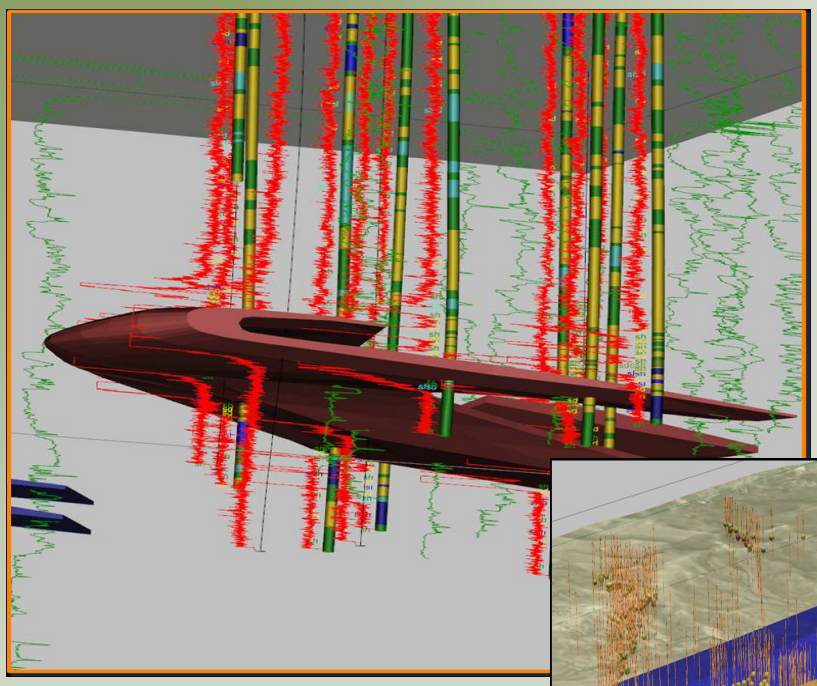
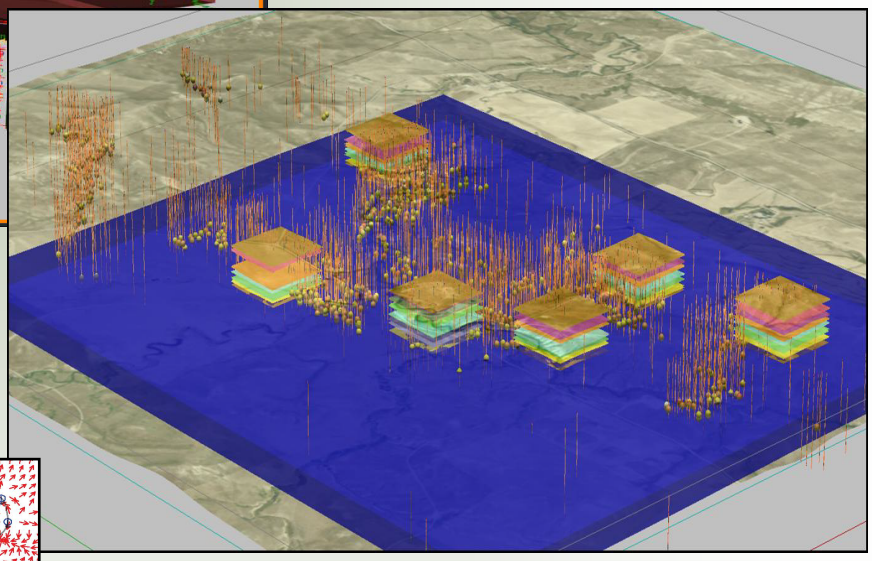
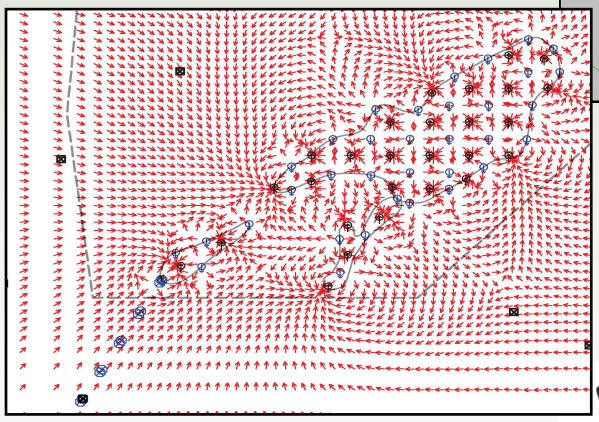
Ross ISR Project USNRC License Application
Crook County, Wyoming







December 2010

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

STRATA ENERGY

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 (4th 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

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
12-18DM	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

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
12-18OZ	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
12-18OZ	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
12-18OZ	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
12-18OZ	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
12-18OZ	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
12-18OZ	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
12-18OZ	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
12-18OZ	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

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

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
14-18OZ	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
14-18OZ	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
14-18OZ	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
14-18OZ	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
14-18OZ	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
14-18OZ	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
14-18OZ	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
14-18OZ	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
14-18OZ	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
14-18OZ	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
14-18OZ	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
14-18OZ	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
14-18OZ	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
14-18OZ	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
14-18OZ	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
14-18OZ	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
14-18OZ	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
14-18OZ	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
14-18OZ	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
14-18OZ	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
14-18OZ	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
14-18OZ	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
14-18OZ	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
14-18SA	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

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
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

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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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
21-19OZ	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

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

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

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
34-18SM	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

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
34-7OZ	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
34-7OZ	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
34-7OZ	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
34-7OZ	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
34-7OZ	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
34-7OZ	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
34-7OZ	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
34-7OZ	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
34-7OZ	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
34-7OZ	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
34-7OZ	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
34-7OZ	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
34-7OZ	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
34-7OZ	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
34-7OZ	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
34-7OZ	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
34-7OZ	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
34-7OZ	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
34-7OZ	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
34-7OZ	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
34-7OZ	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
34-7OZ	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
34-7OZ	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
34-7OZ	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
34-7OZ	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
34-7OZ	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
34-7OZ	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
34-7OZ	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
34-7OZ	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
34-7OZ	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
34-7OZ	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

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
34-7SA	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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
34-7SM	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

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

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
42-19SM	SM	3Q10	8/4/10	Gross Beta	6.900	pCi/l	6.9000	4.000	NA	NA	1481260.9	713131.7	260' - 290'	155.64	SM 7110B	IML
42-19SM	SM	3Q10	8/4/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1481260.9	713131.7	260' - 290'	155.64	OTW01	IML
42-19SM	SM	3Q10	8/4/10	Pb-210, S	<1	pCi/l	1.0000		1.E-08	NA	1481260.9	713131.7	260' - 290'	155.64	OTW01	IML
42-19SM	SM	3Q10	8/4/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1481260.9	713131.7	260' - 290'	155.64	OTW01	IML
42-19SM	SM	3Q10	8/4/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1481260.9	713131.7	260' - 290'	155.64	OTW01	IML
42-19SM	SM	3Q10	8/4/10	Ra-226, D	0.210	pCi/l	0.2000	0.080	6.E-08	2.10E-10	1481260.9	713131.7	260' - 290'	155.64	SM 7500-Ra B	IML
42-19SM	SM	3Q10	8/4/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1481260.9	713131.7	260' - 290'	155.64	SM 7500-Ra B	IML
42-19SM	SM	3Q10	8/4/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1481260.9	713131.7	260' - 290'	155.64	Ra-05	IML
42-19SM	SM	3Q10	8/4/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1481260.9	713131.7	260' - 290'	155.64	ACW10	IML
42-19SM	SM	3Q10	8/4/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1481260.9	713131.7	260' - 290'	155.64	ACW10	IML
42-19SM	SM	3Q10	8/4/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1481260.9	713131.7	260' - 290'	155.64	EPA 200.8	IML
42-19SM	SM	3Q10	8/4/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1481260.9	713131.7	260' - 290'	155.64	EPA 200.8	IML
42-19SM	SM	4Q10	10/5/10	Gross Alpha	2.800	pCi/l	2.0000	2.100	NA	NA	1481260.9	713131.7	260' - 290'	155.55	SM 7110B	IML
42-19SM	SM	4Q10	10/5/10	Gross Beta	6.000	pCi/l	3.0000	4.000	NA	NA	1481260.9	713131.7	260' - 290'	155.55	SM 7110B	IML
42-19SM	SM	4Q10	10/5/10	Ra-226, D	<0.2	pCi/l	0.2000		6.E-08	NA	1481260.9	713131.7	260' - 290'	155.55	SM 7500-Ra B	IML
42-19SM	SM	4Q10	10/5/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1481260.9	713131.7	260' - 290'	155.55	Ga-Tech	IML
42-19SM	SM	4Q10	10/5/10	U, D	<0.001	mg/l	0.0010		3.E-07	NA	1481260.9	713131.7	260' - 290'	155.55	EPA 200.8	IML
SA43-18-1	SA	2Q10	6/18/10	Gross Alpha	66.000	pCi/l	12.0000	12.000	NA	NA	1485568.4	713105.1	8.8' - 28.8'	20.88	SM 7110B	IML
SA43-18-1	SA	2Q10	6/18/10	Gross Beta	40.000	pCi/l	18.0000	11.000	NA	NA	1485568.4	713105.1	8.8' - 28.8'	20.88	SM 7110B	IML
SA43-18-1	SA	2Q10	6/18/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1485568.4	713105.1	8.8' - 28.8'	20.88	OTW01	IML
SA43-18-1	SA	2Q10	6/18/10	Pb-210, S	1.980	pCi/l	1.0000	0.500	1.E-08	1.98E-09	1485568.4	713105.1	8.8' - 28.8'	20.88	OTW01	IML
SA43-18-1	SA	2Q10	6/18/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1485568.4	713105.1	8.8' - 28.8'	20.88	OTW01	IML
SA43-18-1	SA	2Q10	6/18/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1485568.4	713105.1	8.8' - 28.8'	20.88	OTW01	IML
SA43-18-1	SA	2Q10	6/18/10	Ra-226, D	0.530	pCi/l	0.2000	0.110	6.E-08	5.30E-10	1485568.4	713105.1	8.8' - 28.8'	20.88	SM 7500-Ra B	IML
SA43-18-1	SA	2Q10	6/18/10	Ra-226, S	3.450	pCi/l	0.2000	0.220	6.E-08	3.45E-09	1485568.4	713105.1	8.8' - 28.8'	20.88	SM 7500-Ra B	IML
SA43-18-1	SA	2Q10	6/18/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1485568.4	713105.1	8.8' - 28.8'	20.88	Ra-05	IML
SA43-18-1	SA	2Q10	6/18/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1485568.4	713105.1	8.8' - 28.8'	20.88	ACW10	IML
SA43-18-1	SA	2Q10	6/18/10	Th-230, S	1.640	pCi/l	0.2000	0.360	1.E-07	1.64E-09	1485568.4	713105.1	8.8' - 28.8'	20.88	ACW10	IML
SA43-18-1	SA	2Q10	6/18/10	U, D	0.062	mg/l	0.0010		3.E-07	4.15E-08	1485568.4	713105.1	8.8' - 28.8'	20.88	EPA 200.8	IML
SA43-18-1	SA	2Q10	6/18/10	U, S	0.003	mg/l	0.0010		3.E-07	2.01E-09	1485568.4	713105.1	8.8' - 28.8'	20.88	EPA 200.8	IML
SA43-18-1	SA	3Q10	7/14/10	Gross Alpha	81.700	pCi/l	10.0000	12.600	NA	NA	1485568.4	713105.1	8.8' - 28.8'	20.82	SM 7110B	IML
SA43-18-1	SA	3Q10	9/22/10	Gross Alpha	83.700	pCi/l	2.0000	13.000	NA	NA	1485568.4	713105.1	8.8' - 28.8'	20.82	SM 7110B	IML
SA43-18-1	SA	3Q10	7/14/10	Gross Beta	63.300	pCi/l	17.0000	11.200	NA	NA	1485568.4	713105.1	8.8' - 28.8'	20.82	SM 7110B	IML
SA43-18-1	SA	3Q10	9/22/10	Gross Beta	46.600	pCi/l	3.0000	9.800	NA	NA	1485568.4	713105.1	8.8' - 28.8'	20.82	SM 7110B	IML
SA43-18-1	SA	3Q10	7/14/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1485568.4	713105.1	8.8' - 28.8'	20.82	OTW01	IML
SA43-18-1	SA	3Q10	7/14/10	Pb-210, S	4.100	pCi/l	1.0000	0.610	1.E-08	4.10E-09	1485568.4	713105.1	8.8' - 28.8'	20.82	OTW01	IML
SA43-18-1	SA	3Q10	7/14/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1485568.4	713105.1	8.8' - 28.8'	20.82	OTW01	IML
SA43-18-1	SA	3Q10	7/14/10	Po-210, S	2.090	pCi/l	1.0000	0.490	4.E-08	2.09E-09	1485568.4	713105.1	8.8' - 28.8'	20.82	OTW01	IML
SA43-18-1	SA	3Q10	7/14/10	Ra-226, D	0.300	pCi/l	0.2000	0.070	6.E-08	3.00E-10	1485568.4	713105.1	8.8' - 28.8'	20.82	SM 7500-Ra B	IML
SA43-18-1	SA	3Q10	9/22/10	Ra-226, D	0.700	pCi/l	0.2000	0.100	6.E-08	7.00E-10	1485568.4	713105.1	8.8' - 28.8'	20.82	SM 7500-Ra B	IML
SA43-18-1	SA	3Q10	7/14/10	Ra-226, S	<0.2	pCi/l	0.2000		6.E-08	NA	1485568.4	713105.1	8.8' - 28.8'	20.82	SM 7500-Ra B	IML
SA43-18-1	SA	3Q10	7/14/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1485568.4	713105.1	8.8' - 28.8'	20.82	Ra-05	IML
SA43-18-1	SA	3Q10	9/22/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1485568.4	713105.1	8.8' - 28.8'	20.82	Ra-05	IML
SA43-18-1	SA	3Q10	7/14/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1485568.4	713105.1	8.8' - 28.8'	20.82	ACW10	IML
SA43-18-1	SA	3Q10	7/14/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1485568.4	713105.1	8.8' - 28.8'	20.82	ACW10	IML
SA43-18-1	SA	3Q10	7/14/10	U, D	0.064	mg/l	0.0010		3.E-07	4.29E-08	1485568.4	713105.1	8.8' - 28.8'	20.82	EPA 200.8	IML
SA43-18-1	SA	3Q10	9/22/10	U, D	0.063	mg/l	0.0010		3.E-07	4.22E-08	1485568.4	713105.1	8.8' - 28.8'	20.82	EPA 200.8	IML
SA43-18-1	SA	3Q10	7/14/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1485568.4	713105.1	8.8' - 28.8'	20.82	EPA 200.8	IML
SA43-18-2	SA	3Q10	7/14/10	Gross Alpha	218.000	pCi/l	11.0000	20.000	NA	NA	1485026.2	713632.6	8.0' - 18.6'	11.02	SM 7110B	IML
SA43-18-2	SA	3Q10	9/22/10	Gross Alpha	115.000	pCi/l	2.0000	12.800	NA	NA	1485026.2	713632.6	8.0' - 18.6'	11.02	SM 7110B	IML
SA43-18-2	SA	3Q10	7/14/10	Gross Beta	137.000	pCi/l	18.0000	13.000	NA	NA	1485026.2	713632.6	8.0' - 18.6'	11.02	SM 7110B	IML
SA43-18-2	SA	3Q10	9/22/10	Gross Beta	83.700	pCi/l	3.0000	10.500	NA	NA	1485026.2	713632.6	8.0' - 18.6'	11.02	SM 7110B	IML
SA43-18-2	SA	3Q10	7/14/10	Pb-210, D	<1	pCi/l	1.0000		1.E-08	NA	1485026.2	713632.6	8.0' - 18.6'	11.02	OTW01	IML
SA43-18-2	SA	3Q10	7/14/10	Pb-210, S	2.330	pCi/l	1.0000	0.450	1.E-08	2.33E-09	1485026.2	713632.6	8.0' - 18.6'	11.02	OTW01	IML
SA43-18-2	SA	3Q10	7/14/10	Po-210, D	<1	pCi/l	1.0000		4.E-08	NA	1485026.2	713632.6	8.0' - 18.6'	11.02	OTW01	IML
SA43-18-2	SA	3Q10	7/14/10	Po-210, S	<1	pCi/l	1.0000		4.E-08	NA	1485026.2	713632.6	8.0' - 18.6'	11.02	OTW01	IML
SA43-18-2	SA	3Q10	7/14/10	Ra-226, D	0.450	pCi/l	0.2000	0.080	6.E-08	4.50E-10	1485026.2	713632.6	8.0' - 18.6'	11.02	SM 7500-Ra B	IML
SA43-18-2	SA	3Q10	9/22/10	Ra-226, D	0.500	pCi/l	0.2000	0.100	6.E-08	5.00E-10	1485026.2	713632.6	8.0' - 18.6'	11.02	SM 7500-Ra B	IML
SA43-18-2	SA	3Q10	7/14/10	Ra-226, S	0.860	pCi/l	0.2000	0.120	6.E-08	8.60E-10	1485026.2	713632.6	8.0' - 18.6'	11.02	SM 7500-Ra B	IML
SA43-18-2	SA	3Q10	7/14/10	Ra-228, D	<1	pCi/l	1.0000		6.E-08	NA	1485026.2	713632.6	8.0' - 18.6'	11.02	Ra-05	IML
SA43-18-2	SA	3Q10	9/22/10	Ra-228, D	2.500	pCi/l	1.0000	0.800	6.E-08	2.50E-09	1485026.2	713632.6	8.0' - 18.6'	11.02	Ra-05	IML
SA43-18-2	SA	3Q10	7/14/10	Th-230, D	<0.2	pCi/l	0.2000		1.E-07	NA	1485026.2	713632.6	8.0' - 18.6'	11.02	ACW10	IML
SA43-18-2	SA	3Q10	7/14/10	Th-230, S	<0.2	pCi/l	0.2000		1.E-07	NA	1485026.2	713632.6	8.0' - 18.6'	11.02	ACW10	IML
SA43-18-2	SA	3Q10	7/14/10	U, D	0.264	mg/l	0.0010		3.E-07	1.77E-07	1485026.2	713632.6	8.0' - 18.6'	11.02	EPA 200.8	IML
SA43-18-2	SA	3Q10	9/22/10	U, D	0.146	mg/l	0.0010		3.E-07	9.78E-08	1485026.2	713632.6	8.0' - 18.6'	11.02	EPA 200.8	IML
SA43-18-2	SA	3Q10	7/14/10	U, S	<0.001	mg/l	0.0010		3.E-07	NA	1485026.2	713632.6	8.0' - 18.6'	11.02	EPA 200.8	IML

