois 60425-4586 Telephone: (708) 755-7000 Facsimile: (708) 755-7016
 ENVIRONMENTAL / LOW LEVEL DOSIMETRY REPORT

ADDRESS ACCOUNT NO. SERIES CODE

████████████████████
 ████████████████████
 ████████████████████
 ████████████████████

██████████

FOR EXPOSURE PERIOD 04/01/2010

NET CUMULATIVE TOTALS (MILLIREMS)

LOCATION ID NUMBER	IDENTIFIER (CLIENT SUPPLIED)	NOTE CODE	EXPOSURE OF DOSIMETER (MILLIREMS AMBIENT DOSE EQUIVALENT)		CALENDAR QUARTER	YEAR TO DATE	PERMANENT	ADJUST-MENTS	NUMBER OF DOSIMETERS REPORTED	INCEPTION DATE OF PERM. TOTAL
			GROSS	NET						
000X9	DEPLOY CONTROL		24.9	0.0						
00025	8967190R-		30.8	5.9	5.9	5.9	5.9		1	/ /
00026	8967191R-		31.5	6.7	6.7	-2.2	-2.2		2	/ /
00027	8967192R-		32.4	7.6	7.6	-2.3	-2.3		2	/ /
00028	8967193R-		32.7	7.8	7.8	0.6	0.6		2	/ /
00029	8967194R-		30.0	5.2	5.2	-5.0	-5.0		2	/ /
00030	8967195R-		30.4	5.5	5.5	-4.0	-4.0		2	/ /
00031	8967196R-		29.6	4.8	4.8	-0.8	-0.8		2	/ /

Ross
 STG
 H12
 2nd Q

Q.C. Release	Process No.	Reported Date	Date Processed	Date Received	Minimum Detectable Dose In This Process, Millirems Ambient Dose Equivalent	ONLY PAGE
ac	938003	07/30/2010	07/28/2010	07/26/2010	0.10	1

Ross ISR Project

238

TR Addendum 2.9-C

LANDAUER

Landauer, Inc. 2 Science Road Glenwood, Illinois 60425-1586 Telephone: (708) 755-7000 Facsimile: (708) 755-7016

10 Q3
Transit

EMPLOYEE'S NAME: [REDACTED]

ADDRESS:

1001 W. WILSON ST.
MOUNTAIN VIEW, ILL.
60054

APPROXIMATE DATE OF EXPOSURE:

07/19/85

EXPOSURE PERIOD: 07/19/85

NET CUMULATIVE DOSE (MILLIREMS)

LOCATION NUMBER	IDENTIFICATION NUMBER	NOTE	EXPOSURE PERIOD (MONTHS)	DOSE RATE (MR/hr)	DOSE (MR)	ADJUSTMENT FACTOR	ADJUSTED DOSE (MR)	NUMBER OF MONTHS REPORTED	INJECTION DATE OF PERM TOTAL
0001	0001		7.0	2.0	14.0				
0002	0002		2.0	1.0	2.0				

Not to know
Sign

1 = 9364105R
2 = 9217375R

REMARKS: [REDACTED]

DATE	BY	REMARKS	DOSE RATE (MR/hr)	DOSE (MR)	ADJUSTMENT FACTOR	ADJUSTED DOSE (MR)	NUMBER OF MONTHS REPORTED	INJECTION DATE OF PERM TOTAL
07/19/85	[REDACTED]	[REDACTED]	2.0	14.0				

LANDAUER

Landauer, Inc 2 Science Road Glenwood, Illinois 60425-1586 Telephone: (708) 755-7000 Facsimile: (708) 755-7016

10Q3

ENVIRONMENTAL / LOW LEVEL DOSIMETRY REPORT

ADDRESS ACCOUNT NO. SERIES CODE
 TML AIR SCIENCE 291488
 ATTN: RONN SMITH
 555 ABSARAKA ST
 SHERIDAN, WY 82801

Deploy 9364106R = #1
 Deploy 9217376R = #2

1 = 11-17
 2 = 7/10, 1-10

FOR EXPOSURE PERIOD 07/01/2010

LOCATION ID NUMBER	IDENTIFIER (CLIENT SUPPLIED)	NOTE CODE	EXPOSURE OF		CALENDAR QUARTER	YEAR TO DATE	PERMANENT	ADJUST-MENTS	NUMBER OF DOSIMETERS REPORTED	INCEPTION DATE OF PERM. TOTAL
			GROSS	NET						
000X9	Deploy CONTROL		30.5	0.0						
000X9			21.7	0.0						
00001			35.7	5.2	5.2	7.2	7.2		2	/ /
00002			38.7	8.2	8.2	12.3	12.3		2	/ /
00003			36.2	5.7	5.7	10.6	10.6		2	/ /
00004			34.3	3.8	3.8	11.6	11.6		2	/ /
00005			31.0	0.6	0.6	7.5	7.5		2	/ /
00006			37.0	6.6	6.6	13.4	13.4		2	/ /
00007			38.2	7.7	7.7	14.5	14.5		2	/ /
00008			36.1	5.6	5.6	11.6	11.6		2	/ /
00009			38.7	8.2	8.2	7.1	7.1		2	/ /
00010			36.2	5.7	5.7	3.2	3.2		2	/ /
00011			27.2	-3.3	-3.3	-3.3	-3.3		1	/ /
00012			28.4	-2.1	-2.1	-2.1	-2.1		1	/ /
00013			28.7	-1.8	-1.8	-1.8	-1.8		1	/ /
00014			29.0	-1.5	-1.5	-1.5	-1.5		1	/ /
00015			29.9	-0.6	-0.6	-0.6	-0.6		1	/ /
00016			28.7	-1.8	-1.8	-1.8	-1.8		1	/ /
00017			30.1	-0.4	-0.4	-0.4	-0.4		1	/ /

Q.C. Release	Process No.	Reported Date	Date Processed	Date Received	Minimum Detectable Dose In This Process, Millirems Ambient Dose Equivalent	ONLY PAGE
mk	B0R003	10/27/2010	10/27/2010	10/22/2010	0.10	1

Ross ISR Project

Quarter	Site	Radon Deploy Date	Radon Deploy Time	Radon Detector ID	Radon Retrieve Date	Radon Retrieve Time	Gamma Deploy Date	Gamma Deploy Time	Gamma TLD ID	Gamma Retrieve Date	Gamma Retrieve Time
1	Office	1/12/2010	10:20	4793898	4/22/2010	14:30	1/12/2010	10:20	8533232R	4/22/2010	14:30
	Met Station	1/12/2010	10:40	4793899	4/22/2010	13:30	1/12/2010	10:40	8533233R	4/22/2010	13:30
	Southwest	1/12/2010	12:00	4793900	4/22/2010	9:30	1/12/2010	12:00	8533234R	4/22/2010	9:30
	East	1/12/2010	12:40	4793901	4/22/2010	11:00	1/12/2010	12:40	8533235R	4/22/2010	11:00
	South	1/15/2010	10:00	4793903	4/22/2010	10:25	1/15/2010	10:00	8533224R	4/22/2010	10:25
	Wesley	1/12/2010	14:30	4793915	4/22/2010	14:15	1/12/2010	14:30	8533229R	4/22/2010	14:15
	Wood	1/12/2010	15:10	4793916	4/22/2010	15:05	1/12/2010	15:10	8533230R	4/22/2010	15:05
	Strong	1/12/2010	15:30	4793917	4/22/2010	15:20	1/12/2010	15:30	8533231R	4/22/2010	15:20
	9	1/15/2010	13:15	4793907	4/22/2010	12:35	1/15/2010	13:15	8533225R	4/22/2010	12:35
	10	1/15/2010	12:00	4793906	4/22/2010	12:15	1/15/2010	12:00	8533226R	4/22/2010	12:15
	11	1/15/2010	10:45	4793904	4/22/2010	11:30	1/15/2010	10:45	8533228R	4/22/2010	11:30
	12	1/15/2010	11:25	4793905	4/22/2010	11:45	1/15/2010	11:25	8533227R	4/22/2010	11:45
	13	1/12/2010	13:30	4793902	4/22/2010	9:55	1/12/2010	13:30	8533221R	4/22/2010	9:55
	14	1/12/2010	14:20	4793914	4/22/2010	14:50	1/12/2010	14:20	8533223R	4/22/2010	14:50
	15	1/12/2010	14:00	4793913	4/22/2010	14:00	1/12/2010	14:00	8533222R	4/22/2010	14:00
2	Office	4/22/2010	14:30	4791324	7/19/2010	14:00	4/22/2010	14:30	8967194R	7/19/2010	14:00
	Met Station	4/22/2010	13:30	4791351	7/19/2010	12:45	4/22/2010	13:30	9002524R	7/19/2010	12:45
	Southwest	4/22/2010	9:30	4791348	7/19/2010	9:35	4/22/2010	9:30	9002519R	7/19/2010	9:35
	East	4/22/2010	11:00	4791343	7/19/2010	10:50	4/22/2010	11:00	8967193R	7/19/2010	10:50
	South	4/22/2010	10:25	4791347	7/19/2010	10:30	4/22/2010	10:25	9002517R	7/19/2010	10:30
	Wesley	4/22/2010	14:15	4791349	7/19/2010	13:45	4/22/2010	14:15	9002520R	7/19/2010	13:45
	Wood	4/22/2010	15:05	4791325	7/19/2010	14:20	4/22/2010	15:05	8967195R	7/19/2010	14:20
	Strong	4/22/2010	15:20	4791326	7/23/2010	15:00	4/22/2010	15:20	8967196R	7/19/2010	14:40
	9	4/22/2010	12:35	4791344	7/19/2010	12:30	4/22/2010	12:35	8967190R	7/19/2010	12:30
	10	4/22/2010	12:15	4791345	7/19/2010	12:00	4/22/2010	12:15	8967191R	7/19/2010	12:00
	11	4/22/2010	11:30	4791331	7/19/2010	11:20	4/22/2010	11:30	9002522R	7/19/2010	11:20
	12	4/22/2010	11:45	4791332	7/19/2010	11:35	4/22/2010	11:45	8967192R	7/19/2010	11:35
	13	4/22/2010	9:55	4791346	7/19/2010	10:05	4/22/2010	9:55	9002518R	7/19/2010	10:05
	14	4/22/2010	14:50	4791350	7/19/2010	13:30	4/22/2010	14:50	9002521R	7/19/2010	13:30
	15	4/22/2010	14:00	4791333	7/19/2010	12:30	4/22/2010	14:00	9002523R	7/19/2010	12:30
	16	5/20/2010	10:40	4787107	7/19/2010	13:00	5/20/2010	10:40	9094273R	7/19/2010	13:00
	17	5/20/2010	11:00	4787108	7/19/2010	13:15	5/20/2010	11:00	9094274R	7/19/2010	13:15

241

TR Addendum 2.9-C

Ross ISR Project

242

TR Addendum 2.9-C

Quarter	Site	Radon Deploy Date	Radon Deploy Time	Radon Detector ID	Radon Retrieve Date	Radon Retrieve Time	Gamma Deploy Date	Gamma Deploy Time	Gamma TLD ID	Gamma Retrieve Date	Gamma Retrieve Time
3	Office	7/19/2010	14:00	4804565	10/15/2010	8:30	7/19/2010	14:00	9217377R	10/15/2010	8:30
	Met Station	7/19/2010	12:45	4804549	10/15/2010	9:00	7/19/2010	12:45	9217378R	10/15/2010	9:00
	Southwest	7/19/2010	9:35	4801621	10/15/2010	9:30	7/19/2010	9:35	9217379R	10/15/2010	9:30
	East	7/19/2010	10:50	4804543	10/15/2010	10:00	7/19/2010	10:50	9217380R	10/15/2010	10:00
	South	7/19/2010	10:30	4804542	10/15/2010	10:25	7/19/2010	10:30	9217381R	10/15/2010	10:25
	Wesley	7/19/2010	13:45	4804564	10/15/2010	13:15	7/19/2010	13:45	9217382R	10/15/2010	13:15
	Wood	7/19/2010	14:20	4804566	10/15/2010	13:45	7/19/2010	14:20	9217383R	10/15/2010	13:45
	Strong	7/23/2010	15:00	4804567	10/15/2010	14:05	7/19/2010	14:40	9217384R	10/15/2010	14:05
	9	7/19/2010	12:30	4804544	10/15/2010	12:00	7/19/2010	12:30	9217385R	10/15/2010	12:00
	10	7/19/2010	12:00	4804545	10/15/2010	11:45	7/19/2010	12:00	9217386R	10/15/2010	11:45
	11	7/19/2010	11:20	4804546	10/15/2010	11:10	7/19/2010	11:20	9364107R	10/15/2010	11:10
	12	7/19/2010	11:35	4804547	10/15/2010	11:25	7/19/2010	11:35	9364108R	10/15/2010	11:25
	13	7/19/2010	10:05	4801622	10/15/2010	12:25	7/19/2010	10:05	9364109R	10/15/2010	12:25
	14	7/19/2010	13:30	4804563	10/15/2010	13:10	7/19/2010	13:30	9364110R	10/15/2010	13:10
	15	7/19/2010	12:30	4804548	10/15/2010	13:25	7/19/2010	12:30	9364111R	10/15/2010	13:25
	16	7/19/2010	13:00	4804550	10/15/2010	13:00	7/19/2010	13:00	9364112R	10/15/2010	13:00
	17	7/19/2010	13:15	4804551	10/15/2010	13:10	7/19/2010	13:15	9364113R	10/15/2010	13:10
4	Office	10/15/2010	8:30	4801490			10/15/2010	8:30	9600184R		
	Met Station	10/15/2010	9:00	4801491			10/15/2010	9:00	9600185R		
	Southwest	10/15/2010	9:30	4801492			10/15/2010	9:30	9600186R		
	East	10/15/2010	10:00	4801493			10/15/2010	10:00	9600187R		
	South	10/15/2010	10:25	4801636			10/15/2010	10:25	9600188R		
	Wesley	10/15/2010	13:15	4804689			10/15/2010	13:15	9600189R		
	Wood	10/15/2010	13:45	4804690			10/15/2010	13:45	9600190R		
	Strong	10/15/2010	14:05	4804691			10/15/2010	14:05	9715641R		
	9	10/15/2010	12:00	4804692			10/15/2010	12:00	9715642R		
	10	10/15/2010	11:45	4804693			10/15/2010	11:45	9715643R		
	11	10/15/2010	11:10	4804694			10/15/2010	11:10	9715644R		
	12	10/15/2010	11:25	4804695			10/15/2010	11:25	9715645R		
	13	10/15/2010	12:25	4804696			10/15/2010	12:25	9715646R		
	14	10/15/2010	13:10	4804697			10/15/2010	13:10	9715647R		
	15	10/15/2010	13:25	4804698			10/15/2010	13:25	9715648R		
	16	10/15/2010	13:00	4804699			10/15/2010	13:00	9727624R		
	17	10/15/2010	13:10	4804700			10/15/2010	13:10	9727625R		

VEGETATION



Date: 11/16/2010

CLIENT: Western Water Consultants
Project: Ross ISR
Lab Order: S1007200

CASE NARRATIVE
Report ID: S1007200001

Samples 1, 10, 11, 2, 3, 4, 5, 6, 7, 8, and 9 were received on June 29, 2010.

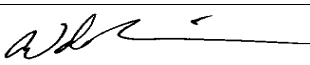
All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1998
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition
Methods indicated with the Monday, March 12, 2007 Federal Register, 40 CFR Part 122, 136 et al.

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Qualifiers by sample

S1007200-001 - Radiochemistry - Vegetation/Thorium230 - Analyzed by a contract laboratory
S1007200-002 - Radiochemistry - Vegetation/Thorium230 - Analyzed by a contract laboratory
S1007200-003 - Radiochemistry - Vegetation/Thorium230 - Analyzed by a contract laboratory
S1007200-004 - Radiochemistry - Vegetation/Thorium230 - Analyzed by a contract laboratory
S1007200-005 - Radiochemistry - Vegetation/Thorium230 - Analyzed by a contract laboratory
S1007200-006 - Radiochemistry - Vegetation/Thorium230 - Analyzed by a contract laboratory
S1007200-007 - Radiochemistry - Vegetation/Thorium230 - Analyzed by a contract laboratory
S1007200-008 - Radiochemistry - Vegetation/Thorium230 - Analyzed by a contract laboratory
S1007200-009 - Radiochemistry - Vegetation/Thorium230 - Analyzed by a contract laboratory
S1007200-010 - Radiochemistry - Vegetation/Thorium230 - Analyzed by a contract laboratory
S1007200-011 - Radiochemistry - Vegetation/Thorium230 - Analyzed by a contract laboratory

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/16/2010
Report ID: S1007200001

Project: Ross ISR
Lab ID: S1007200-001
Client Sample ID: 1
COC: 129627

Work Order: S1007200
Collection Date: 6/28/2010
Date Received: 6/29/2010
Sampler:
Matrix: Plant

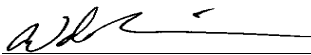
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	87.9± 7.8	1		pCi/Kg	11/03/2010 1530 SH	OTW01
Polonium 210	1.72 ± 0.55	0.2		pCi/Kg	11/03/2010 1530 SH	OTW01
Radium 226	5.21±0.17	0.2		pCi/Kg	10/07/2010 000 SH	SM 7500 Ra-B
Thorium230	0.570±0.15	0.2	L	pCi/Kg	10/22/2010 1328 WN	ACW10
Total Metals 3050/200.8						
Uranium	1.47	0.001		mg/Kg	09/16/2010 1018 MS	200.8

These results apply only to the samples tested.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL
 - O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/16/2010
Report ID: S1007200001

Project: Ross ISR
Lab ID: S1007200-002
Client Sample ID: 2
COC: 129627

Work Order: S1007200
Collection Date: 6/28/2010
Date Received: 6/29/2010
Sampler:
Matrix: Plant

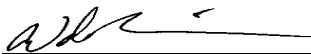
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	3.9 ± 0.5	1		pCi/Kg	10/29/2010 1141 SH	OTW01
Polonium 210	0.9 ± 0.3	0.2		pCi/Kg	10/29/2010 1141 SH	OTW01
Radium 226	3.06±0.13	0.2		pCi/Kg	10/07/2010 000 SH	SM 7500 Ra-B
Thorium230	0.675±0.16	0.2	L	pCi/Kg	10/22/2010 1328 WN	ACW10
Total Metals 3050/200.8						
Uranium	1.87	0.001		mg/Kg	09/16/2010 1025 MS	200.8

These results apply only to the samples tested.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL
 - O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/16/2010
Report ID: S1007200001

Project: Ross ISR
Lab ID: S1007200-003
Client Sample ID: 3
COC: 129627

Work Order: S1007200
Collection Date: 6/28/2010
Date Received: 6/29/2010
Sampler:
Matrix: Plant

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	48.4 ± 6.3	1		pCi/Kg	11/03/2010 1530 SH	OTW01
Polonium 210	1.34 ± 0.52	0.2		pCi/Kg	11/03/2010 1530 SH	OTW01
Radium 226	1.78±0.10	0.2		pCi/Kg	10/07/2010 000 SH	SM 7500 Ra-B
Thorium230	0.280±0.09	0.2	L	pCi/Kg	10/22/2010 1328 WN	ACW10
Total Metals 3050/200.8						
Uranium	0.586	0.001		mg/Kg	09/16/2010 1027 MS	200.8

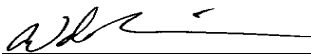
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/16/2010
Report ID: S1007200001

Project: Ross ISR
Lab ID: S1007200-004
Client Sample ID: 4
COC: 129627

Work Order: S1007200
Collection Date: 6/28/2010
Date Received: 6/29/2010
Sampler:
Matrix: Plant

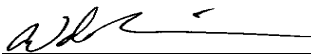
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	52.6 ± 6.7	1		pCi/Kg	11/03/2010 1530 SH	OTW01
Polonium 210	0.766 ± 0.38	0.2		pCi/Kg	11/03/2010 1530 SH	OTW01
Radium 226	1.28±0.08	0.2		pCi/Kg	10/07/2010 000 SH	SM 7500 Ra-B
Thorium230	0.720±0.16	0.2	L	pCi/Kg	10/22/2010 1328 WN	ACW10
Total Metals 3050/200.8						
Uranium	1.36	0.001		mg/Kg	09/16/2010 1029 MS	200.8

These results apply only to the samples tested.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL
 - O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/16/2010
Report ID: S1007200001

Project: Ross ISR
Lab ID: S1007200-005
Client Sample ID: 5
COC: 129627

Work Order: S1007200
Collection Date: 6/28/2010
Date Received: 6/29/2010
Sampler:
Matrix: Plant

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	105 ± 8.2	1		pCi/Kg	11/03/2010 1530 SH	OTW01
Polonium 210	0.438 ± 0.30	0.2		pCi/Kg	11/03/2010 1530 SH	OTW01
Radium 226	1.24±0.07	0.2		pCi/Kg	10/07/2010 000 SH	SM 7500 Ra-B
Thorium230	1.92±0.38	0.2	L	pCi/Kg	10/22/2010 1328 WN	ACW10
Total Metals 3050/200.8						
Uranium	3.99	0.001		mg/Kg	09/16/2010 1032 MS	200.8

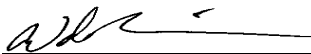
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/16/2010
Report ID: S1007200001

Project: Ross ISR
Lab ID: S1007200-006
Client Sample ID: 6
COC: 129627

Work Order: S1007200
Collection Date: 6/28/2010
Date Received: 6/29/2010
Sampler:
Matrix: Plant

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	57.3 ± 7.5	1		pCi/Kg	11/03/2010 1530 SH	OTW01
Polonium 210	0.587 ± 0.34	0.2		pCi/Kg	11/03/2010 1530 SH	OTW01
Radium 226	1.92±0.10	0.2		pCi/Kg	10/07/2010 000 SH	SM 7500 Ra-B
Thorium230	5.55±1.1	0.2	L	pCi/Kg	10/22/2010 1328 WN	ACW10
Total Metals 3050/200.8						
Uranium	13.9	0.001		mg/Kg	09/16/2010 1039 MS	200.8

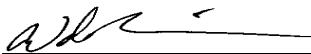
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/16/2010
Report ID: S1007200001

Project: Ross ISR
Lab ID: S1007200-007
Client Sample ID: 7
COC: 129627

Work Order: S1007200
Collection Date: 6/28/2010
Date Received: 6/29/2010
Sampler:
Matrix: Plant

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	149 ± 15.2	1		pCi/Kg	11/03/2010 1530 SH	OTW01
Polonium 210	1.99 ± 0.95	0.2		pCi/Kg	11/03/2010 1530 SH	OTW01
Radium 226	4.64±0.16	0.2		pCi/Kg	10/07/2010 000 SH	SM 7500 Ra-B
Thorium230	1.72±0.38	0.3	L	pCi/Kg	10/22/2010 1328 WN	ACW10
Total Metals 3050/200.8						
Uranium	2.80	0.001		mg/Kg	09/16/2010 1041 MS	200.8

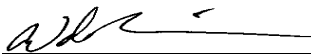
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/16/2010
Report ID: S1007200001

Project: Ross ISR
Lab ID: S1007200-008
Client Sample ID: 8
COC: 129627

Work Order: S1007200
Collection Date: 6/28/2010
Date Received: 6/29/2010
Sampler:
Matrix: Plant

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	264 ± 19.1	1		pCi/Kg	11/03/2010 1530 SH	OTW01
Polonium 210	0.225 ± 0.51	0.2		pCi/Kg	11/03/2010 1530 SH	OTW01
Radium 226	1.12±0.08	0.2		pCi/Kg	10/07/2010 000 SH	SM 7500 Ra-B
Thorium230	3.0±0.6	0.2	L	pCi/Kg	10/22/2010 1328 WN	ACW10
Total Metals 3050/200.8						
Uranium	2.28	0.001		mg/Kg	09/16/2010 1043 MS	200.8

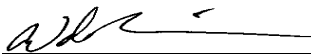
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/16/2010
Report ID: S1007200001

Project: Ross ISR
Lab ID: S1007200-009
Client Sample ID: 9
COC: 129627

Work Order: S1007200
Collection Date: 6/28/2010
Date Received: 6/29/2010
Sampler:
Matrix: Plant

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	79.3 ± 14.4	1		pCi/Kg	11/03/2010 1530 SH	OTW01
Polonium 210	1.66 ± 0.83	0.2		pCi/Kg	11/03/2010 1530 SH	OTW01
Radium 226	4.78±0.16	0.2		pCi/Kg	10/07/2010 000 SH	SM 7500 Ra-B
Thorium230	0.955±0.20	0.2	L	pCi/Kg	10/22/2010 1328 WN	ACW10
Total Metals 3050/200.8						
Uranium	2.14	0.001		mg/Kg	09/16/2010 1046 MS	200.8

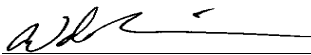
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/16/2010
Report ID: S1007200001

Project: Ross ISR
Lab ID: S1007200-010
Client Sample ID: 10
COC: 129627

Work Order: S1007200
Collection Date: 6/28/2010
Date Received: 6/29/2010
Sampler:
Matrix: Plant

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	149 ± 16.3	1		pCi/Kg	11/03/2010 1530 SH	OTW01
Polonium 210	1.56 ± 0.74	0.2		pCi/Kg	11/03/2010 1530 SH	OTW01
Radium 226	3.73±0.14	0.2		pCi/Kg	10/07/2010 000 SH	SM 7500 Ra-B
Thorium230	1.08±0.28	0.2	L	pCi/Kg	10/22/2010 1328 WN	ACW10
Total Metals 3050/200.8						
Uranium	1.65	0.001		mg/Kg	09/16/2010 1048 MS	200.8

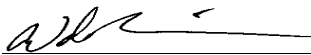
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/16/2010
Report ID: S1007200001

Project: Ross ISR
Lab ID: S1007200-011
Client Sample ID: 11
COC: 129627

Work Order: S1007200
Collection Date: 6/28/2010
Date Received: 6/29/2010
Sampler:
Matrix: Plant

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	69.8 ± 11.2	1		pCi/Kg	11/03/2010 1530 SH	OTW01
Polonium 210	1.15 ± 0.67	0.2		pCi/Kg	11/03/2010 1530 SH	OTW01
Radium 226	3.35±0.13	0.2		pCi/Kg	10/07/2010 000 SH	SM 7500 Ra-B
Thorium230	0.700±0.19	0.2	L	pCi/Kg	10/22/2010 1328 WN	ACW10
Total Metals 3050/200.8						
Uranium	2.17	0.001		mg/Kg	09/16/2010 1055 MS	200.8

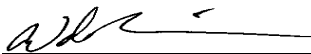
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Inter-Mountain Labs
 Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

This is a LEGAL DOCUMENT. All shaded fields must be completed. See reverse for instructions.

129627

Ross ISR Project

Client Name Strata Energy		Project Identification Ross ISR Project		Sampler (Signature/Printed) <i>Jim Orpet</i>		Telephone # (307) 745-3803	
Report Address P.O. Box 2318 Gillette, WY 82716		Contact Name Ben Schiffer (wvc)		ANALYSES / PARAMETERS Rad 226 Pb210 Po210 Th230 Nat-U			
Invoice Address P.O. Box 2318 Gillette, WY 82716		Email Bschiffer@wvc-engineering.com					
		Phone (307) 672-0761 ext. 148		Purchase Order #		Quote #	
						REMARKS	

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	ANALYSES / PARAMETERS					REMARKS
1	S1007200	6/28-29		Vegetation Samples 1-12	OT	12	Rad 226	Pb210	Po210	Th230	Nat-U	
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												

256

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Receiver By (Signature/Printed)	DATE	TIME
	<i>Jim Orpet</i>	6/29/10		<i>Kare Aseen</i>	6/29/10	

TR Addendum 2.9-C

SHIPPING INFO	MATRIX CODES	TURNAROUND TIMES	COMPLIANCE INFORMATION	ADDITIONAL REMARKS
<input type="checkbox"/> UPS <input type="checkbox"/> Fed Express <input type="checkbox"/> US Mail <input checked="" type="checkbox"/> Hand Carried <input type="checkbox"/> Other _____	Water WT Soil SL Solid SD Trip Blank TB Other OT	Check desired service <input type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH - 5 Working Days <input type="checkbox"/> URGENT - < 2 Working Days <i>Rush & Urgent Surcharges will be applied</i>	Compliance Monitoring? Y/N Program (SDWA, NPDES,...) PWSID / Permit # Chlorinated? Y/N Sample Disposal: Lab Client	



ANALYTICAL QC SUMMARY REPORT

Date: 11/16/2010

CLIENT: Western Water Consultants
Work Order: S1007200
Project: Ross ISR

Report ID: S1007200001

Ross ISR Project

Sample ID: MB-R64971	SampType: MBLK	TestCode: RAD_PB210_V	Units: pCi/Kg	Prep Date:	RunNo: 64971
Client ID:		Batch ID: R64971	Analysis Date: 11/3/2010 3:30:00 PM		SeqNo: 2031278
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	ND	1			

Sample ID: LCS-R64971	SampType: LCS	TestCode: RAD_PB210_V	Units: pCi/Kg	Prep Date:	RunNo: 64971
Client ID:		Batch ID: R64971	Analysis Date: 11/3/2010 3:30:00 PM		SeqNo: 2031279
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	11	1	11.1		93.4 70 130

Sample ID: S1007325-002AMS	SampType: MS	TestCode: RAD_PB210_V	Units: pCi/Kg	Prep Date:	RunNo: 64971
Client ID:		Batch ID: R64971	Analysis Date: 11/3/2010 3:30:00 PM		SeqNo: 2031591
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	288	1	223	50.3	107 70 130

Sample ID: S1007325-003ADUP	SampType: DUP	TestCode: RAD_PB210_V	Units: pCi/Kg	Prep Date:	RunNo: 64971
Client ID:		Batch ID: R64971	Analysis Date: 11/3/2010 3:30:00 PM		SeqNo: 2031593
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	163	1			169 3.07 20

257

TR Addendum 2.9-C

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
L Analyzed by a contract laboratory M Value exceeds Monthly Ave or MCL ND Not Detected at the Reporting Limit
O Outside the Range of Dilutions R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits



ANALYTICAL QC SUMMARY REPORT

Date: 11/16/2010

CLIENT: Western Water Consultants
Work Order: S1007200
Project: Ross ISR

Report ID: S1007200001

Sample ID: MB-R64971	SampType: MBLK	TestCode: RAD_PO210_V_T	Units: pCi/Kg	Prep Date:	RunNo: 64971
Client ID:		Batch ID: R64971	Analysis Date: 11/3/2010 3:30:00 PM		SeqNo: 2031594
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Polonium 210	ND	1			

Sample ID: LCS-R64971	SampType: LCS	TestCode: RAD_PO210_V_T	Units: pCi/Kg	Prep Date:	RunNo: 64971
Client ID:		Batch ID: R64971	Analysis Date: 11/3/2010 3:30:00 PM		SeqNo: 2031595
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Polonium 210	30	1	30.2		99.8 50 150

Sample ID: S1007325-002AMS	SampType: MS	TestCode: RAD_PO210_V_T	Units: pCi/Kg	Prep Date:	RunNo: 64971
Client ID:		Batch ID: R64971	Analysis Date: 11/3/2010 3:30:00 PM		SeqNo: 2031609
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Polonium 210	13	1	11.1	1.17	107 50 150

Sample ID: S1007325-003ADUP	SampType: DUP	TestCode: RAD_PO210_V_T	Units: pCi/Kg	Prep Date:	RunNo: 64971
Client ID:		Batch ID: R64971	Analysis Date: 11/3/2010 3:30:00 PM		SeqNo: 2031611
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Polonium 210	6	1			5.07 14.8 20

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
L Analyzed by a contract laboratory M Value exceeds Monthly Ave or MCL ND Not Detected at the Reporting Limit
O Outside the Range of Dilutions R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Ross ISR Project

258

TR Addendum 2.9-C



ANALYTICAL QC SUMMARY REPORT

Date: 11/16/2010

CLIENT: Western Water Consultants
Work Order: S1007200
Project: Ross ISR

Report ID: S1007200001

Sample ID: MB10-273B	SampType: MBLK	TestCode: RAD_RA226_V	Units: pCi/Kg	Prep Date: 10/5/2010	RunNo: 64510
Client ID:		Batch ID: R64510	Analysis Date: 10/7/2010 1:04:00 PM	SeqNo: 2016859	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	ND	0.05			

Sample ID: LCS10-273B	SampType: LCS	TestCode: RAD_RA226_V	Units: pCi/Kg	Prep Date: 10/5/2010	RunNo: 64510
Client ID:		Batch ID: R64510	Analysis Date: 10/7/2010 1:04:00 PM	SeqNo: 2016860	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	5.39	0.05	9.52		56.6 50 150

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
L Analyzed by a contract laboratory M Value exceeds Monthly Ave or MCL ND Not Detected at the Reporting Limit
O Outside the Range of Dilutions R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Ross ISR Project

259

TR Addendum 2.9-C



ANALYTICAL QC SUMMARY REPORT

Date: 11/16/2010

CLIENT: Western Water Consultants
Work Order: S1007200
Project: Ross ISR

Report ID: S1007200001

Sample ID: Cont Cal Blank	SampType: MBLK	TestCode: TOT3050_200.8_S	Units: mg/Kg	Prep Date:	RunNo: 62984
Client ID:		Batch ID: R62984	Analysis Date: 9/16/2010 10:34:34 AM		SeqNo: 1969125
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	ND	0.001			

Sample ID: Ics	SampType: LCS	TestCode: TOT3050_200.8_S	Units: mg/Kg	Prep Date:	RunNo: 62984
Client ID:		Batch ID: R62984	Analysis Date: 9/16/2010 10:11:09 AM		SeqNo: 1969118
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	0.101	0.001	0.1		101 85 115

Sample ID: S1007200-001A	SampType: DUP	TestCode: TOT3050_200.8_S	Units: mg/Kg	Prep Date:	RunNo: 62984
Client ID: 1		Batch ID: R62984	Analysis Date: 9/16/2010 10:20:32 AM		SeqNo: 1969120
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	1.46	0.001			1.47 0.913 20

Sample ID: S1007200-010A	SampType: DUP	TestCode: TOT3050_200.8_S	Units: mg/Kg	Prep Date:	RunNo: 62984
Client ID: 10		Batch ID: R62984	Analysis Date: 9/16/2010 10:50:57 AM		SeqNo: 1969132
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	1.64	0.001			1.65 0.346 20

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
L Analyzed by a contract laboratory M Value exceeds Monthly Ave or MCL ND Not Detected at the Reporting Limit
O Outside the Range of Dilutions R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits



Inter-Mountain Labs
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

This is a **LEGAL DOCUMENT**. All shaded fields must be completed. See reverse for instructions.

131448

Ross ISR Project

Client Name STRATA LWWE	Project Identification ROSS ISR	Sampler (Signature/Printed) <i>[Signature]</i> / Ben Schiffer	Telephone #
Report Address 1849 TERRA	Contact Name BEN SCHIFFER	ANALYSES / PARAMETERS	
Invoice Address 1849 TERRA	Email		
	Phone		
	Purchase Order #	Quote #	

ITEM	LAB ID <small>(Lab Use Only)</small>	DATE	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	ANALYSES / PARAMETERS					REMARKS
							URANIUM (TOTAL) THORIUM 230	RAD IUM 226	LEAD 210	POLONIUM 210		
1	S1008396-001	8/23/10	15:25	RAD VEG #1	OT	1	✓	✓	✓	✓	✓	SWSW, S7, T53N, R67W
2												
3	S1008396-002	8/23/10	15:55	RAD VEG #2	OT	1	✓	✓	✓	✓	✓	SWSW, S7, T53N, R67W
4												
5	S1008396-003	8/23/10	16:35	RAD VEG #3	OT	1	✓	✓	✓	✓	✓	NESW, S7, T53N, R67W
6												
7	S1008396-004	8/23/10	17:00	RAD VEG #4	OT	1	✓	✓	✓	✓	✓	NWNE, S18, T53N, R67W
8												
9	S1008396-005	8/23/10	17:35	RAD VEG #5	OT	1	✓	✓	✓	✓	✓	SWNW, S18, T53N, R67W
10												
11												
12												
13												
14												

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
	<i>[Signature]</i> / BEN SCHIFFER	8/24/10	08:20	<i>[Signature]</i> / Jim Yocum	8/24/10	08:29

261

TR Addendum 2.9-C

SHIPPING INFO	MATRIX CODES	TURNAROUND TIMES	COMPLIANCE INFORMATION	ADDITIONAL REMARKS
<input type="checkbox"/> UPS <input type="checkbox"/> Fed Express <input type="checkbox"/> US Mail <input type="checkbox"/> Hand Carried <input type="checkbox"/> Other _____	Water WT Soil SL Solid SD Trip Blank TB Other OT	<input checked="" type="checkbox"/> Check desired service <input type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH - 5 Working Days <input type="checkbox"/> URGENT - < 2 Working Days <i>Rush & Urgent Surcharges will be applied</i>	Compliance Monitoring? <input type="checkbox"/> Y / <input type="checkbox"/> N Program (SDWA, NPDES,...) PWSID / Permit # Chlorinated? <input type="checkbox"/> Y / <input type="checkbox"/> N Sample Disposal: Lab <input type="checkbox"/> Client	



Date: 11/24/2010

CLIENT: Western Water Consultants
Project: Strata\Ross ISR
Lab Order: S1008396

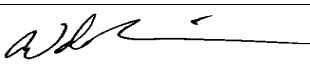
CASE NARRATIVE
Report ID: S1008396001

Samples Rad Veg #1 - SWSW, S7, T53N, R67W, Rad Veg #2 - SWSW, S7, T53N, R67W, Rad Veg #3 - NESW, S7, T53N, R67W, Rad Veg #4 - NWNE, S18, T53N, R67W, and Rad Veg #5 - SWNW, S18, T53N, R67W were received on August 24, 2010.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1998
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition
Methods indicated with the Monday, March 12, 2007 Federal Register, 40 CFR Part 122, 136 et al.

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative. Analytical Comments for METHOD RAD_PB210_V, SAMPLE LCS-R65063:

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/24/2010
Report ID: S1008396001

Project: Strata\Ross ISR
Lab ID: S1008396-001
Client Sample ID: Rad Veg #1 - SWSW, S7, T53N, R67W
COC: 131448

Work Order: S1008396
Collection Date: 8/23/2010 3:25:00 PM
Date Received: 8/24/2010
Sampler: Ben Schiffer
Matrix: Plant

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	82.6 ± 8.9	1		piC/L	11/15/2010 1726 SH	OTW01
Polonium 210	9.46 ± 3.0	1		piC/L	11/18/2010 1423 SH	OTW01
Radium 226	27.0 ± 0.59	0.05		pCi/Kg	10/28/2010 732 SH	SM 7500 Ra-B
Thorium230	2.38±0.77	0.2	L	pCi/Kg	10/22/2010 1328 WN	ACW10
Total Metals 3050/200.8						
Uranium	4.47	0.001		mg/Kg	09/23/2010 1053 MS	200.8

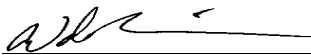
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/24/2010
Report ID: S1008396001

Project: Strata\Ross ISR
Lab ID: S1008396-002
Client Sample ID: Rad Veg #2 - SWSW, S7, T53N, R67W
COC: 131448

Work Order: S1008396
Collection Date: 8/23/2010 3:55:00 PM
Date Received: 8/24/2010
Sampler: Ben Schiffer
Matrix: Plant

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	68.0 ± 8.5	1		piC/L	11/15/2010 1726 SH	OTW01
Polonium 210	2.57 ± 1.4	1		piC/L	11/18/2010 1423 SH	OTW01
Radium 226	7.97± 0.31	0.05		pCi/Kg	10/28/2010 732 SH	SM 7500 Ra-B
Thorium230	0.954±0.21	0.2	L	pCi/Kg	10/22/2010 1328 WN	ACW10
Total Metals 3050/200.8						
Uranium	2.35	0.001		mg/Kg	09/23/2010 1055 MS	200.8

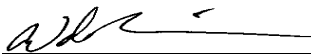
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/24/2010
Report ID: S1008396001

Project: Strata\Ross ISR
Lab ID: S1008396-003
Client Sample ID: Rad Veg #3 - NESW, S7, T53N, R67W
COC: 131448

Work Order: S1008396
Collection Date: 8/23/2010 4:35:00 PM
Date Received: 8/24/2010
Sampler: Ben Schiffer
Matrix: Plant

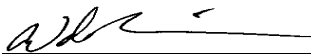
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	60.3 ± 8.0	1		piC/L	11/15/2010 1726 SH	OTW01
Polonium 210	3.94 ± 2.0	1		piC/L	11/18/2010 1423 SH	OTW01
Radium 226	7.68 ± 0.28	0.05		pCi/Kg	10/28/2010 732 SH	SM 7500 Ra-B
Thorium230	0.657±0.17	0.2	L	pCi/Kg	10/22/2010 1328 WN	ACW10
Total Metals 3050/200.8						
Uranium	1.25	0.001		mg/Kg	09/23/2010 1102 MS	200.8

These results apply only to the samples tested.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL
 - O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/24/2010
Report ID: S1008396001

Project: Strata\Ross ISR
Lab ID: S1008396-004
Client Sample ID: Rad Veg #4 - NWNE, S18, T53N, R67W
COC: 131448

Work Order: S1008396
Collection Date: 8/23/2010 5:00:00 PM
Date Received: 8/24/2010
Sampler: Ben Schiffer
Matrix: Plant

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	85.3 ± 9.0	1		piC/L	11/15/2010 1726 SH	OTW01
Polonium 210	5.05 ± 2.1	1		piC/L	11/18/2010 1423 SH	OTW01
Radium 226	7.64 ± 0.26	0.05		pCi/Kg	10/28/2010 732 SH	SM 7500 Ra-B
Thorium230	0.945±0.22	0.2	L	pCi/Kg	10/21/2010 1327 WN	ACW10
Total Metals 3050/200.8						
Uranium	1.54	0.001		mg/Kg	09/23/2010 1104 MS	200.8

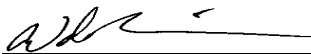
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/24/2010
Report ID: S1008396001

Project: Strata\Ross ISR
Lab ID: S1008396-005
Client Sample ID: Rad Veg #5 - SWNW, S18, T53N, R67W
COC: 131448

Work Order: S1008396
Collection Date: 8/23/2010 5:35:00 PM
Date Received: 8/24/2010
Sampler: Ben Schiffer
Matrix: Plant

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	45.7 ± 7.4	1		piC/L	11/15/2010 1726 SH	OTW01
Polonium 210	4.52 ± 2.0	1		piC/L	11/18/2010 1423 SH	OTW01
Radium 226	2.37± 0.16	0.05		pCi/Kg	10/28/2010 732 SH	SM 7500 Ra-B
Thorium230	1.84±0.34	0.2	L	pCi/Kg	10/21/2010 1327 WN	ACW10
Total Metals 3050/200.8						
Uranium	6.66	0.001		mg/Kg	09/23/2010 1107 MS	200.8

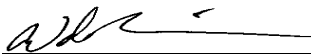
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



ANALYTICAL QC SUMMARY REPORT

Date: 11/24/2010

CLIENT: Western Water Consultants
Work Order: S1008396
Project: Strata/Ross ISR

Report ID: S1008396001

Ross ISR Project

Sample ID: MB-R65063	SampType: MBLK	TestCode: RAD_PB210_V	Units: pCi/Kg	Prep Date:	RunNo: 65063
Client ID:		Batch ID: R65063	Analysis Date: 11/15/2010 5:26:00 PM		SeqNo: 2033869
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	ND	1			

Sample ID: MB 35	SampType: MBLK	TestCode: RAD_PB210_V	Units: pCi/Kg	Prep Date:	RunNo: 65063
Client ID:		Batch ID: R65063	Analysis Date: 11/15/2010 5:26:00 PM		SeqNo: 2033881
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	ND	1			

268

Sample ID: S1008396-001AMS	SampType: MS	TestCode: RAD_PB210_V	Units: pCi/Kg	Prep Date:	RunNo: 65063
Client ID: Rad Veg #1 - SWSW, S7, T53N, R67W		Batch ID: R65063	Analysis Date: 11/15/2010 5:26:00 PM		SeqNo: 2033886
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	391	1	222	159	105 70 130

Sample ID: S1008396-002ADUP	SampType: DUP	TestCode: RAD_PB210_V	Units: pCi/Kg	Prep Date:	RunNo: 65063
Client ID: Rad Veg #2 - SWSW, S7, T53N, R67W		Batch ID: R65063	Analysis Date: 11/15/2010 5:26:00 PM		SeqNo: 2033887
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	67	1			64.4 3.28 20

TR Addendum 2.9-C

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	L Analyzed by a contract laboratory	M Value exceeds Monthly Ave or MCL
	ND Not Detected at the Reporting Limit	O Outside the Range of Dilutions	R RPD outside accepted recovery limits
	S Spike Recovery outside accepted recovery limits		



ANALYTICAL QC SUMMARY REPORT

Date: 11/24/2010

CLIENT: Western Water Consultants

Report ID: S1008396001

Work Order: S1008396

Project: Strata/Ross ISR

Ross ISR Project

Sample ID: MB-R65063	SampType: MBLK	TestCode: RAD_PO210_V_T	Units: pCi/Kg	Prep Date:	RunNo: 65063
Client ID:		Batch ID: R65063	Analysis Date: 11/15/2010 5:26:00 PM		SeqNo: 2041542
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Polonium 210	ND	1			

Sample ID: LCS-R65063	SampType: LCS	TestCode: RAD_PO210_V_T	Units: pCi/Kg	Prep Date:	RunNo: 65063
Client ID:		Batch ID: R65063	Analysis Date: 11/15/2010 5:26:00 PM		SeqNo: 2041543
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Polonium 210	22	1	26.2		84.6 50 150

269

Sample ID: S1008396-001AMS	SampType: MS	TestCode: RAD_PO210_V_T	Units: pCi/Kg	Prep Date:	RunNo: 65063
Client ID: Rad Veg #1 - SWSW, S7, T53N, R67W		Batch ID: R65063	Analysis Date: 11/15/2010 5:26:00 PM		SeqNo: 2041550
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Polonium 210	7	1	3.78	2.54	109 50 150

Sample ID: S1008396-002ADUP	SampType: DUP	TestCode: RAD_PO210_V_T	Units: pCi/Kg	Prep Date:	RunNo: 65063
Client ID: Rad Veg #2 - SWSW, S7, T53N, R67W		Batch ID: R65063	Analysis Date: 11/15/2010 5:26:00 PM		SeqNo: 2041552
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Polonium 210	ND	1			0.452 0 20

TR Addendum 2.9-C

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	L Analyzed by a contract laboratory	M Value exceeds Monthly Ave or MCL
	ND Not Detected at the Reporting Limit	O Outside the Range of Dilutions	R RPD outside accepted recovery limits
	S Spike Recovery outside accepted recovery limits		



ANALYTICAL QC SUMMARY REPORT

Date: 11/24/2010

CLIENT: Western Water Consultants
Work Order: S1008396
Project: Strata/Ross ISR

Report ID: S1008396001

Ross ISR Project

Sample ID: MB-R64565	SampType: MBLK	TestCode: RAD_RA226_V	Units: pCi/Kg	Prep Date:	RunNo: 64565
Client ID:		Batch ID: R64565	Analysis Date: 10/28/2010 7:32:00 AM		SeqNo: 2018418
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	ND	0.2			

Sample ID: MB-R64565	SampType: MBLK	TestCode: RAD_RA226_V	Units: pCi/Kg	Prep Date:	RunNo: 64565
Client ID:		Batch ID: R64565	Analysis Date: 10/28/2010 7:32:00 AM		SeqNo: 2018430
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	0.4	0.2			

270

Sample ID: LCS-R64565	SampType: LCS	TestCode: RAD_RA226_V	Units: pCi/Kg	Prep Date:	RunNo: 64565
Client ID:		Batch ID: R64565	Analysis Date: 10/28/2010 7:32:00 AM		SeqNo: 2018419
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	8.4	0.2	9.5		87.8 70 130

Sample ID: Ics	SampType: LCS	TestCode: TOT3050_200.8_S	Units: mg/Kg	Prep Date:	RunNo: 63250
Client ID:		Batch ID: R63250	Analysis Date: 9/23/2010 10:34:33 AM		SeqNo: 1976148
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	0.103	0.001	0.1		103 85 115

TR Addendum 2.9-C

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	L Analyzed by a contract laboratory	M Value exceeds Monthly Ave or MCL
	ND Not Detected at the Reporting Limit	O Outside the Range of Dilutions	R RPD outside accepted recovery limits
	S Spike Recovery outside accepted recovery limits		

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Method Blank Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS101001-4MB	Sample Matrix: WATER Prep SOP: PAI 777 Rev 9 Date Collected: 01-Oct-10 Date Prepared: 01-Oct-10 Date Analyzed: 11-Oct-10	Prep Batch: AS101001-4 QC Batch ID: AS101001-4-1 Run ID: TAS101001-4TH Count Time: 900 minutes	Final Aliquot: 500 ml Result Units: pCi/l File Name: Spectrum #1
----------------------	--	---	--

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.032 +/- 0.080	0.141	0.2	U

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.82	pCi/l	64.0	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

- M - Requested MDC not met.
- B - Analyte concentration greater than MDC.
- B3 - Analyte concentration greater than MDC but less than Requested MDC.

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Method Blank Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS101001-5MB

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 01-Oct-10
Date Prepared: 01-Oct-10
Date Analyzed: 08-Oct-10

Prep Batch: AS101001-5
QCBatchID: AS101001-5-1
Run ID: AS101001-5TH
Count Time: 800 minutes

Final Aliquot: 500 ml
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.014 +/- 0.091	0.173	0.2	U

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.37	pCi/l	53.8	30 - 110 %	

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.

Abbreviations:

TPU - Total Propagated Uncertainty
MDC - Minimum Detectable Concentration
BDL - Below Detection Limit

M - Requested MDC not met.
B - Analyte concentration greater than MDC.
B3 - Analyte concentration greater than MDC but less than Requested MDC.

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Laboratory Control Sample(s)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS101001-4LCS	Sample Matrix: WATER Prep SOP: PAI 777 Rev 9 Date Collected: 01-Oct-10 Date Prepared: 01-Oct-10 Date Analyzed: 11-Oct-10	Prep Batch: AS101001-4 QCBatchID: AS101001-4-1 Run ID: TAS101001-4TH Count Time: 900 minutes	Final Aliquot: 500 ml Result Units: pCi/l File Name: Spectrum #1
------------------------------	---	---	---

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
14269-63-7	Th-230	5.24 +/- 0.93	0.14	5.11	102	85 - 121	P

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.83	pCi/l	64.1	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Laboratory Control Sample(s)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS101001-4LCSD	Sample Matrix: WATER Prep SOP: PAI 777 Rev 9 Date Collected: 01-Oct-10 Date Prepared: 01-Oct-10 Date Analyzed: 11-Oct-10	Prep Batch: AS101001-4 QCBatchID: AS101001-4-1 Run ID: TAS101001-4TH Count Time: 900 minutes	Final Aliquot: 500 ml Result Units: pCi/l File Name: Spectrum #1
-------------------------------	---	---	---

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
14269-63-7	Th-230	5.28 +/- 0.93	0.14	5.11	103	85 - 121	P

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.67	pCi/l	60.6	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Laboratory Control Sample(s)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS101001-5LCS	Sample Matrix: WATER Prep SOP: PAI 777 Rev 9 Date Collected: 01-Oct-10 Date Prepared: 01-Oct-10 Date Analyzed: 08-Oct-10	Prep Batch: AS101001-5 QCBatchID: AS101001-5-1 Run ID: AS101001-5TH Count Time: 800 minutes	Final Aliquot: 500 ml Result Units: pCi/l File Name: Spectrum #1
-----------------------	--	--	--

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
14269-63-7	Th-230	5.5 +/- 1.0	0.1	5.11	109	85 - 121	P

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.58	pCi/l	58.5	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Laboratory Control Sample(s)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS101001-5LCSD	Sample Matrix: WATER Prep SOP: PAI 777 Rev 9 Date Collected: 01-Oct-10 Date Prepared: 01-Oct-10 Date Analyzed: 08-Oct-10	Prep Batch: AS101001-5 QCBatchID: AS101001-5-1 Run ID: AS101001-5TH Count Time: 800 minutes	Final Aliquot: 500 ml Result Units: pCi/l File Name: Spectrum #1
-------------------------------	---	--	---

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
14269-63-7	Th-230	5.24 +/- 0.96	0.15	5.11	102	85 - 121	P

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.53	pCi/l	57.4	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Duplicate Sample Results (DER)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	
Lab ID:	AS101001-4LCSD

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 01-Oct-10
Date Prepared: 01-Oct-10
Date Analyzed: 11-Oct-10

Prep Batch: AS101001-4
QCBatchID: AS101001-4-1
Run ID: TAS101001-4TH
Count Time: 900 minutes

Final Aliquot: 500 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Analyte	Sample				Duplicate				DER	DER Lim
		Result +/-	2 s TPU	MDC	Flags	Result +/-	2 s TPU	MDC	Flags		
14269-63-7	Th-230	5.24 +/-	0.93	0.14	P	5.28 +/-	0.93	0.14	P	0.0313	2.13

Comments:

Duplicate Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
- Y2 - Chemical Yield outside default limits.
- W - DER is greater than Warning Limit of 1.42
- D - DER is greater than Control Limit of 2.13
- LT - Result is less than Request MDC, greater than sample specific MDC
- M - Requested MDC not met.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS, Matrix Spike Recovery within control limits.
- N - Matrix Spike Recovery outside control limits

Abbreviations:

- TPU - Total Propagated Uncertainty
- DER - Duplicate Error Ratio
- BDL - Below Detection Limit
- NR - Not Reported

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Duplicate Sample Results (DER)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	
Lab ID:	AS101001-5LCSD

Sample Matrix: WATER
 Prep SOP: PAI 777 Rev 9
 Date Collected: 01-Oct-10
 Date Prepared: 01-Oct-10
 Date Analyzed: 08-Oct-10

Prep Batch: AS101001-5
 QCBatchID: AS101001-5-1
 Run ID: AS101001-5TH
 Count Time: 800 minutes

Final Aliquot: 500 ml
 Prep Basis: Unfiltered
 Moisture(%): NA
 Result Units: pCi/l
 File Name: Spectrum #1

CASNO	Analyte	Sample				Duplicate				DER	DER Lim
		Result +/-	2 s TPU	MDC	Flags	Result +/-	2 s TPU	MDC	Flags		
14269-63-7	Th-230	5.5 +/-	1.0	0.1	P	5.24 +/-	0.96	0.15	P	0.225	2.13

Comments:

Duplicate Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
- Y2 - Chemical Yield outside default limits.
- W - DER is greater than Warning Limit of 1.42
- D - DER is greater than Control Limit of 2.13
- LT - Result is less than Request MDC, greater than sample specific MDC
- M - Requested MDC not met.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS, Matrix Spike Recovery within control limits.
- N - Matrix Spike Recovery outside control limits

Abbreviations:

- TPU - Total Propagated Uncertainty
- DER - Duplicate Error Ratio
- BDL - Below Detection Limit
- NR - Not Reported

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	RAD Veg #4-NW
Lab ID:	1009379-19

Sample Matrix: WATER

Prep SOP: PAI 777 Rev 9

Date Collected: 23-Aug-10

Date Prepared: 01-Oct-10

Date Analyzed: 11-Oct-10

Prep Batch: AS101001-4

QCBatchID: AS101001-4-1

Run ID: TAS101001-4TH

Count Time: 900 minutes

Report Basis: Unfiltered

Final Aliquot: 495 ml

Prep Basis: Unfiltered

Moisture(%): NA

Result Units: pCi/l

File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	1.86 +/- 0.42	0.18	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.455	1.84	pCi/l	41.4	30 - 110 %	

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	RAD Veg #5-SW
Lab ID:	1009379-20

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 23-Aug-10
Date Prepared: 01-Oct-10
Date Analyzed: 11-Oct-10

Prep Batch: AS101001-4
QCBatchID: AS101001-4-1
Run ID: TAS101001-4TH
Count Time: 900 minutes
Report Basis: Unfiltered

Final Aliquot: 495 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	3.42 +/- 0.63	0.14	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.455	2.85	pCi/l	64.0	30 - 110 %	

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Method Blank Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009377

Client Name: Inter-Mountain Labs

ClientProject ID: Titan Uranium

Lab ID: AS101001-3MB

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 01-Oct-10
Date Prepared: 01-Oct-10
Date Analyzed: 12-Oct-10

Prep Batch: AS101001-3
QC Batch ID: AS101001-3-1
Run ID: AS101001-3TH
Count Time: 900 minutes

Final Aliquot: 500 ml
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.017 +/- 0.094	0.176	0.2	U

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	1.77	pCi/l	40.2	30 - 110 %	

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.

Abbreviations:

TPU - Total Propagated Uncertainty
MDC - Minimum Detectable Concentration
BDL - Below Detection Limit

M - Requested MDC not met.
B - Analyte concentration greater than MDC.
B3 - Analyte concentration greater than MDC but less than Requested MDC.

Data Package ID: TH1009377-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Laboratory Control Sample(s)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009377

Client Name: Inter-Mountain Labs

ClientProject ID: Titan Uranium

Lab ID: AS101001-3LCS

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 01-Oct-10
Date Prepared: 01-Oct-10
Date Analyzed: 12-Oct-10

Prep Batch: AS101001-3
QCBatchID: AS101001-3-1
Run ID: AS101001-3TH
Count Time: 900 minutes

Final Aliquot: 500 ml
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
14269-63-7	Th-230	5.11 +/- 0.89	0.13	5.11	99.9	85 - 121	P

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	3.06	pCi/l	69.5	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: TH1009377-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Laboratory Control Sample(s)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009377

Client Name: Inter-Mountain Labs

ClientProject ID: Titan Uranium

Lab ID: AS101001-3LCSD	Sample Matrix: WATER Prep SOP: PAI 777 Rev 9 Date Collected: 01-Oct-10 Date Prepared: 01-Oct-10 Date Analyzed: 13-Oct-10	Prep Batch: AS101001-3 QCBatchID: AS101001-3-1 Run ID: AS101001-3TH Count Time: 900 minutes	Final Aliquot: 500 ml Result Units: pCi/l File Name: Spectrum #1
------------------------	--	--	--

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
14269-63-7	Th-230	4.74 +/- 0.84	0.13	5.11	92.7	85 - 121	P

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.98	pCi/l	67.5	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: TH1009377-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Duplicate Sample Results (DER)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009377

Client Name: Inter-Mountain Labs

ClientProject ID: Titan Uranium

Field ID:	
Lab ID:	AS101001-3LCSD

Sample Matrix: WATER
 Prep SOP: PAI 777 Rev 9
 Date Collected: 01-Oct-10
 Date Prepared: 01-Oct-10
 Date Analyzed: 13-Oct-10

Prep Batch: AS101001-3
 QCBatchID: AS101001-3-1
 Run ID: AS101001-3TH
 Count Time: 900 minutes

Final Aliquot: 500 ml
 Prep Basis: Unfiltered
 Moisture(%): NA
 Result Units: pCi/l
 File Name: Spectrum #1

CASNO	Analyte	Sample				Duplicate				DER	DER Lim
		Result +/-	2 s TPU	MDC	Flags	Result +/-	2 s TPU	MDC	Flags		
14269-63-7	Th-230	5.11 +/-	0.89	0.13	P	4.74 +/-	0.84	0.13	P	0.302	2.13

Comments:

Duplicate Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
- Y2 - Chemical Yield outside default limits.
- W - DER is greater than Warning Limit of 1.42
- D - DER is greater than Control Limit of 2.13
- LT - Result is less than Request MDC, greater than sample specific MDC
- M - Requested MDC not met.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS, Matrix Spike Recovery within control limits.
- N - Matrix Spike Recovery outside control limits

Abbreviations:

- TPU - Total Propagated Uncertainty
- DER - Duplicate Error Ratio
- BDL - Below Detection Limit
- NR - Not Reported

Data Package ID: TH1009377-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009377

Client Name: Inter-Mountain Labs

ClientProject ID: Titan Uranium

Field ID:	RAD Veg #1-SW
Lab ID:	1009377-4

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 23-Aug-10
Date Prepared: 01-Oct-10
Date Analyzed: 12-Oct-10

Prep Batch: AS101001-3
QCBatchID: AS101001-3-1
Run ID: AS101001-3TH
Count Time: 900 minutes
Report Basis: Unfiltered

Final Aliquot: 495 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	3.50 +/- 0.69	0.17	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.455	1.99	pCi/l	44.6	30 - 110 %	

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: TH1009377-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1009377
Client Name: Inter-Mountain Labs
ClientProject ID: Titan Uranium

Field ID:	RAD Veg #2-SW
Lab ID:	1009377-5

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 23-Aug-10
Date Prepared: 01-Oct-10
Date Analyzed: 12-Oct-10

Prep Batch: AS101001-3
QCBatchID: AS101001-3-1
Run ID: AS101001-3TH
Count Time: 900 minutes
Report Basis: Unfiltered

Final Aliquot: 495 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	1.86 +/- 0.40	0.17	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.455	2.13	pCi/l	47.9	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1009377-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009377

Client Name: Inter-Mountain Labs

ClientProject ID: Titan Uranium

Field ID:	RAD Veg #3-NE
Lab ID:	1009377-6

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 23-Aug-10
Date Prepared: 01-Oct-10
Date Analyzed: 12-Oct-10

Prep Batch: AS101001-3
QCBatchID: AS101001-3-1
Run ID: AS101001-3TH
Count Time: 900 minutes
Report Basis: Unfiltered

Final Aliquot: 495 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	1.14 +/- 0.30	0.20	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.455	1.73	pCi/l	38.8	30 - 110 %	

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: TH1009377-1



Inter-Mountain Labs
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

This is a LEGAL DOCUMENT. All shaded fields must be completed. See reverse for instructions.