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

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

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
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 MPC (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

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
DWWELL01	1Q10	1/22/10	Gross Beta	<10.2	pCi/l	10.200		NA	NA	44.58007	-104.93779	Unk	Unk	SM 7110B	Domestic	IML
DWWELL01	1Q10	1/22/10	Ra-226, D	0.3	pCi/l	0.200	0.090	6.E-08	3.E-10	44.58007	-104.93779	Unk	Unk	SM 7500-Ra B	Domestic	IML
DWWELL01	1Q10	1/22/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.58007	-104.93779	Unk	Unk	Ra-05	Domestic	IML
DWWELL01	1Q10	1/22/10	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.58007	-104.93779	Unk	Unk	EPA 200.8	Domestic	IML
DWWELL01	2Q10	5/13/10	Gross Alpha	12	pCi/l	2.000	3.800	NA	NA	44.58007	-104.93779	Unk	Unk	SM 7110B	Domestic	IML
DWWELL01	2Q10	5/13/10	Gross Beta	10.5	pCi/l	4.800	4.600	NA	NA	44.58007	-104.93779	Unk	Unk	SM 7110B	Domestic	IML
DWWELL01	2Q10	5/13/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.58007	-104.93779	Unk	Unk	OTW01	Domestic	IML
DWWELL01	2Q10	5/13/10	Pb-210, S	1.78	pCi/l	1.000	0.750	1.E-08	2.E-09	44.58007	-104.93779	Unk	Unk	OTW01	Domestic	IML
DWWELL01	2Q10	5/13/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.58007	-104.93779	Unk	Unk	OTW01	Domestic	IML
DWWELL01	2Q10	5/13/10	Po-210, S	9.2	pCi/l	1.000	0.550	4.E-08	9.E-09	44.58007	-104.93779	Unk	Unk	OTW01	Domestic	IML
DWWELL01	2Q10	5/13/10	Ra-226, D	0.37	pCi/l	0.200	0.080	6.E-08	4.E-10	44.58007	-104.93779	Unk	Unk	SM 7500-Ra B	Domestic	IML
DWWELL01	2Q10	5/13/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.58007	-104.93779	Unk	Unk	SM 7500-Ra B	Domestic	IML
DWWELL01	2Q10	5/13/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.58007	-104.93779	Unk	Unk	Ra-05	Domestic	IML
DWWELL01	2Q10	5/13/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.58007	-104.93779	Unk	Unk	ACW10	Domestic	IML
DWWELL01	2Q10	5/13/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.58007	-104.93779	Unk	Unk	ACW10	Domestic	IML
DWWELL01	2Q10	5/13/10	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.58007	-104.93779	Unk	Unk	EPA 200.8	Domestic	IML
DWWELL01	2Q10	5/13/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.58007	-104.93779	Unk	Unk	EPA 200.8	Domestic	IML
DWWELL01	3Q09	8/27/09	Gross Alpha	10.7	pCi/l	2.000	2.800	NA	NA	44.58007	-104.93779	Unk	Unk	SM 7110B	Domestic	IML
DWWELL01	3Q09	8/27/09	Gross Beta	6.7	pCi/l	3.000	3.700	NA	NA	44.58007	-104.93779	Unk	Unk	SM 7110B	Domestic	IML
DWWELL01	3Q09	8/27/09	Ra-226, D	0.35	pCi/l	0.200	0.250	6.E-08	4.E-10	44.58007	-104.93779	Unk	Unk	SM 7500-Ra B	Domestic	IML
DWWELL01	3Q09	8/27/09	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.58007	-104.93779	Unk	Unk	Ra-05	Domestic	IML
DWWELL01	3Q09	8/27/09	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.58007	-104.93779	Unk	Unk	EPA 200.8	Domestic	IML
DWWELL01	3Q10	7/22/10	Gross Alpha	12.6	pCi/l	3.300	3.000	NA	NA	44.58007	-104.93779	Unk	Unk	SM 7110B	Domestic	IML
DWWELL01	3Q10	7/22/10	Gross Beta	7.71	pCi/l	7.000	4.120	NA	NA	44.58007	-104.93779	Unk	Unk	SM 7110B	Domestic	IML
DWWELL01	3Q10	7/22/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.58007	-104.93779	Unk	Unk	OTW01	Domestic	IML
DWWELL01	3Q10	7/22/10	Pb-210, S	1.21	pCi/l	1.000	0.380	1.E-08	1.E-09	44.58007	-104.93779	Unk	Unk	OTW01	Domestic	IML
DWWELL01	3Q10	7/22/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.58007	-104.93779	Unk	Unk	OTW01	Domestic	IML
DWWELL01	3Q10	7/22/10	Po-210, S	8.91	pCi/l	1.000	1.040	4.E-08	9.E-09	44.58007	-104.93779	Unk	Unk	OTW01	Domestic	IML
DWWELL01	3Q10	7/22/10	Ra-226, D	0.21	pCi/l	0.200	0.070	6.E-08	2.E-10	44.58007	-104.93779	Unk	Unk	SM 7500-Ra B	Domestic	IML
DWWELL01	3Q10	7/22/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.58007	-104.93779	Unk	Unk	SM 7500-Ra B	Domestic	IML
DWWELL01	3Q10	7/22/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.58007	-104.93779	Unk	Unk	Ra-05	Domestic	IML
DWWELL01	3Q10	7/22/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.58007	-104.93779	Unk	Unk	ACW10	Domestic	IML
DWWELL01	3Q10	7/22/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.58007	-104.93779	Unk	Unk	ACW10	Domestic	IML
DWWELL01	3Q10	7/22/10	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.58007	-104.93779	Unk	Unk	EPA 200.8	Domestic	IML
DWWELL01	3Q10	7/22/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.58007	-104.93779	Unk	Unk	EPA 200.8	Domestic	IML
DWWELL01	4Q09	10/21/09	Gross Alpha	17.3	pCi/l	2.000	3.300	NA	NA	44.58007	-104.93779	Unk	Unk	SM 7110B	Domestic	IML
DWWELL01	4Q09	10/21/09	Gross Beta	11.8	pCi/l	4.020	3.800	NA	NA	44.58007	-104.93779	Unk	Unk	SM 7110B	Domestic	IML
DWWELL01	4Q09	10/21/09	Ra-226, D	<0.2	pCi/l	0.200		6.E-08	NA	44.58007	-104.93779	Unk	Unk	SM 7500-Ra B	Domestic	IML
DWWELL01	4Q09	10/21/09	Ra-228, D	2.84	pCi/l	1.000	0.940	6.E-08	3.E-09	44.58007	-104.93779	Unk	Unk	Ra-05	Domestic	IML
DWWELL01	4Q09	10/21/09	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.58007	-104.93779	Unk	Unk	EPA 200.8	Domestic	IML
DWWELL01	4Q10	10/4/10	Gross Alpha	11.7	pCi/l	2.000	3.100	NA	NA	44.58007	-104.93779	Unk	Unk	SM 7110B	Domestic	IML
DWWELL01	4Q10	10/4/10	Gross Beta	7.2	pCi/l	3.000	3.600	NA	NA	44.58007	-104.93779	Unk	Unk	SM 7110B	Domestic	IML
DWWELL01	4Q10	10/4/10	Ra-226, D	0.4	pCi/l	0.200	0.100	6.E-08	4.E-10	44.58007	-104.93779	Unk	Unk	SM 7500-Ra B	Domestic	IML
DWWELL01	4Q10	10/4/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.58007	-104.93779	Unk	Unk	Ra-05	Domestic	IML
DWWELL01	4Q10	10/4/10	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.58007	-104.93779	Unk	Unk	EPA 200.8	Domestic	IML
HBWELL01	3Q09	8/3/09	Gross Alpha	5.8	pCi/l	2.000	1.500	NA	NA	44.61296	-104.94615	207	41.3	SM 7110B	Stock well	IML
HBWELL01	3Q09	8/3/09	Gross Beta	12.2	pCi/l	3.000	2.100	NA	NA	44.61296	-104.94615	207	41.3	SM 7110B	Stock well	IML
HBWELL01	3Q09	8/3/09	Ra-226, D	0.27	pCi/l	0.200	0.220	6.E-08	3.E-10	44.61296	-104.94615	207	41.3	SM 7500-Ra B	Stock well	IML
HBWELL01	3Q09	8/3/09	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.61296	-104.94615	207	41.3	Ra-05	Stock well	IML
HBWELL01	3Q09	8/3/09	U, D	0.01	mg/l	0.001		3.E-07	7.E-09	44.61296	-104.94615	207	41.3	EPA 200.8	Stock well	IML
HBWELL03	1Q10	1/28/10	Gross Alpha	7	pCi/l	2.000	1.800	NA	NA	44.60206	-104.94049	160	Unk	SM 7110B	Stock well	IML
HBWELL03	1Q10	1/28/10	Gross Beta	11.2	pCi/l	3.000	2.100	NA	NA	44.60206	-104.94049	160	Unk	SM 7110B	Stock well	IML
HBWELL03	1Q10	1/28/10	Ra-226, D	0.85	pCi/l	0.200	0.120	6.E-08	9.E-10	44.60206	-104.94049	160	Unk	SM 7500-Ra B	Stock well	IML
HBWELL03	1Q10	1/28/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.60206	-104.94049	160	Unk	Ra-05	Stock well	IML
HBWELL03	1Q10	1/28/10	U, D	0.005	mg/l	0.001		3.E-07	3.E-09	44.60206	-104.94049	160	Unk	EPA 200.8	Stock well	IML
HBWELL03	2Q10	5/14/10	Gross Alpha	7.1	pCi/l	2.000	2.700	NA	NA	44.60206	-104.94049	160	Unk	SM 7110B	Stock well	IML
HBWELL03	2Q10	5/14/10	Gross Beta	11.5	pCi/l	3.900	3.700	NA	NA	44.60206	-104.94049	160	Unk	SM 7110B	Stock well	IML
HBWELL03	2Q10	5/14/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.60206	-104.94049	160	Unk	OTW01	Stock well	IML

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

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
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

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

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

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

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
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

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, D	<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

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

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
TWWELL03	3Q10	7/28/10	Gross Alpha	<3.1	pCi/l	3.100		NA	NA	44.58689	-104.966111	Unk	Unk	SM 7110B	Stock well	IML
TWWELL03	3Q10	7/28/10	Gross Beta	<6.7	pCi/l	6.700		NA	NA	44.58689	-104.966111	Unk	Unk	SM 7110B	Stock well	IML
TWWELL03	3Q10	7/28/10	Pb-210, D	<1	pCi/l	1.000		1.E-08	NA	44.58689	-104.966111	Unk	Unk	OTW01	Stock well	IML
TWWELL03	3Q10	7/28/10	Pb-210, S	<1	pCi/l	1.000		1.E-08	NA	44.58689	-104.966111	Unk	Unk	OTW01	Stock well	IML
TWWELL03	3Q10	7/28/10	Po-210, D	<1	pCi/l	1.000		4.E-08	NA	44.58689	-104.966111	Unk	Unk	OTW01	Stock well	IML
TWWELL03	3Q10	7/28/10	Po-210, S	<1	pCi/l	1.000		4.E-08	NA	44.58689	-104.966111	Unk	Unk	OTW01	Stock well	IML
TWWELL03	3Q10	7/28/10	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
TWWELL03	3Q10	7/28/10	Ra-226, S	<0.2	pCi/l	0.200		6.E-08	NA	44.58689	-104.966111	Unk	Unk	SM 7500-Ra B	Stock well	IML
TWWELL03	3Q10	7/28/10	Ra-228, D	<1	pCi/l	1.000		6.E-08	NA	44.58689	-104.966111	Unk	Unk	Ra-05	Stock well	IML
TWWELL03	3Q10	7/28/10	Th-230, D	<0.2	pCi/l	0.200		1.E-07	NA	44.58689	-104.966111	Unk	Unk	ACW10	Stock well	IML
TWWELL03	3Q10	7/28/10	Th-230, S	<0.2	pCi/l	0.200		1.E-07	NA	44.58689	-104.966111	Unk	Unk	ACW10	Stock well	IML
TWWELL03	3Q10	7/28/10	U, D	<0.001	mg/l	0.001		3.E-07	NA	44.58689	-104.966111	Unk	Unk	EPA 200.8	Stock well	IML
TWWELL03	3Q10	7/28/10	U, S	<0.001	mg/l	0.001		3.E-07	NA	44.58689	-104.966111	Unk	Unk	EPA 200.8	Stock well	IML
TWWELL03	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
TWWELL03	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
TWWELL03	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
TWWELL03	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
TWWELL03	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

*D, Dissolved; S, Suspended

SURFACE WATER

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 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

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 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

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 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														

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-Sed **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 **% 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 -

131168

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

Client Name	Project Identification	Sampler (Signature/Printed)	Telephone #
WWC/Strata	ROSS	Rod Fuller	

Report Address	Contact Name	Email	Phone
WWC	Rod Fuller	WWC	

Invoice Address	Purchase Order #	Quote #
WWC		

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	URANIUM (T)	THORIUM 230	RADIUM 226	LEAD 210	GROSS ALFA				REMARKS
1		8-25-10	0800	SW-1-SED	SL	1	✓	✓	✓	✓	✓				
2				OSHOTO-RES-SED											
3		8-25-10	1000	~~SW-3-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															

ANALYSES / PARAMETERS

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
KB 16.7 C°	Rod Fuller	8-25-10	1616	Kathy Bapp	8/25/10	16:17

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) - 672-8945

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/1/2010
Report ID: S1008487002
(Replaces S1008487001)
Work Order: S1008487
Collection Date: 8/25/2010 8:00:00 AM
Date Received: 8/26/2010
Sampler: Rod Fuller
Matrix: Soil

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

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/1/2010
Report ID: S1008487002
(Replaces S1008487001)
Work Order: S1008487
Collection Date: 8/25/2010 10:00:00 AM
Date Received: 8/26/2010
Sampler: Rod Fuller
Matrix: Soil

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

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/1/2010
Report ID: S1008487002
(Replaces S1008487001)
Work Order: S1008487
Collection Date: 8/25/2010 10:20:00 AM
Date Received: 8/26/2010
Sampler: Rod Fuller
Matrix: Soil

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

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/1/2010
Report ID: S1008487002
(Replaces S1008487001)
Work Order: S1008487
Collection Date: 8/25/2010 11:00:00 AM
Date Received: 8/26/2010
Sampler: Rod Fuller
Matrix: Soil

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

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

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

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				

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 Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

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

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

ANALYTICAL QC SUMMARY REPORT

Date: 10/27/2010

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

Report ID: S1008487001

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				

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	

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 Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

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				

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
50
TR Addendum 2.9-C

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division
Fort Collins, Colorado

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

10-26-10
Date

Radiochemistry Final Data Reviewer

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

1109445

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

Relinquished by: Kathy Bahr
Date/Time: 9/28/10 14:50
Received by Lab: Kristin Schmidt
Date/Time: 9/30/10 1210

CHAIN OF CUSTODY RECORD

Indicate Client is: Western Water

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

P. O.: 2376666

	Sample ID	IML Lab Number	Sample Date	Sample Time	Number of Containers	Sample Matrix	Analysis
1	RAD Veg #6 SW	S1008430-001	8/24/2010	15:35	1	water	**Thorium 230 Total**
2	RAD Veg #7 NE	S1008430-002	8/24/2010	14:10	1	water	**for all samples**
3	RAD Veg #8 NW	S1008430-003	8/24/2010	14:55	1	water	
4	RAD Veg #10 NE	S1008430-004	8/24/2010	15:30	1	water	
5	RAD Veg #11 NE	S1008430-005	8/24/2010	15:15	1	water	
6	RAD Veg #12 SW	S1008430-006	8/24/2010	15:35	1	water	
7	SW-1-SED	S1008487-001	8/25/2010	8:00	1	water	
8	Oshoto-RES-S	S1008487-002	8/25/2010	10:00	1	water	
9	SW-2-SED	S1008487-003	8/25/2010	10:20	1	water	
10	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	(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:** ____ < green pea ____ > 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 #:	1							
Temperature (°C):	Amb							
No. of custody seals on cooler:	Ø							
DOT Survey/ Acceptance Information — External µR/hr reading:	13							
Background µR/hr reading:	11							

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

Form 201r22.xls (6/1/09)

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
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	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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

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

Work Order: S1008050
Project:
Collection Date: 4/5/2010
Lab ID: S1008050-001
Date Received: 8/4/2010
Client Sample ID: Met Filter 1st Qtr Composite
Sampler:
Comment: Digest All Filters Into One Extract
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

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

Work Order: S1008050
Project:
Collection Date: 4/5/2010
Lab ID: S1008050-002
Date Received: 8/4/2010
Client Sample ID: Southwest Filter 1st Qtr Composite
Sampler:
Comment: Digest All Filters Into One Extract
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

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

Work Order: S1008050
Project:
Collection Date: 4/5/2010
Lab ID: S1008050-003
Date Received: 8/4/2010
Client Sample ID: South Filter 1st Qtr Compoiste
Sampler:
Comment: Digest All Filters Into One Extract
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

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

Work Order: S1008050
Project:
Collection Date: 4/5/2010
Lab ID: S1008050-004
Date Received: 8/4/2010
Client Sample ID: East Filter 1st Qtr Composite
Sampler:
Comment: Digest All Filters Into One Extract
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

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

Work Order: S1008050
Project:
Collection Date: 4/5/2010
Lab ID: S1008050-005
Date Received: 8/4/2010
Client Sample ID: Office Filter 1st Qtr Composite
Sampler:
Comment: Digest All Filters Into One Extract
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

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

Work Order: S1008050
Project:
Collection Date: 7/9/2010
Lab ID: S1008050-006
Date Received: 8/4/2010
Client Sample ID: Met Filter 2nd Qtr Composite
Sampler:
Comment: Digest All Filters Into One Extract
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

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

Work Order: S1008050
Project:
Collection Date: 7/9/2010
Lab ID: S1008050-007
Date Received: 8/4/2010
Client Sample ID: Southwest Filter 2nd Qtr Composite
Sampler:
Comment: Digest All Filters Into One Extract
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

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

Work Order: S1008050
Project:
Collection Date: 7/9/2010
Lab ID: S1008050-008
Date Received: 8/4/2010
Client Sample ID: South Filter 2nd Qtr Composite
Sampler:
Comment: Digest All Filters Into One Extract
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

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

Work Order: S1008050
Project:
Collection Date: 7/9/2010
Lab ID: S1008050-009
Date Received: 8/4/2010
Client Sample ID: East Filter 2nd Qtr Composite
Sampler:
Comment: Digest All Filters Into One Extract
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

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

Work Order: S1008050
Project:
Collection Date: 7/9/2010
Lab ID: S1008050-010
Date Received: 8/4/2010
Client Sample ID: Office Filter 2nd Qtr Composite
Sampler:
Comment: Digest All Filters Into One Extract
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

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**

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Enviromental Monitoring Partner

Ross ISR Project

ANALYTICAL QC SUMMARY REPORT

Date: 12/23/2010

CLIENT: Western Water Consultants
Work Order: S1008050
Project:

Report ID: S1008050001

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: **lcs**	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				

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	

76

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				

Ross ISR Project

ANALYTICAL QC SUMMARY REPORT

Date: 12/23/2010

CLIENT: Western Water Consultants
Work Order: S1008050
Project:

Report ID: S1008050001

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*

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

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

Work Order: S1010161
Project:
Collection Date: 10/8/2010
Lab ID: S1010161-001
Date Received: 10/13/2010
Client Sample ID: Office
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

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

Work Order: S1010161
Project:
Collection Date: 10/8/2010
Lab ID: S1010161-002
Date Received: 10/13/2010
Client Sample ID: Met Station
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

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

Work Order: S1010161
Project:
Collection Date: 10/8/2010
Lab ID: S1010161-003
Date Received: 10/13/2010
Client Sample ID: Southwest
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

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

Work Order: S1010161
Project:
Collection Date: 10/8/2010
Lab ID: S1010161-004
Date Received: 10/13/2010
Client Sample ID: South
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

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

Work Order: S1010161
Project:
Collection Date: 10/8/2010
Lab ID: S1010161-005
Date Received: 10/13/2010
Client Sample ID: East
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

Inter-Mountain Labs

Your Enviromental Monitoring Partner

1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

ANALYTICAL QC SUMMARY REPORT

Date: 12/23/2010

CLIENT: Western Water Consultants

Report ID: S1010161001

Work Order: S1010161

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: **lcs**	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				

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	

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

98

TR Addendum 2.9-C

ANALYTICAL QC SUMMARY REPORT

Date: 12/23/2010

CLIENT: Western Water Consultants
Work Order: S1010161
Project:

Report ID: S1010161001

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				

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				

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

ANALYTICAL QC SUMMARY REPORT

Date: 12/23/2010

CLIENT: Western Water Consultants
Work Order: S1010161
Project:

Report ID: S1010161001

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				

99

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				

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	⑤	⑥	⑦	⑧

RESULTS RELATED ONLY TO MONITORS AS RECEIVED BY LANDAUER.