131237

Ross ISR Project

Client Name STRATA LWC	Project Identification ROSS ISR	Sampler (Signature/Printed) <i>[Signature]</i> / Ben SCHIFFER	Telephone # 672-0761
Report Address 1849 TERRA	Contact Name BEN SCHIFFER	ANALYSES / PARAMETERS	
Invoice Address rr	Email		
	Phone		
	Purchase Order #	Quote #	

ITEM	LAB ID (Lab Use Only)	DATE	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	TOTAL URANIUM	THORIUM 230	RADIUM 226	LEAD 210	POLONIUM 210	REMARKS
2			14:10									
3	S1008430-002	8/24/10	15:15	RAD VEG #7	OT	1	✓	✓	✓	✓	✓	NENE, S19, T53N, R67W
4												
5	S1008430-003	8/24/10	14:55	RAD VEG #8	OT	1	✓	✓	✓	✓	✓	NWSE, S18, T53N, R67W
6												
7	S1008430-004	8/24/10	15:30	RAD VEG #10	OT	1	✓	✓	✓	✓	✓	NENE, S18, T53N, R67W
8												
9	S1008430-005	8/24/10	15:15	RAD VEG #11	OT	1	✓	✓	✓	✓	✓	NENE, S18, T53N, R67W
10												
11	S1008430-006	8/24/10	16:25	RAD VEG #12	OT	1	✓	✓	✓	✓	✓	SWNE, S13, T53N, R68W
12												
13												
14												

LAB COMMENTS	Reinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
	<i>[Signature]</i> / BEN SCHIFFER	8/25/10	08:02	<i>[Signature]</i> / Ben Yocum	8-25-10	08:02

288

TR Addendum 2.9-C

SHIPPING INFO	MATRIX CODES	TURNAROUND TIMES	COMPLIANCE INFORMATION	ADDITIONAL REMARKS
<input type="checkbox"/> UPS <input type="checkbox"/> Fed Express <input type="checkbox"/> US Mail <input type="checkbox"/> Hand Carried <input type="checkbox"/> Other _____	Water WT Soil SL Solid SD Trip Blank TB Other OT	Check desired service <input type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH - 5 Working Days <input type="checkbox"/> URGENT - < 2 Working Days <i>Rush & Urgent Surcharges will be applied</i>	Compliance Monitoring? Y / N Program (SDWA, NPDES,...) PWSID / Permit # Chlorinated? Y / N Sample Disposal: Lab Client	



Date: 11/24/2010

CLIENT: Western Water Consultants
Project: Ross ISR
Lab Order: S1008430

CASE NARRATIVE
Report ID: S1008430001

Samples Rad Veg #10 - NESE, S18, T53N, R67W, Rad Veg #11 - NESE, S18, T53N, R67W, Rad Veg #12 - SWNE, S13, T53N, R68W, Rad Veg #6 - SWSW, S18, T53N, R67W, Rad Veg #7 - NENE, S19, T53N, R67W, and Rad Veg #8 - NWSE, S18, T53N, R67W were received on August 25, 2010.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1998
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition
Methods indicated with the Monday, March 12, 2007 Federal Register, 40 CFR Part 122, 136 et al.

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager

Page 1 of 1



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/24/2010
Report ID: S1008430001

Project: Ross ISR
Lab ID: S1008430-001
Client Sample ID: Rad Veg #6 - SWSW, S18, T53N, R67W
COC: 131237

Work Order: S1008430
Collection Date: 8/24/2010 3:35:00 PM
Date Received: 8/25/2010
Sampler: Ben Schiffer
Matrix: Plant

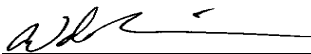
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	32.6 ± 6.2	1		piC/L	11/16/2010 1422 SH	OTW01
Polonium 210	23.4 ± 7.2	1		piC/L	11/16/2010 1127 SH	OTW01
Radium 226	1.84 ± 0.10	0.05		pCi/Kg	10/28/2010 732 SH	SM 7500 Ra-B
Thorium230	0.88±0.22	0.2		pCi/Kg	10/23/2010 000 WN	ACW10
Total Metals 3050/200.8						
Uranium	2.04	0.001		mg/Kg	09/29/2010 1240 MS	200.8

These results apply only to the samples tested.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL
 - O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/24/2010
Report ID: S1008430001

Project: Ross ISR
Lab ID: S1008430-002
Client Sample ID: Rad Veg #7 - NENE, S19, T53N, R67W
COC: 131237

Work Order: S1008430
Collection Date: 8/24/2010 2:10:00 PM
Date Received: 8/25/2010
Sampler: Ben Schiffer
Matrix: Plant

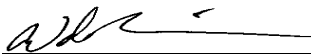
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	19.6 ± 5.3	1		piC/L	11/16/2010 1422 SH	OTW01
Polonium 210	7.86 ± 4.4	1		piC/L	11/16/2010 1302 SH	OTW01
Radium 226	2.65 ± 0.13	0.05		pCi/Kg	10/28/2010 732 SH	SM 7500 Ra-B
Thorium230	1.39±0.30	0.2		pCi/Kg	10/23/2010 000 WN	ACW10
Total Metals 3050/200.8						
Uranium	2.46	0.001		mg/Kg	09/29/2010 1243 MS	200.8

These results apply only to the samples tested.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL
 - O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/24/2010
Report ID: S1008430001

Project: Ross ISR
Lab ID: S1008430-003
Client Sample ID: Rad Veg #8 - NWSE, S18, T53N, R67W
COC: 131237

Work Order: S1008430
Collection Date: 8/24/2010 2:55:00 PM
Date Received: 8/25/2010
Sampler: Ben Schiffer
Matrix: Plant

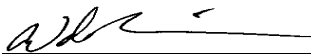
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	58.3 ± 7.5		1	piC/L	11/16/2010 1422 SH	OTW01
Polonium 210	13.7 ± 5.7		1	piC/L	11/16/2010 1302 SH	OTW01
Radium 226	8.62 ± 0.40	0.05		pCi/Kg	10/28/2010 732 SH	SM 7500 Ra-B
Thorium230	0.68±0.18	0.2		pCi/Kg	10/23/2010 000 WN	ACW10
Total Metals 3050/200.8						
Uranium	1.86	0.001		mg/Kg	09/29/2010 1245 MS	200.8

These results apply only to the samples tested.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL
 - O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/24/2010
Report ID: S1008430001

Project: Ross ISR
Lab ID: S1008430-004
Client Sample ID: Rad Veg #10 - NESE, S18, T53N, R67W
COC: 131237

Work Order: S1008430
Collection Date: 8/24/2010 3:30:00 PM
Date Received: 8/25/2010
Sampler: Ben Schiffer
Matrix: Plant

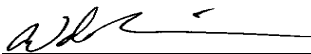
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	54.8 ± 7.2	1		piC/L	11/16/2010 1422 SH	OTW01
Polonium 210	16.0 ± 6.0	1		piC/L	11/16/2010 1302 SH	OTW01
Radium 226	4.45 ± 0.29	0.05		pCi/Kg	10/28/2010 732 SH	SM 7500 Ra-B
Thorium230	0.39±0.15	0.2		pCi/Kg	10/23/2010 000 WN	ACW10
Total Metals 3050/200.8						
Uranium	1.11	0.001		mg/Kg	09/29/2010 1247 MS	200.8

These results apply only to the samples tested.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL
 - O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/24/2010
Report ID: S1008430001

Project: Ross ISR
Lab ID: S1008430-005
Client Sample ID: Rad Veg #11 - NESE, S18, T53N, R67W
COC: 131237

Work Order: S1008430
Collection Date: 8/24/2010 3:15:00 PM
Date Received: 8/25/2010
Sampler: Ben Schiffer
Matrix: Plant

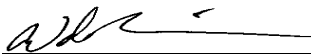
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	105 ± 9.2	1		piC/L	11/16/2010 1422 SH	OTW01
Polonium 210	6.01 ± 3.9	1		piC/L	11/16/2010 1302 SH	OTW01
Radium 226	3.0 4± 0.15	0.05		pCi/Kg	10/28/2010 732 SH	SM 7500 Ra-B
Thorium230	ND	0.2		pCi/Kg	10/23/2010 000 WN	ACW10
Total Metals 3050/200.8						
Uranium	1.42	0.001		mg/Kg	09/29/2010 1250 MS	200.8

These results apply only to the samples tested.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL
 - O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/24/2010
Report ID: S1008430001

Project: Ross ISR
Lab ID: S1008430-006
Client Sample ID: Rad Veg #12 - SWNE, S13, T53N, R68W
COC: 131237

Work Order: S1008430
Collection Date: 8/24/2010 4:25:00 PM
Date Received: 8/25/2010
Sampler: Ben Schiffer
Matrix: Plant

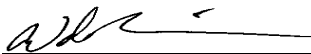
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	41.5 ± 6.3	1		piC/L	11/16/2010 1422 SH	OTW01
Polonium 210	4.16 ± 4.0	1		piC/L	11/16/2010 1302 SH	OTW01
Radium 226	1.38 ± 0.16	0.05		pCi/Kg	10/28/2010 732 SH	SM 7500 Ra-B
Thorium230	3.73±0.65	0.2		pCi/Kg	10/23/2010 000 WN	ACW10
Total Metals 3050/200.8						
Uranium	8.99	0.001		mg/Kg	11/03/2010 1632 MS	200.8

These results apply only to the samples tested.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL
 - O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



ANALYTICAL QC SUMMARY REPORT

Date: 11/24/2010

CLIENT: Western Water Consultants
Work Order: S1008430
Project: Ross ISR

Report ID: S1008430001

Ross ISR Project

Sample ID: VMB10-312	SampType: MBLK	TestCode: RAD_PB210_V	Units: piC/L	Prep Date:	RunNo: 65274
Client ID:		Batch ID: R65274	Analysis Date: 11/16/2010 2:22:00 PM	SeqNo: 2042145	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	ND	1			

Sample ID: VLCS10-312 Pb	SampType: LCS	TestCode: RAD_PB210_V	Units: piC/L	Prep Date:	RunNo: 65274
Client ID:		Batch ID: R65274	Analysis Date: 11/16/2010 2:22:00 PM	SeqNo: 2042144	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	13	1	11.3		118 70 130

296

Sample ID: VMB10-312	SampType: MBLK	TestCode: RAD_PO210_V_T	Units: piC/L	Prep Date:	RunNo: 65274
Client ID:		Batch ID: R65274	Analysis Date: 11/16/2010 11:27:00 AM	SeqNo: 2042093	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Polonium 210	ND	1			

TR Addendum 2.9-C

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	L Analyzed by a contract laboratory	M Value exceeds Monthly Ave or MCL
	ND Not Detected at the Reporting Limit	O Outside the Range of Dilutions	R RPD outside accepted recovery limits
	S Spike Recovery outside accepted recovery limits		



ANALYTICAL QC SUMMARY REPORT

Date: 11/24/2010

CLIENT: Western Water Consultants
Work Order: S1008430
Project: Ross ISR

Report ID: S1008430001

Ross ISR Project

Sample ID: MB-R64565	SampType: MBLK	TestCode: RAD_RA226_V	Units: pCi/Kg	Prep Date:	RunNo: 64565
Client ID:		Batch ID: R64565	Analysis Date: 10/28/2010 7:32:00 AM		SeqNo: 2018418
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	ND	0.2			

Sample ID: MB-R64565	SampType: MBLK	TestCode: RAD_RA226_V	Units: pCi/Kg	Prep Date:	RunNo: 64565
Client ID:		Batch ID: R64565	Analysis Date: 10/28/2010 7:32:00 AM		SeqNo: 2018430
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	0.4	0.2			

297

Sample ID: LCS-R64565	SampType: LCS	TestCode: RAD_RA226_V	Units: pCi/Kg	Prep Date:	RunNo: 64565
Client ID:		Batch ID: R64565	Analysis Date: 10/28/2010 7:32:00 AM		SeqNo: 2018419
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	8.4	0.2	9.5		87.8 70 130

Sample ID: S1008430-003AMS	SampType: MS	TestCode: RAD_RA226_V	Units: pCi/Kg	Prep Date:	RunNo: 64565
Client ID: Rad Veg #8 - NWSE, S18, T53N, R67W		Batch ID: R64565	Analysis Date: 10/28/2010 7:32:00 AM		SeqNo: 2018434
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	16	0.05	9.5	8.6	82.6 70 130

TR Addendum 2.9-C

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	L Analyzed by a contract laboratory	M Value exceeds Monthly Ave or MCL
	ND Not Detected at the Reporting Limit	O Outside the Range of Dilutions	R RPD outside accepted recovery limits
	S Spike Recovery outside accepted recovery limits		



ANALYTICAL QC SUMMARY REPORT

Date: 11/24/2010

CLIENT: Western Water Consultants
Work Order: S1008430
Project: Ross ISR

Report ID: S1008430001

Sample ID: S1008430-004ADUP	SampType: DUP	TestCode: RAD_RA226_V	Units: pCi/Kg	Prep Date:	RunNo: 64565						
Client ID: Rad Veg #10 - NESE, S18, T53N, R67W		Batch ID: R64565	Analysis Date: 10/28/2010 7:32:00 AM		SeqNo: 2018436						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium 226	4.6	0.05						4.4	3.59	20	

Ross ISR Project

298

TR Addendum 2.9-C

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory	M	Value exceeds Monthly Ave or MCL
	ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions	R	RPD outside accepted recovery limits
	S	Spike Recovery outside accepted recovery limits				



ANALYTICAL QC SUMMARY REPORT

Date: 11/24/2010

CLIENT: Western Water Consultants
Work Order: S1008430
Project: Ross ISR

Report ID: S1008430001

Ross ISR Project

Sample ID: Ics	SampType: LCS	TestCode: TOT3050_200.8_S	Units: mg/Kg	Prep Date:	RunNo: 63450
Client ID:		Batch ID: R63450	Analysis Date: 9/29/2010 11:04:54 AM		SeqNo: 1983307
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	0.098	0.001			

Sample ID: Ics	SampType: LCS	TestCode: TOT3050_200.8_S	Units: mg/Kg	Prep Date:	RunNo: 63450
Client ID:		Batch ID: R63450	Analysis Date: 9/29/2010 12:17:20 PM		SeqNo: 1983334
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	0.098	0.001			

299

Sample ID: Ics	SampType: LCS	TestCode: TOT3050_200.8_S	Units: mg/Kg	Prep Date:	RunNo: 64608
Client ID:		Batch ID: R64608	Analysis Date: 11/3/2010 1:19:20 PM		SeqNo: 2019547
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	0.102	0.001	0.1		102 85 115

Sample ID: S1008430-006A	SampType: DUP	TestCode: TOT3050_200.8_S	Units: mg/Kg	Prep Date:	RunNo: 64608
Client ID: Rad Veg #12 - SWNE, S13, T53N, R68W		Batch ID: R64608	Analysis Date: 11/3/2010 4:36:25 PM		SeqNo: 2019549
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	9.03	0.001			8.99 0.445 20

TR Addendum 2.9-C

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	L Analyzed by a contract laboratory	M Value exceeds Monthly Ave or MCL
	ND Not Detected at the Reporting Limit	O Outside the Range of Dilutions	R RPD outside accepted recovery limits
	S Spike Recovery outside accepted recovery limits		

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Method Blank Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009445

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS101019-1MB

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 19-Oct-10
Date Prepared: 19-Oct-10
Date Analyzed: 23-Oct-10

Prep Batch: AS101019-1
QCBatchID: AS101019-1-1
Run ID: AS101019-1TH
Count Time: 800 minutes

Final Aliquot: 1000 ml
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	-0.039 +/- 0.046	0.093	0.2	U

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	3.24	pCi/l	73.5	30 - 110 %	

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.

Abbreviations:

TPU - Total Propagated Uncertainty
MDC - Minimum Detectable Concentration
BDL - Below Detection Limit

M - Requested MDC not met.
B - Analyte concentration greater than MDC.
B3 - Analyte concentration greater than MDC but less than Requested MDC.

Data Package ID: TH1009445-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Laboratory Control Sample(s)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009445

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS101019-1LCS	Sample Matrix: WATER Prep SOP: PAI 777 Rev 9 Date Collected: 19-Oct-10 Date Prepared: 19-Oct-10 Date Analyzed: 23-Oct-10	Prep Batch: AS101019-1 QCBatchID: AS101019-1-1 Run ID: AS101019-1TH Count Time: 800 minutes	Final Aliquot: 1000 ml Result Units: pCi/l File Name: Spectrum #1
-----------------------	--	--	---

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
14269-63-7	Th-230	5.00 +/- 0.83	0.10	5.11	97.8	85 - 121	P

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.75	pCi/l	62.3	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: TH1009445-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Laboratory Control Sample(s)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009445

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS101019-1LCSD	Sample Matrix: WATER Prep SOP: PAI 777 Rev 9 Date Collected: 19-Oct-10 Date Prepared: 19-Oct-10 Date Analyzed: 23-Oct-10	Prep Batch: AS101019-1 QCBatchID: AS101019-1-1 Run ID: AS101019-1TH Count Time: 800 minutes	Final Aliquot: 1000 ml Result Units: pCi/l File Name: Spectrum #1
------------------------	--	--	---

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
14269-63-7	Th-230	5.14 +/- 0.85	0.10	5.11	101	85 - 121	P

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.85	pCi/l	64.6	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: TH1009445-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Duplicate Sample Results (DER)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009445

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:
 Lab ID: AS101019-1LCSD

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 19-Oct-10
Date Prepared: 19-Oct-10
Date Analyzed: 23-Oct-10

Prep Batch: AS101019-1
QCBatchID: AS101019-1-1
Run ID: AS101019-1TH
Count Time: 800 minutes

Final Aliquot: 1000 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Analyte	Sample				Duplicate				DER	DER Lim
		Result +/-	2 s TPU	MDC	Flags	Result +/-	2 s TPU	MDC	Flags		
14269-63-7	Th-230	5.00 +/-	0.83	0.10	P	5.14 +/-	0.85	0.10	P	0.122	2.13

Comments:

Duplicate Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
- Y2 - Chemical Yield outside default limits.
- W - DER is greater than Warning Limit of 1.42
- D - DER is greater than Control Limit of 2.13
- LT - Result is less than Request MDC, greater than sample specific MDC
- M - Requested MDC not met.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS, Matrix Spike Recovery within control limits.
- N - Matrix Spike Recovery outside control limits

Abbreviations:

- TPU - Total Propagated Uncertainty
- DER - Duplicate Error Ratio
- BDL - Below Detection Limit
- NR - Not Reported

Data Package ID: TH1009445-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009445

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	RAD Veg #6 SW
Lab ID:	1009445-1

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 24-Aug-10
Date Prepared: 19-Oct-10
Date Analyzed: 23-Oct-10

Prep Batch: AS101019-1
QCBatchID: AS101019-1-1
Run ID: AS101019-1TH
Count Time: 800 minutes
Report Basis: Unfiltered

Final Aliquot: 500 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.85 +/- 0.21	0.18	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	8.820	6.8	pCi/l	77.6	30 - 110 %	

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: TH1009445-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009445

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	RAD Veg #7 NE
Lab ID:	1009445-2

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 24-Aug-10
Date Prepared: 19-Oct-10
Date Analyzed: 23-Oct-10

Prep Batch: AS101019-1
QCBatchID: AS101019-1-1
Run ID: AS101019-1TH
Count Time: 800 minutes
Report Basis: Unfiltered

Final Aliquot: 500 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	1.05 +/- 0.23	0.17	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	8.820	7.0	pCi/l	79.8	30 - 110 %	

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: TH1009445-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1009445
Client Name: Inter-Mountain Labs
ClientProject ID: Western Water

Field ID:	RAD Veg #8 NW
Lab ID:	1009445-3

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 24-Aug-10
Date Prepared: 19-Oct-10
Date Analyzed: 23-Oct-10

Prep Batch: AS101019-1
QCBatchID: AS101019-1-1
Run ID: AS101019-1TH
Count Time: 800 minutes
Report Basis: Unfiltered

Final Aliquot: 500 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.68 +/- 0.18	0.17	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	8.820	7.4	pCi/l	84.3	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1009445-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC
 Work Order Number: 1009445
 Client Name: Inter-Mountain Labs
 ClientProject ID: Western Water

Field ID:	RAD Veg #10 NE
Lab ID:	1009445-4

Sample Matrix: WATER
 Prep SOP: PAI 777 Rev 9
 Date Collected: 24-Aug-10
 Date Prepared: 19-Oct-10
 Date Analyzed: 23-Oct-10

Prep Batch: AS101019-1
 QCBatchID: AS101019-1-1
 Run ID: AS101019-1TH
 Count Time: 800 minutes
 Report Basis: Unfiltered

Final Aliquot: 500 ml
 Prep Basis: Unfiltered
 Moisture(%): NA
 Result Units: pCi/l
 File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.39 +/- 0.15	0.19	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	8.820	6.17	pCi/l	69.9	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1009445-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009445

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	RAD Veg #11 NE
Lab ID:	1009445-5

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 24-Aug-10
Date Prepared: 19-Oct-10
Date Analyzed: 23-Oct-10

Prep Batch: AS101019-1
QCBatchID: AS101019-1-1
Run ID: AS101019-1TH
Count Time: 800 minutes
Report Basis: Unfiltered

Final Aliquot: 500 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.12 +/- 0.11	0.18	0.2	U

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	8.820	6.8	pCi/l	77.3	30 - 110 %	

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: TH1009445-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009445

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	RAD Veg #12 SW
Lab ID:	1009445-6

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 24-Aug-10
Date Prepared: 19-Oct-10
Date Analyzed: 23-Oct-10

Prep Batch: AS101019-1
QCBatchID: AS101019-1-1
Run ID: AS101019-1TH
Count Time: 800 minutes
Report Basis: Unfiltered

Final Aliquot: 500 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	3.73 +/- 0.65	0.18	0.2	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	8.820	7.0	pCi/l	79.4	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

Data Package ID: TH1009445-1



Inter-Mountain Labs
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

This is a **LEGAL DOCUMENT**. All shaded fields must be completed. See reverse for instructions.

131438

Client Name STRATA/WVIC		Project Identification ROSS ISR		Sampler (Signature/Printed) <i>[Signature]</i> / J. ROGERS		Telephone # 672-0761	
Report Address 1849 TERRA		Contact Name BEN SCHIFFER		ANALYSES / PARAMETERS URANIUM (TOTAL) 230 THORIUM 230 RADIUM 226 LEAD 210 POLONIUM 210			
Invoice Address SAME		Purchase Order #					

ITEM	LAB ID (Lab Use Only)	DATE	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	ANALYSES / PARAMETERS					REMARKS
							URANIUM (TOTAL)	THORIUM	RADIUM	LEAD	POLONIUM	
1		9/21/10	1055	RAD VEG #12	OT	1	X	X	X	X	X	STONE, S13, T53N, R67W
2			1130	RAD VEG # 5	OT	1	X	X	X	X	X	SUNNW, S18, T53N, R67W
3			1155	RAD VEG # 2	OT	1	X	X	X	X	X	SWSW, S7, T53N, R67W
4			1220	RAD VEG # 1	OT	1	X	X	X	X	X	SWSW, S7, T53N, R67W
5			1255	RAD VEG # 3	OT	1	X	X	X	X	X	NESW, S7, T53N, R67W
6			1320	RAD VEG # 9	OT	1	X	X	X	X	X	NWSE, S18, T53W, R67W
7			1350	RAD VEG # 8	OT	1	X	X	X	X	X	NWSE, S18, T53N, R67W
8			1415	RAD VEG # 10	OT	1	X	X	X	X	X	NWSE, S18, T53N, R67W
9			1440	RAD VEG # 11	OT	1	X	X	X	X	X	NWSE, S18, T53N, R67W
10			1525	RAD VEG # 4	OT	1	X	X	X	X	X	NWSE, S18, T53W, R67W
11			1550	RAD VEG # 7	OT	1	X	X	X	X	X	NENE, S19, T53N, R67W
12			1630	RAD VEG # 6	OT	1	X	X	X	X	X	SWSW, S18, T53, R67W
13												
14												

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
	<i>[Signature]</i> / J. ROGERS	9/22/10	1530	<i>[Signature]</i> / J. McNeil	9/22/10	1530
				<i>[Signature]</i> / James Yocum	9/22/10	15:30

SHIPPING INFO	MATRIX CODES	TURNAROUND TIMES	COMPLIANCE INFORMATION	ADDITIONAL REMARKS
<input type="checkbox"/> UPS <input type="checkbox"/> Fed Express <input type="checkbox"/> US Mail <input type="checkbox"/> Hand Carried <input type="checkbox"/> Other _____	Water WT Soil SL Solid SD Trip Blank TB Other OT	Check desired service <input checked="" type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH - 5 Working Days <input type="checkbox"/> URGENT - < 2 Working Days <i>Rush & Urgent Surcharges will be applied</i>	Compliance Monitoring? Y / N Program (SDWA, NPDES,...) PWSID / Permit # Chlorinated? Y / N Sample Disposal: Lab Client	

Ross ISR Project

310

TR Addendum 2.9-C



Date: 12/1/2010

CLIENT: Western Water Consultants

Project: Ross ISR

Lab Order: S1009451

CASE NARRATIVE

Report ID: S1009451001

Samples RAD VEG #1 SWSW,S7,T53N,R67W, RAD VEG #10 NESE,S18,T53N,R67W, RAD VEG #11 NESE,S18,T53N,R67W, RAD VEG #12 SWNE,S13,T53,R68W, RAD VEG #2 SWSW,S7,T53N,R67W, RAD VEG #3 NESW,S7,T53N,R67W, RAD VEG #4 NWNE,S18,T53N,R67W, RAD VEG #5 SWNW,S18,T53N,R67W, RAD VEG #6 SWSW,S18,T53N,R67W, RAD VEG #7 NENE,S19,T53N,R67W, RAD VEG #8 NWSE,S18,T53N,R67W, and RAD VEG #9 NWSE,S18,T53N,R67W were received on September 24, 2010.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

- U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
- "Standard Methods For The Examination of Water and Wastewater", 20th ed., 1998
- Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition
- Methods indicated with the Monday, March 12, 2007 Federal Register, 40 CFR Part 122, 136 et al.

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager

Page 1 of 1



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 12/1/2010
Report ID: S1009451002
(Replaces S1009451001)

Project: Ross ISR
Lab ID: S1009451-001
Client Sample ID: RAD VEG #12 SWNE,S13,T53,R68W
COC: 131438

Work Order: S1009451
Collection Date: 9/21/2010 10:55:00 AM
Date Received: 9/24/2010
Sampler:
Matrix: Plant

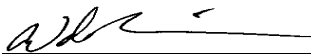
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	20.3 ± 5.0	1		pCi/Kg	11/24/2010 1432 SH	OTW01
Polonium 210	5.92 ± 2.5	1		pCi/Kg	11/22/2010 000 SH	OTW01
Radium 226	1.6 ± 0.9	0.05		pCi/Kg	11/12/2010 1741 SH	SM 7500 Ra-B
Thorium230	1.1 ± 0.6	0.2		pCi/Kg	11/22/2010 1828 WL	ACW10
Total Metals 3050/200.8						
Uranium	0.0039	0.0001		mg/Kg	10/25/2010 1541 MS	200.8

These results apply only to the samples tested.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL
 - O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 12/1/2010
Report ID: S1009451002
(Replaces S1009451001)

Project: Ross ISR
Lab ID: S1009451-002
Client Sample ID: RAD VEG #5 SWNW,S18,T53N,R67W
COC: 131438

Work Order: S1009451
Collection Date: 9/21/2010 11:30:00 AM
Date Received: 9/24/2010
Sampler:
Matrix: Plant

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	55.6 ± 6.9		1	pCi/Kg	11/24/2010 1432 SH	OTW01
Polonium 210	5.90 ± 2.5		1	pCi/Kg	11/22/2010 000 SH	OTW01
Radium 226	14.4 ± 1.4	0.05		pCi/Kg	11/12/2010 1741 SH	SM 7500 Ra-B
Thorium230	8.3 ± 1.4	0.2		pCi/Kg	11/22/2010 1828 WL	ACW10
Total Metals 3050/200.8						
Uranium	0.0158	0.0001		mg/Kg	10/25/2010 1557 MS	200.8

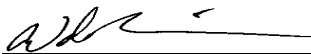
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 12/1/2010
Report ID: S1009451002
(Replaces S1009451001)

Project: Ross ISR
Lab ID: S1009451-003
Client Sample ID: RAD VEG #2 SWSW,S7,T53N,R67W
COC: 131438

Work Order: S1009451
Collection Date: 9/21/2010 11:55:00 AM
Date Received: 9/24/2010
Sampler:
Matrix: Plant

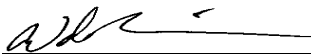
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	155 ± 10	1		pCi/Kg	11/24/2010 1432 SH	OTW01
Polonium 210	9.84 ± 3.2	1		pCi/Kg	11/22/2010 000 SH	OTW01
Radium 226	33.6 ± 2.0	0.05		pCi/Kg	11/12/2010 1741 SH	SM 7500 Ra-B
Thorium230	4.3 ± 1.1	0.2		pCi/Kg	11/22/2010 1828 WL	ACW10
Total Metals 3050/200.8						
Uranium	0.0122	0.0001		mg/Kg	10/25/2010 1600 MS	200.8

These results apply only to the samples tested.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL
 - O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 12/1/2010
Report ID: S1009451002
(Replaces S1009451001)

Project: Ross ISR
Lab ID: S1009451-004
Client Sample ID: RAD VEG #1 SWSW,S7,T53N,R67W
COC: 131438

Work Order: S1009451
Collection Date: 9/21/2010 12:20:00 PM
Date Received: 9/24/2010
Sampler:
Matrix: Plant

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	182 ± 10	1		pCi/Kg	11/24/2010 1432 SH	OTW01
Polonium 210	16.0 ± 4.2	1		pCi/Kg	11/22/2010 000 SH	OTW01
Radium 226	26.2 ± 1.8	0.05		pCi/Kg	11/12/2010 1741 SH	SM 7500 Ra-B
Thorium230	22.0 ± 9.5	0.2		pCi/Kg	11/23/2010 1136 WL	ACW10
Total Metals 3050/200.8						
Uranium	0.0103	0.0001		mg/Kg	10/25/2010 1603 MS	200.8

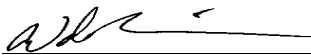
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 12/1/2010
Report ID: S1009451002
(Replaces S1009451001)

Project: Ross ISR
Lab ID: S1009451-005
Client Sample ID: RAD VEG #3 NESW,S7,T53N,R67W
COC: 131438

Work Order: S1009451
Collection Date: 9/21/2010 12:55:00 PM
Date Received: 9/24/2010
Sampler:
Matrix: Plant

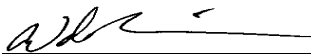
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	213 ± 11	1		pCi/Kg	11/24/2010 1432 SH	OTW01
Polonium 210	7.01 ± 2.6	1		pCi/Kg	11/22/2010 000 SH	OTW01
Radium 226	23.8 ± 1.6	0.05		pCi/Kg	11/12/2010 1741 SH	SM 7500 Ra-B
Thorium230	2.8 ± 0.6	0.2		pCi/Kg	11/22/2010 1828 WL	ACW10
Total Metals 3050/200.8						
Uranium	0.0060	0.0001		mg/Kg	10/25/2010 1606 MS	200.8

These results apply only to the samples tested.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL
 - O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 12/1/2010
Report ID: S1009451002
(Replaces S1009451001)

Project: Ross ISR
Lab ID: S1009451-006
Client Sample ID: RAD VEG #9 NWSE,S18,T53N,R67W
COC: 131438