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

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	
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	
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	A21888	24-MAY-10	30-APR-10

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	
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-OSHOTO	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	
①	②	③	④		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

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	
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

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	
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	⑤	⑥	⑦	⑧

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

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	⑥	⑦ ⑧

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

PAGE 2 OF 2

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

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		

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Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

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Ross ISR Project 110 TR Addendum 2.9-C

Client Name	Project Identification	Sampler (Signature/Printed)	Telephone #
SENES/BKS Environmental	#614 WWC Radiological Sampling	Jacob Mulinix /Jacob Mulinix	307-686-0800

Report Address	Contact Name and Email
Lisa Manglass - SENES - 8310 South Valley Hwy Suite 300 Englewood, CO 80112	Jacob Mulinix Jmulinix@bksenvironmental.com Voice 307-686-0800 FAX
Invoice Address	**Purchase Order #** / **Quote #**
Ben Schiffer - WWC Engineering 1849 Terra Ave. Sheridan, WY 82801	

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	U-Nat	Ra-226	Th-230	Pb-210	Gross Alpha				REMARKS
							ANALYSES / PARAMETERS								
1	S10064891	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
	Jacob Mulinix /Jacob Mulinix	6/21	3:00 PM	Alice K. McKee	6-22-10	1500 MST
				Kirsten Secor	6/25/10	

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

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Sheridan, WY and Gillette, WY

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Client Name	Project Identification	Sampler (Signature/Printed)	Telephone #
SENES/BKS Environmental	#614 WWC Radiological Sampling	Jacob Mulinix /Jacob Mulinix	307-686-0800

Report Address	Contact Name and Email
Lisa Manglass - SENES - 8310 South Valley Hwy Suite 300 Englewood, CO 80112	Jacob Mulinix Jmulinix@bksenvironmental.com Voice 307-686-0800 FAX
Invoice Address	**Purchase Order #** / **Quote #**
Ben Schiffer - WWC Engineering 1849 Terra Ave. Sheridan, WY 82801	

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	U-Nat	Ra-226	Th-230	Pb-210	Gross Alpha				REMARKS
							ANALYSES / PARAMETERS								
1	S1006489	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
	Jacob Mulinix /Jacob Mulinix	6/21	3:00 PM	Alice K. McNeil KS	6-22-10 / 6/25/10	1500

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

Ross ISR Project 111 TR Addendum 2.9-C

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Ross ISR Project

Client Name	Project Identification	Sampler (Signature/Printed)	Telephone #
SENES/BKS Environmental	#614 WWC Radiological Sampling	Jacob Mulinix /Jacob Mulinix	307-686-0800

Report Address	Contact Name and Email	Purchase Order #	Quote #
Lisa Manglass - SENES - 8310 South Valley Hwy Suite 300 Englewood, CO 80112	Jacob Mulinix Jmulinix@bksenvironmental.com Voice 307-686-0800 FAX		
Invoice Address			
Ben Schiffer - WWC Engineering 1849 Terra Ave. Sheridan, WY 82801			

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	U-Nat	Ra-226	Th-230	Pb-210	Gross Alpha				REMARKS
							ANALYSES / PARAMETERS								
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	34	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)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
	Jacob Mulinix /Jacob Mulinix	6/21	3:00PM	Alice A. McNeil WS	6-22-10	1500
					6/25/10	

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

112

TR Addendum 2.9-C

Inter-Mountain Laboratories, Inc. *Rev 4.3*

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3

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

- CHAIN OF CUSTODY RECORD -

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Client Name	Project Identification	Sampler (Signature/Printed)	Telephone #
SENES/BKS Environmental	#614 WWC Radiological Sampling	Jacob Mulinix /Jacob Mulinix	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

Invoice Address: Ben Schiffer - WWC Engineering, 1849 Terra Ave. Sheridan, WY 82801

Purchase Order #:

Quote #:

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	U-Nat	Ra-226	Th-230	Pb-210	Gross Alpha				REMARKS
							ANALYSES / PARAMETERS								
1	S1006489	6-10-10	4:50 PM	RP-11 0-5	Soil	1		X			X				
2	44	6-21-10	2:15 PM	RP-12 0-30	Soil	1		X			X				
3	45	6-21-10	2:15 PM	RP-12 30-60	Soil	1		X			X				
4	46	6-21-10	2:15 PM	RP-12 60-100	Soil	1		X			X				
5	47	6-21-10	2:15 PM	RP-12 0-15	Soil	1	X	X			X				
6	48	6-21-10	2:15 PM	RP-12 0-5	Soil	1		X			X				
7	49	6-21-10	4:50 PM	RP-13 0-30	Soil	1		X			X				
8	50	6-21-10	4:50 PM	RP-13 30-60	Soil	1		X			X				
9	51	6-21-10	4:50 PM	RP-13 60-100	Soil	1		X			X				
10	52	6-21-10	4:50 PM	RP-13 0-15	Soil	1	X	X			X				
11	53	6-21-10	4:50 PM	RP-13 0-5	Soil	1	X	X	X	X	X				
12	54	6-21-10	11:00 AM	RP-14 0-30	Soil	1	X	X	X	X	X				
13	55	6-21-10	11:00 AM	RP-14 30-60	Soil	1	X	X	X	X	X				
14	56	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
	Jacob Mulinix /Jacob Mulinix	6/21	3:00PM	Alice A McNeil WS	6-22-10	1500
					6/25/10	

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

4

Ross ISR Project 113 TR Addendum 2.9-C

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Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

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Client Name	Project Identification	Sampler (Signature/Printed)	Telephone #
SENES/BKS Environmental	#614 WWC Radiological Sampling	Jacob Mulinix /Jacob Mulinix	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

Invoice Address: Ben Schiffer - WWC Engineering, 1849 Terra Ave. Sheridan, WY 82801

Purchase Order #:

Quote #:

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	U-Nat	Ra-226	Th-230	Pb-210	Gross Alpha				REMARKS
1	S10006489	6-21-10	11:00 AM	RP-14 0-15	Soil	1	X	X			X				
2	58	6-21-10	11:00 AM	RP-14 0-5	Soil	1		X			X				
3	59	6-21-10	3:30 PM	RP-19 0-30	Soil	1		X			X				
4	60	6-21-10	3:30 PM	RP-19 30-60	Soil	1		X			X				
5	61	6-21-10	3:30 PM	RP-19 60-100	Soil	1		X			X				
6	62	6-21-10	3:30 PM	RP-19 0-15	Soil	1	X	X			X				
7	63	6-21-10	3:30 PM	RP-19 0-5	Soil	1		X			X				
8	64	6-21-10	4:00 PM	RP-20 0-30	Soil	1		X			X				
9	65	6-21-10	4:00 PM	RP-20 30-60	Soil	1		X			X				
10	66	6-21-10	4:00 PM	RP-20 60-100	Soil	1		X			X				
11	67	6-21-10	4:00 PM	RP-20 0-15	Soil	1	X	X			X				
12	68	6-10-10	4:00 PM	RS-1 0-15	Soil	1	X	X			X				
13	69	6-10-10	4:15 PM	RS-2 0-15	Soil	1	X	X			X				
14	70	6-10-10	3:30 PM	RS-3 0-15	Soil	1	X	X	X	X	X				

ANALYSES / PARAMETERS

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
	Jacob Mulinix /Jacob Mulinix	6/21	3:00PM	Alice O. McNeil KS	6-22-10 6/25/10	1500

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

Ross ISR Project 114 TR Addendum 2.9-C

5

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Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

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WEB

Client Name	Project Identification	Sampler (Signature/Printed)	Telephone #
SENES/BKS Environmental	#614 WWC Radiological Sampling	/Jacob Mulinix	307-686-0800

Report Address	Contact Name and Email
Lisa Manglass - SENES - 8310 South Valley Hwy Suite 300 Englewood, CO 80112	Jacob Mulinix Jmulinix@bksenvironmental.com Voice 307-686-0800 FAX
Invoice Address	**Purchase Order #** / **Quote #**
Ben Schiffer - WWC Engineering 1849 Terra Ave. Sheridan, WY 82801	

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	U-Nat	Ra-226	Th-230	Pb-210	Gross Alpha				REMARKS
							ANALYSES / PARAMETERS								
1	S1004489	6-10-10	11:15 AM	RS-4 0-15	Soil	1	X	X			X				
2	72	6-10-10	4:20 PM	RS-5 0-15	Soil	1	X	X			X				
3	73	6-10-10	4:45 PM	RS-6 0-15	Soil	1	X	X			X				
4	74	6-21-10	10:00 AM	RS-7 0-15	Soil	1	X	X			X				
5	75	6-21-10	2:00 PM	RS-8 0-15	Soil	1	X	X			X				
6	76	6-21-10	10:20 AM	RS-9 0-15	Soil	1	X	X	X	X	X				
7	77	6-21-10	10:30 AM	RS-10 0-15	Soil	1	X	X			X				
8	78	6-21-10	10:40 AM	RS-11 0-15	Soil	1	X	X			X				
9	79	6-21-10	1:30 PM	RS-12 0-15	Soil	1	X	X	X	X	X				
10	80	6-21-10	12:30 PM	RS-13 0-15	Soil	1	X	X			X				
11	81	6-21-10	12:45 PM	RS-14 0-15	Soil	1	X	X	X	X	X				
12	82	6-10-10	11:15 AM	RS-15 0-15	Soil	1	X	X			X				
13	83	6-10-10	11:15 AM	RS-15 0-5	Soil	1		X			X				
14	84	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
	/Jacob Mulinix	6/21	3:00pm		6-22-10	1500
					6/25/10	

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

Inter-Mountain Laboratories, Inc. Rev 4.3

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Ross ISR Project 115 TR Addendum 2.9-C

6

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Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

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Client Name	Project Identification	Sampler (Signature/Printed)	Telephone #
SENES/BKS Environmental	#614 WWC Radiological Sampling	Jacob Mulinix /Jacob Mulinix	307-686-0800

Report Address	Contact Name and Email	Invoice Address	Purchase Order #	Quote #
Lisa Manglass - SENES - 8310 South Valley Hwy Suite 300 Englewood, CO 80112	Jacob Mulinix Jmulinix@bksenvironmental.com Voice 307-686-0800 FAX	Ben Schiffer - WWC Engineering 1849 Terra Ave. Sheridan, WY 82801		

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	U-Nat	Ra-226	Th-230	Pb-210	Gross Alpha				REMARKS
1	S1000489	6-10-10	11:45 AM	RS-17 0-15	Soil	1	X	X			X				
2	86	6-10-10	11:45 AM	RS-17 0-5	Soil	1		X			X				
3	87	6-10-10	12:25 PM	RS-18 0-15	Soil	1	X	X			X				
4	88	6-10-10	12:25 PM	RS-18 0-5	Soil	1		X			X				
5	89	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															

ANALYSES / PARAMETERS

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
	Jacob Mulinix /Jacob Mulinix	6/21	3:00PM	Alicia K. McNeil LS	6-22-10	1500
					6/25/10	

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

Ross ISR Project 116 TR Addendum 2.9-C

7

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

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 Uranium mg/Kg 200.8	Gross Alpha pCi/g SM 7110	Lead 210 pCi/g OTW01	Radium 226 pCi/g SM 7500	Thorium 230 pCi/g 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	

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= 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, Assistant Laboratory Manager

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Ross ISR Project

118

TR Addendum 2.9-C

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 Uranium mg/Kg 200.8	Gross Alpha pCi/g SM 7110	Lead 210 pCi/g OTW01	Radium 226 pCi/g SM 7500	Thorium 230 pCi/g 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, H20Sol= 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, Assistant Laboratory Manager

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Ross ISR Project

119

TR Addendum 2.9-C

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 Uranium mg/Kg 200.8	Gross Alpha pCi/g SM 7110	Lead 210 pCi/g OTW01	Radium 226 pCi/g SM 7500	Thorium 230 pCi/g 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, H20Sol= 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, Assistant Laboratory Manager

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Ross ISR Project

120

TR Addendum 2.9-C

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 Uranium mg/Kg 200.8	Gross Alpha pCi/g SM 7110	Lead 210 pCi/g OTW01	Radium 226 pCi/g SM 7500	Thorium 230 pCi/g 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, H20Sol= 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, Assistant Laboratory Manager

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1673 Terra Avenue, Sheridan, Wyoming 82801
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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	Total Uranium	Gross Alpha	Lead 210	Radium 226	Thorium 230
			mg/Kg	pCi/g	pCi/g	pCi/g	pCi/g
		cm	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, H20Sol= 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, Assistant Laboratory Manager

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

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

Ross ISR Project
122
TR Addendum 2.9-C

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

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

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
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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

Ross ISR Project
124
TR Addendum 2.9-C

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
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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

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

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

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
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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

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

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

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
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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

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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

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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

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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

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132
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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

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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				

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

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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

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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

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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

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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

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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

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

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

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

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**	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: **lcs**	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: **lcs**	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: **lcs**	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

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

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**	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

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

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

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division
Fort Collins, Colorado

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	

1008346

Sent 8/24/10

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

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 (1)	S1006489-001	6/21/2010		1	water	**Total Thorium 230**
RP-1 (2)	S1006489-002	6/21/2010		1	water	
RP-1 (3)	S1006489-003	6/21/2010		1	water	
RP-1 (4)	S1006489-004	6/21/2010		1	water	
RP-2 (5)	S1006489-008	6/21/2010		1	water	
RP-3 (6)	S1006489-012	6/10/2010		1	water	
RP-4 (7)	S1006489-016	6/10/2010		1	water	
RP-5 (8)	S1006489-020	6/10/2010		1	water	
RP-6 (9)	S1006489-021	6/10/2010		1	water	
RP-6 (10)	S1006489-022	6/10/2010		1	water	
RP-6 (11)	S1006489-023	6/10/2010		1	water	
RP-6 (12)	S1006489-024	6/10/2010		1	water	e-mail copy of results to:
RP-9 (13)	S1006489-029	6/21/2010		1	water	waden@imlinc.com
RP-9 (14)	S1006489-030	6/21/2010		1	water	
RP-9 (15)	S1006489-031	6/21/2010		1	water	
						Thank You
						Invoice to **IML /Std Turnaround**

ALS Laboratory Group - Fort Collins

CONDITION OF SAMPLE UPON RECEIPT FORM

Client: IML Workorder No: 1008346

Project Manager: AW Initials: DRO 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:** ____ < green pea ____ > 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 #:	1
Temperature (°C):	Amb
No. of custody seals on cooler:	
DOT Survey/ Acceptance Information — External µR/hr reading:	11
DOT Survey/ Acceptance Information — Background µR/hr reading:	11

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: 8/30/10

*IR Gun #2: Oakton, SN 29922500201-0066 *IR Gun #4: Oakton, SN 2372220101-0002

Form 201r22.xls (6/1/09)

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*

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division
Fort Collins, Colorado

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

10-05-10
Date

Radiochemistry Final Data Reviewer

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	

1008348

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, WY 82801
~~Phone 800-328-1097 FAX 307-672-8053~~

Relinquished by: Kathy Boxell
~~Date/Time:~~ 8/24/10 15:20
Received by Lab:
Date/Time: 8/26/10 0800

CHAIN OF CUSTODY RECORD

Indicate Client is: Western Water

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

P. O.: 237544

Sample ID	IML Lab Number	Sample Date	Sample Time	Number of Containers	Sample Matrix	Analysis
RP-13	S1006489-053	6/21/2010		1	water	**Total Thorium 230**
RP-14	S1006489-054	6/21/2010		1	water	
RP-14	S1006489-055	6/21/2010		1	water	
RP-14	S1006489-056	6/21/2010		1	water	
						e-mail copy of results to:
						waden@imlinc.com
						Thank You
						Invoice to **IML /Std Turnaround**