Work Order: S1009451
Collection Date: 9/21/2010 1:20:00 PM
Date Received: 9/24/2010
Sampler:
Matrix: Plant

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	101 ± 8.4	1		pCi/Kg	11/24/2010 1642 SH	OTW01
Polonium 210	1.60 ± 1.5	1		pCi/Kg	11/22/2010 000 SH	OTW01
Radium 226	4.3 ± 0.7	0.05		pCi/Kg	11/12/2010 1741 SH	SM 7500 Ra-B
Thorium230	0.3 ± 0.3	0.2		pCi/Kg	11/22/2010 1828 WL	ACW10
Total Metals 3050/200.8						
Uranium	0.0018	0.0001		mg/Kg	10/25/2010 1609 MS	200.8

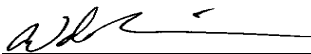
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 12/1/2010
Report ID: S1009451002
(Replaces S1009451001)

Project: Ross ISR
Lab ID: S1009451-007
Client Sample ID: RAD VEG #8 NWSE,S18,T53N,R67W
COC: 131438

Work Order: S1009451
Collection Date: 9/21/2010 1:50:00 PM
Date Received: 9/24/2010
Sampler:
Matrix: Plant

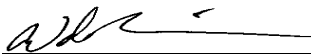
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	38.5 ± 5.8	1		pCi/Kg	11/24/2010 1642 SH	OTW01
Polonium 210	1.63 ± 1.5	1		pCi/Kg	11/22/2010 000 SH	OTW01
Radium 226	9.1 ± 1.1	0.05		pCi/Kg	11/12/2010 1741 SH	SM 7500 Ra-B
Thorium230	0.8 ± 0.8	0.2		pCi/Kg	11/22/2010 1828 WL	ACW10
Total Metals 3050/200.8						
Uranium	0.0020	0.0001		mg/Kg	10/25/2010 1612 MS	200.8

These results apply only to the samples tested.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL
 - O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 12/1/2010
Report ID: S1009451002
(Replaces S1009451001)

Project: Ross ISR
Lab ID: S1009451-008
Client Sample ID: RAD VEG #10 NESE,S18,T53N,R67W
COC: 131438

Work Order: S1009451
Collection Date: 9/21/2010 2:15:00 PM
Date Received: 9/24/2010
Sampler:
Matrix: Plant

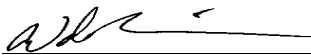
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	76.3 ± 7.6	1		pCi/Kg	11/24/2010 1642 SH	OTW01
Polonium 210	4.79 ± 2.3	1		pCi/Kg	11/22/2010 000 SH	OTW01
Radium 226	642 ± 20.7	0.05		pCi/Kg	11/23/2010 951 SH	SM 7500 Ra-B
Thorium230	4.1 ± 2.2	0.2		pCi/Kg	11/22/2010 1828 WL	ACW10
Total Metals 3050/200.8						
Uranium	0.0072	0.0001		mg/Kg	10/25/2010 1615 MS	200.8

These results apply only to the samples tested.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL
 - O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 12/1/2010
Report ID: S1009451002
(Replaces S1009451001)

Project: Ross ISR
Lab ID: S1009451-009
Client Sample ID: RAD VEG #11 NESE,S18,T53N,R67W
COC: 131438

Work Order: S1009451
Collection Date: 9/21/2010 2:40:00 PM
Date Received: 9/24/2010
Sampler:
Matrix: Plant

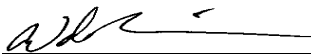
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	127 ± 9.1	1		pCi/Kg	11/24/2010 1642 SH	OTW01
Polonium 210	9.87 ± 3.1	1		pCi/Kg	11/22/2010 000 SH	OTW01
Radium 226	1530 ± 0.4	0.05		pCi/Kg	11/23/2010 951 SH	SM 7500 Ra-B
Thorium230	89.5 ± 16.4	0.2		pCi/Kg	11/23/2010 1136 WL	ACW10
Total Metals 3050/200.8						
Uranium	0.0187	0.0001		mg/Kg	10/25/2010 1618 MS	200.8

These results apply only to the samples tested.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL
 - O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 12/1/2010
Report ID: S1009451002
(Replaces S1009451001)

Project: Ross ISR
Lab ID: S1009451-010
Client Sample ID: RAD VEG #4 NWNE,S18,T53N,R67W
COC: 131438

Work Order: S1009451
Collection Date: 9/21/2010 3:25:00 PM
Date Received: 9/24/2010
Sampler:
Matrix: Plant

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	167 ± 10	1		pCi/Kg	11/24/2010 1642 SH	OTW01
Polonium 210	10.2 ± 3.4	1		pCi/Kg	11/22/2010 000 SH	OTW01
Radium 226	73.9 ± 7.0	0.05		pCi/Kg	11/12/2010 1741 SH	SM 7500 Ra-B
Thorium230	0.4 ± 0.6	0.2		pCi/Kg	11/22/2010 1828 WL	ACW10
Total Metals 3050/200.8						
Uranium	0.0019	0.0001		mg/Kg	10/25/2010 1621 MS	200.8

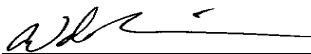
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 12/1/2010
Report ID: S1009451002
(Replaces S1009451001)

Project: Ross ISR
Lab ID: S1009451-011
Client Sample ID: RAD VEG #7 NENE,S19,T53N,R67W
COC: 131438

Work Order: S1009451
Collection Date: 9/21/2010 3:50:00 PM
Date Received: 9/24/2010
Sampler:
Matrix: Plant

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	137 ± 9.6	1		pCi/Kg	11/24/2010 1642 SH	OTW01
Polonium 210	9.67 ± 3.1	1		pCi/Kg	11/22/2010 000 SH	OTW01
Radium 226	20.3 ± 1.7	0.05		pCi/Kg	11/12/2010 1741 SH	SM 7500 Ra-B
Thorium230	3.1 ± 1.5	0.2		pCi/Kg	11/22/2010 1828 WL	ACW10
Total Metals 3050/200.8						
Uranium	0.0061	0.0001		mg/Kg	10/25/2010 1625 MS	200.8

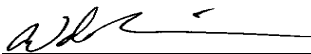
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 12/1/2010
Report ID: S1009451002
(Replaces S1009451001)

Project: Ross ISR
Lab ID: S1009451-012
Client Sample ID: RAD VEG #6 SWSW,S18,T53N,R67W
COC: 131438

Work Order: S1009451
Collection Date: 9/21/2010 4:30:00 PM
Date Received: 9/24/2010
Sampler:
Matrix: Plant

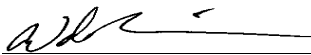
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	172 ± 11	1		pCi/Kg	11/24/2010 1642 SH	OTW01
Polonium 210	12.8 ± 3.6	1		pCi/Kg	11/22/2010 000 SH	OTW01
Radium 226	13.3 ± 1.4	0.05		pCi/Kg	11/12/2010 1741 SH	SM 7500 Ra-B
Thorium230	0.7 ± 1.0	0.2		pCi/Kg	11/22/2010 1828 WL	ACW10
Total Metals 3050/200.8						
Uranium	0.0017	0.0001		mg/Kg	10/25/2010 1634 MS	200.8

These results apply only to the samples tested.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL
 - O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



ANALYTICAL QC SUMMARY REPORT

Date: 12/1/2010

CLIENT: Western Water Consultants
Work Order: S1009451
Project: Ross ISR

Report ID: S1009451002
(Replaces S1009451001)

Ross ISR Project

Sample ID: MB-R65318	SampType: MBLK	TestCode: RAD_PB210_V	Units: pCi/Kg	Prep Date:	RunNo: 65318
Client ID:	Batch ID: R65318			Analysis Date: 11/24/2010 2:32:00 PM	SeqNo: 2043055
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	ND	1			

Sample ID: LCS-R65318	SampType: LCS	TestCode: RAD_PB210_V	Units: pCi/Kg	Prep Date:	RunNo: 65318
Client ID:	Batch ID: R65318			Analysis Date: 11/24/2010 2:32:00 PM	SeqNo: 2043056
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	14	1	11.1		118 70 130

324

Sample ID: S1009451-001AMS	SampType: MS	TestCode: RAD_PB210_V	Units: pCi/Kg	Prep Date:	RunNo: 65318
Client ID: RAD VEG #12 SWNE,S13,T53,R68W	Batch ID: R65318			Analysis Date: 11/24/2010 2:32:00 PM	SeqNo: 2043058
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	137	1	111	20.3	105 70 130

Sample ID: S1009451-003AMS	SampType: MS	TestCode: RAD_PB210_V	Units: pCi/Kg	Prep Date:	RunNo: 65318
Client ID: RAD VEG #2 SWSW,S7,T53N,R67W	Batch ID: R65318			Analysis Date: 11/24/2010 2:32:00 PM	SeqNo: 2043062
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	261	1	111	156	94.7 70 130

TR Addendum 2.9-C

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	L Analyzed by a contract laboratory	M Value exceeds Monthly Ave or MCL
	ND Not Detected at the Reporting Limit	O Outside the Range of Dilutions	R RPD outside accepted recovery limits
	S Spike Recovery outside accepted recovery limits		



ANALYTICAL QC SUMMARY REPORT

Date: 12/1/2010

CLIENT: Western Water Consultants
Work Order: S1009451
Project: Ross ISR

Report ID: S1009451002
(Replaces S1009451001)

Sample ID: S1009451-002ADUP	SampType: DUP	TestCode: RAD_PB210_V	Units: pCi/Kg	Prep Date:	RunNo: 65318						
Client ID: RAD VEG #5 SWNW,S18,T53N,R67W		Batch ID: R65318	Analysis Date: 11/24/2010 2:32:00 PM		SeqNo: 2043060						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead 210	59	1						55.6	6.06	20	

Sample ID: S1009451-004ADUP	SampType: DUP	TestCode: RAD_PB210_V	Units: pCi/Kg	Prep Date:	RunNo: 65318						
Client ID: RAD VEG #1 SWSW,S7,T53N,R67W		Batch ID: R65318	Analysis Date: 11/24/2010 2:32:00 PM		SeqNo: 2043064						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead 210	177	1						182	2.58	20	

Ross ISR Project

325

TR Addendum 2.9-C

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory	M	Value exceeds Monthly Ave or MCL
	ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions	R	RPD outside accepted recovery limits
	S	Spike Recovery outside accepted recovery limits				



ANALYTICAL QC SUMMARY REPORT

Date: 12/1/2010

CLIENT: Western Water Consultants
Work Order: S1009451
Project: Ross ISR

Report ID: S1009451002
(Replaces S1009451001)

Ross ISR Project

Sample ID: MB-R65317	SampType: MBLK	TestCode: RAD_PO210_V_T	Units: pCi/Kg	Prep Date:	RunNo: 65317
Client ID:	Batch ID: R65317		Analysis Date: 11/22/2010		SeqNo: 2043037
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Polonium 210	ND	1			

Sample ID: LCS-R65317	SampType: LCS	TestCode: RAD_PO210_V_T	Units: pCi/Kg	Prep Date:	RunNo: 65317
Client ID:	Batch ID: R65317		Analysis Date: 11/22/2010		SeqNo: 2043038
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Polonium 210	17	1	15.1		114 50 150

326

Sample ID: S1009451-001AMS	SampType: MS	TestCode: RAD_PO210_V_T	Units: pCi/Kg	Prep Date:	RunNo: 65317
Client ID: RAD VEG #12 SWNE,S13,T53,R68W	Batch ID: R65317		Analysis Date: 11/22/2010		SeqNo: 2043040
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Polonium 210	127	1	111	5.92	109 50 150

Sample ID: S1009451-003AMS	SampType: MS	TestCode: RAD_PO210_V_T	Units: pCi/Kg	Prep Date:	RunNo: 65317
Client ID: RAD VEG #2 SWSW,S7,T53N,R67W	Batch ID: R65317		Analysis Date: 11/22/2010		SeqNo: 2043044
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Polonium 210	95	1	111	9.84	76.8 50 150

TR Addendum 2.9-C

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	L Analyzed by a contract laboratory	M Value exceeds Monthly Ave or MCL
	ND Not Detected at the Reporting Limit	O Outside the Range of Dilutions	R RPD outside accepted recovery limits
	S Spike Recovery outside accepted recovery limits		



ANALYTICAL QC SUMMARY REPORT

Date: 12/1/2010

CLIENT: Western Water Consultants
Work Order: S1009451
Project: Ross ISR

Report ID: S1009451002
(Replaces S1009451001)

Sample ID: S1009451-002ADUP	SampType: DUP	TestCode: RAD_PO210_V_T	Units: pCi/Kg	Prep Date:	RunNo: 65317						
Client ID: RAD VEG #5 SWNW,S18,T53N,R67W	Batch ID: R65317	Analysis Date: 11/22/2010	SeqNo: 2043042								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Polonium 210	4	1						5.90	27.7	30	

Ross ISR Project

327

TR Addendum 2.9-C

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory	M	Value exceeds Monthly Ave or MCL
	ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions	R	RPD outside accepted recovery limits
	S	Spike Recovery outside accepted recovery limits				



ANALYTICAL QC SUMMARY REPORT

Date: 12/1/2010

CLIENT: Western Water Consultants
Work Order: S1009451
Project: Ross ISR

Report ID: S1009451002
(Replaces S1009451001)

Ross ISR Project

Sample ID: MB-R65015	SampType: MBLK	TestCode: RAD_RA226_V	Units: pCi/Kg	Prep Date:	RunNo: 65015
Client ID:		Batch ID: R65015	Analysis Date: 11/12/2010 5:41:00 PM		SeqNo: 2032296
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	ND	0.05			

Sample ID: MB-R65015	SampType: MBLK	TestCode: RAD_RA226_V	Units: pCi/Kg	Prep Date:	RunNo: 65015
Client ID:		Batch ID: R65015	Analysis Date: 11/12/2010 5:41:00 PM		SeqNo: 2032299
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	ND	0.05			

328

Sample ID: LCS-R65015	SampType: LCS	TestCode: RAD_RA226_V	Units: pCi/Kg	Prep Date:	RunNo: 65015
Client ID:		Batch ID: R65015	Analysis Date: 11/12/2010 5:41:00 PM		SeqNo: 2032297
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	7.44	0.05	9.52		78.2 70 130

Sample ID: S1009451-003AMS	SampType: MS	TestCode: RAD_RA226_V	Units: pCi/Kg	Prep Date:	RunNo: 65015
Client ID: RAD VEG #2 SWSW,S7,T53N,R67W		Batch ID: R65015	Analysis Date: 11/12/2010 5:41:00 PM		SeqNo: 2032304
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	41.9	0.05	9.52	33.6	87.9 70 130

TR Addendum 2.9-C

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	L Analyzed by a contract laboratory	M Value exceeds Monthly Ave or MCL
	ND Not Detected at the Reporting Limit	O Outside the Range of Dilutions	R RPD outside accepted recovery limits
	S Spike Recovery outside accepted recovery limits		



ANALYTICAL QC SUMMARY REPORT

Date: 12/1/2010

CLIENT: Western Water Consultants
Work Order: S1009451
Project: Ross ISR

Report ID: S1009451002
(Replaces S1009451001)

Ross ISR Project

Sample ID: S1009451-011AMS	SampType: MS	TestCode: RAD_RA226_V	Units: pCi/Kg	Prep Date:	RunNo: 65015						
Client ID: RAD VEG #7 NENE,S19,T53N,R67W		Batch ID: R65015	Analysis Date: 11/12/2010 5:41:00 PM		SeqNo: 2032312						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium 226	29.0	0.05	9.52	20.3	91.2	70	130				

Sample ID: S1009451-004ADUP	SampType: DUP	TestCode: RAD_RA226_V	Units: pCi/Kg	Prep Date:	RunNo: 65015						
Client ID: RAD VEG #1 SWSW,S7,T53N,R67W		Batch ID: R65015	Analysis Date: 11/12/2010 5:41:00 PM		SeqNo: 2032306						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium 226	22.9	0.05						26.2	12.5	20	

329

Sample ID: S1009451-012ADUP	SampType: DUP	TestCode: RAD_RA226_V	Units: pCi/Kg	Prep Date:	RunNo: 65015						
Client ID: RAD VEG #6 SWSW,S18,T53N,R67W		Batch ID: R65015	Analysis Date: 11/12/2010 5:41:00 PM		SeqNo: 2032314						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium 226	12.7	0.05						13.3	4.08	20	

Sample ID: S1009451-001ADUP	SampType: DUP	TestCode: RAD_TH230_V	Units: pCi/Kg	Prep Date:	RunNo: 65242						
Client ID: RAD VEG #12 SWNE,S13,T53,R68W		Batch ID: R65242	Analysis Date: 11/22/2010 6:28:00 PM		SeqNo: 2041142						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thorium230	1.1	0.2						1.14	4.27	30	

TR Addendum 2.9-C

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	L Analyzed by a contract laboratory	M Value exceeds Monthly Ave or MCL
	ND Not Detected at the Reporting Limit	O Outside the Range of Dilutions	R RPD outside accepted recovery limits
	S Spike Recovery outside accepted recovery limits		



ANALYTICAL QC SUMMARY REPORT

Date: 12/1/2010

CLIENT: Western Water Consultants
Work Order: S1009451
Project: Ross ISR

Report ID: S1009451002
(Replaces S1009451001)

Ross ISR Project

Sample ID: Init Cal Blank	SampType: MBLK	TestCode: TOT3050_200.8_S	Units: mg/Kg	Prep Date:	RunNo: 64305
Client ID:		Batch ID: R64305	Analysis Date: 10/25/2010 3:13:41 PM		SeqNo: 2010582
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	ND	0.001			

Sample ID: Ics	SampType: LCS	TestCode: TOT3050_200.8_S	Units: mg/Kg	Prep Date:	RunNo: 64305
Client ID:		Batch ID: R64305	Analysis Date: 10/25/2010 3:19:55 PM		SeqNo: 2010583
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	0.098	0.001	0.1		97.6 85 115

330

Sample ID: S1009451-001As	SampType: MS	TestCode: TOT3050_200.8_S	Units: mg/Kg	Prep Date:	RunNo: 64305
Client ID: RAD VEG #12 SWNE,S13,T53,R68W		Batch ID: R64305	Analysis Date: 10/25/2010 3:47:50 PM		SeqNo: 2010586
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	1.25	0.0001	1.1	0.00391	113 80 120

Sample ID: S1009451-001A	SampType: DUP	TestCode: TOT3050_200.8_S	Units: mg/Kg	Prep Date:	RunNo: 64305
Client ID: RAD VEG #12 SWNE,S13,T53,R68W		Batch ID: R64305	Analysis Date: 10/25/2010 3:44:44 PM		SeqNo: 2010585
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	0.0042	0.0001			0.00391 6.70 20

TR Addendum 2.9-C

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	L Analyzed by a contract laboratory	M Value exceeds Monthly Ave or MCL
	ND Not Detected at the Reporting Limit	O Outside the Range of Dilutions	R RPD outside accepted recovery limits
	S Spike Recovery outside accepted recovery limits		



Inter-Mountain Labs
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

This is a **LEGAL DOCUMENT**. All shaded fields must be completed. See reverse for instructions.

135477

Ross ISR Project

Client Name STRATA / WWC		Project Identification ROSS ISR		Sampler (Signature/Printed) <i>[Signature]</i> / BEN SCHIFFER		Telephone # 672-0761		
Report Address 1849 TERRA		Contact Name BEN SCHIFFER / LISA HANGLASS		ANALYSES / PARAMETERS				REMARKS
Invoice Address 1849 TERRA		Purchase Order #						

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	TOTAL URANIUM	THORIUM 230	RADIUM 226	LEAD 210	POLONIUM 210	REMARKS
2												
3	-002A	9/16/10	12:35	WL VEG R6	OT	1	✓	✓	✓	✓	✓	SWNE, S18, T53N, R67W
4												
5	-003A	9/16/10	13:35	WL VEG A2	OT	1	✓	✓	✓	✓	✓	SWSW, S18, T53N, R67W
6												
7	-004A	9/16/10	14:45	WL VEG A2-2	OT	1	✓	✓	✓	✓	✓	SWNW, S18, T53N, R67W
8												
9	-005A	9/16/10	09:45	STRONG-VEG-MWNW- ⁵¹⁰ 510 -5367	OT	1	✓	✓	✓	✓	✓	GARDEN VEGETABLES
10												
11												
12												
13												
14												

LAB COMMENTS 22.6	Relinquished By (Signature/Printed) <i>[Signature]</i> / BEN SCHIFFER	DATE 9/17/10	TIME 08:25	Received By (Signature/Printed) Kathy Boyd	DATE 9/17/10	TIME 8:25

331

TR Addendum 2.9-C

SHIPPING INFO		MATRIX CODES		TURNAROUND TIMES		COMPLIANCE INFORMATION		ADDITIONAL REMARKS	
<input type="checkbox"/> UPS	Water	WT	Check desired service		Compliance Monitoring?		Y / N		
<input type="checkbox"/> Fed Express	Soil	SL	<input type="checkbox"/> Standard turnaround	Rush & Urgent Surcharges will be applied		Program (SDWA, NPDES,...)			
<input type="checkbox"/> US Mail	Solid	SD	<input type="checkbox"/> RUSH - 5 Working Days			PWSID / Permit #			
<input type="checkbox"/> Hand Carried	Trip Blank	TB	<input type="checkbox"/> URGENT - < 2 Working Days			Chlorinated?		Y / N	
<input type="checkbox"/> Other _____	Other	OT			Sample Disposal: Lab		Client		



Date: 11/30/2010

CLIENT: Western Water Consultants
Project:
Lab Order: S1009327

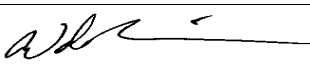
CASE NARRATIVE
Report ID: S1009327001

Samples Strong-Veg-NWNW-S20-5367, WL Veg A2 SWSW,S18,T53N,R67W, WL Veg A2-2 SWNW,S18,T53N,R67W, WL Veg J1 NWNW,S18,T53N,R67W, and WL Veg R6 SWNE,S18,T53N,R67W were received on September 17, 2010.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1998
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition
Methods indicated with the Monday, March 12, 2007 Federal Register, 40 CFR Part 122, 136 et al.

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager

Page 1 of 1



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/30/2010
Report ID: S1009327001

Project:
Lab ID: S1009327-001
Client Sample ID: WL Veg J1 NWNW,S18,T53N,R67W

Work Order: S1009327
Collection Date: 9/16/2010 12:10:00 PM
Date Received: 9/17/2010
Sampler:
Matrix: Plant

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	25.5 ± 5.4	1		pCi/Kg	11/10/2010 1353 SH	OTW01
Polonium 210	4.12 ± 2.6	1		pCi/Kg	11/18/2010 1212 SH	OTW01
Radium 226	8.8 ± 0.4	0.05		pCi/Kg	11/11/2010 1614 SH	SM 7500 Ra-B
Thorium230	ND	0.2		pCi/Kg	11/16/2010 1149 WL	ACW10
Total Metals 3050/200.8						
Uranium	0.0005	0.0001		mg/Kg	10/28/2010 1857 MS	200.8

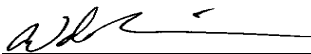
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/30/2010
Report ID: S1009327001

Project:
Lab ID: S1009327-002
Client Sample ID: WL Veg R6 SWNE,S18,T53N,R67W

Work Order: S1009327
Collection Date: 9/16/2010 12:35:00 PM
Date Received: 9/17/2010
Sampler:
Matrix: Plant

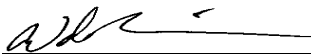
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	43.1 ± 6.1	1		pCi/Kg	11/10/2010 1353 SH	OTW01
Polonium 210	5.88 ± 2.8	1		pCi/Kg	11/18/2010 1212 SH	OTW01
Radium 226	11.4 ± 0.5	0.05		pCi/Kg	11/11/2010 1614 SH	SM 7500 Ra-B
Thorium230	3.9 ± 1.5	0.2		pCi/Kg	11/16/2010 1149 WL	ACW10
Total Metals 3050/200.8						
Uranium	0.0011	0.0001		mg/Kg	10/28/2010 1901 MS	200.8

These results apply only to the samples tested.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL
 - O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/30/2010
Report ID: S1009327001

Project:
Lab ID: S1009327-003
Client Sample ID: WL Veg A2 SWSW,S18,T53N,R67W

Work Order: S1009327
Collection Date: 9/16/2010 1:35:00 PM
Date Received: 9/17/2010
Sampler:
Matrix: Plant

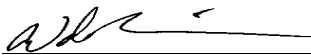
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	36.1 ± 6.0		1	pCi/Kg	11/10/2010 1353 SH	OTW01
Polonium 210	3.75 ± 2.1		1	pCi/Kg	11/18/2010 1212 SH	OTW01
Radium 226	7.5 ± 0.5	0.05		pCi/Kg	11/11/2010 1614 SH	SM 7500 Ra-B
Thorium230	1.2 ± 0.6	0.2		pCi/Kg	11/16/2010 1149 WL	ACW10
Total Metals 3050/200.8						
Uranium	0.0019	0.0001		mg/Kg	10/28/2010 1904 MS	200.8

These results apply only to the samples tested.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL
 - O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/30/2010
Report ID: S1009327001

Project:
Lab ID: S1009327-004
Client Sample ID: WL Veg A2-2 SWNW,S18,T53N,R67W

Work Order: S1009327
Collection Date: 9/16/2010 2:45:00 PM
Date Received: 9/17/2010
Sampler:
Matrix: Plant

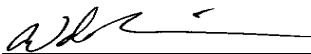
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	9.07 ± 4.1	1		pCi/Kg	11/10/2010 1353 SH	OTW01
Polonium 210	1.87 ± 1.7	1		pCi/Kg	11/18/2010 1336 SH	OTW01
Radium 226	0.3 ± 0.1	0.05		pCi/Kg	11/11/2010 1614 SH	SM 7500 Ra-B
Thorium230	0.5 ± 0.5	0.2		pCi/Kg	11/23/2010 1136 WL	ACW10
Total Metals 3050/200.8						
Uranium	0.0010	0.0001		mg/Kg	10/28/2010 1908 MS	200.8

These results apply only to the samples tested.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL
 - O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/30/2010
Report ID: S1009327001

Project:
Lab ID: S1009327-005
Client Sample ID: Strong-Veg-NWNW-S20-5367

Work Order: S1009327
Collection Date: 9/16/2010 9:45:00 AM
Date Received: 9/17/2010
Sampler:
Matrix: Plant

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	2.95 ± 4.9	1		pCi/Kg	11/10/2010 1353 SH	OTW01
Polonium 210	2.55 ± 1.8	1		pCi/Kg	11/18/2010 1336 SH	OTW01
Radium 226	ND	0.05		pCi/Kg	11/12/2010 1741 SH	SM 7500 Ra-B
Thorium230	0.4 ± 0.9	0.2		pCi/Kg	11/16/2010 1149 WL	ACW10
Total Metals 3050/200.8						
Uranium	0.0001	0.0001		mg/Kg	10/15/2010 1534 MS	200.8

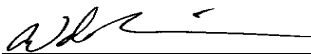
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



ANALYTICAL QC SUMMARY REPORT

Date: 11/30/2010

CLIENT: Western Water Consultants

Report ID: S1009327001

Work Order: S1009327

Project:

Sample ID: VMB10-305	SampType: MBLK	TestCode: RAD_PB210_V	Units: pCi/Kg	Prep Date:	RunNo: 64889
Client ID:		Batch ID: R64889	Analysis Date: 11/10/2010 1:53:00 PM		SeqNo: 2028046
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	ND	1			

Sample ID: MB-R64889	SampType: MBLK	TestCode: RAD_PO210_V_T	Units: pCi/Kg	Prep Date:	RunNo: 64889
Client ID:		Batch ID: R64889	Analysis Date: 11/18/2010 12:12:00 PM		SeqNo: 2041727
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Polonium 210	ND	1			

Sample ID: MB-R64915	SampType: MBLK	TestCode: RAD_RA226_V	Units: pCi/Kg	Prep Date:	RunNo: 64915
Client ID:		Batch ID: R64915	Analysis Date: 11/11/2010 4:14:00 PM		SeqNo: 2029149
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	ND	0.05			

Sample ID: LCS-R64915	SampType: LCS	TestCode: RAD_RA226_V	Units: pCi/Kg	Prep Date:	RunNo: 64915
Client ID:		Batch ID: R64915	Analysis Date: 11/11/2010 4:14:00 PM		SeqNo: 2029150
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	7.29	0.05	9.52		76.6 70 130

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	L Analyzed by a contract laboratory	M Value exceeds Monthly Ave or MCL
	ND Not Detected at the Reporting Limit	O Outside the Range of Dilutions	R RPD outside accepted recovery limits
	S Spike Recovery outside accepted recovery limits		

Ross ISR Project

338

TR Addendum 2.9-C



ANALYTICAL QC SUMMARY REPORT

Date: 11/30/2010

CLIENT: Western Water Consultants

Report ID: S1009327001

Work Order: S1009327

Project:

Sample ID: Init Cal Blank	SampType: MBLK	TestCode: TOT3050_200.8_S	Units: mg/Kg	Prep Date:	RunNo: 64456
Client ID:		Batch ID: R64456	Analysis Date: 10/28/2010 3:46:44 PM		SeqNo: 2014656
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	ND	0.001			

Sample ID: Ics	SampType: LCS	TestCode: TOT3050_200.8_S	Units: mg/Kg	Prep Date:	RunNo: 63974
Client ID:		Batch ID: R63974	Analysis Date: 10/15/2010 1:57:48 PM		SeqNo: 2000476
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	0.099	0.001	0.1		99.4 85 115

Sample ID: Ics	SampType: LCS	TestCode: TOT3050_200.8_S	Units: mg/Kg	Prep Date:	RunNo: 64456
Client ID:		Batch ID: R64456	Analysis Date: 10/28/2010 3:53:59 PM		SeqNo: 2014657
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	0.099	0.001	0.1		99.2 85 115

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	L Analyzed by a contract laboratory	M Value exceeds Monthly Ave or MCL
	ND Not Detected at the Reporting Limit	O Outside the Range of Dilutions	R RPD outside accepted recovery limits
	S Spike Recovery outside accepted recovery limits		

Ross ISR Project

339

TR Addendum 2.9-C



Inter-Mountain Labs
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

This is a **LEGAL DOCUMENT**. All shaded fields must be completed. See reverse for instructions.