ALS Laboratory Group - Fort Collins

CONDITION OF SAMPLE UPON RECEIPT FORM

Client: IML Workorder No: 1008348

Project Manager: AW Initials: CRA 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?	DROPOFF	(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:** ____ < green pea ____ > 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 #:	1							
Temperature (°C):	4.6							
No. of custody seals on cooler:	0							
DOT Survey/ Acceptance Information — External µR/hr reading:	11							
DOT Survey/ Acceptance Information — Background µR/hr reading:	11							

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: Cwoly 8/30/10

*IR Gun #2: Oakton, SN 29922500201-0066 *IR Gun #4: Oakton, SN 2372220101-0002

Form 201r22.xls (6/1/09)

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*

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division
Fort Collins, Colorado

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

10/11/10
Date

Radiochemistry Final Data Reviewer

10/11/10
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	

1009017

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, WY 82801
~~**Phone 800-828-1097 FAX 307-672-8053**~~

CHAIN OF CUSTODY RECORD

Relinquished by: Kathy Boyd
~~Date/Time~~: 8/30/10 15:14
Received by Lab: Lauren Chinn
Date/Time: 9/1/10 @ 1200

Indicate Client is: **Western Water**

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

P. O.: 237564

Sample ID	IML Lab Number	Sample Date	Sample Time	Number of Containers	Sample Matrix	Analysis
RS-12 (1)	S1006489--079	6/21/2010		1	water	**Thorium 230; Total**
RS-14 (2)	S1006489--081	6/21/2010		1	water	
RS-19 (3)	S1006489--089	6/21/2010		1	water	
						e-mail copy of results to:
						waden@imlinc.com
						Thank You
						Invoice to **IML /Std Turnaround**

ALS Laboratory Group - Fort Collins

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	(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:** ____ < green pea ____ > 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 #:	1
Temperature (°C):	Amb
No. of custody seals on cooler:	0
DOT Survey/ Acceptance Information — External µR/hr reading:	12
DOT Survey/ Acceptance Information — Background µR/hr reading:	11

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

*1009017-3-I on COC has ID# = RS-19 & has same IMC Lab bottle label ID# = RS-185 number = S1006489-089

ID is RS-19 - per Lacy Ketron 9/9/10

If applicable, was the client contacted? (YES) NO / NA Contact: Wade Nicholson Date/Time: 9/8/10 e mail

Project Manager Signature / Date: 9/8/10

*IR Gun #2: Oakton, SN 29922500201-0066 *IR Gun #4: Oakton, SN 2372220101-0002

Form 201r22.xls (6/1/09)

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
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	0.72 +/- 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*

Submit by Email | Print Form

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**

Client Name	Project Identification	Sampler (Signature/Printed)	Telephone #
SENES/BKS Environmental	#614 WWC Radiological Sampling	Jacob Mulinix/Jacob Mulinix	307-686-0800

Report Address	Contact Name and Email	Invoice Address	Purchase Order #	Quote #
Lisa Manglass - SENES - 8310 South Valley Hwy Suite 300 Englewood, CO 80112	Jacob Mulinix Jmulinix@bksenvironmental.com Voice 307-686-0800 FAX	Ben Schiffer - WWC Engineering 1849 Terra Ave. Sheridan, WY 82801		

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	U-Nat	Ra-226	Th-230	Pb-210	Gross Alpha				REMARKS
							ANALYSES / PARAMETERS								
1	51008298	8-9-10	9:30 AM	RP-7 0-15	Soil	1	X	X	X	X	X				
2		8-9-10	9:30 AM	RP-7 0-30	Soil	1		X			X				
3		8-9-10	9:30 AM	RP-7 30-60	Soil	1		X			X				
4		8-9-10	9:30 AM	RP-7 60-100	Soil	1		X			X				
5		8-9-10	11:15 AM	RP-17 0-15	Soil	1	X	X			X				
6		8-9-10	11:15 AM	RP-17 0-30	Soil	1		X			X				
7		8-9-10	11:15 AM	RP-17 30-60	Soil	1		X			X				
8		8-9-10	11:15 AM	RP-17 60-100	Soil	1		X			X				
9		8-9-10	10:55 AM	RP-18 0-15	Soil	1	X	X			X				
10		8-9-10	10:55 AM	RP-18 0-30	Soil	1	X	X	X	X	X				
11		8-9-10	10:55 AM	RP-18 30-60	Soil	1	X	X	X	X	X				
12		8-9-10	10:55 AM	RP-18 60-100	Soil	1	X	X	X	X	X				
13		8-9-10	10:10 AM	RS-3 0-15	Soil	1	X	X	X	X	X				
14		8-9-10	10:25 AM	RS-9 0-15	Soil	1	X	X	X	X	X				

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
	Jacob Mulinix /Jacob Mulinix	8-12	3:00pm	[illegible]	8/12/10	1500
				Karen A Secor	8/17/10	

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

Ross ISR Project 191 TR Addendum 2.9-C

Submit by Email | Print Form

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

Client Name	Project Identification	Sampler (Signature/Printed)	Telephone #
SENES/BKS Environmental	#614 WWC Radiological Sampling	Jacob Mulinix /Jacob Mulinix	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

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
							ANALYSES / PARAMETERS								
1	S1008298	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)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
	Jacob Mulinix /Jacob Mulinix	8-12	3:00PM	Alicia L. McNeil	8/12/10	1300
				Karen A Jeco	8/17/10	

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

Ross ISR Project 192 TR Addendum 2.9-C

2

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) - 672-8945

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

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Ross ISR Project

194

TR Addendum 2.9-C

Soil Analysis Report

Western Water Consultants

1849 Terra
Sheridan, WY 82801

Report ID: S1008298001

Project: SENES Radiological Sampling

Date Received: 8/17/2010

Date Reported: 10/15/2010

Work Order: S1008298

Lab ID	Sample ID	Depths cm	Total Uranium mg/Kg 6010C	Gross Alpha pCi/g SM 7110	Lead 210 pCi/g OTW01	Radium 226 pCi/g SM 7500	Thorium 230 pCi/g 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

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= 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, Assistant Laboratory Manager

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

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: **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

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

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

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

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

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

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

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

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

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

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

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division
Fort Collins, Colorado

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
Radiochemistry Primary Data Reviewer

10/20/10
Date

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

2 coolers

1009379

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

Relinquished by: Kathy Borp
Date/Time: 9/22/10 14:25
Received by Lab: Laura Glimm / ALS
Date/Time: 9.24.10 @ 1030

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
1	Berger-NESE-S7	S1008189-001	8/10/2010		1	water	**Thorium 230 Total**
2	SC01	S1008451-002	7/27/2010		1	water	**for all samples**
3	RP-7	S1008298-001	8/9/2010		1	water	
4	RP-7	S1008298-002	8/9/2010		1	water	
5	RP-7	S1008298-003	8/9/2010		1	water	
6	RP-7	S1008298-004	8/9/2010		1	water	
7	RP-17	S1008298-005	8/9/2010		1	water	
8	RP-17	S1008298-006	8/9/2010		1	water	
9	RP-17	S1008298-007	8/9/2010		1	water	
10	RP-17	S1008298-008	8/9/2010		1	water	
11	RP-18	S1008298-009	8/9/2010		1	water	
12	RP-18	S1008298-010	8/9/2010		1	water	e-mail copy of results to:
13	RP-18	S1008298-011	8/9/2010		1	water	waden@imlinc.com
14	RP-18	S1008298-012	8/9/2010		1	water	
15	RS-3	S1008298-013	8/9/2010		1	water	
16	RS-9	S1008298-014	8/9/2010		1	water	Thank You
17	RS-10	S1008298-015	8/9/2010		1	water	
18	RS-13	S1008298-016	8/9/2010		1	water	Invoice to **IML /Std Turnaround**
19	RAD Veg #4-NW	S1008396-004	8/23/2010	17:00	1	water	
20	RAD Veg #5-SW	S1008396-005	8/23/2010	17:35	1	water	
21	RAD-GV-Veg1	S1008420-001	8/18/2010	13:00	1	water	
22	RAD-GV-Veg2	S1008420-002	8/18/2010	13:00	1	water	
23	RAD-GV-Veg3	S1008420-003	8/18/2010	13:00	1	water	

LAS 9.24.10

ALS Laboratory Group - Fort Collins

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	(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:** ____ < green pea ____ > 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 #:	1	2					
Temperature (°C):	Ambient →						
No. of custody seals on cooler:	Ø	Ø					
DOT Survey/ Acceptance Information — External µR/hr reading:	11	12					
Background µR/hr reading:	11						

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

(*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 Niemsma Date/Time: 9/27/10 e-mail

Project Manager Signature / Date: 9/27/10

*IR Gun #2: Oakton, SN 29922500201-0066 *IR Gun #4: Oakton, SN 2372220101-0002

Form 201r22.xls (6/1/09)

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: 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
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	0.57 +/- 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
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	0.59 +/- 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
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	0.44 +/- 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
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	0.401 +/- 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 DQO's or sample characteristics.

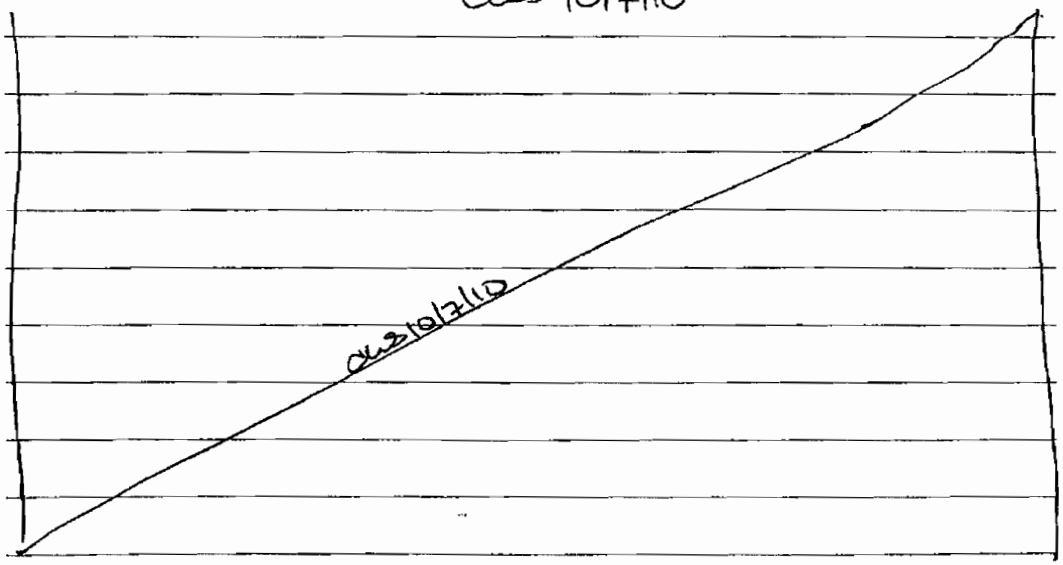
CES 10/7/10

CES 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).

CES 10/7/10

CES 10/7/10



TECHNICIAN/ANALYST Crystal Shaeffer DATE 10/7/10

DEPARTMENT MANAGER T Elliott 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

1081

ENVIRONMENTAL / LOW LEVEL DOSIMETRY REPORT

ADDRESS

JEARS CONSULTANTS LTD
ATTN : STEVE BROWN
8310 SOUTH VALLEY HWY SUITE 3015
ENGLEWOOD, CO 80112

ACCOUNT NO. SERIAL CODE

29407

FOR EXPOSURE PERIOD 01/01/2010

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	ADJUST-MENTS	NUMBER OF DOSIMETERS REPORTED	INCEPTION DATE OF PERM. TOTAL
			GROSS NET						
00000	TRANSIT CONTROL	NL	4.9						

NOTES (COLUMN 7) - NC Returned Separately From the Deployment Control

Lot	Release	Process Dte	Reported Date	Date Processed	Date Received	Minimum Detectable Dose In This Process: Millirems Ambient Dose Equivalent	ONLY PAGE
A		00000	01/07/2010	01/07/2010	01/05/2010	0.06	1

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

AIR SCIENCE
ATTN : RONN SMITH
5555 ARAPAHOE STREET
SHERIDAN, WY 82801

ACCOUNT NO. 291407

SERIES CODE

FOR EXPOSURE PERIOD 01/01/2010

LOCATION ID NUMBER	IDENTIFIER (CLIENT SUPPLIED)	NOTE CODE	EXPOSURE OF DOSIMETER (MILLIREMS AMBIENT DOSE EQUIVALENT) GROSS	EXPOSURE OF DOSIMETER (MILLIREMS AMBIENT DOSE EQUIVALENT) NET	NET CUMULATIVE TOTALS (MILLIREMS) CALENDAR QUARTER	YEAR TO DATE	PERMANENT	ADJUST-MENTS	NUMBER OF DOSIMETERS REPORTED	INCEPTION DATE OF PERM. TOTAL
000X9	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	3.4		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	/ /

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

AIR SCIENCE
ATTN : RONN SMITH
5555 ABSARAKA STREET
SHERIDAN, WY 82801

ACCOUNT NO. 291407

SERIES CODE

FOR EXPOSURE PERIOD 04/01/2010

LOCATION ID NUMBER	IDENTIFIER (CLIENT SUPPLIED)	NOTE CODE	EXPOSURE OF DOSIMETER (MILLIREMS AMBIENT DOSE EQUIVALENT) GROSS	NET	NET CUMULATIVE TOTALS (MILLIREMS) CALENDAR QUARTER	YEAR TO DATE	PERMANENT	ADJUST-MENTS	NUMBER OF DOSIMETERS REPORTED	INCEPTION DATE OF PERM. TOTAL
00000	TRANSIT CONTROL	NC	8.4							

(For Quarter 2) (For TLDs 1-15)

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

IML AIR SCIENCE
ATTN : RONN SMITH
555 ABSARAKA ST
SHERIDAN, WY 82801

ACCOUNT NO. 291488

SERIES CODE

FOR EXPOSURE PERIOD 04/01/2010

LOCATION ID NUMBER	IDENTIFIER (CLIENT SUPPLIED)	NOTE CODE	EXPOSURE OF DOSIMETER (MILLIREMS AMBIENT DOSE EQUIVALENT) GROSS	NET	NET CUMULATIVE TOTALS (MILLIREMS) CALENDAR QUARTER	YEAR TO DATE	PERMANENT	ADJUST-MENTS	NUMBER OF DOSIMETERS REPORTED	INCEPTION DATE OF PERM. TOTAL
00000	TRANSIT CONTROL	NC	4.6							

(for TLDs 16 & 17)

NOTES (COLUMN 3) : NC Returned Separately From The Deployment Control

O.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	05/26/2010	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

IML AIR SCIENCE
ATTN : RONN SMITH
555 ABSARAKA ST
SHERIDAN, WY 82801

ACCOUNT NO. 291488

SERIES CODE

FOR EXPOSURE PERIOD 04/01/2010

LOCATION ID NUMBER	IDENTIFIER (CLIENT SUPPLIED)	NOTE CODE	EXPOSURE OF DOSIMETER (MILLIREMS AMBIENT DOSE EQUIVALENT) GROSS	NET	NET CUMULATIVE TOTALS (MILLIREMS) CALENDAR QUARTER	YEAR TO DATE	PERMANENT	ADJUST-MENTS	NUMBER OF DOSIMETERS REPORTED	INCEPTION DATE OF PERM. TOTAL
000X9	DEPLOY CONTROL		24.3	0.0						
000X9	DEPLOY CONTROL		17.2	0.0						
00001	9002517R		26.3	2.0	2.0	2.0	2.0		1	/ /
00002	9002518R	#13	28.4	4.1	4.1	4.1	4.1		1	/ /
00003	9002519R		29.2	4.9	4.9	4.9	4.9		1	/ /
00004	9002520R		32.1	7.8	7.8	7.8	7.8		1	/ /
00005	9002521R	#14	31.2	6.9	6.9	6.9	6.9		1	/ /
00006	9002522R	#11	31.1	6.8	6.8	6.8	6.8		1	/ /
00007	9002523R	#15	31.1	6.8	6.8	6.8	6.8		1	/ /
00008	9002524R		30.2	5.9	5.9	5.9	5.9		1	/ /
00009	9094273R	#16	23.2	-1.1	-1.1	-1.1	-1.1		1	/ /
00010	9094274R	#17	21.9	-2.4	-2.4	-2.4	-2.4		1	/ /

Ross site #5

See not Abv 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

LANDAUER

Landauer, Inc. 2 Science Road Glenwood, Illinois 60425-1586 Telephone: (708) 755-7000 Facsimile: (708) 755-7016

ENVIRONMENTAL / LOW LEVEL DOSIMETRY REPORT

ADDRESS

[redacted]

ACCOUNT NO. [redacted] SERIES CODE

FOR EXPOSURE PERIOD 04/01/2010

LOCATION ID NUMBER	IDENTIFIER (CLIENT SUPPLIED)	NOTE CODE	EXPOSURE OF DOSIMETER (MILLIREMS AMBIENT DOSE EQUIVALENT) GROSS	NET	NET CUMULATIVE TOTALS (MILLIREMS) CALENDAR QUARTER	YEAR TO DATE	PERMANENT	ADJUST-MENTS	NUMBER OF DOSIMETERS REPORTED	INCEPTION DATE OF PERM. TOTAL
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
4/12
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

LANDAUER

Landauer, Inc. 2 Science Road Glenwood, Illinois 60425-1586 Telephone. (708) 755-7000 Facsimile. (708) 755-7016

10 Q3
Transit

[illegible]

ADDRESS

ACCOUNT NO. LOCATION CODE

[illegible]
[illegible]
[illegible]
[illegible]

ON EXPOSURE PERIOD [illegible]

NET CUMULATIVE TOTALS (MULTIPLE ITEMS)

LOCATION ID (BADGE)	IDENTIFIER CLIENT SUPPLIED	NOTE CODE	EXPOSURE TYPE DOSIMETER TYPE/PROC. (DEEP, SHAL, LENS EQUIVALENT)	CALENDAR QUARTER	YEAR YY	ASSIGNMENT	ADJUSTMENTS	NUMBER OF DOSIMETERS REPORTED	INCEPTION DATE OF PERM TOTAL
			MREM	CY					
[illegible]	[illegible]	MC	7.2						
[illegible]	[illegible]	MC	2.1						

1 = 9364105R

2 = 9217375R

[illegible]

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

LANDAUER

Landauer, Inc 2 Science Road Glenwood, Illinois 60425-1586 Telephone: (708) 755-7000 Facsimile: (708) 755-7016

1QQ3

ENVIRONMENTAL / LOW LEVEL DOSIMETRY REPORT

Deploy 9364106R = #1

Deploy 9217376R = #2

ADDRESS

IML AIR SCIENCE
ATTN : RONN SMITH
555 ABSARAKA ST
SHERIDAN, WY 82801

ACCOUNT NO. 291488

SERIES CODE

1 = 11-17

2 = 9/9, 1-10

FOR EXPOSURE PERIOD 07/01/2010

Serial #'s.