135485

Ross ISR Project

Client Name STATA / WWC		Project Identification ROSS ISR		Sampler (Signature/Printed) <i>[Signature]</i> / Ben Schiffer		Telephone # 672-0761	
Report Address 1849 TERRA		Contact Name BEN SCHIFFER		ANALYSES / PARAMETERS			
Invoice Address "		Email					
		Phone					
		Purchase Order #		Quote #		REMARKS	

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	ANALYSES / PARAMETERS					REMARKS
							NATURAL URANIUM	LEAD	THORIUM	POLONIUM	RADIUM 226	
1		8/10/10	09:00	BELLEVUE-NESE-SZ-TS21-167W	OT		✓	✓	✓	✓	✓	Hay!
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
	<i>[Signature]</i> / BEN SCHIFFER	8/10/10	15:10	Kathy Boyd	8/10/10	15:00 10

SHIPPING INFO		MATRIX CODES		TURNAROUND TIMES		COMPLIANCE INFORMATION		ADDITIONAL REMARKS	
<input type="checkbox"/> UPS	Water	WT	<input checked="" type="checkbox"/> Check desired service		Compliance Monitoring?	Y / N			
<input type="checkbox"/> Fed Express	Soil	SL	<input checked="" type="checkbox"/> Standard turnaround		Program (SDWA, NPDES,...)				
<input type="checkbox"/> US Mail	Solid	SD	<input type="checkbox"/> RUSH - 5 Working Days		PWSID / Permit #				
<input type="checkbox"/> Hand Carried	Trip Blank	TB	<input type="checkbox"/> URGENT - < 2 Working Days		Chlorinated?	Y / N			
<input type="checkbox"/> Other _____	Other	OT	<i>Rush & Urgent Surcharges will be applied</i>		Sample Disposal: Lab	Client			

340

TR Addendum 2.9-C



Date: 11/24/2010

CLIENT: Western Water Consultants
Project: Strata/Ross ISR
Lab Order: S1008189

CASE NARRATIVE
Report ID: S1008189001

Sample Berger-NESE-S7-TS3N-R67W was received on August 11, 2010.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1998
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition
Methods indicated with the Monday, March 12, 2007 Federal Register, 40 CFR Part 122, 136 et al.

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Reviewed by: 

Wade Nieuwsma, Assistant Laboratory Manager

Page 1 of 1



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/24/2010
Report ID: S1008189001

Project: Strata/Ross ISR
Lab ID: S1008189-001
Client Sample ID: Berger-NESE-S7-TS3N-R67W

Work Order: S1008189
Collection Date: 8/10/2010
Date Received: 8/11/2010
Sampler:
Matrix: Plant

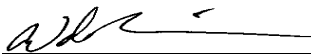
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	122 ± 13	1		piC/L	11/16/2010 1422 SH	OTW01
Polonium 210	7.61 ± 4.1	1		piC/L	11/16/2010 1127 SH	OTW01
Radium 226	123±1.1	0.05		pCi/Kg	10/07/2010 000 SH	SM 7500 Ra-B
Thorium230	0.830±0.20	0.2	L	pCi/Kg	10/21/2010 1327 WN	ACW10
Total Metals 3050/200.8						
Uranium	3.10	0.001		mg/Kg	09/22/2010 927 MS	200.8

These results apply only to the samples tested.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL
 - O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



ANALYTICAL QC SUMMARY REPORT

Date: 11/24/2010

CLIENT: Western Water Consultants
Work Order: S1008189
Project: Strata/Ross ISR

Report ID: S1008189001

Ross ISR Project

Sample ID: MB-R65087	SampType: MBLK	TestCode: RAD_PB210_V	Units: pCi/Kg	Prep Date:	RunNo: 65087
Client ID:		Batch ID: R65087	Analysis Date: 11/16/2010 2:22:00 PM		SeqNo: 2034746
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	ND	1			

Sample ID: MB-R65087	SampType: MBLK	TestCode: RAD_PB210_V	Units: pCi/Kg	Prep Date:	RunNo: 65087
Client ID:		Batch ID: R65087	Analysis Date: 11/16/2010 2:22:00 PM		SeqNo: 2034755
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	ND	1			

343

Sample ID: LCS-R65087	SampType: LCS	TestCode: RAD_PB210_V	Units: pCi/Kg	Prep Date:	RunNo: 65087
Client ID:		Batch ID: R65087	Analysis Date: 11/16/2010 2:22:00 PM		SeqNo: 2034747
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	13	1	11.1		120 70 130

Sample ID: S1008189-001AMS	SampType: MS	TestCode: RAD_PB210_V	Units: pCi/Kg	Prep Date:	RunNo: 65087
Client ID: Berger-NESE-S7-TS3N-R67W		Batch ID: R65087	Analysis Date: 11/16/2010 2:22:00 PM		SeqNo: 2034749
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	468	1	223	244	101 70 130

TR Addendum 2.9-C

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	L Analyzed by a contract laboratory	M Value exceeds Monthly Ave or MCL
	ND Not Detected at the Reporting Limit	O Outside the Range of Dilutions	R RPD outside accepted recovery limits
	S Spike Recovery outside accepted recovery limits		



ANALYTICAL QC SUMMARY REPORT

Date: 11/24/2010

CLIENT: Western Water Consultants
Work Order: S1008189
Project: Strata/Ross ISR

Report ID: S1008189001

Ross ISR Project

Sample ID: MB-R65087	SampType: MBLK	TestCode: RAD_PO210_V_T	Units: pCi/Kg	Prep Date:	RunNo: 65087
Client ID:		Batch ID: R65087	Analysis Date: 11/16/2010 2:22:00 PM		SeqNo: 2041847
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Polonium 210	ND	1			

Sample ID: MB-R65087	SampType: MBLK	TestCode: RAD_PO210_V_T	Units: pCi/Kg	Prep Date:	RunNo: 65087
Client ID:		Batch ID: R65087	Analysis Date: 11/16/2010 2:22:00 PM		SeqNo: 2041856
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Polonium 210	ND	1			

344

Sample ID: LCS-R65087	SampType: LCS	TestCode: RAD_PO210_V_T	Units: pCi/Kg	Prep Date:	RunNo: 65087
Client ID:		Batch ID: R65087	Analysis Date: 11/16/2010 2:22:00 PM		SeqNo: 2041848
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Polonium 210	22	1	26.2		83.5 50 150

Sample ID: S1008189-001AMS	SampType: MS	TestCode: RAD_PO210_V_T	Units: pCi/Kg	Prep Date:	RunNo: 65087
Client ID: Berger-NESE-S7-TS3N-R67W		Batch ID: R65087	Analysis Date: 11/16/2010 2:22:00 PM		SeqNo: 2041850
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Polonium 210	2	1	2.78	0.228	63.9 50 150

TR Addendum 2.9-C

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	L Analyzed by a contract laboratory	M Value exceeds Monthly Ave or MCL
	ND Not Detected at the Reporting Limit	O Outside the Range of Dilutions	R RPD outside accepted recovery limits
	S Spike Recovery outside accepted recovery limits		



ANALYTICAL QC SUMMARY REPORT

Date: 11/24/2010

CLIENT: Western Water Consultants
Work Order: S1008189
Project: Strata/Ross ISR

Report ID: S1008189001

Ross ISR Project

Sample ID: MB10-273B	SampType: MBLK	TestCode: RAD_RA226_V	Units: pCi/Kg	Prep Date: 10/5/2010	RunNo: 64510
Client ID:		Batch ID: R64510	Analysis Date: 10/7/2010 1:04:00 PM	SeqNo: 2016859	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	ND	0.05			

Sample ID: LCS10-273B	SampType: LCS	TestCode: RAD_RA226_V	Units: pCi/Kg	Prep Date: 10/5/2010	RunNo: 64510
Client ID:		Batch ID: R64510	Analysis Date: 10/7/2010 1:04:00 PM	SeqNo: 2016860	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	5.39	0.05	9.52		56.6 50 150

345

Sample ID: Ics	SampType: LCS	TestCode: TOT3050_200.8_S	Units: mg/Kg	Prep Date:	RunNo: 63193
Client ID:		Batch ID: R63193	Analysis Date: 9/22/2010 9:20:20 AM	SeqNo: 1974544	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	0.109	0.001			

Sample ID: S1008189-001A	SampType: DUP	TestCode: TOT3050_200.8_S	Units: mg/Kg	Prep Date:	RunNo: 63193
Client ID: Berger-NESE-S7-TS3N-R67W		Batch ID: R63193	Analysis Date: 9/22/2010 9:29:42 AM	SeqNo: 1974546	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	3.06	0.001			3.10 1.30 0

TR Addendum 2.9-C

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	L Analyzed by a contract laboratory	M Value exceeds Monthly Ave or MCL
	ND Not Detected at the Reporting Limit	O Outside the Range of Dilutions	R RPD outside accepted recovery limits
	S Spike Recovery outside accepted recovery limits		

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Method Blank Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS101001-4MB

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 01-Oct-10
Date Prepared: 01-Oct-10
Date Analyzed: 11-Oct-10

Prep Batch: AS101001-4
QCBatchID: AS101001-4-1
Run ID: TAS101001-4TH
Count Time: 900 minutes

Final Aliquot: 500 ml
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.032 +/- 0.080	0.141	0.2	U

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.82	pCi/l	64.0	30 - 110 %	

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.

Abbreviations:

TPU - Total Propagated Uncertainty
MDC - Minimum Detectable Concentration
BDL - Below Detection Limit

M - Requested MDC not met.
B - Analyte concentration greater than MDC.
B3 - Analyte concentration greater than MDC but less than Requested MDC.

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Method Blank Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS101001-5MB

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 01-Oct-10
Date Prepared: 01-Oct-10
Date Analyzed: 08-Oct-10

Prep Batch: AS101001-5
QCBatchID: AS101001-5-1
Run ID: AS101001-5TH
Count Time: 800 minutes

Final Aliquot: 500 ml
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.014 +/- 0.091	0.173	0.2	U

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.37	pCi/l	53.8	30 - 110 %	

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.

Abbreviations:

TPU - Total Propagated Uncertainty
MDC - Minimum Detectable Concentration
BDL - Below Detection Limit

M - Requested MDC not met.
B - Analyte concentration greater than MDC.
B3 - Analyte concentration greater than MDC but less than Requested MDC.

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Laboratory Control Sample(s)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS101001-4LCS

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 01-Oct-10
Date Prepared: 01-Oct-10
Date Analyzed: 11-Oct-10

Prep Batch: AS101001-4
QCBatchID: AS101001-4-1
Run ID: TAS101001-4TH
Count Time: 900 minutes

Final Aliquot: 500 ml
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
14269-63-7	Th-230	5.24 +/- 0.93	0.14	5.11	102	85 - 121	P

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.83	pCi/l	64.1	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Laboratory Control Sample(s)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS101001-4LCSD	Sample Matrix: WATER Prep SOP: PAI 777 Rev 9 Date Collected: 01-Oct-10 Date Prepared: 01-Oct-10 Date Analyzed: 11-Oct-10	Prep Batch: AS101001-4 QCBatchID: AS101001-4-1 Run ID: TAS101001-4TH Count Time: 900 minutes	Final Aliquot: 500 ml Result Units: pCi/l File Name: Spectrum #1
------------------------	--	---	--

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
14269-63-7	Th-230	5.28 +/- 0.93	0.14	5.11	103	85 - 121	P

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.67	pCi/l	60.6	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Laboratory Control Sample(s)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS101001-5LCS	Sample Matrix: WATER Prep SOP: PAI 777 Rev 9 Date Collected: 01-Oct-10 Date Prepared: 01-Oct-10 Date Analyzed: 08-Oct-10	Prep Batch: AS101001-5 QCBatchID: AS101001-5-1 Run ID: AS101001-5TH Count Time: 800 minutes	Final Aliquot: 500 ml Result Units: pCi/l File Name: Spectrum #1
------------------------------	---	--	---

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
14269-63-7	Th-230	5.5 +/- 1.0	0.1	5.11	109	85 - 121	P

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.58	pCi/l	58.5	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Laboratory Control Sample(s)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS101001-5LCS	Sample Matrix: WATER Prep SOP: PAI 777 Rev 9 Date Collected: 01-Oct-10 Date Prepared: 01-Oct-10 Date Analyzed: 08-Oct-10	Prep Batch: AS101001-5 QCBatchID: AS101001-5-1 Run ID: AS101001-5TH Count Time: 800 minutes	Final Aliquot: 500 ml Result Units: pCi/l File Name: Spectrum #1
------------------------------	---	--	---

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
14269-63-7	Th-230	5.24 +/- 0.96	0.15	5.11	102	85 - 121	P

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.53	pCi/l	57.4	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Duplicate Sample Results (DER)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	
Lab ID:	AS101001-4LCSD

Sample Matrix: WATER
 Prep SOP: PAI 777 Rev 9
 Date Collected: 01-Oct-10
 Date Prepared: 01-Oct-10
 Date Analyzed: 11-Oct-10

Prep Batch: AS101001-4
 QCBatchID: AS101001-4-1
 Run ID: TAS101001-4TH
 Count Time: 900 minutes

Final Aliquot: 500 ml
 Prep Basis: Unfiltered
 Moisture(%): NA
 Result Units: pCi/l
 File Name: Spectrum #1

CASNO	Analyte	Sample				Duplicate				DER	DER Lim
		Result +/-	2 s TPU	MDC	Flags	Result +/-	2 s TPU	MDC	Flags		
14269-63-7	Th-230	5.24 +/-	0.93	0.14	P	5.28 +/-	0.93	0.14	P	0.0313	2.13

Comments:

Duplicate Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
- Y2 - Chemical Yield outside default limits.
- W - DER is greater than Warning Limit of 1.42
- D - DER is greater than Control Limit of 2.13
- LT - Result is less than Request MDC, greater than sample specific MDC
- M - Requested MDC not met.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS, Matrix Spike Recovery within control limits.
- N - Matrix Spike Recovery outside control limits

Abbreviations:

- TPU - Total Propagated Uncertainty
- DER - Duplicate Error Ratio
- BDL - Below Detection Limit
- NR - Not Reported

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Duplicate Sample Results (DER)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	
Lab ID:	AS101001-5LCSD

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 01-Oct-10
Date Prepared: 01-Oct-10
Date Analyzed: 08-Oct-10

Prep Batch: AS101001-5
QCBatchID: AS101001-5-1
Run ID: AS101001-5TH
Count Time: 800 minutes

Final Aliquot: 500 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Analyte	Sample				Duplicate				DER	DER Lim
		Result +/-	2 s TPU	MDC	Flags	Result +/-	2 s TPU	MDC	Flags		
14269-63-7	Th-230	5.5 +/-	1.0	0.1	P	5.24 +/-	0.96	0.15	P	0.225	2.13

Comments:

Duplicate Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
- Y2 - Chemical Yield outside default limits.
- W - DER is greater than Warning Limit of 1.42
- D - DER is greater than Control Limit of 2.13
- LT - Result is less than Request MDC, greater than sample specific MDC
- M - Requested MDC not met.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS, Matrix Spike Recovery within control limits.
- N - Matrix Spike Recovery outside control limits

Abbreviations:

- TPU - Total Propagated Uncertainty
- DER - Duplicate Error Ratio
- BDL - Below Detection Limit
- NR - Not Reported

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	Berger-NESE-S7
Lab ID:	1009379-1

Sample Matrix: WATER

Prep SOP: PAI 777 Rev 9

Date Collected: 10-Aug-10

Date Prepared: 01-Oct-10

Date Analyzed: 11-Oct-10

Prep Batch: AS101001-4

QC Batch ID: AS101001-4-1

Run ID: TAS101001-4TH

Count Time: 900 minutes

Report Basis: Unfiltered

Final Aliquot: 495 ml

Prep Basis: Unfiltered

Moisture(%): NA

Result Units: pCi/l

File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	1.66 +/- 0.40	0.20	0.2	M3

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.455	1.61	pCi/l	36.1	30 - 110 %	

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: TH1009379-1



Inter-Mountain Labs
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

This is a **LEGAL DOCUMENT**. All shaded fields must be completed. See reverse for instructions.

131425

Ross ISR Project

Client Name STRATA / WWC	Project Identification ROSS ISR	Sampler (Signature/Printed) <i>[Signature]</i> / BEN SCHIFFER	Telephone # 672-0761
Report Address 1849 TERRA	Contact Name BEN SCHIFFER	ANALYSES / PARAMETERS	
Invoice Address "	Email		
	Phone		
	Purchase Order #	Quote #	

ITEM	LAB ID <small>(Lab Use Only)</small>	DATE SAMPLED	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	ANALYSES / PARAMETERS					REMARKS
							NATURAL URANIUM	THORIUM 230	LEAD 210	POLONIUM 210	RADIUM 226	
1	S1008451-001	7/21/10	14:00	SCO1	OT	4 BAGS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
2												
3				*ALTERNATE CONTACT FOR QUESTIONS AND RESULTS: LISA MANGOCAS								
4				2 -> (303) 524-1118								
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												

355

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
22.3°C	<i>[Signature]</i> / BEN SCHIFFER	8/2/10	09:00	Kathy Boyd	8/2/10	8:58

TR Addendum 2.9-C

SHIPPING INFO	MATRIX CODES	TURNAROUND TIMES	COMPLIANCE INFORMATION	ADDITIONAL REMARKS
<input type="checkbox"/> UPS <input type="checkbox"/> Fed Express <input type="checkbox"/> US Mail <input type="checkbox"/> Hand Carried <input type="checkbox"/> Other _____	Water WT Soil SL Solid SD Trip Blank TB Other OT	Check desired service <input checked="" type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH - 5 Working Days <input type="checkbox"/> URGENT - < 2 Working Days <i>Rush & Urgent Surcharges will be applied</i>	Compliance Monitoring? Y/N Program (SDWA, NPDES,...) PWSID / Permit # Chlorinated? Y/N Sample Disposal: Lab Client	



Date: 11/24/2010

CLIENT: Western Water Consultants
Project: Ross ISR
Lab Order: S1008451

CASE NARRATIVE
Report ID: S1008451001

Sample SC01 was received on August 2, 2010.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1998
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition
Methods indicated with the Monday, March 12, 2007 Federal Register, 40 CFR Part 122, 136 et al.

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager

Page 1 of 1



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/24/2010
Report ID: S1008451001

Project: Ross ISR
Lab ID: S1008451-001
Client Sample ID: SC01
COC: 131425

Work Order: S1008451
Collection Date: 7/27/2010 2:00:00 PM
Date Received: 8/25/2010
Sampler: Ben Schiffer
Matrix: Plant

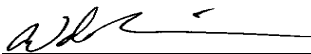
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Vegetation						
Lead 210	57.0 ± 7.5	1		piC/L	11/16/2010 1422 SH	OTW01
Polonium 210	11.3 ± 4.7	1		piC/L	11/16/2010 1127 SH	OTW01
Radium 226	11.2±0.35	0.05		pCi/Kg	10/07/2010 000 SH	SM 7500 Ra-B
Thorium230	0.960±0.23	0.2	L	pCi/Kg	10/21/2010 1327 WN	ACW10
Total Metals 3050/200.8						
Uranium	1.63	0.001		mg/Kg	09/22/2010 934 MS	200.8

These results apply only to the samples tested.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL
 - O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



ANALYTICAL QC SUMMARY REPORT

Date: 11/24/2010

CLIENT: Western Water Consultants
Work Order: S1008451
Project: Ross ISR

Report ID: S1008451001

Ross ISR Project

Sample ID: VMB10-312	SampType: MBLK	TestCode: RAD_PB210_V	Units: piC/L	Prep Date:	RunNo: 65274
Client ID:		Batch ID: R65274	Analysis Date: 11/16/2010 2:22:00 PM	SeqNo: 2042145	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	ND	1			

Sample ID: VLCS10-312 Pb	SampType: LCS	TestCode: RAD_PB210_V	Units: piC/L	Prep Date:	RunNo: 65274
Client ID:		Batch ID: R65274	Analysis Date: 11/16/2010 2:22:00 PM	SeqNo: 2042144	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	13	1	11.3		118 70 130

358

Sample ID: S1008451-001ADUP	SampType: DUP	TestCode: RAD_PB210_V	Units: piC/L	Prep Date:	RunNo: 65274
Client ID: SC01		Batch ID: R65274	Analysis Date: 11/16/2010 2:22:00 PM	SeqNo: 2042139	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	58	1			ND 0 20

TR Addendum 2.9-C

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	L Analyzed by a contract laboratory	M Value exceeds Monthly Ave or MCL
	ND Not Detected at the Reporting Limit	O Outside the Range of Dilutions	R RPD outside accepted recovery limits
	S Spike Recovery outside accepted recovery limits		



ANALYTICAL QC SUMMARY REPORT

Date: 11/24/2010

CLIENT: Western Water Consultants
Work Order: S1008451
Project: Ross ISR

Report ID: S1008451001

Ross ISR Project

Sample ID: VMB10-312	SampType: MBLK	TestCode: RAD_PO210_V_T	Units: piC/L	Prep Date:	RunNo: 65274
Client ID:		Batch ID: R65274	Analysis Date: 11/16/2010 11:27:00 AM	SeqNo: 2042093	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Polonium 210	ND	1			

Sample ID: S1008451-001ADUP	SampType: DUP	TestCode: RAD_PO210_V_T	Units: piC/L	Prep Date:	RunNo: 65274
Client ID: SC01		Batch ID: R65274	Analysis Date: 11/16/2010 11:27:00 AM	SeqNo: 2042088	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Polonium 210	19	1			ND 0 20

359

Sample ID: MB10-273B	SampType: MBLK	TestCode: RAD_RA226_V	Units: pCi/Kg	Prep Date: 10/5/2010	RunNo: 64510
Client ID:		Batch ID: R64510	Analysis Date: 10/7/2010 1:04:00 PM	SeqNo: 2016859	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	ND	0.05			

Sample ID: LCS10-273B	SampType: LCS	TestCode: RAD_RA226_V	Units: pCi/Kg	Prep Date: 10/5/2010	RunNo: 64510
Client ID:		Batch ID: R64510	Analysis Date: 10/7/2010 1:04:00 PM	SeqNo: 2016860	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	5.39	0.05	9.52		56.6 50 150

TR Addendum 2.9-C

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	L Analyzed by a contract laboratory	M Value exceeds Monthly Ave or MCL
	ND Not Detected at the Reporting Limit	O Outside the Range of Dilutions	R RPD outside accepted recovery limits
	S Spike Recovery outside accepted recovery limits		



ANALYTICAL QC SUMMARY REPORT

Date: 11/24/2010

CLIENT: Western Water Consultants
Work Order: S1008451
Project: Ross ISR

Report ID: S1008451001

Sample ID: Ics	SampType: LCS	TestCode: TOT3050_200.8_S	Units: mg/Kg	Prep Date:	RunNo: 63193						
Client ID:	Batch ID: R63193	Analysis Date: 9/22/2010 9:20:20 AM	SeqNo: 1974544								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Uranium	0.109	0.001									

Ross ISR Project

360

TR Addendum 2.9-C

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory	M	Value exceeds Monthly Ave or MCL
	ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions	R	RPD outside accepted recovery limits
	S	Spike Recovery outside accepted recovery limits				

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Method Blank Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS101001-4MB

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 01-Oct-10
Date Prepared: 01-Oct-10
Date Analyzed: 11-Oct-10

Prep Batch: AS101001-4
QCBatchID: AS101001-4-1
Run ID: TAS101001-4TH
Count Time: 900 minutes

Final Aliquot: 500 ml
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.032 +/- 0.080	0.141	0.2	U

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.82	pCi/l	64.0	30 - 110 %	

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.

Abbreviations:

TPU - Total Propagated Uncertainty
MDC - Minimum Detectable Concentration
BDL - Below Detection Limit

M - Requested MDC not met.
B - Analyte concentration greater than MDC.
B3 - Analyte concentration greater than MDC but less than Requested MDC.

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Method Blank Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS101001-5MB

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 01-Oct-10
Date Prepared: 01-Oct-10
Date Analyzed: 08-Oct-10

Prep Batch: AS101001-5
QCBatchID: AS101001-5-1
Run ID: AS101001-5TH
Count Time: 800 minutes

Final Aliquot: 500 ml
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	0.014 +/- 0.091	0.173	0.2	U

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.37	pCi/l	53.8	30 - 110 %	

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.

Abbreviations:

TPU - Total Propagated Uncertainty
MDC - Minimum Detectable Concentration
BDL - Below Detection Limit

M - Requested MDC not met.
B - Analyte concentration greater than MDC.
B3 - Analyte concentration greater than MDC but less than Requested MDC.

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Laboratory Control Sample(s)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS101001-4LCS	Sample Matrix: WATER Prep SOP: PAI 777 Rev 9 Date Collected: 01-Oct-10 Date Prepared: 01-Oct-10 Date Analyzed: 11-Oct-10	Prep Batch: AS101001-4 QCBatchID: AS101001-4-1 Run ID: TAS101001-4TH Count Time: 900 minutes	Final Aliquot: 500 ml Result Units: pCi/l File Name: Spectrum #1
-----------------------	--	---	--

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
14269-63-7	Th-230	5.24 +/- 0.93	0.14	5.11	102	85 - 121	P

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.83	pCi/l	64.1	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Laboratory Control Sample(s)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS101001-4LCSD

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 01-Oct-10
Date Prepared: 01-Oct-10
Date Analyzed: 11-Oct-10

Prep Batch: AS101001-4
QCBatchID: AS101001-4-1
Run ID: TAS101001-4TH
Count Time: 900 minutes

Final Aliquot: 500 ml
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
14269-63-7	Th-230	5.28 +/- 0.93	0.14	5.11	103	85 - 121	P

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.67	pCi/l	60.6	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Laboratory Control Sample(s)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS101001-5LCS

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 01-Oct-10
Date Prepared: 01-Oct-10
Date Analyzed: 08-Oct-10

Prep Batch: AS101001-5
QCBatchID: AS101001-5-1
Run ID: AS101001-5TH
Count Time: 800 minutes

Final Aliquot: 500 ml
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
14269-63-7	Th-230	5.5 +/- 1.0	0.1	5.11	109	85 - 121	P

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.58	pCi/l	58.5	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Laboratory Control Sample(s)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Lab ID: AS101001-5LCSD	Sample Matrix: WATER Prep SOP: PAI 777 Rev 9 Date Collected: 01-Oct-10 Date Prepared: 01-Oct-10 Date Analyzed: 08-Oct-10	Prep Batch: AS101001-5 QCBatchID: AS101001-5-1 Run ID: AS101001-5TH Count Time: 800 minutes	Final Aliquot: 500 ml Result Units: pCi/l File Name: Spectrum #1
-------------------------------	---	--	---

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
14269-63-7	Th-230	5.24 +/- 0.96	0.15	5.11	102	85 - 121	P

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.410	2.53	pCi/l	57.4	30 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Duplicate Sample Results (DER)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	
Lab ID:	AS101001-4LCSD

Sample Matrix: WATER
 Prep SOP: PAI 777 Rev 9
 Date Collected: 01-Oct-10
 Date Prepared: 01-Oct-10
 Date Analyzed: 11-Oct-10

Prep Batch: AS101001-4
 QCBatchID: AS101001-4-1
 Run ID: TAS101001-4TH
 Count Time: 900 minutes

Final Aliquot: 500 ml
 Prep Basis: Unfiltered
 Moisture(%): NA
 Result Units: pCi/l
 File Name: Spectrum #1

CASNO	Analyte	Sample				Duplicate				DER	DER Lim
		Result +/-	2 s TPU	MDC	Flags	Result +/-	2 s TPU	MDC	Flags		
14269-63-7	Th-230	5.24 +/-	0.93	0.14	P	5.28 +/-	0.93	0.14	P	0.0313	2.13

Comments:

Duplicate Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
- Y2 - Chemical Yield outside default limits.
- W - DER is greater than Warning Limit of 1.42
- D - DER is greater than Control Limit of 2.13
- LT - Result is less than Request MDC, greater than sample specific MDC
- M - Requested MDC not met.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS, Matrix Spike Recovery within control limits.
- N - Matrix Spike Recovery outside control limits

Abbreviations:

- TPU - Total Propagated Uncertainty
- DER - Duplicate Error Ratio
- BDL - Below Detection Limit
- NR - Not Reported

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Duplicate Sample Results (DER)

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	
Lab ID:	AS101001-5LCSD

Sample Matrix: WATER
 Prep SOP: PAI 777 Rev 9
 Date Collected: 01-Oct-10
 Date Prepared: 01-Oct-10
 Date Analyzed: 08-Oct-10

Prep Batch: AS101001-5
 QCBatchID: AS101001-5-1
 Run ID: AS101001-5TH
 Count Time: 800 minutes

Final Aliquot: 500 ml
 Prep Basis: Unfiltered
 Moisture(%): NA
 Result Units: pCi/l
 File Name: Spectrum #1

CASNO	Analyte	Sample				Duplicate				DER	DER Lim
		Result +/-	2 s TPU	MDC	Flags	Result +/-	2 s TPU	MDC	Flags		
14269-63-7	Th-230	5.5 +/-	1.0	0.1	P	5.24 +/-	0.96	0.15	P	0.225	2.13

Comments:

Duplicate Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
- Y2 - Chemical Yield outside default limits.
- W - DER is greater than Warning Limit of 1.42
- D - DER is greater than Control Limit of 2.13
- LT - Result is less than Request MDC, greater than sample specific MDC
- M - Requested MDC not met.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS, Matrix Spike Recovery within control limits.
- N - Matrix Spike Recovery outside control limits

Abbreviations:

- TPU - Total Propagated Uncertainty
- DER - Duplicate Error Ratio
- BDL - Below Detection Limit
- NR - Not Reported

Data Package ID: TH1009379-1

Isotopic Thorium By Alpha Spectroscopy

PAI 714 Rev 12

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1009379

Client Name: Inter-Mountain Labs

ClientProject ID: Western Water

Field ID:	SC01
Lab ID:	1009379-2

Sample Matrix: WATER
Prep SOP: PAI 777 Rev 9
Date Collected: 27-Jul-10
Date Prepared: 01-Oct-10
Date Analyzed: 11-Oct-10

Prep Batch: AS101001-4
QCBatchID: AS101001-4-1
Run ID: TAS101001-4TH
Count Time: 900 minutes
Report Basis: Unfiltered

Final Aliquot: 495 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Spectrum #1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14269-63-7	Th-230	1.92 +/- 0.46	0.23	0.2	M3

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Th-229	4.455	1.38	pCi/l	30.9	30 - 110 %	

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: TH1009379-1

LIVESTOCK



Inter-Mountain Labs
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

This is a **LEGAL DOCUMENT**. All shaded fields must be completed. See reverse for instructions.

135487

Ross ISR Project

371

TR Addendum 2.9-C

Client Name <i>STRATA / WWC</i>			Project Identification <i>ROSS ISR</i>			Sampler (Signature/Printed) <i>[Signature] / BEN SCHIFFER</i>			Telephone #		
Report Address			Contact Name			ANALYSES / PARAMETERS					
Invoice Address			Email			Uranium	Thorium 230	Lead 210	Ra 226	Po 210	REMARKS
Purchase Order #			Quote #								
ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers					
1	<i>S1008245-001</i>	<i>8-13-10</i>	<i>—</i>	<i>Birch Beef</i> <i>Birch</i>	<i>Meat</i>	<i>1</i>					<i>-18 lbs (beams)</i>
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
LAB COMMENTS		Relinquished By (Signature/Printed)			DATE	TIME	Received By (Signature/Printed)			DATE	TIME
<i>16.0°C</i>		<i>[Signature] / BEN SCHIFFER</i>			<i>8/13/10</i>	<i>10:02</i>	<i>[Signature] James Yocum</i>			<i>8-13-10</i>	<i>10:02</i>
SHIPPING INFO		MATRIX CODES		TURNAROUND TIMES		COMPLIANCE INFORMATION			ADDITIONAL REMARKS		
<input type="checkbox"/> UPS <input type="checkbox"/> Fed Express <input type="checkbox"/> US Mail <input type="checkbox"/> Hand Carried <input type="checkbox"/> Other _____		Water WT Soil SL Solid SD Trip Blank TB Other OT		<input checked="" type="checkbox"/> Check desired service <input type="checkbox"/> Standard turnaround <input checked="" type="checkbox"/> RUSH - 5 Working Days <input checked="" type="checkbox"/> URGENT - < 2 Working Days <i>Rush & Urgent Surcharges will be applied</i>		Compliance Monitoring? Y/N Program (SDWA, NPDES,...) PWSID / Permit # Chlorinated? Y/N Sample Disposal: Lab Client					



Date: 11/24/2010

CLIENT: Western Water Consultants
Project: Strata/WWC
Lab Order: S1008245

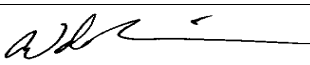
CASE NARRATIVE
Report ID: S1008245001

Sample Burch Beef was received on August 13, 2010.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1998
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition
Methods indicated with the Monday, March 12, 2007 Federal Register, 40 CFR Part 122, 136 et al.

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager

Page 1 of 1



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/24/2010
Report ID: S1008245001

Project: Strata/WWC
Lab ID: S1008245-001
Client Sample ID: Burch Beef

Work Order: S1008245
Collection Date: 8/13/2010
Date Received: 8/13/2010
Sampler:
Matrix: Animal Tissue

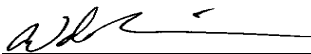
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Animal Tissue						
Lead 210	3.12 ± 4.8	1		piC/Kg	11/15/2010 2014 SH	OTW01
Polonium 210	ND	1		piC/Kg	11/18/2010 1556 SH	OTW01
Radium 226	0.288±0.05	0.05		pCi/Kg	11/04/2010 1717 SH	SM 7500 Ra-B
Thorium230	ND	0.2		pCi/Kg	11/16/2010 1149 WL	ACW10
Total Metals 3050/200.8						
Uranium	ND	0.001		mg/Kg	10/07/2010 1234 MS	200.8

These results apply only to the samples tested.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL
 - O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



ANALYTICAL QC SUMMARY REPORT

Date: 11/24/2010

CLIENT: Western Water Consultants
Work Order: S1008245
Project: Strata/WWC

Report ID: S1008245001

Sample ID: Ics	SampType: LCS	TestCode: TOT3050_200.8_S	Units: mg/Kg	Prep Date:	RunNo: 63697						
Client ID:	Batch ID: R63697	Analysis Date: 10/7/2010 11:38:47 AM	SeqNo: 1992254								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Uranium	0.101	0.001									

Ross ISR Project

374

TR Addendum 2.9-C

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory	M	Value exceeds Monthly Ave or MCL
	ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions	R	RPD outside accepted recovery limits
	S	Spike Recovery outside accepted recovery limits				

WILDLIFE



Inter-Mountain Labs
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

This is a **LEGAL DOCUMENT**. All shaded fields must be completed. See reverse for instructions.

137077

Ross ISR Project

Client Name <i>WWC/strata</i>		Project Identification <i>ROSS</i>		Sampler (Signature/Printed) <i>Rod Fuller</i>		Telephone #	
Report Address <i>WWC</i>		Contact Name <i>Rod Fuller</i>		ANALYSES / PARAMETERS			
Invoice Address <i>WWC</i>		Email <i>WWC</i>					
		Phone		REMARKS			
		Purchase Order #					
		Quote #					

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	ANALYSES / PARAMETERS						REMARKS
							4.14	BASELINE					
1	S1010260-001	10-18-10	1300	DEER MEAT (1 Pound)	MEAT	1	✓	✓					
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
ROI	<i>Rod Fuller</i>	10-18-10	1612	<i>Kathryn Boyd</i>	10/18/10	16:15

SHIPPING INFO	MATRIX CODES	TURNAROUND TIMES	COMPLIANCE INFORMATION	ADDITIONAL REMARKS
<input type="checkbox"/> UPS <input type="checkbox"/> Fed Express <input type="checkbox"/> US Mail <input type="checkbox"/> Hand Carried <input type="checkbox"/> Other _____	Water WT Soil SL Solid SD Trip Blank TB Other OT	Check desired service <input checked="" type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH - 5 Working Days <input type="checkbox"/> URGENT - < 2 Working Days <i>Rush & Urgent Surcharges will be applied</i>	Compliance Monitoring? Y / N Program (SDWA, NPDES,...) PWSID / Permit # Chlorinated? Y / N Sample Disposal: Lab Client	

376

TR Addendum 2.9-C



Date: 12/6/2010

CLIENT: Western Water Consultants
Project: ROSS ISR
Lab Order: S1010260

CASE NARRATIVE
Report ID: S1010260001

Sample Deer Meat (1 Pound) was received on October 19, 2010.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1998
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition
Methods indicated with the Monday, March 12, 2007 Federal Register, 40 CFR Part 122, 136 et al.

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager

Page 1 of 1



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 12/6/2010
Report ID: S1010260001

Project: ROSS ISR
Lab ID: S1010260-001
Client Sample ID: Deer Meat (1 Pound)

Work Order: S1010260
Collection Date: 10/18/2010 1:00:00 PM
Date Received: 10/19/2010
Sampler:
Matrix: Animal Tissue

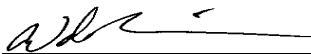
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Animal Tissue						
Lead 210	13.0 ± 7.5	1		pCi/Kg	12/05/2010 1453 SH	OTW01
Polonium 210	3.68 ± 3.75	1		pCi/Kg	11/30/2010 1203 SH	OTW01
Radium 226	1.8 ± 1.5	0.05		pCi/Kg	11/22/2010 1727 SH	SM 7500 Ra-B
Thorium230	7.6 ± 4.2	0.2		pCi/Kg	11/29/2010 1833 WL	ACW10
Total Metals 3050/200.8						
Uranium	ND	0.0001		mg/Kg	11/16/2010 1410 MS	200.8

These results apply only to the samples tested.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL
 - O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



ANALYTICAL QC SUMMARY REPORT

Date: 12/6/2010

CLIENT: Western Water Consultants

Report ID: S1010260001

Work Order: S1010260

Project: ROSS ISR

Ross ISR Project

Sample ID: MB-R65540	SampType: MBLK	TestCode: RAD_PB210_A	Units: pCi/Kg	Prep Date:	RunNo: 65540
Client ID:		Batch ID: 4718	Analysis Date: 12/5/2010 2:53:00 PM		SeqNo: 2049940
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	ND	1			

Sample ID: LCS-R65540	SampType: LCS	TestCode: RAD_PB210_A	Units: pCi/Kg	Prep Date:	RunNo: 65540
Client ID:		Batch ID: 4718	Analysis Date: 12/5/2010 2:53:00 PM		SeqNo: 2049941
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead 210	11	1	11.1		93.7 50 150

379

Sample ID: MB-R65350	SampType: MBLK	TestCode: RAD_PO210_A	Units: pCi/Kg	Prep Date:	RunNo: 65350
Client ID:		Batch ID: R65350	Analysis Date: 11/30/2010 10:57:00 AM		SeqNo: 2044191
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Polonium 210	ND	1			

Sample ID: LCS-R65350	SampType: LCS	TestCode: RAD_PO210_A	Units: pCi/Kg	Prep Date:	RunNo: 65350
Client ID:		Batch ID: R65350	Analysis Date: 11/30/2010 10:57:00 AM		SeqNo: 2044192
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Polonium 210	17	1	15.1		112 50 150

TR Addendum 2.9-C

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	L Analyzed by a contract laboratory	M Value exceeds Monthly Ave or MCL
	ND Not Detected at the Reporting Limit	O Outside the Range of Dilutions	R RPD outside accepted recovery limits
	S Spike Recovery outside accepted recovery limits		



ANALYTICAL QC SUMMARY REPORT

Date: 12/6/2010

CLIENT: Western Water Consultants
Work Order: S1010260
Project: ROSS ISR

Report ID: S1010260001

Ross ISR Project

Sample ID: MB-R65347	SampType: MBLK	TestCode: RAD_RA226_A	Units: pCi/Kg	Prep Date:	RunNo: 65347
Client ID:		Batch ID: R65347	Analysis Date: 11/22/2010 5:27:00 PM		SeqNo: 2044178
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	ND	0.05			

Sample ID: LCS-R65347	SampType: LCS	TestCode: RAD_RA226_A	Units: pCi/Kg	Prep Date:	RunNo: 65347
Client ID:		Batch ID: R65347	Analysis Date: 11/22/2010 5:27:00 PM		SeqNo: 2044179
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium 226	7.0	0.05	9.5		73.8 50 150

Sample ID: TRACER BLANK DB	SampType: MBLK	TestCode: RAD_TH230_A	Units: pCi/Kg	Prep Date:	RunNo: 65341
Client ID:		Batch ID: R65341	Analysis Date: 11/23/2010 11:36:00 AM		SeqNo: 2043922
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Thorium230	ND	0.2	0		0 0 0

380

TR Addendum 2.9-C

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	L Analyzed by a contract laboratory	M Value exceeds Monthly Ave or MCL
	ND Not Detected at the Reporting Limit	O Outside the Range of Dilutions	R RPD outside accepted recovery limits
	S Spike Recovery outside accepted recovery limits		



ANALYTICAL QC SUMMARY REPORT

Date: 12/6/2010

CLIENT: Western Water Consultants
Work Order: S1010260
Project: ROSS ISR

Report ID: S1010260001

Ross ISR Project

Sample ID: Init Cal Blank	SampType: MBLK	TestCode: TOT3050_200.8_S	Units: mg/Kg	Prep Date:	RunNo: 65028
Client ID:	Batch ID: R65028	Analysis Date: 11/16/2010 1:50:52 PM	SeqNo: 2032548		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	ND	0.001			

Sample ID: Ics	SampType: LCS	TestCode: TOT3050_200.8_S	Units: mg/Kg	Prep Date:	RunNo: 65028
Client ID:	Batch ID: R65028	Analysis Date: 11/16/2010 1:58:05 PM	SeqNo: 2032549		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	0.096	0.001	0.1		96.1 85 115

381

Sample ID: S1010260-001As	SampType: MS	TestCode: TOT3050_200.8_S	Units: mg/Kg	Prep Date:	RunNo: 65028
Client ID: Deer Meat (1 Pound)	Batch ID: R65028	Analysis Date: 11/16/2010 2:17:44 PM	SeqNo: 2032552		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	11.3	0.001	12.1	0	93.7 80 120

Sample ID: S1010260-001A	SampType: DUP	TestCode: TOT3050_200.8_S	Units: mg/Kg	Prep Date:	RunNo: 65028
Client ID: Deer Meat (1 Pound)	Batch ID: R65028	Analysis Date: 11/16/2010 2:14:07 PM	SeqNo: 2032551		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	ND	0.0001			ND 0 20

TR Addendum 2.9-C

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected below quantitation limits
 - ND Not Detected at the Reporting Limit
 - S Spike Recovery outside accepted recovery limits
 - E Value above quantitation range
 - L Analyzed by a contract laboratory
 - O Outside the Range of Dilutions
 - H Holding times for preparation or analysis exceeded
 - M Value exceeds Monthly Ave or MCL
 - R RPD outside accepted recovery limits

FISH



Inter-Mountain Labs
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

This is a **LEGAL DOCUMENT**. All shaded fields must be completed. See reverse for instructions.

137086

Ross ISR Project

Client Name STRATA IWWC		Project Identification ROSS ISR		Sampler (Signature/Printed) <i>[Signature]</i> / Ben Schiffer		Telephone # 672-0761	
Report Address 1849 TERRA		Contact Name BEN SCHIFFER / LISA MANGLES		ANALYSES / PARAMETERS			
Invoice Address 1849 TERRA		Email		NATURAL URANIUM	THORIUM 230	LEAD 210	RADIUM 226
		Phone					
		Purchase Order #		Quote #		REMARKS	

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	NATURAL URANIUM	THORIUM 230	LEAD 210	RADIUM 226	POLONIUM 210	REMARKS
1	S1000001-001A	9/24/10	11:00	OSHOTO RES. FISH	OT	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	BLACK BULLHEAD, WHITE SUCKER, GREEN SUNFISH
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												

383

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
3.6	<i>[Signature]</i> / Ben Schiffer	9/27/10	15:45	Kathy Boyd	9/27/10	15:45

TR Addendum 2.9-C

SHIPPING INFO <input type="checkbox"/> UPS <input type="checkbox"/> Fed Express <input type="checkbox"/> US Mail <input type="checkbox"/> Hand Carried <input type="checkbox"/> Other _____		MATRIX CODES Water WT Soil SL Solid SD Trip Blank TB Other OT		TURNAROUND TIMES <input checked="" type="checkbox"/> Check desired service <input type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH - 5 Working Days <input type="checkbox"/> URGENT - < 2 Working Days <i>Rush & Urgent Surcharges will be applied</i>		COMPLIANCE INFORMATION Compliance Monitoring? Y / N Program (SDWA, NPDES,...) PWSID / Permit # Chlorinated? Y / N Sample Disposal: Lab Client		ADDITIONAL REMARKS	
---	--	---	--	---	--	--	--	---------------------------	--



Date: 12/1/2010

CLIENT: Western Water Consultants
Project:
Lab Order: S1010001

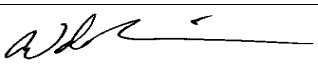
CASE NARRATIVE
Report ID: S1010001001

Sample Oshoto Res Fish was received on October 1, 2010.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1998
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition
Methods indicated with the Monday, March 12, 2007 Federal Register, 40 CFR Part 122, 136 et al.

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager

Page 1 of 1



Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 12/1/2010
Report ID: S1010001001

Project:
Lab ID: S1010001-001
Client Sample ID: Oshoto Res Fish

Work Order: S1010001
Collection Date: 9/24/2010
Date Received: 10/1/2010
Sampler:
Matrix: Animal Tissue

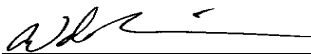
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Radiochemistry - Animal Tissue						
Lead 210	60.4 ± 93.6	1		pCi/Kg	11/30/2010 1341 SH	OTW01
Polonium 210	ND	1		pCi/Kg	11/30/2010 1203 SH	OTW01
Radium 226	175 ± 15	0.05		pCi/Kg	11/23/2010 951 SH	SM 7500 Ra-B
Thorium230	0.6 ± 0.6	0.2		pCi/Kg	11/29/2010 1610 WL	ACW10
Total Metals 3050/200.8						
Uranium	0.0160	0.0001		mg/Kg	11/16/2010 1432 MS	200.8

These results apply only to the samples tested.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL
 - O Outside the Range of Dilutions

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



ANALYTICAL QC SUMMARY REPORT

Date: 12/1/2010

CLIENT: Western Water Consultants

Report ID: S1010001001

Work Order: S1010001

Project:

Sample ID: MB-R65350	SampType: MBLK	TestCode: RAD_PO210_A	Units: pCi/Kg	Prep Date:	RunNo: 65350
Client ID:		Batch ID: R65350	Analysis Date: 11/30/2010 10:57:00 AM	SeqNo: 2044191	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Polonium 210	ND	1			

Sample ID: LCS-R65350	SampType: LCS	TestCode: RAD_PO210_A	Units: pCi/Kg	Prep Date:	RunNo: 65350
Client ID:		Batch ID: R65350	Analysis Date: 11/30/2010 10:57:00 AM	SeqNo: 2044192	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Polonium 210	17	1	15.1		112 50 150

Sample ID: TRACER BLANK DB	SampType: MBLK	TestCode: RAD_TH230_A	Units: pCi/Kg	Prep Date:	RunNo: 65341
Client ID:		Batch ID: R65341	Analysis Date: 11/23/2010 11:36:00 AM	SeqNo: 2043922	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Thorium230	ND	0.2	0		0 0 0

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	L Analyzed by a contract laboratory	M Value exceeds Monthly Ave or MCL
	ND Not Detected at the Reporting Limit	O Outside the Range of Dilutions	R RPD outside accepted recovery limits
	S Spike Recovery outside accepted recovery limits		

Ross ISR Project

386

TR Addendum 2.9-C



ANALYTICAL QC SUMMARY REPORT

Date: 12/1/2010

CLIENT: Western Water Consultants

Report ID: S1010001001

Work Order: S1010001

Project:

Sample ID: Init Cal Blank	SampType: MBLK	TestCode: TOT3050_200.8_S	Units: mg/Kg	Prep Date:	RunNo: 65028
Client ID:	Batch ID: R65028	Analysis Date: 11/16/2010 1:50:52 PM	SeqNo: 2032548		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	ND	0.001			

Sample ID: Ics	SampType: LCS	TestCode: TOT3050_200.8_S	Units: mg/Kg	Prep Date:	RunNo: 65028
Client ID:	Batch ID: R65028	Analysis Date: 11/16/2010 1:58:05 PM	SeqNo: 2032549		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Uranium	0.096	0.001	0.1		96.1 85 115

Ross ISR Project

387

TR Addendum 2.9-C

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	L Analyzed by a contract laboratory	M Value exceeds Monthly Ave or MCL
	ND Not Detected at the Reporting Limit	O Outside the Range of Dilutions	R RPD outside accepted recovery limits
	S Spike Recovery outside accepted recovery limits		

ADDENDUM 2.9-D
BASELINE RADIOLOGICAL MONITORING
RESULTS AND FINAL CONCLUSIONS
4TH QUARTER

(Will be provided on or before Feb 22, 2011)

ADDENDUM 3.1-A
ROSS ISR PROJECT
FACILITIES ENGINEERING REPORT

TABLE OF CONTENTS

LIST OF FIGURES

Figure 1. SA Potentiometric Contour.....3
Figure 2. Proposed Plant Area Hydrogeologic Cross Sections.....4

List of Appendicies

Appendix A Borehole Logs.....6
Appendix B Well Hydrographs.....16
Appendix C Geotechnical Testing Restults.....20

This report provides the preliminary site investigation for the CPP area. It includes geotechnical investigations for the site. These investigations were prepared to provide provisional layouts at the site, and to better characterize the expected operating conditions, potential environmental impacts and potential public and occupational health effects for the proposed project. Final designs will be submitted at a later date, pending additional data collection and analysis.

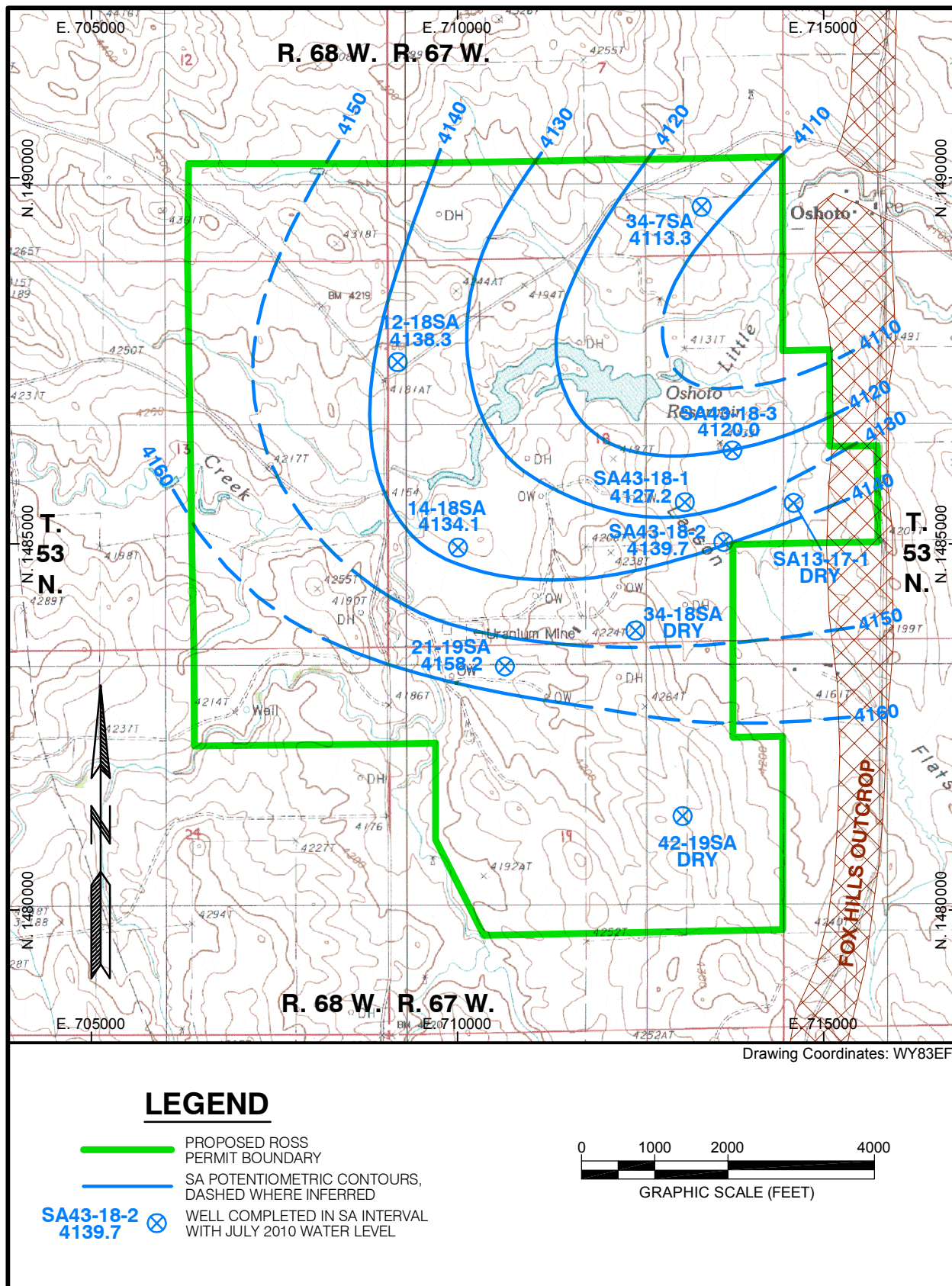
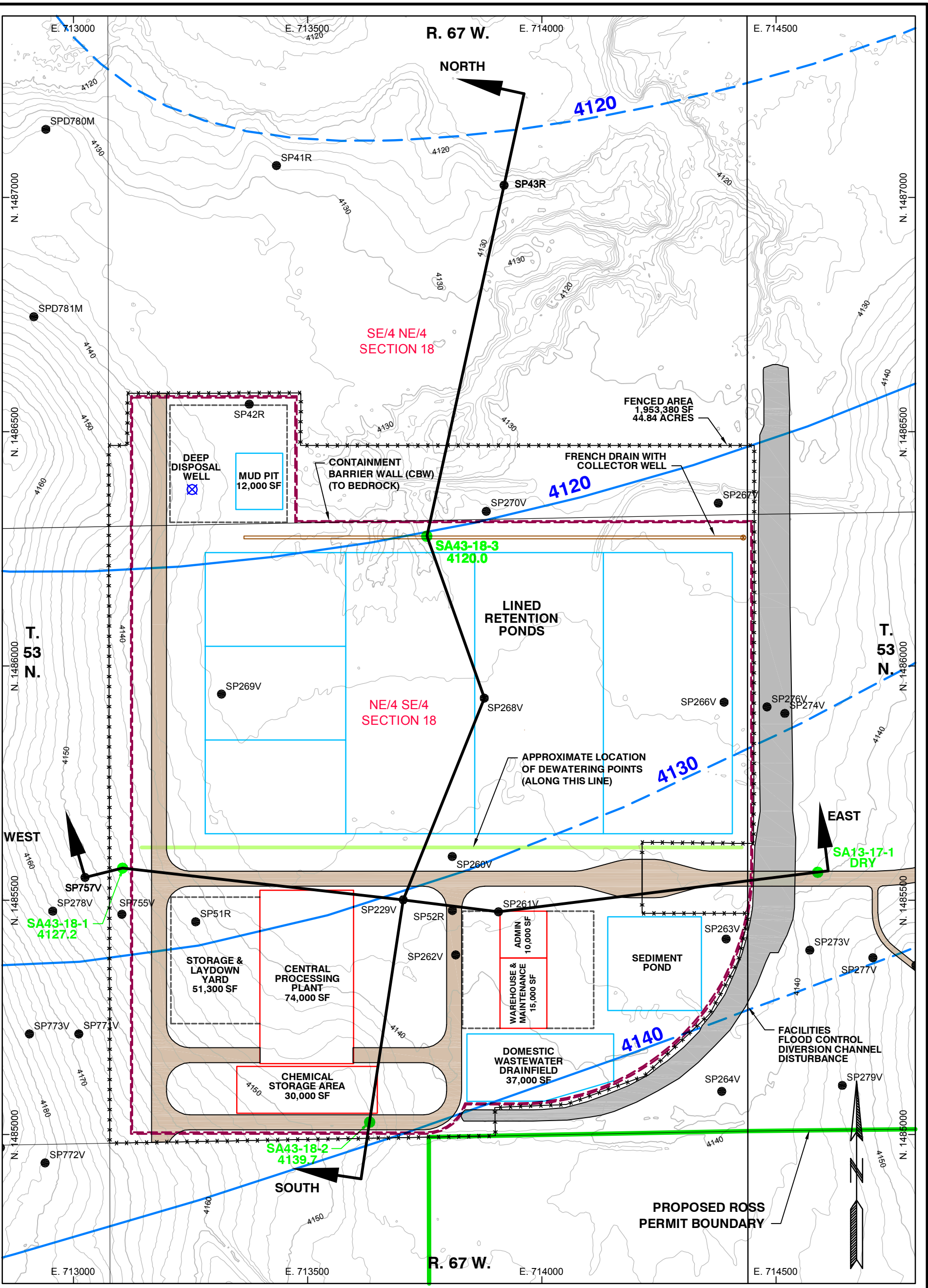


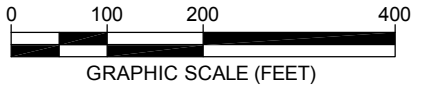
Figure 1. SA Potentiometric Contours



Basemap: 2' Contours from May 2010 Flight

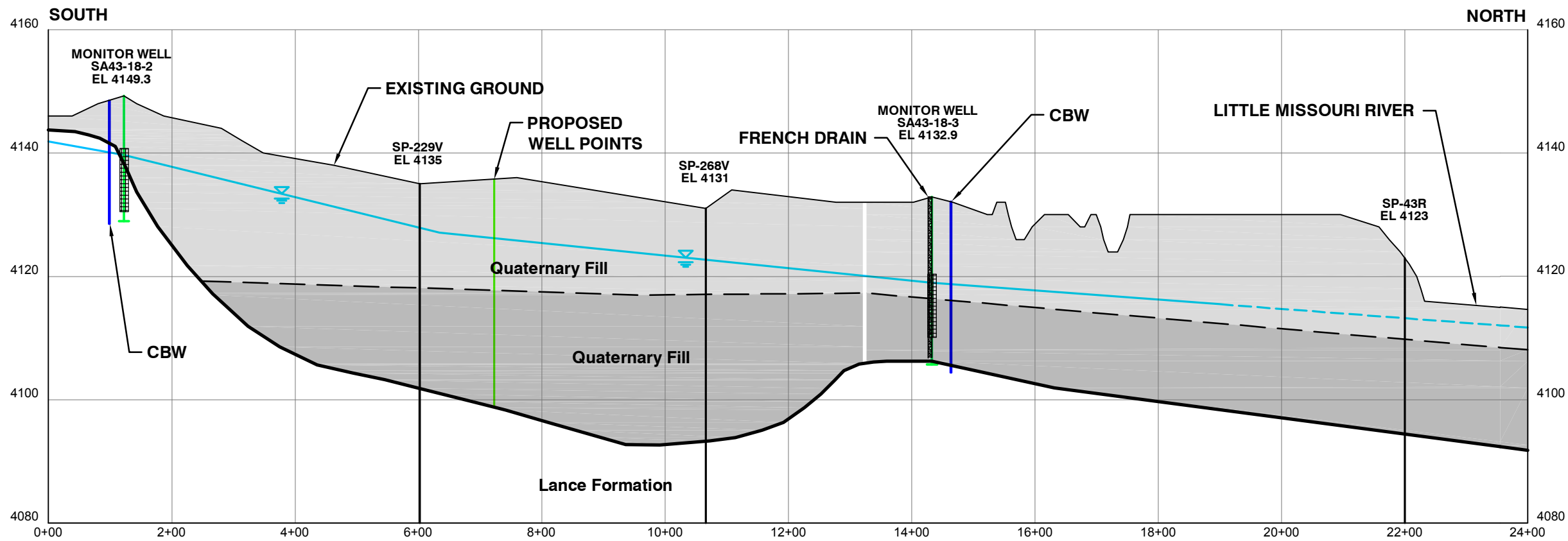
CROSS SECTION LOCATION MAP

Drawing Coordinates: WY83EF



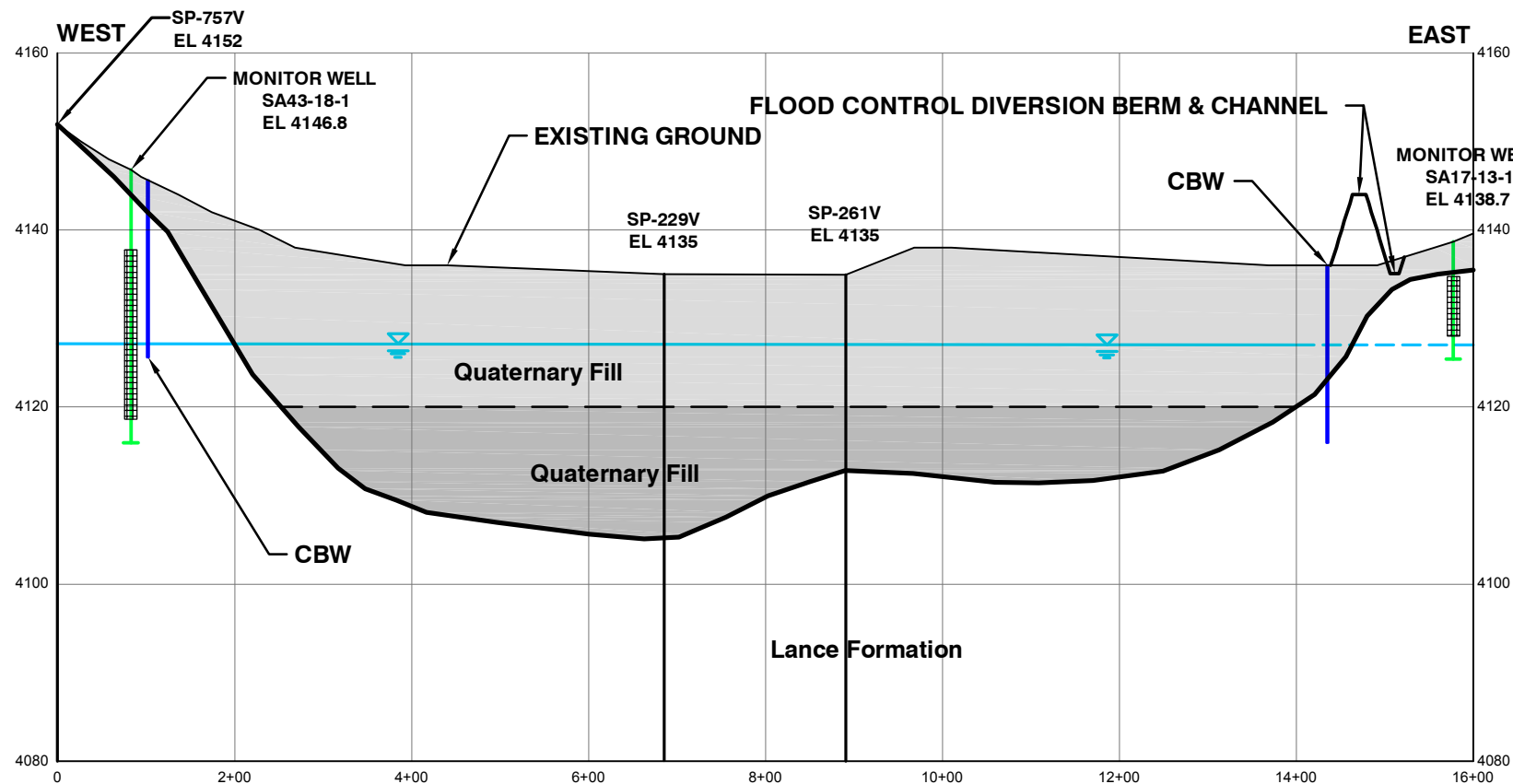
- LEGEND**
- PROPOSED ROSS PERMIT BOUNDARY
 - SA13-17-1 PLANT AREA PIEZOMETER
 - SP272V EXPLORATORY HOLES
 - SA POTENTIOMETRIC CONTOURS DASHED WHERE INFERRED

STRATA ENERGY		ROSS ISR PROJECT CROOK COUNTY, WY P.O. BOX 2318 GILLETTE, WY 82716	
REVISIONS		ADDENDUM 3.1-A	
Date	Description	FIGURE 2	
		SHEET 1 OF 2	
PROPOSED PLANT AREA SHALLOW HYDROGEOLOGIC CROSS SECTIONS			
		Drawn By: MBM	
		Checked By: BJS	
		Date: 12/16/10	
FILE: ROSS TR GEOTECHNICAL XS			



SOUTH TO NORTH CROSS SECTION

SCALE: 1" = 200', HORZ., 1" = 20' VERT.