LOCATION ID NUMBER	IDENTIFIER (CLIENT SUPPLIED)	NOTE CODE	EXPOSURE OF DOSIMETER (MILLIREMS AMBIENT DOSE EQUIVALENT) GROSS	NET	NET CUMULATIVE TOTALS (MILLIREMS) CALENDAR QUARTER	YEAR TO DATE	PERMANENT	ADJUST-MENTS	NUMBER OF DOSIMETERS REPORTED	INCEPTION DATE OF PERM. TOTAL
000X9	DEPLOY CONTROL	a	30.5	0.0						
000X9	DEPLOY CONTROL	a	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

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

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) - 672-8945

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/16/2010
Report ID: S1007200001

Work Order: S1007200
Project: Ross ISR
Collection Date: 6/28/2010
Lab ID: S1007200-001
Date Received: 6/29/2010
Client Sample ID: 1
Sampler:
COC: 129627
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/16/2010
Report ID: S1007200001

Work Order: S1007200
Project: Ross ISR
Collection Date: 6/28/2010
Lab ID: S1007200-002
Date Received: 6/29/2010
Client Sample ID: 2
Sampler:
COC: 129627
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/16/2010
Report ID: S1007200001

Work Order: S1007200
Project: Ross ISR
Collection Date: 6/28/2010
Lab ID: S1007200-003
Date Received: 6/29/2010
Client Sample ID: 3
Sampler:
COC: 129627
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/16/2010
Report ID: S1007200001

Work Order: S1007200
Project: Ross ISR
Collection Date: 6/28/2010
Lab ID: S1007200-004
Date Received: 6/29/2010
Client Sample ID: 4
Sampler:
COC: 129627
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/16/2010
Report ID: S1007200001

Work Order: S1007200
Project: Ross ISR
Collection Date: 6/28/2010
Lab ID: S1007200-005
Date Received: 6/29/2010
Client Sample ID: 5
Sampler:
COC: 129627
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/16/2010
Report ID: S1007200001

Work Order: S1007200
Project: Ross ISR
Collection Date: 6/28/2010
Lab ID: S1007200-006
Date Received: 6/29/2010
Client Sample ID: 6
Sampler:
COC: 129627
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/16/2010
Report ID: S1007200001

Work Order: S1007200
Project: Ross ISR
Collection Date: 6/28/2010
Lab ID: S1007200-007
Date Received: 6/29/2010
Client Sample ID: 7
Sampler:
COC: 129627
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/16/2010
Report ID: S1007200001

Work Order: S1007200
Project: Ross ISR
Collection Date: 6/28/2010
Lab ID: S1007200-008
Date Received: 6/29/2010
Client Sample ID: 8
Sampler:
COC: 129627
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/16/2010
Report ID: S1007200001

Work Order: S1007200
Project: Ross ISR
Collection Date: 6/28/2010
Lab ID: S1007200-009
Date Received: 6/29/2010
Client Sample ID: 9
Sampler:
COC: 129627
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/16/2010
Report ID: S1007200001

Work Order: S1007200
Project: Ross ISR
Collection Date: 6/28/2010
Lab ID: S1007200-010
Date Received: 6/29/2010
Client Sample ID: 10
Sampler:
COC: 129627
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/16/2010
Report ID: S1007200001

Work Order: S1007200
Project: Ross ISR
Collection Date: 6/28/2010
Lab ID: S1007200-011
Date Received: 6/29/2010
Client Sample ID: 11
Sampler:
COC: 129627
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 -

129627

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

Client Name	Project Identification	Sampler (Signature/Printed)	Telephone #
Strata Energy	Ross ISR Project	Jim Orpet	(307) 745-3803

Report Address	Contact Name
P.O. Box 2318 Gillette, WY 82716	Ben Schiffer (WWC) Email Bschiffer@wwcengineering.com Phone (307) 672-0761 ext. 148

Invoice Address	Purchase Order #	Quote #
P.O Box 2318 Gillette, WY 82716		

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	Rad 226	Pb210	Po210	Th230	Nat-U				REMARKS
1	S1007200	6/28-29		Vegetation Samples 1-12	OT	12									
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
	Jim Orpet	6/29/10		Kara Aseen	6/29/10	

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

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

Ross ISR Project

257

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: **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	

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

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1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

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: **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

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

Ross ISR Project

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				

259

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

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

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: **lcs**	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

Ross ISR Project
260
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.

131448

Client Name	Project Identification	Sampler (Signature/Printed)	Telephone #
STRATA IWWC	ROSS ISR	BEN SCHIFFER	

Report Address	Contact Name	Purchase Order #	Quote #
1849 TERRA	BEN SCHIFFER		
Invoice Address	Email		
1849 TERRA	Phone		

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED		SAMPLE IDENTIFICATION	Matrix	# of Containers	URANIUM (TOTAL)	THORIUM 230	RADIUM 226	LEAD 210	POLONIUM 210				REMARKS
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
	BEN SCHIFFER	8/24/10	08:20	Jim Yocum	8/24/10	08:25

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) - 672-8945

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/24/2010
Report ID: S1008396001

Work Order: S1008396
Project: Strata\Ross ISR
Collection Date: 8/23/2010 3:25:00 PM
Lab ID: S1008396-001
Date Received: 8/24/2010
Client Sample ID: Rad Veg #1 - SWSW, S7, T53N, R67W
Sampler: Ben Schiffer
COC: 131448
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/24/2010
Report ID: S1008396001

Work Order: S1008396
Project: Strata\Ross ISR
Collection Date: 8/23/2010 3:55:00 PM
Lab ID: S1008396-002
Date Received: 8/24/2010
Client Sample ID: Rad Veg #2 - SWSW, S7, T53N, R67W
Sampler: Ben Schiffer
COC: 131448
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/24/2010
Report ID: S1008396001

Work Order: S1008396
Project: Strata\Ross ISR
Collection Date: 8/23/2010 4:35:00 PM
Lab ID: S1008396-003
Date Received: 8/24/2010
Client Sample ID: Rad Veg #3 - NESW, S7, T53N, R67W
Sampler: Ben Schiffer
COC: 131448
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/24/2010
Report ID: S1008396001

Work Order: S1008396
Project: Strata\Ross ISR
Collection Date: 8/23/2010 5:00:00 PM
Lab ID: S1008396-004
Date Received: 8/24/2010
Client Sample ID: Rad Veg #4 - NWNE, S18, T53N, R67W
Sampler: Ben Schiffer
COC: 131448
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/24/2010
Report ID: S1008396001

Work Order: S1008396
Project: Strata\Ross ISR
Collection Date: 8/23/2010 5:35:00 PM
Lab ID: S1008396-005
Date Received: 8/24/2010
Client Sample ID: Rad Veg #5 - SWNW, S18, T53N, R67W
Sampler: Ben Schiffer
COC: 131448
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

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

ANALYTICAL QC SUMMARY REPORT

Date: 11/24/2010

CLIENT: Western Water Consultants
Work Order: S1008396
Project: Strata\Ross ISR

Report ID: S1008396001

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									

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	

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
268
TR Addendum 2.9-C

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

ANALYTICAL QC SUMMARY REPORT

Date: 11/24/2010

CLIENT: Western Water Consultants
Work Order: S1008396
Project: Strata\Ross ISR

Report ID: S1008396001

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				

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	

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
269
TR Addendum 2.9-C

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

ANALYTICAL QC SUMMARY REPORT

Date: 11/24/2010

CLIENT: Western Water Consultants
Work Order: S1008396
Project: Strata\Ross ISR

Report ID: S1008396001

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									

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: **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				

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
270
TR Addendum 2.9-C

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: 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
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	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 -

131237

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

Client Name	Project Identification	Sampler (Signature/Printed)	Telephone #
STRATA / WWC	ROSS ISR	/ BEN SCHIFFER	672-0761

Report Address	Contact Name	Purchase Order #	Quote #
1849 TERRA	BEN SCHIFFER		
Invoice Address	Email		
"	Phone		

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	TOTAL URANIUM	THORIUM 230	RADIUM 226	LEAD 210	POLONIUM 210				REMARKS
1	S1008430-001	8/24/10	15:35	RAD VEG #6	OT	1	✓	✓	✓	✓	✓				SWSW, S18, T53N, R67W
2															
3	S1008430-002	8/24/10	14:10 ~~15:55~~	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	✓	✓	✓	✓	✓				NESE, S18, T53N, R67W
8															
9	S1008430-005	8/24/10	15:15	RAD VEG #11	OT	1	✓	✓	✓	✓	✓				NESE, 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	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
	/ BEN SCHIFFER	8/25/10	0802	Lin Yocum	8-25-10	08:02

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) - 672-8945

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/24/2010
Report ID: S1008430001

Work Order: S1008430
Project: Ross ISR
Collection Date: 8/24/2010 3:35:00 PM
Lab ID: S1008430-001
Date Received: 8/25/2010
Client Sample ID: Rad Veg #6 - SWSW, S18, T53N, R67W
Sampler: Ben Schiffer
COC: 131237
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/24/2010
Report ID: S1008430001

Work Order: S1008430
Project: Ross ISR
Collection Date: 8/24/2010 2:10:00 PM
Lab ID: S1008430-002
Date Received: 8/25/2010
Client Sample ID: Rad Veg #7 - NENE, S19, T53N, R67W
Sampler: Ben Schiffer
COC: 131237
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/24/2010
Report ID: S1008430001

Work Order: S1008430
Project: Ross ISR
Collection Date: 8/24/2010 2:55:00 PM
Lab ID: S1008430-003
Date Received: 8/25/2010
Client Sample ID: Rad Veg #8 - NWSE, S18, T53N, R67W
Sampler: Ben Schiffer
COC: 131237
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/24/2010
Report ID: S1008430001

Work Order: S1008430
Project: Ross ISR
Collection Date: 8/24/2010 3:30:00 PM
Lab ID: S1008430-004
Date Received: 8/25/2010
Client Sample ID: Rad Veg #10 - NESE, S18, T53N, R67W
Sampler: Ben Schiffer
COC: 131237
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/24/2010
Report ID: S1008430001

Work Order: S1008430
Project: Ross ISR
Collection Date: 8/24/2010 3:15:00 PM
Lab ID: S1008430-005
Date Received: 8/25/2010
Client Sample ID: Rad Veg #11 - NESE, S18, T53N, R67W
Sampler: Ben Schiffer
COC: 131237
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/24/2010
Report ID: S1008430001

Work Order: S1008430
Project: Ross ISR
Collection Date: 8/24/2010 4:25:00 PM
Lab ID: S1008430-006
Date Received: 8/25/2010
Client Sample ID: Rad Veg #12 - SWNE, S13, T53N, R68W
Sampler: Ben Schiffer
COC: 131237
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

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

ANALYTICAL QC SUMMARY REPORT

Date: 11/24/2010

CLIENT: Western Water Consultants
Work Order: S1008430
Project: Ross ISR

Report ID: S1008430001

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				

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									

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
296
TR Addendum 2.9-C

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

ANALYTICAL QC SUMMARY REPORT

Date: 11/24/2010

CLIENT: Western Water Consultants
Work Order: S1008430
Project: Ross ISR

Report ID: S1008430001

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									

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				

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
297
TR Addendum 2.9-C

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

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	

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
298
TR Addendum 2.9-C

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

ANALYTICAL QC SUMMARY REPORT

Date: 11/24/2010

CLIENT: Western Water Consultants
Work Order: S1008430
Project: Ross ISR

Report ID: S1008430001

Sample ID: **lcs**	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: **lcs**	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									

Sample ID: **lcs**	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	

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
299
TR Addendum 2.9-C

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*

Ross ISR Project

310

TR Addendum 2.9-C

Inter-Mountain Labs

Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

131438

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

Client Name	Project Identification	Sampler (Signature/Printed)	Telephone #
STRATA/WNC	ROSS ISR	J. ROGERS	672-0761

Report Address	Contact Name	Email	Phone
1849 TERRA	BEN SCHIFFER		

Invoice Address	Purchase Order #	Quote #
SAME		

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	URANIUM (TOTAL)	THORIUM 230	RADIUM 226	LEAD 210	POLONIUM 210				REMARKS
1		9/21/10	1055	RAD VEG #12	OT	1	X	X	X	X	X				SWNE, S13, T53N, R68W
2			1130	RAD VEG # 5	OT	1	X	X	X	X	X				SWNW, 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, T53N, 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				NESE, S18, T53N, R67W
9			1440	RAD VEG # 11	OT	1	X	X	X	X	X				NESE, S18, T53N, R67W
10			1525	RAD VEG # 4	OT	1	X	X	X	X	X				NWNE, S18, T53N, 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
	J. ROGERS	9/22/10	1530	Alicia L. McNeil	9/22/10	1530
				James Yocum	9/22/10	15:30

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) - 672-8945

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 12/1/2010
Report ID: S1009451002
(Replaces S1009451001)
Work Order: S1009451
Collection Date: 9/21/2010 10:55:00 AM
Date Received: 9/24/2010
Sampler:
Matrix: Plant

Project: Ross ISR
Lab ID: S1009451-001
Client Sample ID: RAD VEG #12 SWNE,S13,T53,R68W
COC: 131438

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 12/1/2010
Report ID: S1009451002
(Replaces S1009451001)
Work Order: S1009451
Collection Date: 9/21/2010 11:30:00 AM
Date Received: 9/24/2010
Sampler:
Matrix: Plant

Project: Ross ISR
Lab ID: S1009451-002
Client Sample ID: RAD VEG #5 SWNW,S18,T53N,R67W
COC: 131438

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 12/1/2010
Report ID: S1009451002
(Replaces S1009451001)
Work Order: S1009451
Collection Date: 9/21/2010 11:55:00 AM
Date Received: 9/24/2010
Sampler:
Matrix: Plant

Project: Ross ISR
Lab ID: S1009451-003
Client Sample ID: RAD VEG #2 SWSW,S7,T53N,R67W
COC: 131438

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 12/1/2010
Report ID: S1009451002
(Replaces S1009451001)
Work Order: S1009451
Collection Date: 9/21/2010 12:20:00 PM
Date Received: 9/24/2010
Sampler:
Matrix: Plant

Project: Ross ISR
Lab ID: S1009451-004
Client Sample ID: RAD VEG #1 SWSW,S7,T53N,R67W
COC: 131438

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 12/1/2010
Report ID: S1009451002
(Replaces S1009451001)
Work Order: S1009451
Collection Date: 9/21/2010 12:55:00 PM
Date Received: 9/24/2010
Sampler:
Matrix: Plant

Project: Ross ISR
Lab ID: S1009451-005
Client Sample ID: RAD VEG #3 NESW,S7,T53N,R67W
COC: 131438

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 12/1/2010
Report ID: S1009451002
(Replaces S1009451001)
Work Order: S1009451
Collection Date: 9/21/2010 1:20:00 PM
Date Received: 9/24/2010
Sampler:
Matrix: Plant

Project: Ross ISR
Lab ID: S1009451-006
Client Sample ID: RAD VEG #9 NWSE,S18,T53N,R67W
COC: 131438

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 12/1/2010
Report ID: S1009451002
(Replaces S1009451001)
Work Order: S1009451
Collection Date: 9/21/2010 1:50:00 PM
Date Received: 9/24/2010
Sampler:
Matrix: Plant

Project: Ross ISR
Lab ID: S1009451-007
Client Sample ID: RAD VEG #8 NWSE,S18,T53N,R67W
COC: 131438

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 12/1/2010
Report ID: S1009451002
(Replaces S1009451001)
Work Order: S1009451
Collection Date: 9/21/2010 2:15:00 PM
Date Received: 9/24/2010
Sampler:
Matrix: Plant

Project: Ross ISR
Lab ID: S1009451-008
Client Sample ID: RAD VEG #10 NESE,S18,T53N,R67W
COC: 131438

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 12/1/2010
Report ID: S1009451002
(Replaces S1009451001)
Work Order: S1009451
Collection Date: 9/21/2010 2:40:00 PM
Date Received: 9/24/2010
Sampler:
Matrix: Plant

Project: Ross ISR
Lab ID: S1009451-009
Client Sample ID: RAD VEG #11 NESE,S18,T53N,R67W
COC: 131438

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 12/1/2010
Report ID: S1009451002
(Replaces S1009451001)
Work Order: S1009451
Collection Date: 9/21/2010 3:25:00 PM
Date Received: 9/24/2010
Sampler:
Matrix: Plant

Project: Ross ISR
Lab ID: S1009451-010
Client Sample ID: RAD VEG #4 NWNE,S18,T53N,R67W
COC: 131438

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 12/1/2010
Report ID: S1009451002
(Replaces S1009451001)
Work Order: S1009451
Collection Date: 9/21/2010 3:50:00 PM
Date Received: 9/24/2010
Sampler:
Matrix: Plant

Project: Ross ISR
Lab ID: S1009451-011
Client Sample ID: RAD VEG #7 NENE,S19,T53N,R67W
COC: 131438

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 12/1/2010
Report ID: S1009451002
(Replaces S1009451001)
Work Order: S1009451
Collection Date: 9/21/2010 4:30:00 PM
Date Received: 9/24/2010
Sampler:
Matrix: Plant

Project: Ross ISR
Lab ID: S1009451-012
Client Sample ID: RAD VEG #6 SWSW,S18,T53N,R67W
COC: 131438

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

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

Ross ISR Project

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: **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				

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

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	

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
325
TR Addendum 2.9-C

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

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: **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				

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				

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
326
TR Addendum 2.9-C

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

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	

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
327
TR Addendum 2.9-C

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

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: **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									

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				

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
328
TR Addendum 2.9-C

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

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: **S1009451-011AMS** 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	

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	

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
329
TR Addendum 2.9-C

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

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: **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: **lcs** 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				

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	

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
330
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.* 135477

Client Name	Project Identification	Sampler (Signature/Printed)	Telephone #
STRATA / WWC	ROSS ISR	[signature] / BEN SCHIFFER	672-0761

Report Address	Contact Name	Purchase Order #	Quote #
1849 TERRA	BEN SCHIFFER / LISA MANGUS		
Invoice Address	Email		
1849 TERRA	Phone		

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
1	S1009327-001A	9/16/10	12:10	WL VEG J1	OT	1	✓	✓	✓	✓	✓				NWNE, S18, T53N, R67W
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-NWNW-~~820~~ 520-5367	OT	1	✓	✓	✓	✓	✓				GARDEN VEGETABLES
10															
11															
12															
13															
14															

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
22.6	[signature] BEN SCHIFFER	9/17/10	08:25	Kathy Boyd	9/17/10	8:25

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) - 672-8945

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/30/2010
Report ID: S1009327001

Work Order: S1009327
Project:
Collection Date: 9/16/2010 12:10:00 PM
Lab ID: S1009327-001
Date Received: 9/17/2010
Client Sample ID: WL Veg J1 NWNW,S18,T53N,R67W
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/30/2010
Report ID: S1009327001

Work Order: S1009327
Project:
Collection Date: 9/16/2010 12:35:00 PM
Lab ID: S1009327-002
Date Received: 9/17/2010
Client Sample ID: WL Veg R6 SWNE,S18,T53N,R67W
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/30/2010
Report ID: S1009327001

Work Order: S1009327
Project:
Collection Date: 9/16/2010 1:35:00 PM
Lab ID: S1009327-003
Date Received: 9/17/2010
Client Sample ID: WL Veg A2 SWSW,S18,T53N,R67W
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/30/2010
Report ID: S1009327001

Work Order: S1009327
Project:
Collection Date: 9/16/2010 2:45:00 PM
Lab ID: S1009327-004
Date Received: 9/17/2010
Client Sample ID: WL Veg A2-2 SWNW,S18,T53N,R67W
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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/30/2010
Report ID: S1009327001

Work Order: S1009327
Project:
Collection Date: 9/16/2010 9:45:00 AM
Lab ID: S1009327-005
Date Received: 9/17/2010
Client Sample ID: Strong-Veg-NWNW-S20-5367
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

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

ANALYTICAL QC SUMMARY REPORT

Date: 11/30/2010

CLIENT: Western Water Consultants
Work Order: S1009327
Project:

Report ID: S1009327001

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

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

ANALYTICAL QC SUMMARY REPORT

Date: 11/30/2010

CLIENT: Western Water Consultants
Work Order: S1009327
Project:

Report ID: S1009327001

Ross ISR 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: **lcs**	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				

339

Sample ID: **lcs**	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				

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				

Ross ISR Project

340

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

Client Name	Project Identification	Sampler (Signature/Printed)	Telephone #
STATA / WWC	ROSS ISR	BEN SCHIFFER	672-0761

Report Address	Contact Name	Email	Phone	Purchase Order #	Quote #
1849 TOMA	BEN SCHIFFER				
Invoice Address					
"					

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	NATURAL URANIUM	LEAD	THORIUM	POLONIUM	RADIUM 226				REMARKS
1		8/10/10	0900	BERGER-NESE-32-T58N-R67W	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
	BEN SCHIFFER	8/10/10	15:10	Kathy Boyd	8/10/10	15:04 10

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) - 672-8945

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/24/2010
Report ID: S1008189001

Work Order: S1008189
Project: Strata/Ross ISR
Collection Date: 8/10/2010
Lab ID: S1008189-001
Date Received: 8/11/2010
Client Sample ID: Berger-NESE-S7-TS3N-R67W
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

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

Ross ISR Project

343

TR Addendum 2.9-C

ANALYTICAL QC SUMMARY REPORT

Date: 11/24/2010

CLIENT: Western Water Consultants
Work Order: S1008189
Project: Strata/Ross ISR

Report ID: S1008189001

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									

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				

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 Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

ANALYTICAL QC SUMMARY REPORT

Date: 11/24/2010

CLIENT: Western Water Consultants
Work Order: S1008189
Project: Strata/Ross ISR

Report ID: S1008189001

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									

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				

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
344
TR Addendum 2.9-C

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

ANALYTICAL QC SUMMARY REPORT

Date: 11/24/2010

CLIENT: Western Water Consultants
Work Order: S1008189
Project: Strata/Ross ISR

Report ID: S1008189001

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				

Sample ID: **lcs** 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	

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
345
TR Addendum 2.9-C

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: 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
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	1.66 +/- 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

Client Name	Project Identification	Sampler (Signature/Printed)	Telephone #
STRATA / LNWC	ROSS ISR	BEN SCHIFFER	672-0761

Report Address	Contact Name	Purchase Order #	Quote #
1849 TERRA	BEN SCHIFFER		
Invoice Address	Email		
"	Phone		

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	NATURAL URANIUM	THORIUM 230	LEAD 210	POLONIUM 210	RADIUM 226	REMARKS
1	S1008451-001	7/21/10	14:00	SC01	OT	4 BAGS	✓	✓	✓	✓	✓	
2												
3		* ALTERNATE CONTACT FOR QUESTIONS AND RESULTS: LISA MONGOLD										
4		2->(303) 524-1118										
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
22.3°C	BEN SCHIFFER	8/2/10	09:00	Kathy Boyd	8/2/10	8:58

SHIPPPING INFO
- ☐ UPS
- ☐ Fed Express
- ☐ US Mail
- ☐ Hand Carried
- ☐ Other _____

MATRIX CODES

Water	WT
Soil	SL
Solid	SD
Trip Blank	TB
Other	OT

TURNAROUND TIMES
Check desired service
- ☒ Standard turnaround
- ☐ **RUSH** - 5 Working Days
- ☐ **URGENT** - < 2 Working Days

Rush & Urgent Surcharges will be applied

COMPLIANCE INFORMATION
- Compliance Monitoring? Y / N
- Program (SDWA, NPDES,...)
- PWSID / Permit #
- Chlorinated? Y / N
- Sample Disposal: Lab Client

ADDITIONAL REMARKS

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) - 672-8945

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 11/24/2010
Report ID: S1008451001

Work Order: S1008451
Project: Ross ISR
Collection Date: 7/27/2010 2:00:00 PM
Lab ID: S1008451-001
Date Received: 8/25/2010
Client Sample ID: SC01
Sampler: Ben Schiffer
COC: 131425
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

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

Ross ISR Project

358

TR Addendum 2.9-C

ANALYTICAL QC SUMMARY REPORT

Date: 11/24/2010

CLIENT: Western Water Consultants
Work Order: S1008451
Project: Ross ISR

Report ID: S1008451001

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				

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	

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 Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

ANALYTICAL QC SUMMARY REPORT

Date: 11/24/2010

CLIENT: Western Water Consultants
Work Order: S1008451
Project: Ross ISR

Report ID: S1008451001

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	

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:

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
359
TR Addendum 2.9-C

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

ANALYTICAL QC SUMMARY REPORT

Date: 11/24/2010

CLIENT: Western Water Consultants
Work Order: S1008451
Project: Ross ISR

Report ID: S1008451001

Sample ID: **lcs** 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									

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
360
TR Addendum 2.9-C

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 -

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135487

Client Name	Project Identification	Sampler (Signature/Printed)	Telephone #
STRATA / WWC	Ross ISR	Ben Schiffer	

Report Address	Contact Name	Email / Phone

Invoice Address	Purchase Order #	Quote #

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	Uranium	Thorium 230	Lead 210	Ra 226	Po 210				REMARKS
1	S1008245-001	8-13-10	—	~~Birch~~ Beef	Meat	1									~18 lbs (leans)
2				Burch											
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
16.0°C	Ben Schiffer	8/13/10	10:07	James Yocim	8-13-10	10:02

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) - 672-8945

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

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

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

ANALYTICAL QC SUMMARY REPORT

Date: 11/24/2010

CLIENT: Western Water Consultants
Work Order: S1008245
Project: Strata/WWC

Report ID: S1008245001

Sample ID: **lcs** 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									

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
374
TR Addendum 2.9-C

WILDLIFE

Ross ISR Project

376

TR Addendum 2.9-C

Inter-Mountain Labs

Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

137077

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

Client Name	Project Identification	Sampler (Signature/Printed)	Telephone #
WWC/Strata	ROSS	Rod Fuller	

Report Address	Contact Name	Purchase Order #	Quote #
WWC	Rod Fuller		
Invoice Address	Email WWC		
WWC	Phone		

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	ANALYSES / PARAMETERS: 4,14	BASELINE							REMARKS
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
R01	Rod Fuller	10-18-10	1612	Kathy Boyd	10/18/10	16:15

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) - 672-8945

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

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

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

ANALYTICAL QC SUMMARY REPORT

Date: 12/6/2010

CLIENT: Western Water Consultants
Work Order: S1010260
Project: ROSS ISR

Report ID: S1010260001

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				

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				

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
379
TR Addendum 2.9-C

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

ANALYTICAL QC SUMMARY REPORT

Date: 12/6/2010

CLIENT: Western Water Consultants
Work Order: S1010260
Project: ROSS ISR

Report ID: S1010260001

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				

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
380
TR Addendum 2.9-C

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

ANALYTICAL QC SUMMARY REPORT

Date: 12/6/2010

CLIENT: Western Water Consultants
Work Order: S1010260
Project: ROSS ISR

Report ID: S1010260001

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: **lcs** 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				

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	

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
381
TR Addendum 2.9-C

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

Client Name	Project Identification	Sampler (Signature/Printed)	Telephone #
STRATA / WWC	ROSS ISR	/ BEN SCHIFFER	672-0761

Report Address	Contact Name	Email	Phone
1849 TERRA	BEN SCHIFFER / LISA MANGLASS		

Invoice Address	Purchase Order #	Quote #
1849 TERRA		

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	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	✓	✓	✓	✓	✓				BLACK BULLHEAD, ~~WHITE SUCKER~~, GREEN SUNFISH
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
3.6	/ BEN SCHIFFER	9/27/10	15:45	Kathy Boyd	9/27/10	15:45

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) - 672-8945

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

Inter-Mountain Laboratories, Inc
1673 Terra Avenue, Sheridan, Wyoming 82801
(307) 672-8945

Sample Analysis Report

CLIENT: Western Water Consultants
1849 Terra
Sheridan, WY 82801

Date Reported: 12/1/2010
Report ID: S1010001001

Work Order: S1010001
Project:
Collection Date: 9/24/2010
Lab ID: S1010001-001
Date Received: 10/1/2010
Client Sample ID: Oshoto Res Fish
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

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

ANALYTICAL QC SUMMARY REPORT

Date: 12/1/2010

CLIENT: Western Water Consultants
Work Order: S1010001
Project:

Report ID: S1010001001

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

Inter-Mountain Laboratories, Inc.
1673 Terra Avenue, Sheridan, Wyoming 82801
(800) - 828-1097

ANALYTICAL QC SUMMARY REPORT

Date: 12/1/2010

CLIENT: Western Water Consultants
Work Order: S1010001
Project:

Report ID: S1010001001

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: **lcs**	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				

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
387
TR Addendum 2.9-C

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.

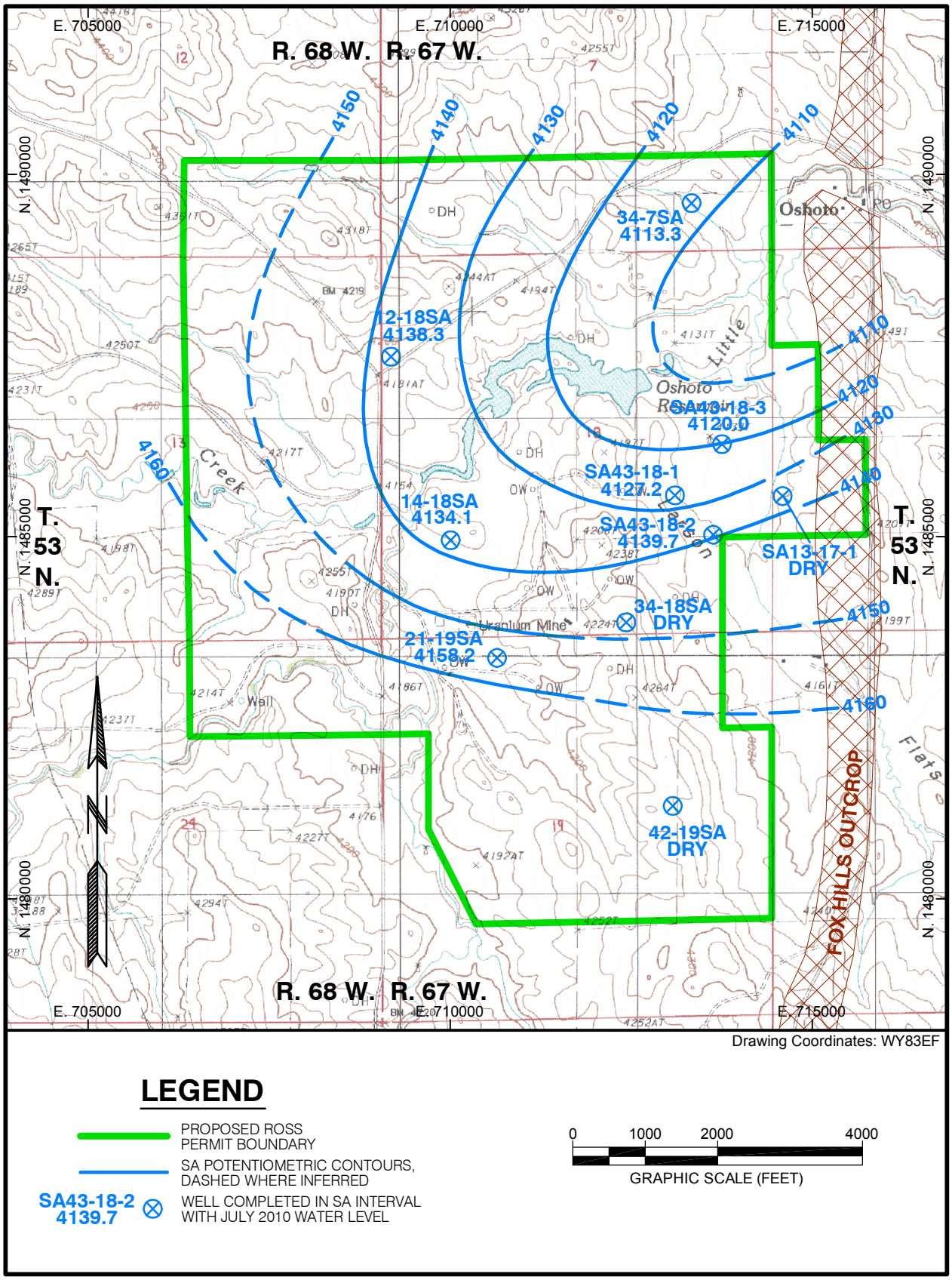

Figure 1. SA Potentiometric Contours

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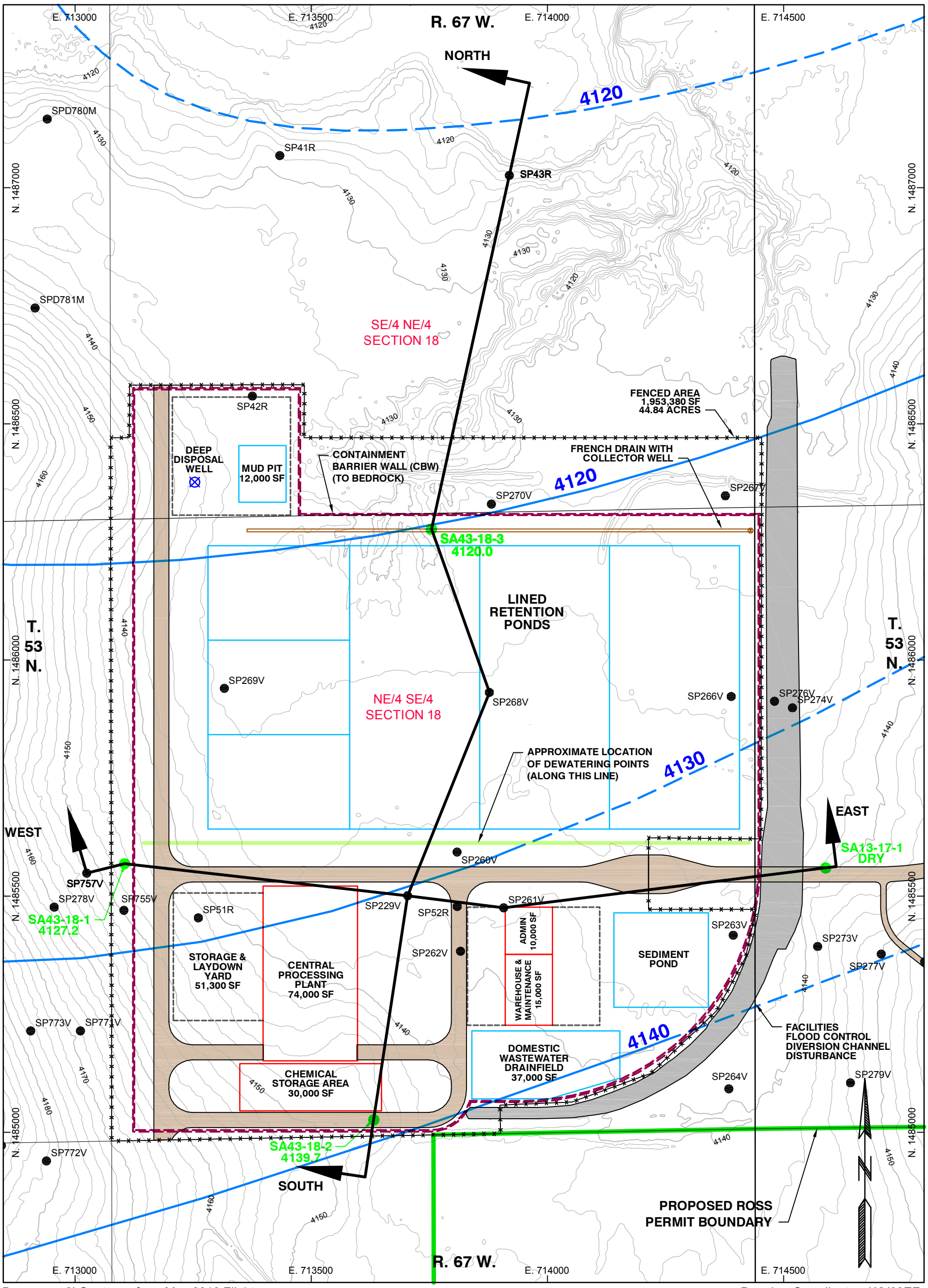

Basemap: 2' Contours from May 2010 Flight

Drawing Coordinates: WY83EF

CROSS SECTION LOCATION MAP

0 100 200 400

GRAPHIC SCALE (FEET)