EAST TO WEST CROSS SECTION

SCALE: 1" = 200', HORZ., 1" = 20' VERT.

LEGEND

- Lance Quaternary Fill** PREDOMINANTLY SILTY AND SANDY CLAYS THAT ARE SOFT MOIST AND VERY COHESIVE
- PREDOMINANTLY MODERATE TO WELL SORTED PEBBLE SAND. TYPICALLY LOOSE AND UNCONSOLIDATED. SATURATED.
- Lance Formation** MODERATELY CONSOLIDATED FLUVIAL SEDIMENTS OF LATE CRETACEOUS AGE. INTERBEDDED VERY FINE SANDSTONE, SILTSTONE AND CLAYSTONE.
- MONITOR WELL SCREEN INTERVAL
- GROUNDWATER LEVEL EXTRAPOLATED FROM LIMITED MONITOR WELL INFORMATION. DASHED WHERE INFERRED.

NOTE: CONTACT BETWEEN QUATERNARY FILL AND UNDERLYING LANCE FORMATION WAS BASED ON WASH-OUT ZONES APPARENT ON E-LOGS.

		ROSS ISR PROJECT CROOK COUNTY, WY P.O. BOX 2318 GILLETTE, WY 82716	
		ADDENDUM 3.1-A FIGURE 2	
REVISIONS Date Description		SHEET 2 OF 2 PROPOSED PLANT AREA SHALLOW HYDROGEOLOGIC CROSS SECTIONS	
Drawn By: MBM Checked By: BJS Date: 12/16/10			
FILE: ROSS_TR_GEOTECHNICAL.XS		www.wwcengineering.com	

APPENDIX A

ENGINEERING HYDROLOGY AND HYDROGEOLOGY

LOG OF BOREHOLE		BOREHOLE # SA 13-17-1		Page 1 of 1		
PROJECT: Proposed Plant Site Geotech (Berger)		DRILLER: Bill Cameron Terracon		DATE: 5-17-10		
CLIENT/LOCATION: Strata Energy NWSW Section 17, T53N, R67W		RIG: CME-55 High Torque		START: 14:15		
GROUND ELEVATION: 4138.7		BIT(S): Hollow-Stem Auger		FINISH: 15:30		
COORDINATES: N: 4,935,667 E: 504,618 UTM Zone 13 NAD 27		FLUID: None		TOTAL DEPTH: 13.0'		
SURVEYED: Yes GPS		LOG BY: M. Wolf – WYPG #614		HOLE DIAMETER: 8" OD, 4" ID		
DEPTH		DESCRIPTION OF MATERIALS (ASTM D2488)	ASTM D2487 SYMBOL	BPF ASTM D1586	SWL	TEST, SAMPLES, OR NOTES
From	To					
0	1	Silty clay; dark brown, moist, cohesive	CL			
1	2.5	SPT (1/2/8) recovered 1.4'		10		
		Silty clay; grey, brown-salts	CL			
2.5	4	Firm; grey, moist	CL			"Bedrock"
4	5.5	CAL (8/9/8) 3 liners, top poor		17		
		Siltstone; buff, abundant salts	ML			
5.5	7.0	SPT (3/3/5) recovered 1.5'		8		
		Very fine sand; grey, uniform, clean, no clay, non-cohesive	SM			
9	10.5	CAL (7/14/20) 4 rings – top poor		34		3 bottom OK
		Sandstone; buff grey, clay, very coarse, friable. Looks like mechanical fracture on bedding	SM			
10.5	13.0	SPT (10/14/20) recovered 1.8'		24		
		Sandstone; very, very fine grained, light grey, clay rich, uniform, Lance-Fox Hills	SM/SC			
		Rings – 4.5-4.84, 4.84-5.17, 5.17-5.5, 9.17-9.5, 9.5-9.84, 9.87-10.17, 10.17-10.5				

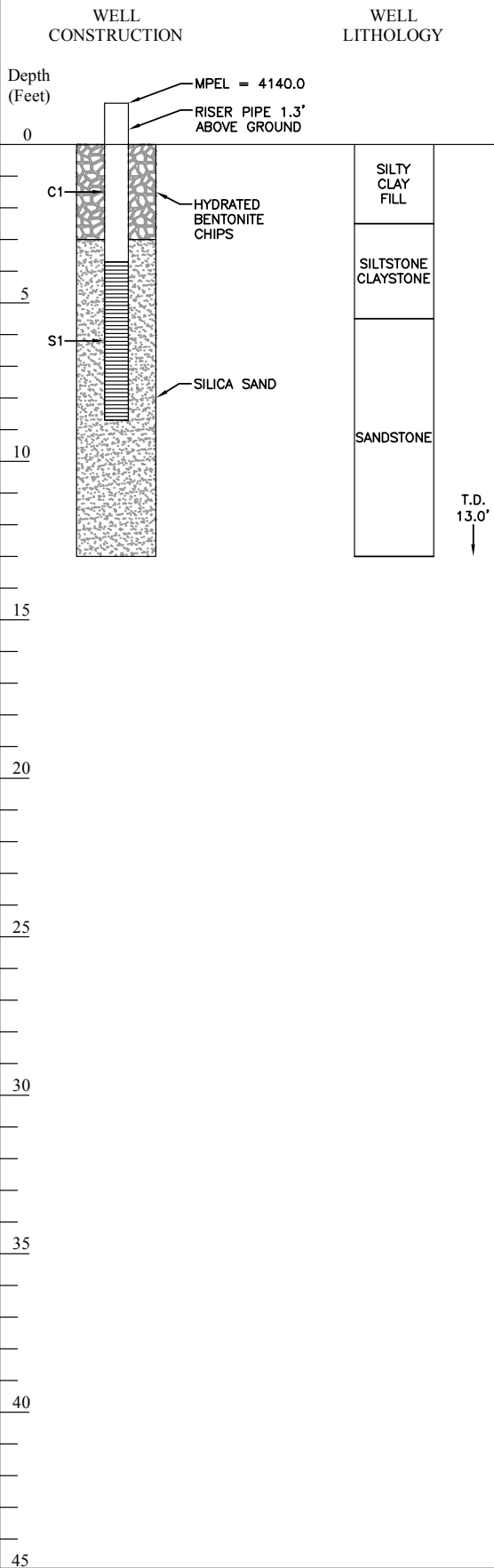
ABBREVIATIONS

- | | | |
|--------------------------|--|------------------------------|
| SWL – Static Water Level | DBS – Disturbed Bulk Sample | CAL – California Tube Sample |
| ST – Shelby Tube Sample | REF – Refusal | ZP – Ziplock Bag Sample |
| GS – Geochemical Sample | SPT – Standard Penetration Test with Split Barrel Sample (ASTM D-1586) | LA – Laboratory Analysis |
| O - Petroleum Odor | | PID – Instrument Response |

K:\Peninsula_Minerals\09142\Borehole Logs\SA 13-17-1.doc

Well Construction Summary

Client: STRATA ENERGY
 Project: PROPOSED PLANT SITE GROUNDWATER Well: SA13-17-1
 Location: N 4,935,667 E 504,618 GRD EL 4138.7
 Projection UTM ZONE 13 NAD 27
NE/4, SE/4, Section 18 T. 53 N. R. 67 W.
 Geologist: MIKE WOLF WY PG #614



Drilling Summary

Total Depth: 13.0
 Hole Dia.: 8"
 Driller: BILL CAMERON
TERRACON
 Rig: CME55 HIGH TORQUE
 Bit(s): HOLLOW STEM AUGER
4 1/2 INCH I.D.
 Fluid: NONE
 Casing: FLUSH THREAD 2" PVC

Well Development

DRY AFTER COMPLETION

Well Data

Casing: C=Casing S=Screen
 C1 +1.3- 3.7 | S1 -3.7 -8.7
 Monument or Surface Casing: NONE
 Centralizer: NONE
 Casing C1: 2" SCH 40 PVC - FLUSH THREAD
 Screen S1: 2" FACTORY SLOTTED 0.010" SLOT
 Filter Pack: 10/20 COLORADO SILICA SAND
 Depth: 3.0 - 8.7
 Bentonite: 3/8" HYR. BENT. CHIPS
 Depth: 0 - 3.0
 Cement: NONE
 Depth: -
 Other:

Remarks

Construction Time Log

Activity	Start	End
Drilling:		
<u>5-17-10</u>	<u>14:15</u>	<u>15:00</u>
Casing:		
<u>5-17-10</u>	<u>15:00</u>	<u>15:30</u>

Abandoned

Date: _____
 Method: _____



ENGINEERING HYDROLOGY AND HYDROGEOLOGY

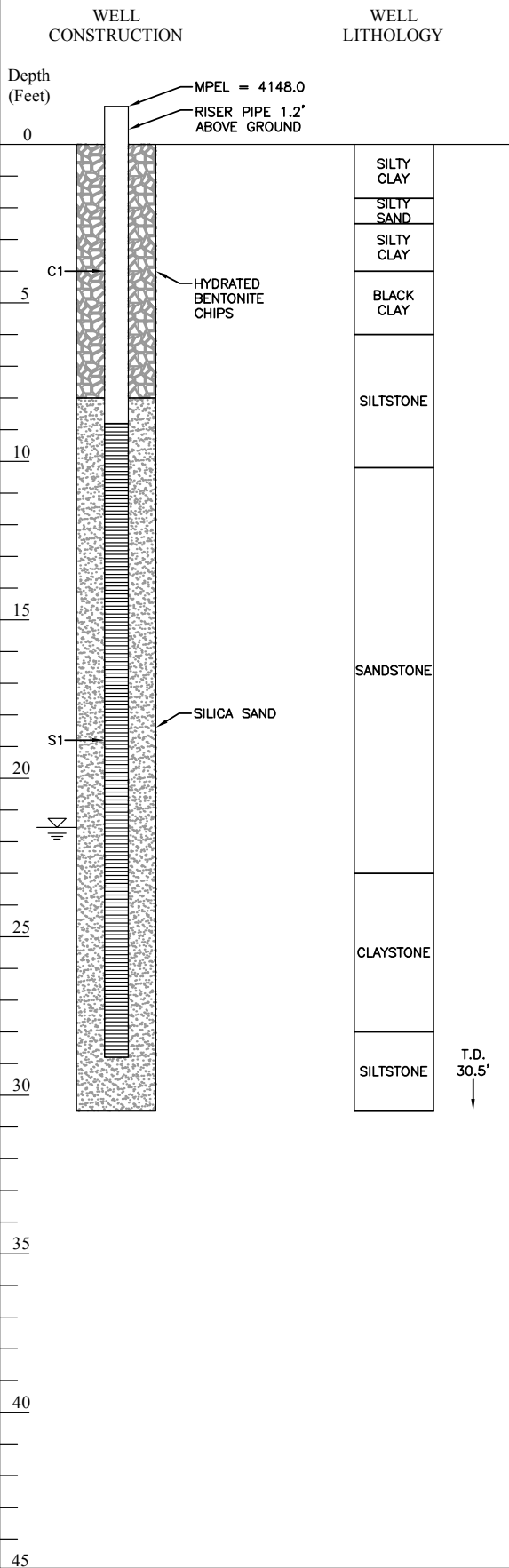
LOG OF BOREHOLE		BOREHOLE # SA 43-18-1		Page 1 of 1	
PROJECT: Proposed Plant Site Geotech (Berger)		DRILLER: Bill Cameron Terracon		DATE: 5-18-10	
CLIENT/LOCATION: Strata Energy NESE Section 18, T53N, R67W		RIG: CME-55 High Torque		START: 09:25	
GROUND ELEVATION: 4146.8		BIT(S): Hollow-Stem Auger		FINISH: 11:45	
COORDINATES: N: 4,935,671 E: 504,165.7 UTM Zone 13 NAD 27		FLUID: None		TOTAL DEPTH: 30.5'	
SURVEYED: Yes GPS		LOG BY: M. Wolf – WYPG #614		HOLE DIAMETER: 8"	
DEPTH		DESCRIPTION OF MATERIALS (ASTM D2488)	ASTM	BPF	TEST, SAMPLES, OR NOTES
From	To		D2487 SYMBOL	ASTM D1586	
0	1	Silty clay; dark brown, little sandy	CL-ML		
1	2.5	SPT (2/3/5) recovered 1.5'		8	
1	1.7	Clayey silt; dark brown	ML-CL		
1.7	2.5	Sandy/silt/silty sand; light buff-grey	SM		
4	5.5	CAL (3/7/9) recovered 1.4'		16	2 good/1 poor
		Silty clay; very dark, very abundant salts, very cohesive	CL		
5.5	7.0	SPT (3/5/8) recovered 1.5'		13	
5.5	6.0	Clay; very dark black/brown, silty, salts	CL		
6	7	Siltstone; brown, sandy, abundant salts	ML		"Bedrock"
9	10.5	CAL (4/6/7) recovered 1.5'. 3 good rings		13	3 good rings
9	10.2	Siltstone; clay rich, very dark, salts, moderately cohesive	ML-CL		
10.2	10.5	Sandstone; light buff, very fine grained, very friable			
10.5	13	SPT (3/10/12) recovered 1.8'		22	
		Sandstone; very light buff, very, very fine grained, very, very friable, no clay, very clean	SP		
14	15.5	CAL (18/52) refusal at 1.0'		52+	
		Sandstone; buff, very fine grained, friable	SP		2 good top poor
15.5	17.0	SPT (25/50 for 5) recovered 1.0'		50+	
		Sandstone; buff-yellow, very, very, fine grained, very friable, moist	SP		
19	20.5	SPT (10/22/27) recovered 2.0'		49	
		Sandstone; light buff-grey, very fine grained, very friable	SP		
24	25.5	SPT (7/12/20) recovered 1.8'		32	
		Claystone; grey-dark grey, silty, fissile	CL		
29	30.5	SPT (12/23/32) recovered 1.8'		55	
		Siltstone; grey, moist, friable	ML		

ABBREVIATIONS

- | | | |
|--------------------------|--|------------------------------|
| SWL – Static Water Level | DBS – Disturbed Bulk Sample | CAL – California Tube Sample |
| ST – Shelby Tube Sample | REF – Refusal | ZP – Ziplock Bag Sample |
| GS – Geochemical Sample | SPT – Standard Penetration Test with Split Barrel Sample (ASTM D-1586) | LA – Laboratory Analysis |
| O - Petroleum Odor | | PID – Instrument Response |

Well Construction Summary

Client: STRATA ENERGY
 Project: PROPOSED PLANT SITE GROUNDWATER Well: SA43-18-1
 Location: N 4,935,671 E 504,165.7 GRD EL 4146.8
 Projection UTM ZONE 13 NAD 27
NE/4, SE/4, Section 18 T. 53 N. R. 67 W.
 Geologist: MIKE WOLF WY PG #614



Drilling Summary

Total Depth: 30.5
 Hole Dia.: 8"
 Driller: BILL CAMERON
TERRACON
 Rig: CME55 HIGH TORQUE
 Bit(s): HOLLOW STEM AUGER
4 1/2 INCH I.D.
 Fluid: NONE
 Casing: FLUSH THREAD 2" PVC

Well Development

NONE, DRY FOLLOWING DEVELOPMENT
 5-19-10
 DTW AT 9:45 = 22.75 BTOC

Well Data

Casing: C=Casing S=Screen
 C1 +1.2- 8.8 | S1 - 8.8 -28.8
 Monument or Surface Casing: NONE
 Centralizer: NONE
 Casing C1: 2" SCH 40 PVC - FLUSH THREAD
 Screen S1: 2" FACTORY SLOTTED 0.010" SLOT
 Filter Pack: 10/20 COLORADO SILICA SAND
 Depth: 8.0 - 30.5
 Bentonite: 3/8" HYR. BENT. CHIPS
 Depth: 0 - 8.0
 Cement: NONE
 Depth: -
 Other:

Remarks

Construction Time Log

Activity	Start	End
Drilling:		
<u>5-18-10</u>	<u>9:25</u>	<u>11:00</u>
Casing:		
<u>5-18-10</u>	<u>11:00</u>	<u>11:45</u>

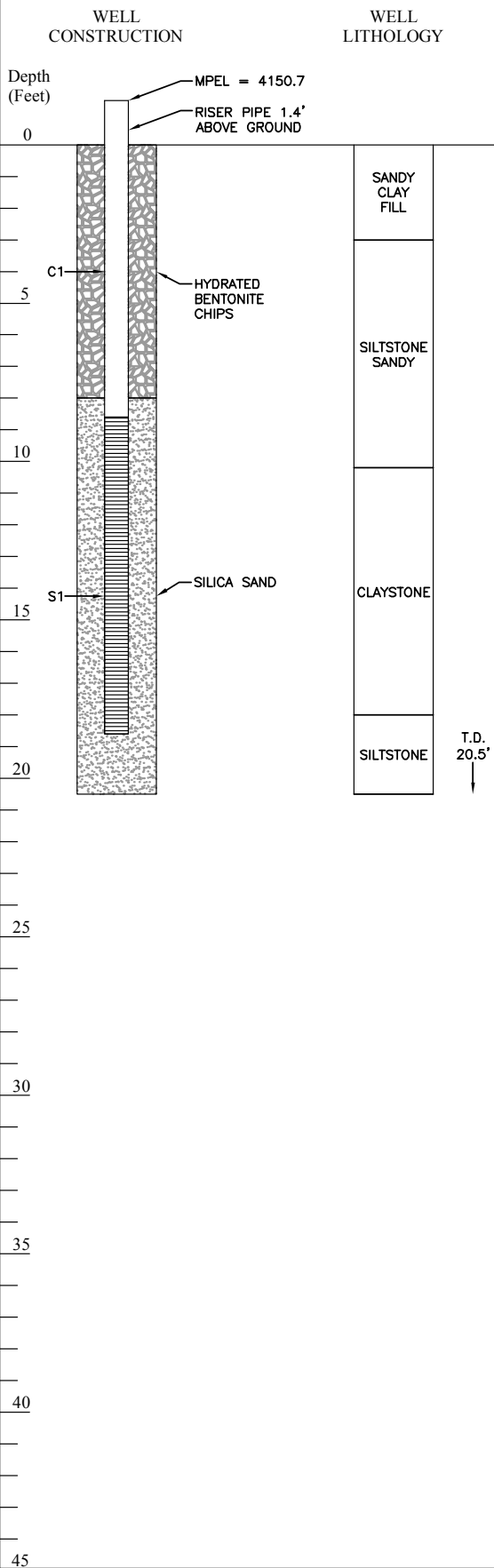
Abandoned

Date: _____
 Method: _____



Well Construction Summary

Client: STRATA ENERGY
 Project: PROPOSED PLANT SITE GROUNDWATER Well: SA43-18-2
 Location: N 4,935,505 E 504,326.1 GRD EL 4149.3
 Projection UTM ZONE 13 NAD 27
NE/4, SE/4, Section 18 T. 53 N. R. 67 W.
 Geologist: MIKE WOLF WY PG #614



Drilling Summary

Total Depth: 20.5
 Hole Dia.: 8"
 Driller: BILL CAMERON
TERRACON
 Rig: CME55 HIGH TORQUE
 Bit(s): HOLLOW STEM AUGER
4 1/2 INCH I.D.
 Fluid: NONE
 Casing: FLUSH THREAD 2" PVC

Well Development

DRY AFTER COMPLETION

Well Data

Casing: C=Casing S=Screen
 C1 +1.4- 8.6 | S1 -8.6 -18.6
 Monument or Surface Casing: NONE
 Centralizer: NONE
 Casing C1: 2" SCH 40 PVC - FLUSH THREAD
 Screen S1: 2" FACTORY SLOTTED 0.010" SLOT
 Filter Pack: 10/20 COLORADO SILICA SAND
 Depth: 8.0 - 18.6
 Bentonite: 3/8" HYR. BENT. CHIPS
 Depth: 0 - 8.0
 Cement: NONE
 Depth: -
 Other:

Remarks

Construction Time Log

Activity	Start	End
Drilling:		
<u>5-18-10</u>	<u>7:48</u>	<u>8:30</u>
Casing:		
<u>5-18-10</u>	<u>8:30</u>	<u>9:15</u>

Abandoned

Date: _____
 Method: _____



ENGINEERING HYDROLOGY AND HYDROGEOLOGY

LOG OF BOREHOLE		BOREHOLE # SA 43-18-3		Page 1 of 2		
PROJECT: Proposed Plant Site Geotech (Berger)		DRILLER: Bill Cameron Terracon		DATE: 5-18-10		
CLIENT/LOCATION: Strata Energy NESE Section 18, T53N, R67W		RIG: CME-55 High Torque		START: 12:10		
GROUND ELEVATION: 4132.9		BIT(S): Hollow-Stem Auger		FINISH: 14:45		
COORDINATES: N: 4,935,886 E: 504,364.1 UTM Zone 13 NAD 27		FLUID: None		TOTAL DEPTH: 27.0'		
SURVEYED: Yes GPS		LOG BY: M. Wolf – WYPG #614		HOLE DIAMETER: 8"		
DEPTH		DESCRIPTION OF MATERIALS (ASTM D2488)	ASTM D2487	BPF ASTM D1586	SWL	TEST, SAMPLES, OR NOTES
From	To		SYMBOL			
0	1	Silty clay; dark brown, very cohesive, roots	CL			
1	2.5	SPT (1/3/8) recovered 2.0'		11		
		Clay; brown-grey, silty, very cohesive	CL			
4	5.5	CAL (3/5/6) recovered 3 good rings		11		
		Silty sand; yellow-brown, laminated, soft	SM			
9	10.5	CAL (2/5/9) 4 good rings		14		
		Clay; olive brown, silty, very cohesive	CL			
10.5	13	SPT (3/4/8) recovered 1.8'		12		
		Clays; olive brown, moist, very cohesive	CL			
14	15.5	CAL (3/15/9) recovered		13		
14	15	Clay; dark brown-olive	CL			
15	15.5	Sand with few rock fragments, wet	SP			
15.5	17.0	SPT (3/4/5) recovered 2.0'		9		
		Sandy clay with rock fragments, wet	SC			
19	20.5	CAL (3/4/6) recovered 3 rings		10		
		Clayey sand; brown, small rock fragments	SC			
20.5	23	SPT (3/5/6) recovered 1.5'		11		
		Clayey sand; very soft, few pebbles	SC			
24	25.5	CAL (1/5/10) no good rings. Put 2 poor rings in bag!		15		Bag with rings
		Interbedded heaving sand and pebble gravels, loose	SP/SW			
25.5	27.0	SPT (5/10/17)		27		
25.5	26.2	Sand; brown, very fine grained, salt and pepper, few small rock fragments, wet, very soft	SP			Loose
26.2	27.0	Claystone; brown, very cohesive, very firm	CL			Firm- "Bedrock"

ABBREVIATIONS

SWL – Static Water Level
ST – Shelby Tube Sample
GS – Geochemical Sample
O - Petroleum Odor

DBS – Disturbed Bulk Sample
REF – Refusal
SPT – Standard Penetration Test with
Split Barrel Sample (ASTM D-1586)

CAL – California Tube Sample
ZP – Ziplock Bag Sample
LA – Laboratory Analysis
PID – Instrument Response

LOG OF BOREHOLE		BOREHOLE # SA 43-18-3		Page 1 of 2			
PROJECT: Proposed Plant Site Geotech (Berger)		DRILLER: Bill Cameron Terracon		DATE: 5-18-10			
CLIENT/LOCATION: Strata Energy NESE Section 18, T53N, R67W		RIG: CME-55 High Torque		START: 12:10			
GROUND ELEVATION: 4132.9		BIT(S): Hollow-Stem Auger		FINISH: 14:45			
COORDINATES:		FLUID: None		TOTAL DEPTH: 27.0'			
N: 4,935,886 E: 504,364.1		LOG BY: M. Wolf – WYPG #614		HOLE DIAMETER: 8"			
UTM Zone 13 NAD 27							
SURVEYED: Yes GPS							
DEPTH		DESCRIPTION OF MATERIALS (ASTM D2488)		ASTM	BPF	SWL	TEST, SAMPLES, OR NOTES
From	To			D2487 SYMBOL	ASTM D1586		

ABBREVIATIONS

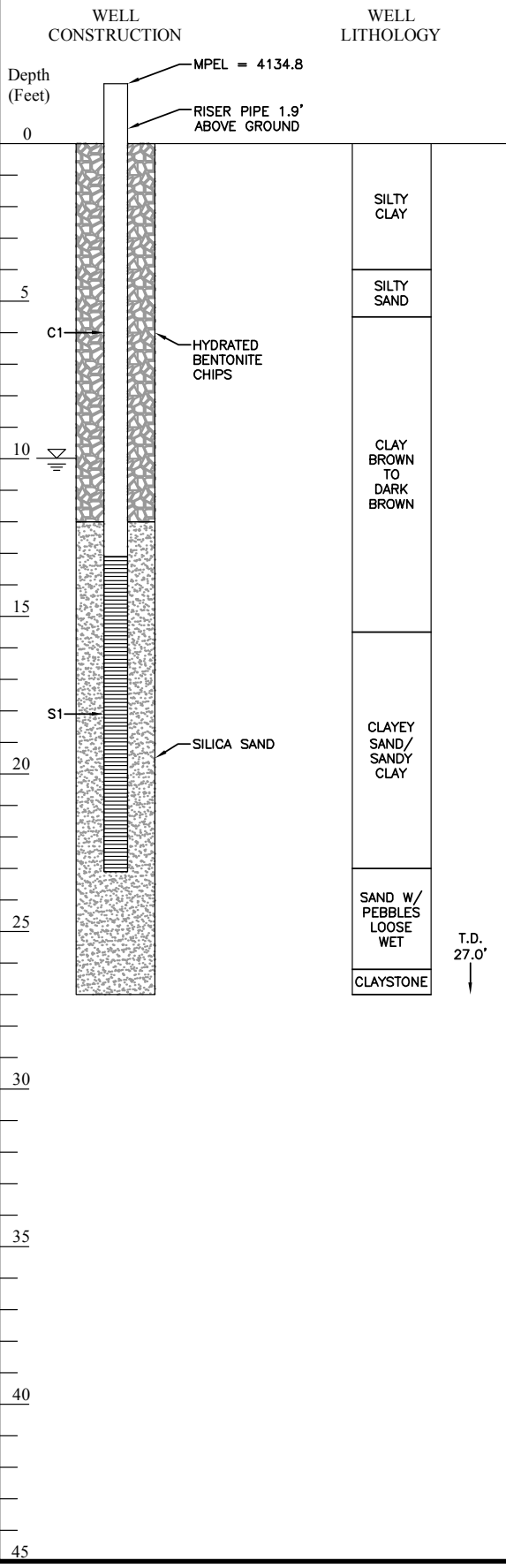
SWL – Static Water Level
ST – Shelby Tube Sample
GS – Geochemical Sample
O - Petroleum Odor

DBS – Disturbed Bulk Sample
REF – Refusal
SPT – Standard Penetration Test with
Split Barrel Sample (ASTM D-1586)

CAL – California Tube Sample
ZP – Ziplock Bag Sample
LA – Laboratory Analysis
PID – Instrument Response

Well Construction Summary

Client: STRATA ENERGY
 Project: PROPOSED PLANT SITE GROUNDWATER Well: SA43-18-3
 Location: N 4,935,886 E 504,364.1 GRD EL 4132.9
 Projection UTM ZONE 13 NAD 27
NE/4, SE/4, Section 18 T. 53 N. R. 67 W.
 Geologist: MIKE WOLF WY PG #614



Drilling Summary

Total Depth: 27.0
 Hole Dia.: 8"
 Driller: BILL CAMERON
TERRACON
 Rig: CME55 HIGH TORQUE
 Bit(s): HOLLOW STEM AUGER
4 1/2 INCH I.D.
 Fluid: NONE
 Casing: FLUSH THREAD 2" PVC

Well Development

DTW AFTER DRILLING
 5-18-10 @ 14:30 = 11.85 BTOC
 5-19-10 @ 9:45 = 11.89 BTOC

Well Data

Casing: C=Casing S=Screen
 C1 +1.9 - 13.1 | S1 -13.1 -23.1
 Monument or Surface Casing:
NONE
 Centralizer:
NONE
 Casing C1:
2" SCH 40 PVC - FLUSH THREAD
 Screen S1:
2" FACTORY SLOTTED 0.010" SLOT
 Filter Pack:
10/20 COLORADO SILICA SAND
 Depth: 12.0 - 23.1

Bentonite:
3/8" HYR. BENT. CHIPS
 Depth: 0 - 12.0
 Cement:
NONE
 Depth: -
 Other:

Construction Time Log

	Start	End
Drilling:		
<u>5-18-10</u>	<u>12:10</u>	<u>13:15</u>
Casing:		
<u>5-18-10</u>	<u>13:15</u>	<u>14:45</u>