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

Date	Description

ADDENDUM 3.1-A
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

WWC ENGINEERING
www.wwcengineering.com

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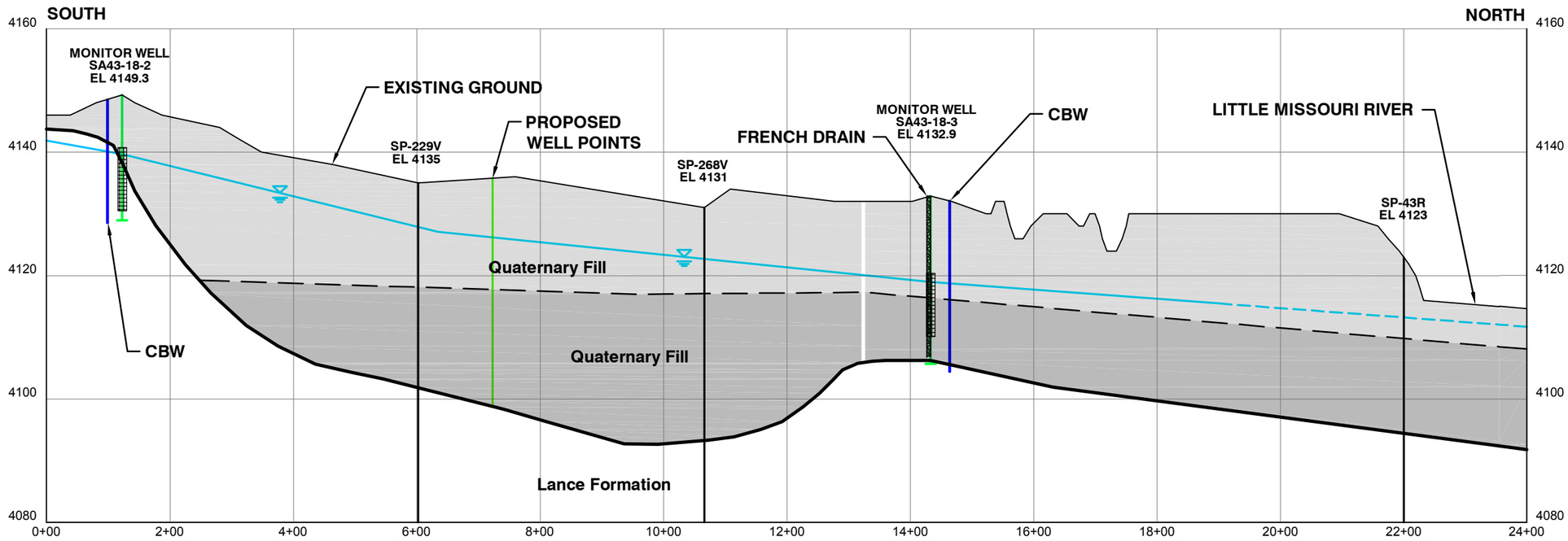
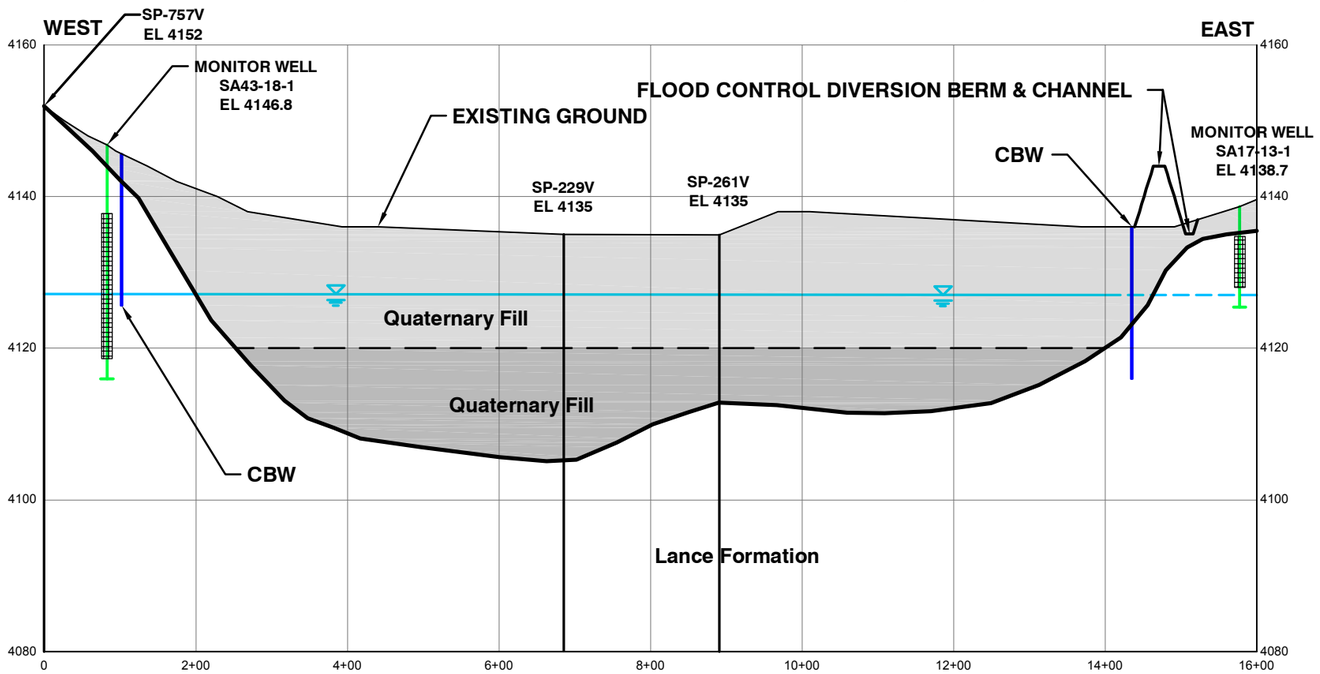


SOUTH TO NORTH CROSS SECTION

SCALE: 1" = 200', HORZ., 1" = 20' VERT.



EAST TO WEST CROSS SECTION

SCALE: 1" = 200', HORZ., 1" = 20' VERT.

LEGEND

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.

EROSION SURFACE

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.

STRATA ENERGY

ROSS ISR PROJECT
CROOK COUNTY, WY
P.O. BOX 2318
GILLETTE, WY 82716

REVISIONS

Date	Description

ADDENDUM 3.1-A
FIGURE 2 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

WWC ENGINEERING
www.wwcengineering.com

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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 From	DEPTH To	DESCRIPTION OF MATERIALS (ASTM D2488)	ASTM D2487 SYMBOL	BPF ASTM D1586	SWL	TEST, SAMPLES, OR NOTES
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
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

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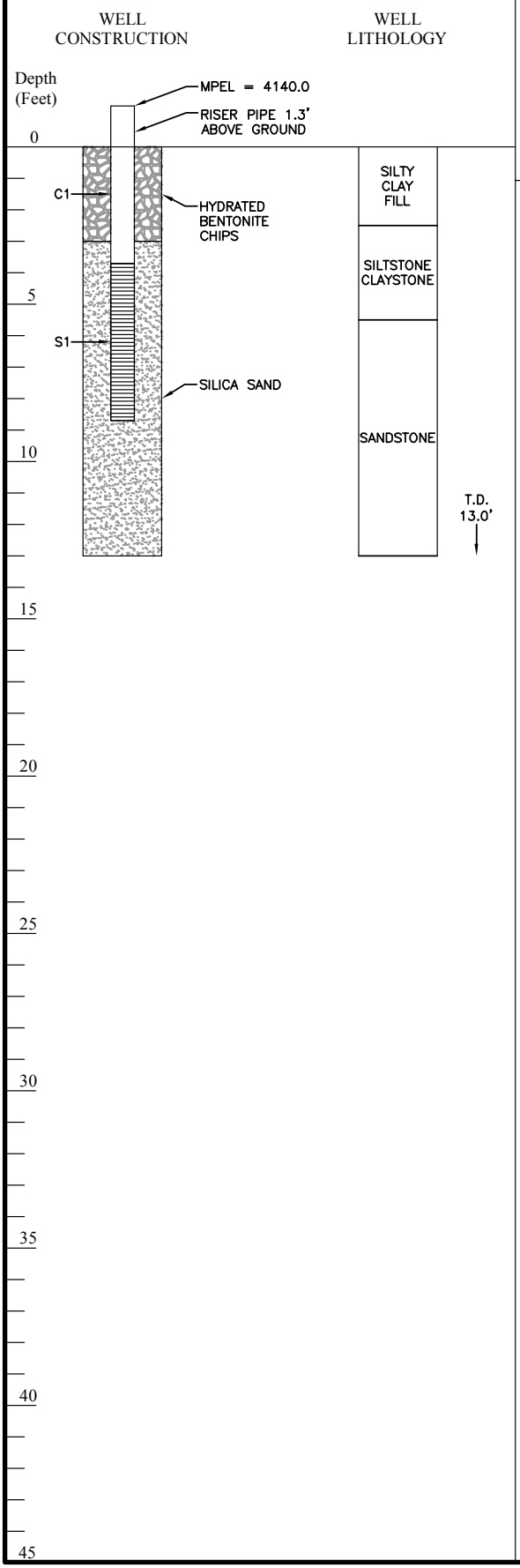
Well Construction Summary



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 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:

Construction Time Log

Drilling:	Start	End
5-17-10	14:15	15:00

Casing:	Start	End
5-17-10	15:00	15:30

Well Development

DRY AFTER COMPLETION

Remarks

Abandoned

Date:
Method:

WWC ENGINEERING

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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 From	DEPTH To	DESCRIPTION OF MATERIALS (ASTM D2488)	ASTM D2487 SYMBOL	BPF ASTM D1586	SWL	TEST, SAMPLES, OR NOTES
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
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

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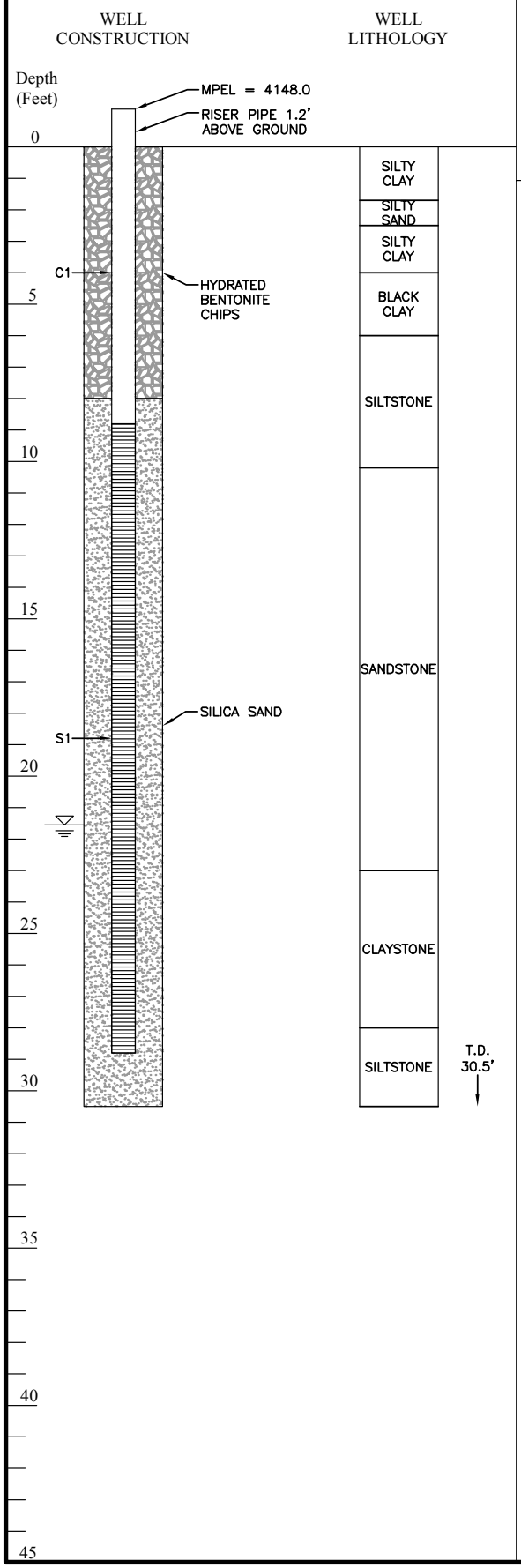
Well Construction Summary

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 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:

Construction Time Log

Drilling:	Start	End
5-18-10	9:25	11:00

Casing:	Start	End
5-18-10	11:00	11:45

Well Development

NONE, DRY FOLLOWING DEVELOPMENT
5-19-10
DTW AT 9:45 = 22.75 BTOC

Remarks

Abandoned

Date:
Method:

WWC ENGINEERING

ENGINEERING HYDROLOGY AND HYDROGEOLOGY

LOG OF BOREHOLE	BOREHOLE # SA 43-18-2	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:** 07:48
GROUND ELEVATION: 4149.3	**BIT(S):** Hollow-Stem Auger	**FINISH:** 09:15
COORDINATES:		
N: 4,935,505 **E:** 504,326.1 UTM Zone 13 NAD 27	**FLUID:** None	**TOTAL DEPTH:** 20.5'
SURVEYED: Yes GPS	**LOG BY:** M. Wolf – WYPG #614	**HOLE DIAMETER:** 8"

DEPTH From	DEPTH To	DESCRIPTION OF MATERIALS (ASTM D2488)	ASTM D2487 SYMBOL	BPF ASTM D1586	SWL	TEST, SAMPLES, OR NOTES
0	1	Silty clay; brown, moist moderately cohesive	CL-ML			
1	2.5	SPT (2/4/6) recovered 1.5'		10		
		Silt; buff-brown, slight clay, sandy, very fine grained. May be bedrock	ML			
4	5.5	CAL (8/14/14) recovered 1.4' iron oxide in shoe		28		"Bedrock"
		Sandstone; yellow-buff, very fine grained, friable, silty	SM			3 good rings
5.5	7.0	SPT (5/5/9) recovered		14		
9	10.5	CAL (6/10/15) recovered 1.5'		25		4 good rings
9	10.2	Siltstone; buff, little sandy, friable	ML			
10.2	10.5	Claystone; grey, very firm to hard, silty	CL			
10.5	12.0	SPT (7/9/10) recovered 1.5'		19		
		Claystone-siltstone; grey, very cohesive	CL			
14	15.5	CAL (5/9/10) recovered 1.8'		19		4 good rings
		Claystone; grey, very silty, very moist	CL			
15.5	17	SPT (5/9/13) recovered 1.8'		22		
		Claystone; grey, very silty as above, very firm, very cohesive	CL-ML			
19	20.5	SPT (8/17/24) recovered 2.0'		41		
		Siltstone; grey, friable, moderate claystone	ML			

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

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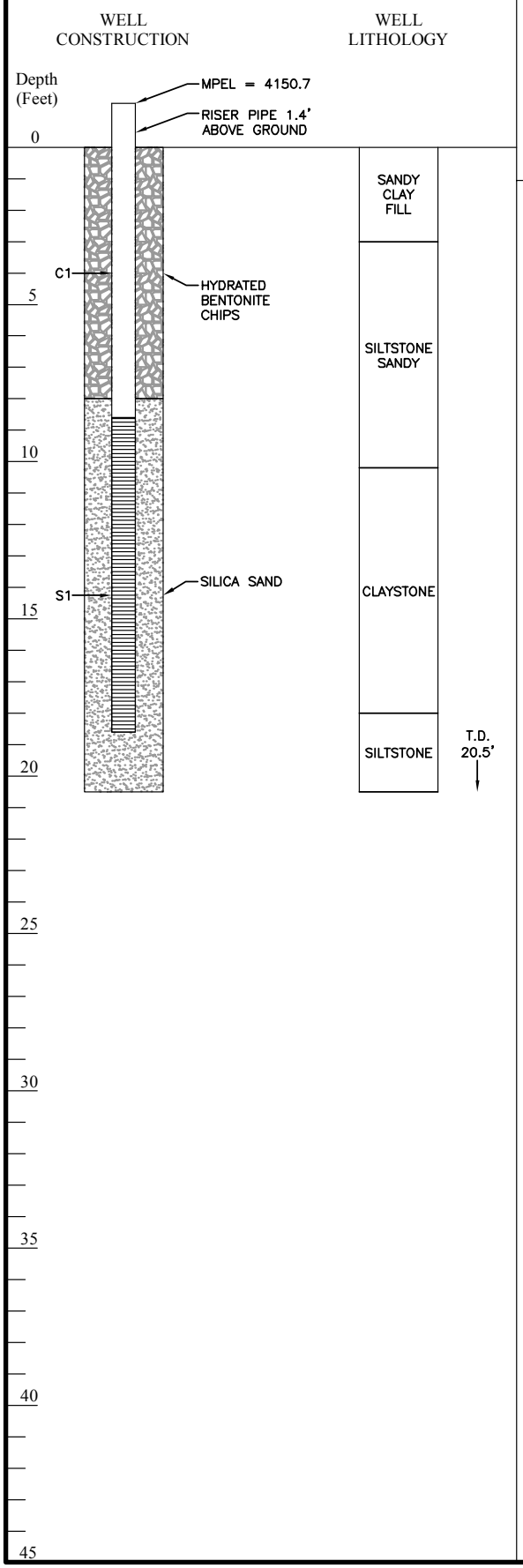
Well Construction Summary



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 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:

Construction Time Log

Drilling:	Start	End
5-18-10	7:48	8:30

Casing:	Start	End
5-18-10	8:30	9:15

Well Development

DRY AFTER COMPLETION

Remarks

Abandoned

Date:
Method:

WWC ENGINEERING

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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 From	DEPTH To	DESCRIPTION OF MATERIALS (ASTM D2488)	ASTM D2487 SYMBOL	BPF ASTM D1586	SWL	TEST, SAMPLES, OR NOTES
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

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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 SYMBOL	BPF ASTM D1586	SWL	TEST, SAMPLES, OR NOTES
From	To					