Remarks

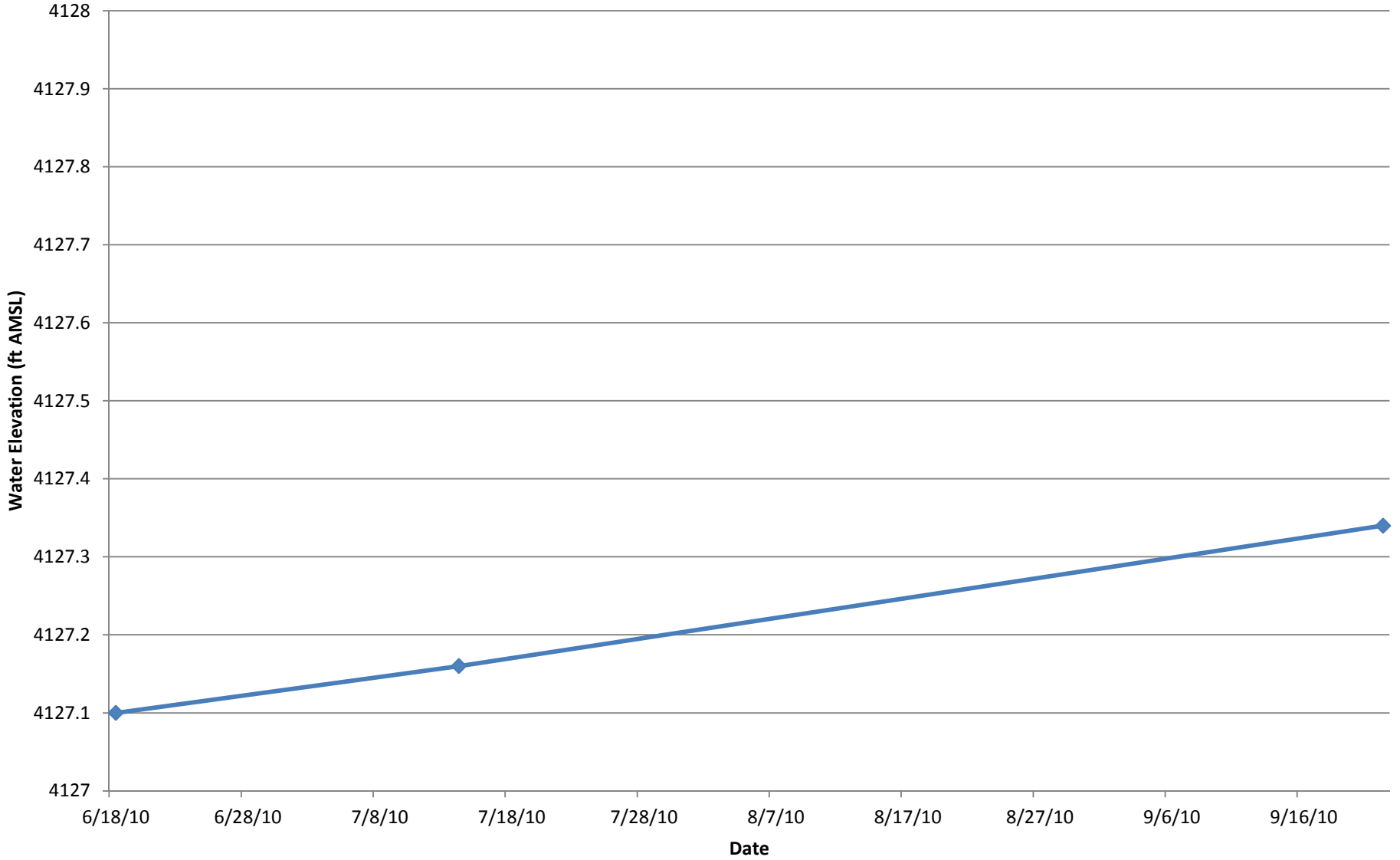
Abandoned

Date: _____
 Method: _____

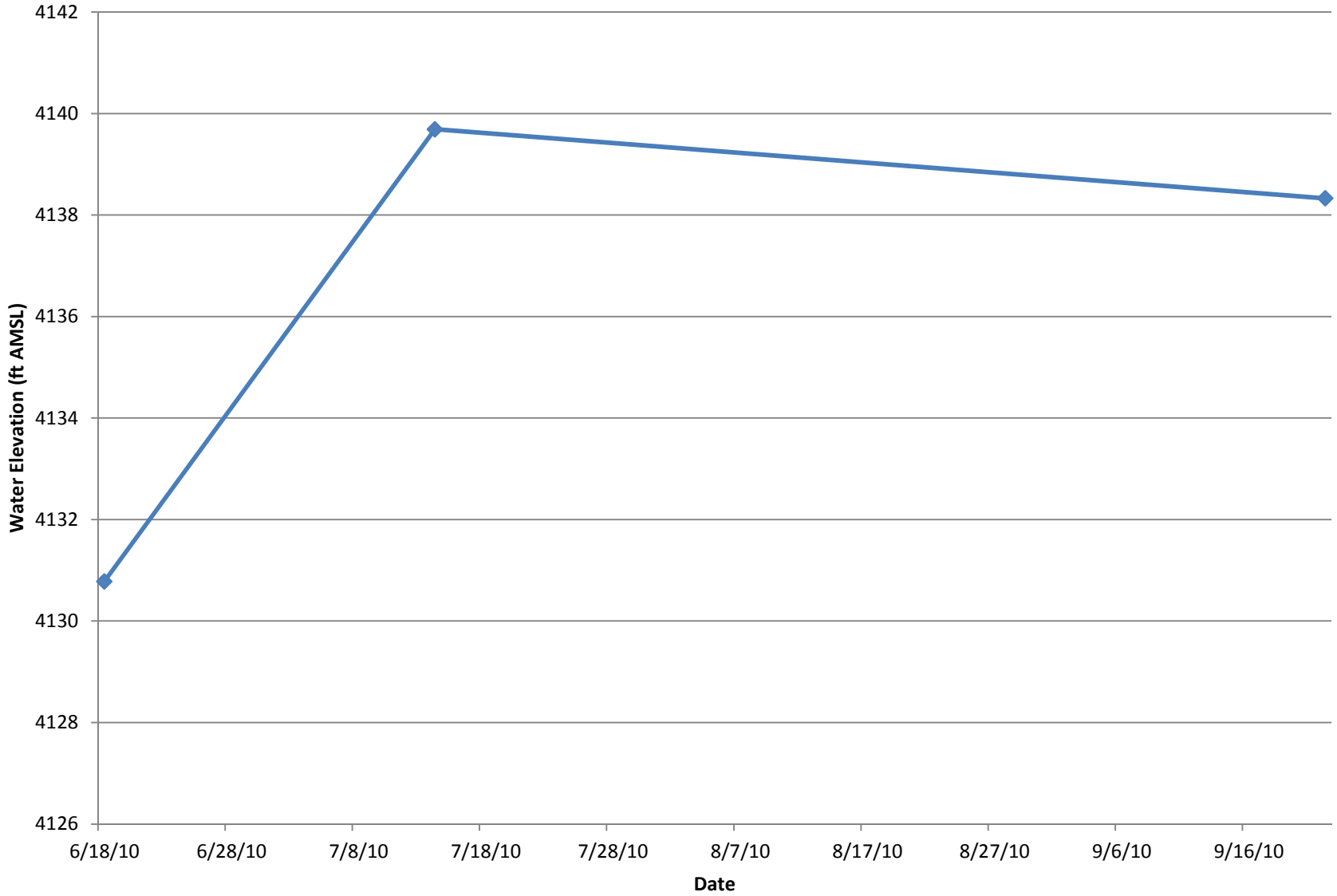


APPENDIX B

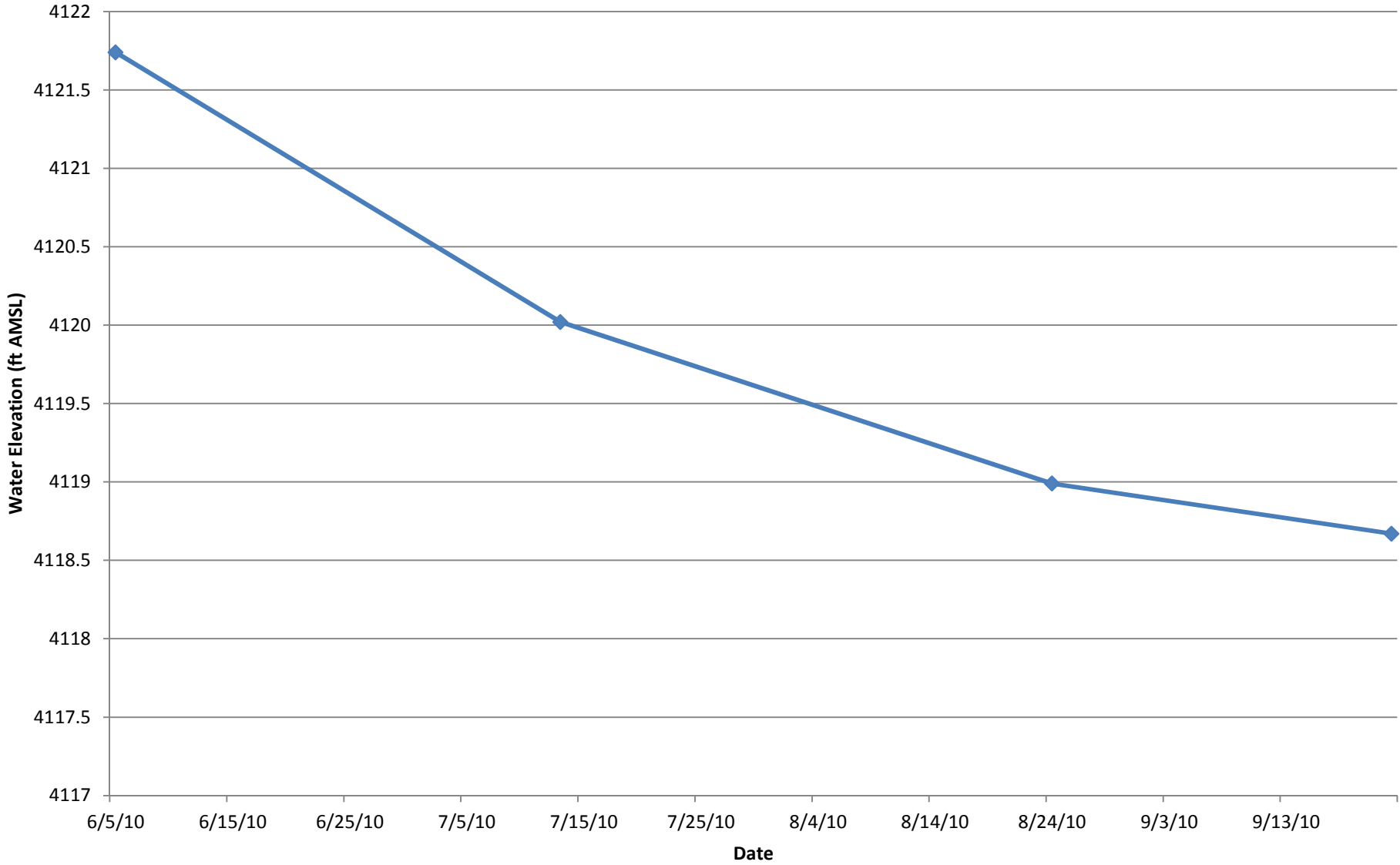
SA43-18-1



SA43-18-2



SA43-18-3



APPENDIX C

ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT WWC Engineering JOB NO. 2137-65

BORING NO. 43-18-3 DATE SAMPLED

DEPTH 4.0-5.5' DATE TESTED 06/05/10 LB

SAMPLE NO. CAL-4T2

SOIL DESCR. 2009142.16

LOCATION Strata Energy

Plastic Limit
Determination

	1	2	3
Wt Dish & Wet Soil	6.52	6.55	6.56
Wt Dish & Dry Soil	5.84	5.86	5.85
Wt of Moisture	0.68	0.69	0.70
Wt of Dish	1.17	1.14	1.16
Wt of Dry Soil	4.67	4.72	4.69
Moisture Content	14.51	14.57	15.01

Liquid Limit
Determination

Device Number 0860

	1	2	3	4
Number of Blows	34	24	28	23
Wt Dish & Wet Soil	14.23	12.94	10.96	12.02
Wt Dish & Dry Soil	10.44	9.36	8.04	8.73
Wt of Moisture	3.79	3.58	2.92	3.29
Wt of Dish	1.14	1.15	1.12	1.12
Wt of Dry Soil	9.30	8.22	6.92	7.61
Moisture Content	40.69	43.51	42.18	43.18

Liquid Limit 42.9
Plastic Limit 14.7
Plasticity Index 28.2

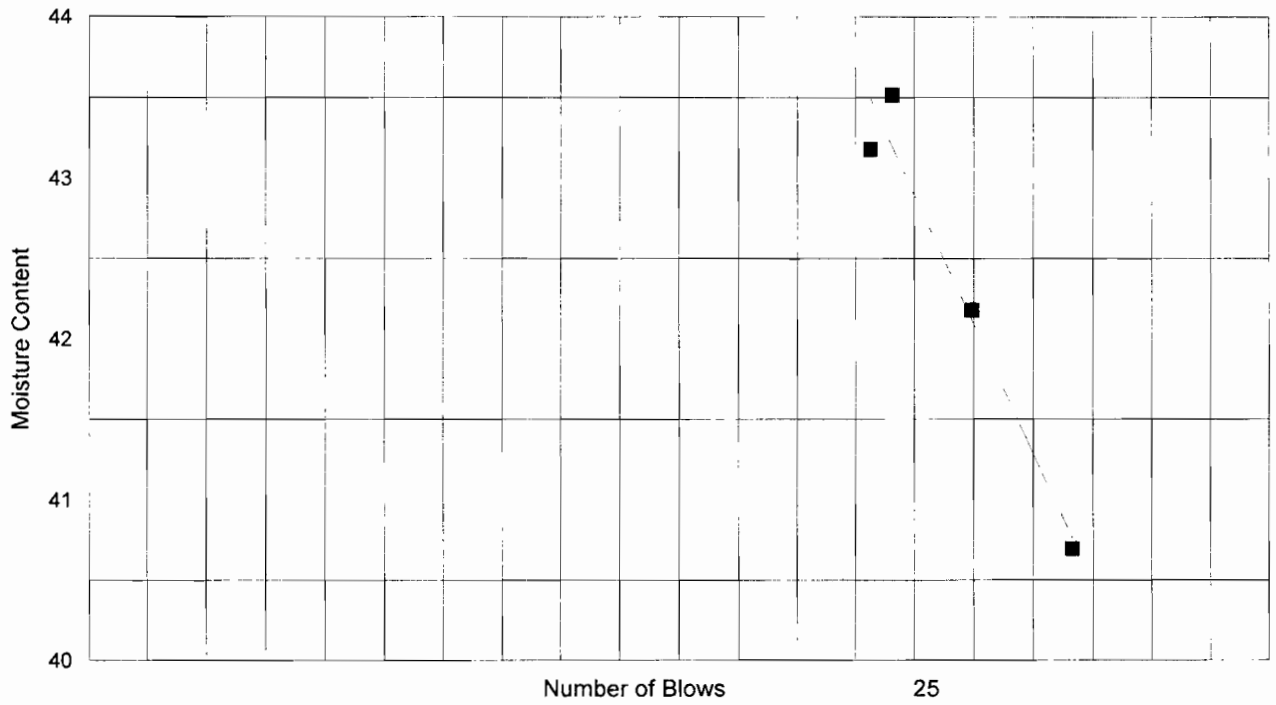
Atterberg Classification CL

Data entry by: LB Date: 06/08/2010
Checked by: ce Date: 6/8/10
FileName: WSG0TTEN



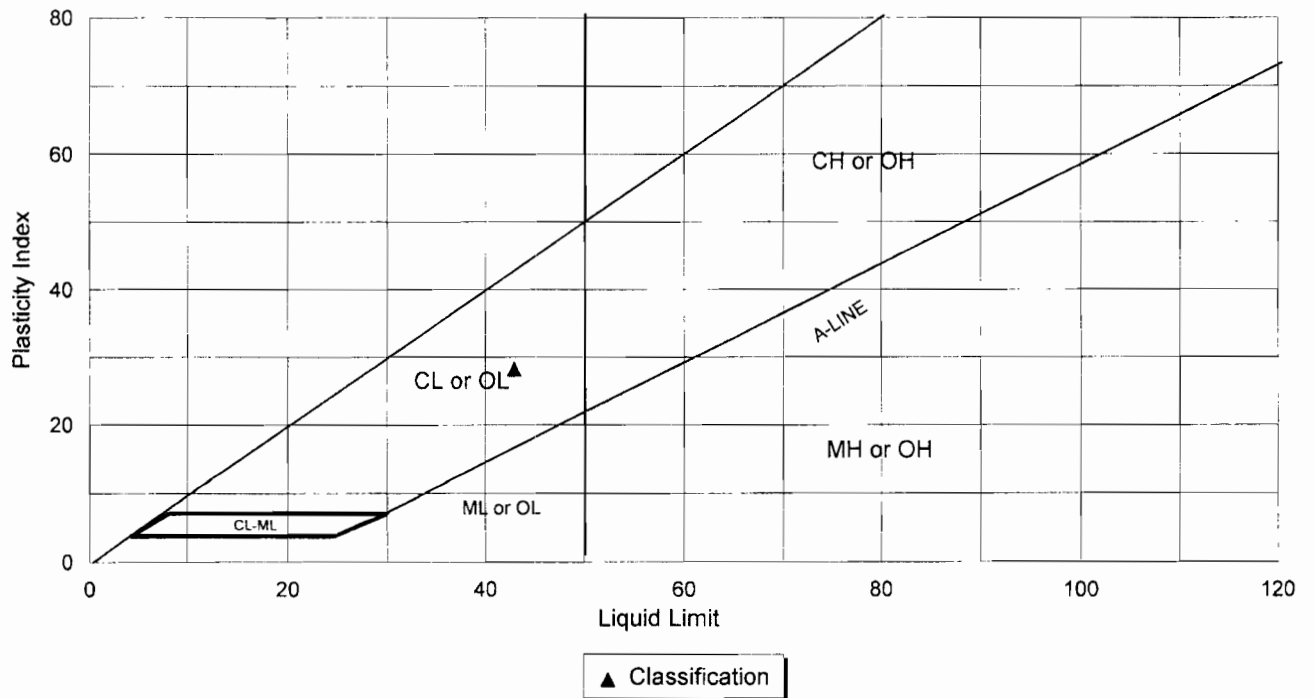
Atterberg Limits, Flow Curve

43-18-3, 4.0-5.5', CAL-4T2



PLASTICITY CHART

43-18-3, 4.0-5.5', CAL-4T2



**MECHANICAL ANALYSIS - SIEVE TEST DATA - ASTM D 1140
MOISTURE AND DENSITY DETERMINATIONS - ASTM D 2216 & ASTM D 2937**

CLIENT **WWC Engineering**

JOB NO. **2137-65**

BORING NO. **43-18-3**
 DEPTH **4.0-5.5'**
 SAMPLE NO. **CAL-4T2**
 SOIL DESCR. **200142.2**
 LOCATION **Strata Energy**

SAMPLED
 DATE TESTED **06/03/10 PW**
 WASH SIEVE **Yes**
 DRY SIEVE **No**

WASH SIEVE ANALYSIS

Wt. Wet Soil & Pan Before Washing (g)	147.1
Wt. Dry Soil & Pan Before Washing (g)	118.5
Weight of Pan (g)	4.4
Wt. of Dry Soil Before Washing	114.1
Wt. Dry Soil & Pan After Washing (g)	9.8
Wt. of Dry Soil After Washing (g)	5.4
-#200 Wash. Out %	95.3

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
#200	4.42	9.78	5.36	5.36	4.7	95.3

Data entered by: LB
 Data checked by: ae
 FileName: WSS0RATB

Date: 06/08/2010
 Date: 6/8/10



PERMEABILITY TEST - BACK PRESSURE SATURATED - FLOW PUMP METHOD
ASTM D 5084

CLIENT WWC Engineering

JOB NO. 2137-65

BORING NO. 43-18-3
DEPTH 4.0-5.5'
SAMPLE NO. CAL-4T2
SOIL DESCR. 2009142.16
LOCATION Strata Energy
CONF. PRES. PSF 720

SAMPLED
TEST STARTED 05/28/10 CAL
TEST FINISHED 06/02/10 CAL
CELL NUMBER 2P
SATURATED TEST Yes
TEST TYPE TX/Pbp/Tap Water

MOISTURE/DENSITY DATA	BEFORE TEST	AFTER TEST
Wt. Soil + Moisture (g)	273.4	282.9
Wt. Wet Soil & Pan (g)	277.8	287.3
Wt. Dry Soil & Pan (g)	230.7	230.7
Wt. Lost Moisture (g)	47.1	56.7
Wt. of Pan Only (g)	4.4	4.4
Wt. of Dry Soil (g)	226.2	226.2
Moisture Content %	20.8	25.1
Wet Density PCF	121.8	127.3
Dry Density PCF	100.8	101.8
Init. Diameter (in)	1.902	(cm) 4.831
Init. Area (sq in)	2.841	(sq cm) 18.332
Init. Height (in)	3.009	(cm) 7.643
Vol. Bef. Consol. (cu ft)	0.00495	
Vol. After Consol. (cu ft)	0.00490	
Porosity %	40.85	

FLOW PUMP CALCULATIONS

Pump Setting (gear number)	11
Percentage of Pump setting	100
Q (cc/s)	5.35E-05
Height	2.984
Diameter	1.901
Pressure (psi)	1.133
Area after consol. (cm*cm)	18.304
Gradient	10.510
Permeability k (cm/s)	2.8E-07
Permeability k (m/s)	2.8E-09
Back Pressure (psi)	48.0
Cell Pressure (psi)	53.0
Ave. Effective Stress (psi)	4.434
Average temperature degree C:	24.7

Data entry by: LB Date: 06/04/2010
Checked by: cal Date: 6/04/10
FileName: WSP04318



TRIAXIAL COMPRESSION TEST DATA

CLIENT	WWC Engineering	JOB NO.	2137-65
BORING NO.	43-18-3	SAMPLED	
DEPTH	4.0-5.5'	TEST STARTED	05/28/10 CAL
SAMPLE NO.	CAL-4T2	TEST FINISHED	06/02/10 CAL
SOIL DESCR.	2009142.16	SETUP NO.	2P
LOCATION	Strata Energy	SATURATED TEST	Yes
CONF. PRES. PSF	720	TEST TYPE	TX/Pbp/Tap Water

SATURATION DATA

Cell Pres. (PSI)	Back Pres. (PSI)	Burette Reading (CC)		Pore Pressure (PSI)		Change	B
		Close	Open	Close	Open		
40.0	38.0	2.0	12.0				
50.0	48.0	10.1	11.4	38.6	47.6	9.0	0.90
60.0		11.6		48.6	58.3	9.7	0.97

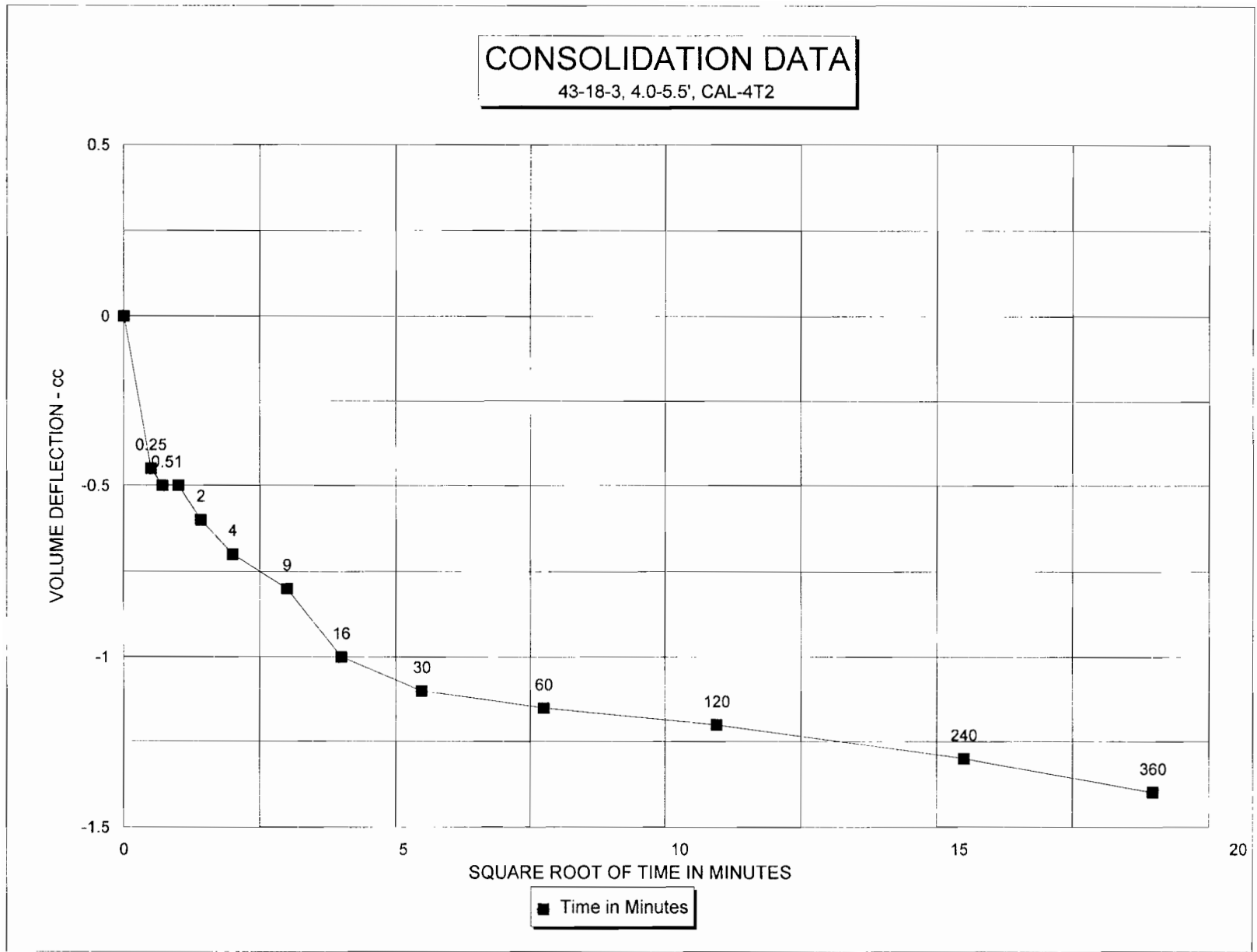
CONSOLIDATION DATA

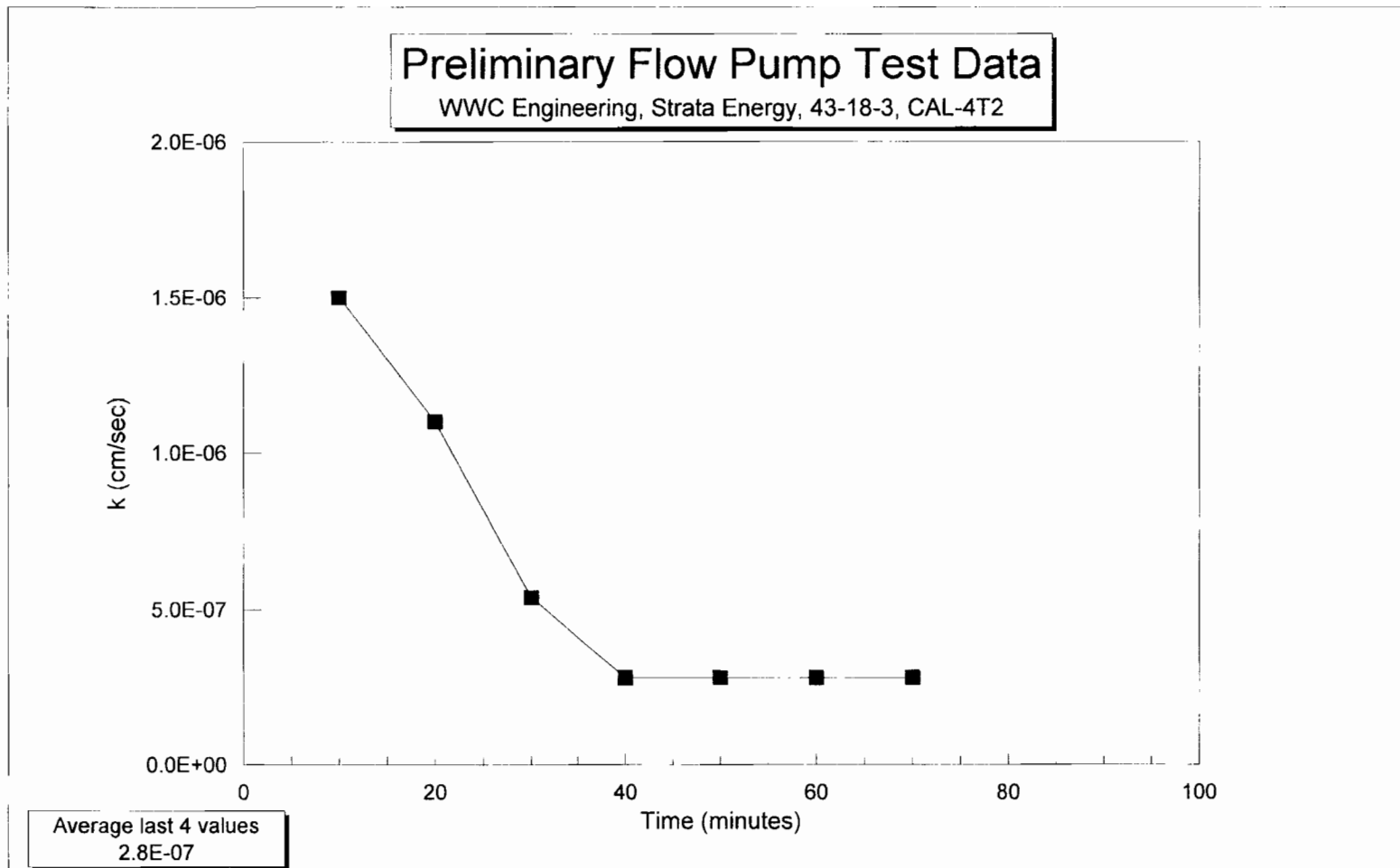
Elapsed Time (Min)	SQRT Time (Min)	Burette Reading (CC)	Volume Defl. (cc)
0.00	0.00	11.70	0.00
0.25	0.50	12.15	-0.45
0.5	0.71	12.20	-0.50
1	1.00	12.20	-0.50
2	1.41	12.30	-0.60
4	2.00	12.40	-0.70
9	3.00	12.50	-0.80
16	4.00	12.70	-1.00
30	5.48	12.80	-1.10
60	7.75	12.85	-1.15
120	10.95	12.90	-1.20
240	15.49	13.00	-1.30
360	18.97	13.10	-1.40

Initial Height (in)	3.009	Init. Vol. (CC)	140.12
Height Change (in)	0.025	Vol. Change (CC)	11.20
Ht. After Cons. (in)	2.984	Cell Exp. (CC)	9.83
Initial Area (sq in)	2.841	Net Change (CC)	1.37
Area After Cons. (sq in)	2.837	Cons. Vol. (CC)	138.75

Data entry by: LB Date: 06/04/2010
 Checked by: CAL Date: 6/4/10
 FileName: WSP04318







Data Entered By: CAL
Data Checked By: LB
File Name: WSFP4318

Date: 6-02-2010
Date Checked: 6-4-10