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

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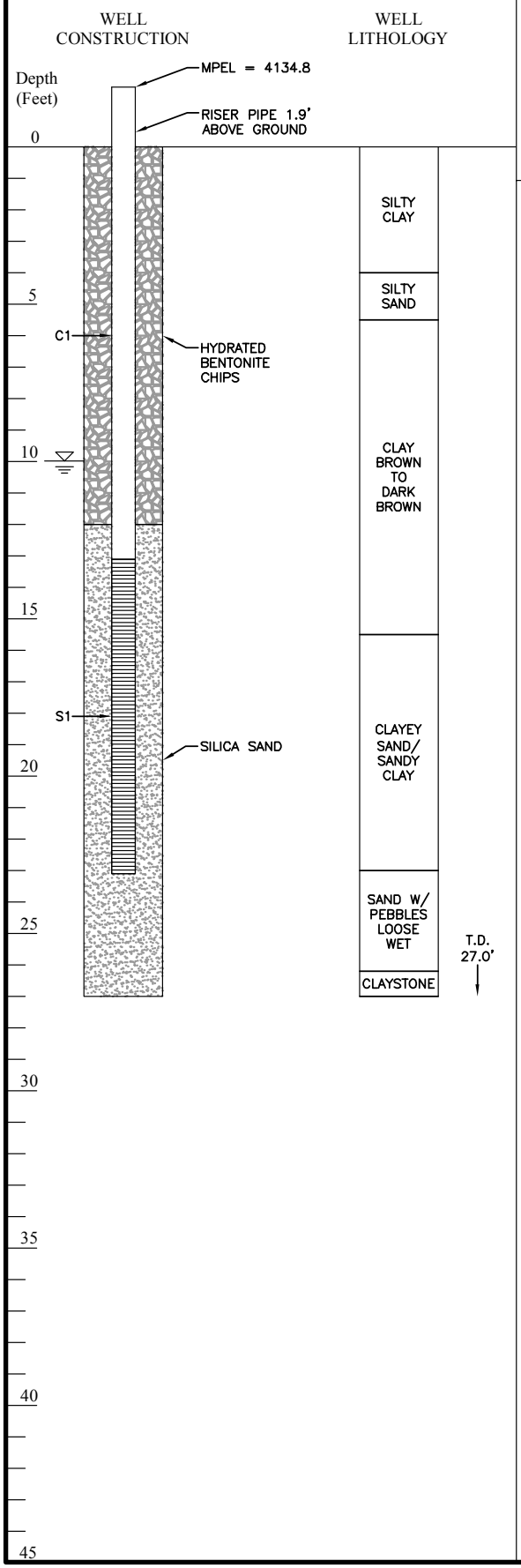
Well Construction Summary

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 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

Drilling:	Start	End
5-18-10	12:10	13:15

Casing:	Start	End
5-18-10	13:15	14:45

Well Development

DTW AFTER DRILLING
5-18-10 @ 14:30 = 11.85 BTOC
5-19-10 @ 9:45 = 11.89 BTOC

Remarks

Abandoned

Date:
Method:

WWC ENGINEERING

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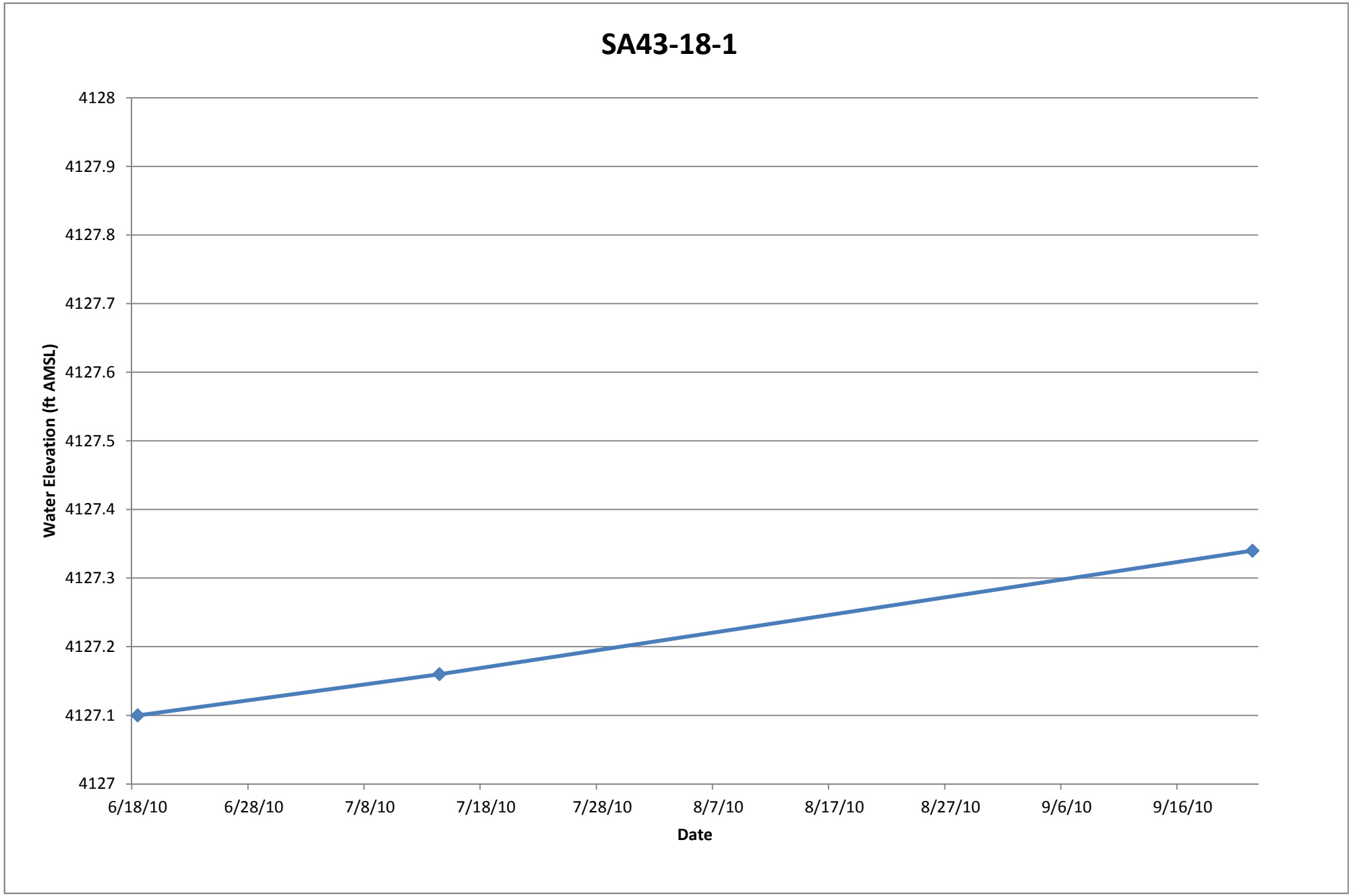
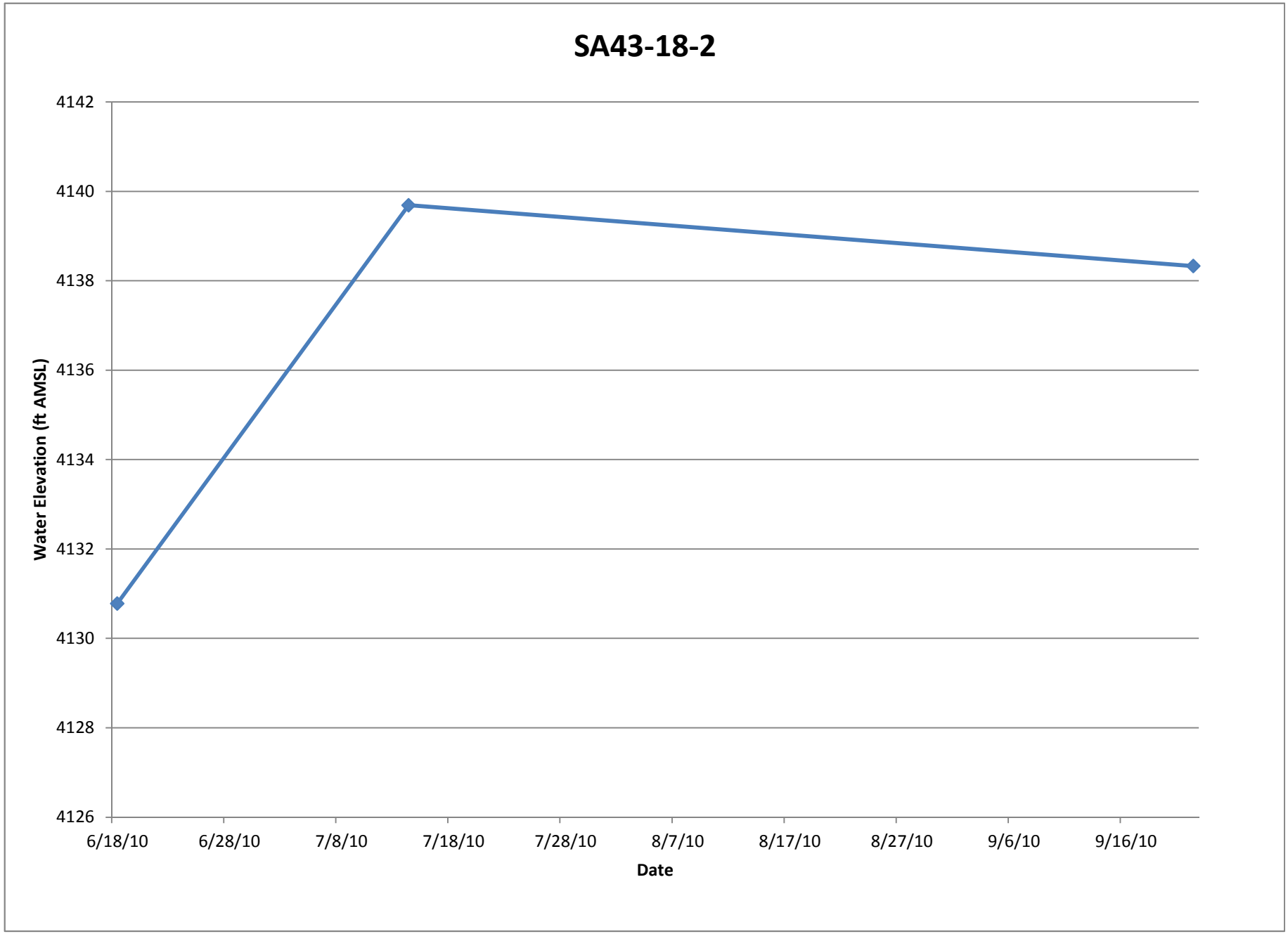
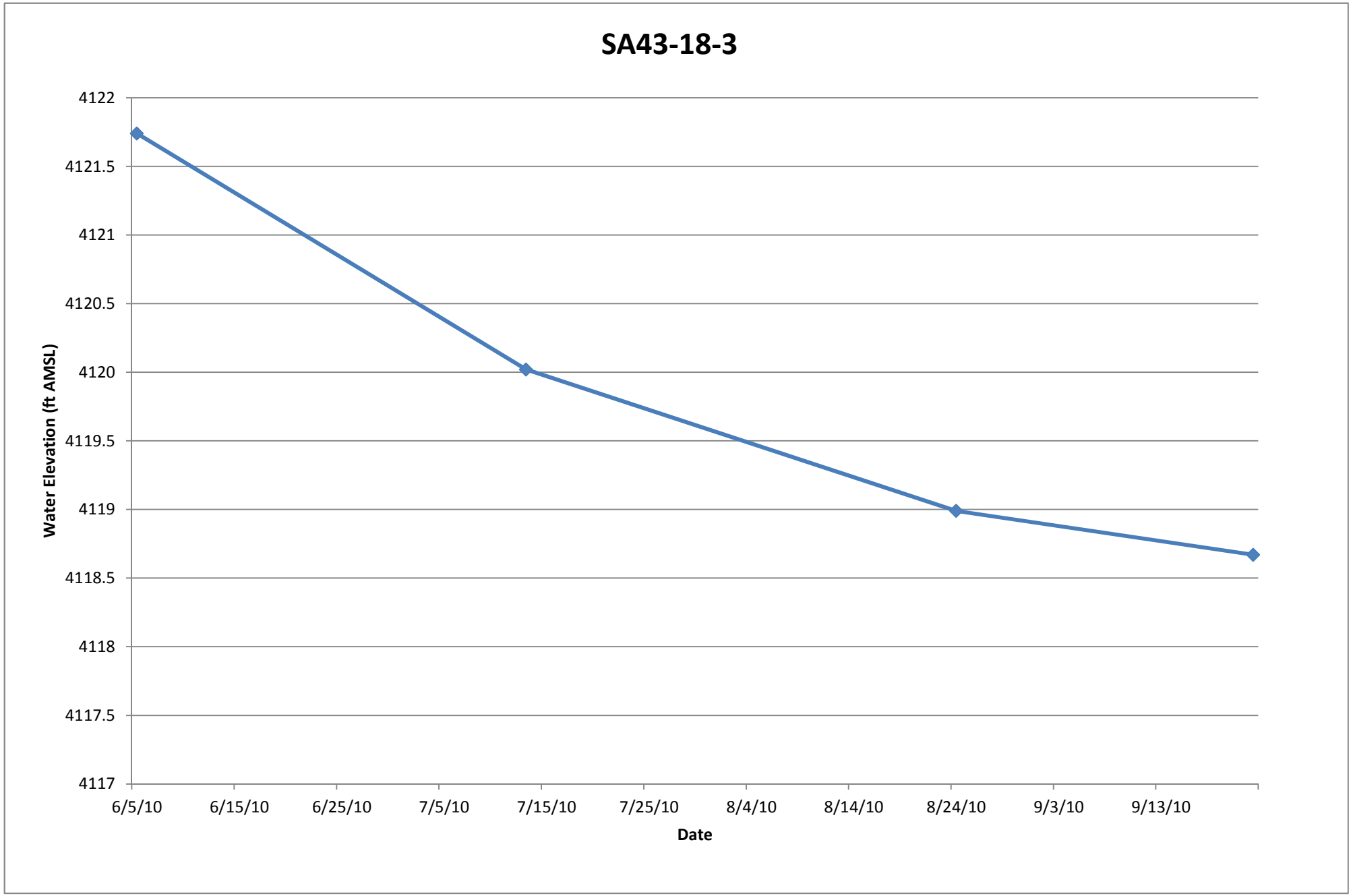
APPENDIX B


SA43-18-1
Water Elevation (ft AMSL)
4128
4127.9
4127.8
4127.7
4127.6
4127.5
4127.4
4127.3
4127.2
4127.1
4127
6/18/10
6/28/10
7/8/10
7/18/10
7/28/10
8/7/10
8/17/10
8/27/10
9/6/10
9/16/10
Date


SA43-18-2
Water Elevation (ft AMSL)
4142
4140
4138
4136
4134
4132
4130
4128
4126
6/18/10
6/28/10
7/8/10
7/18/10
7/28/10
8/7/10
8/17/10
8/27/10
9/6/10
9/16/10
Date


SA43-18-3
Water Elevation (ft AMSL)
4122
4121.5
4121
4120.5
4120
4119.5
4119
4118.5
4118
4117.5
4117
6/5/10
6/15/10
6/25/10
7/5/10
7/15/10
7/25/10
8/4/10
8/14/10
8/24/10
9/3/10
9/13/10
Date

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

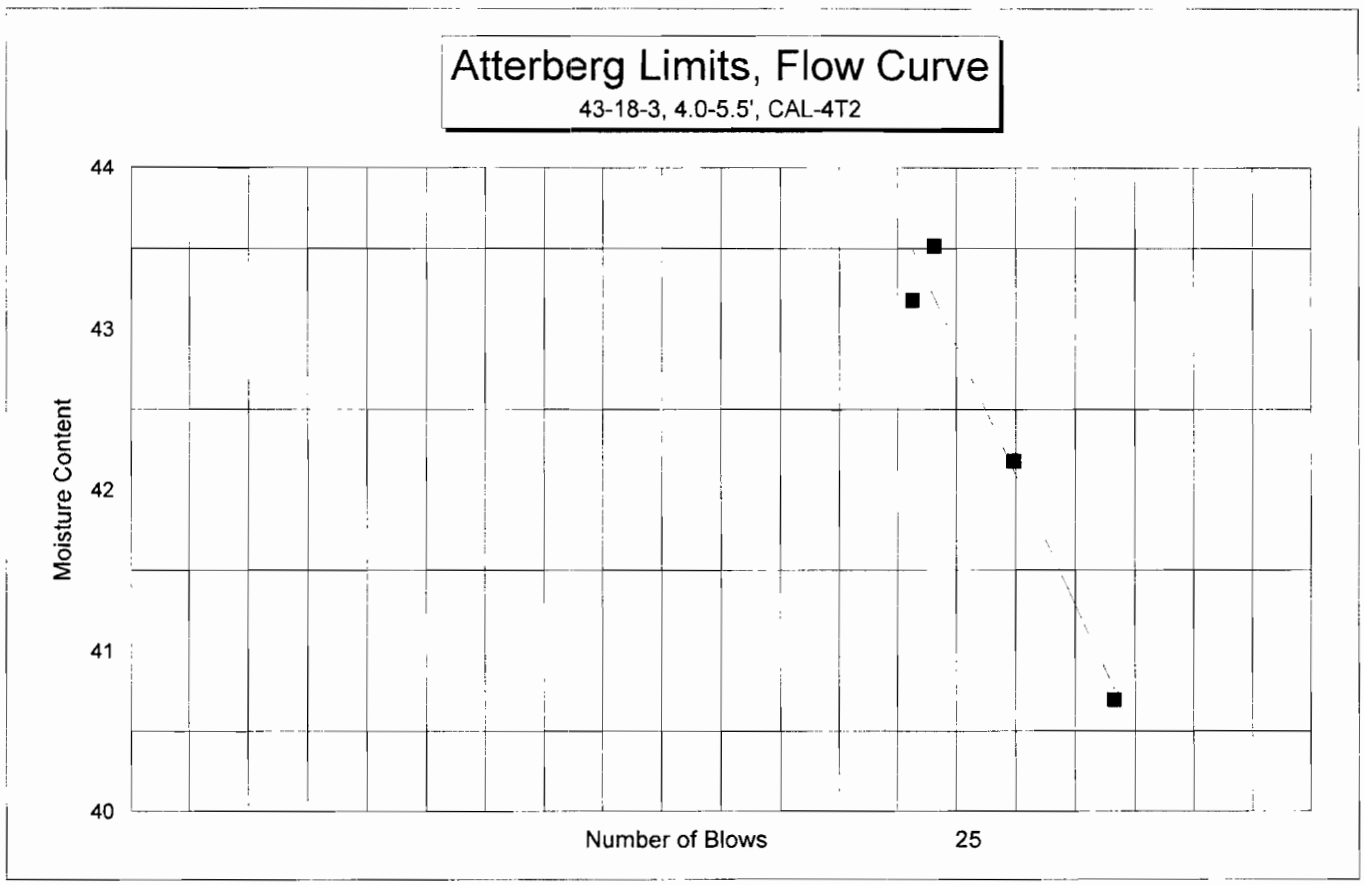
Liquid Limit Determination — Device Number 0860

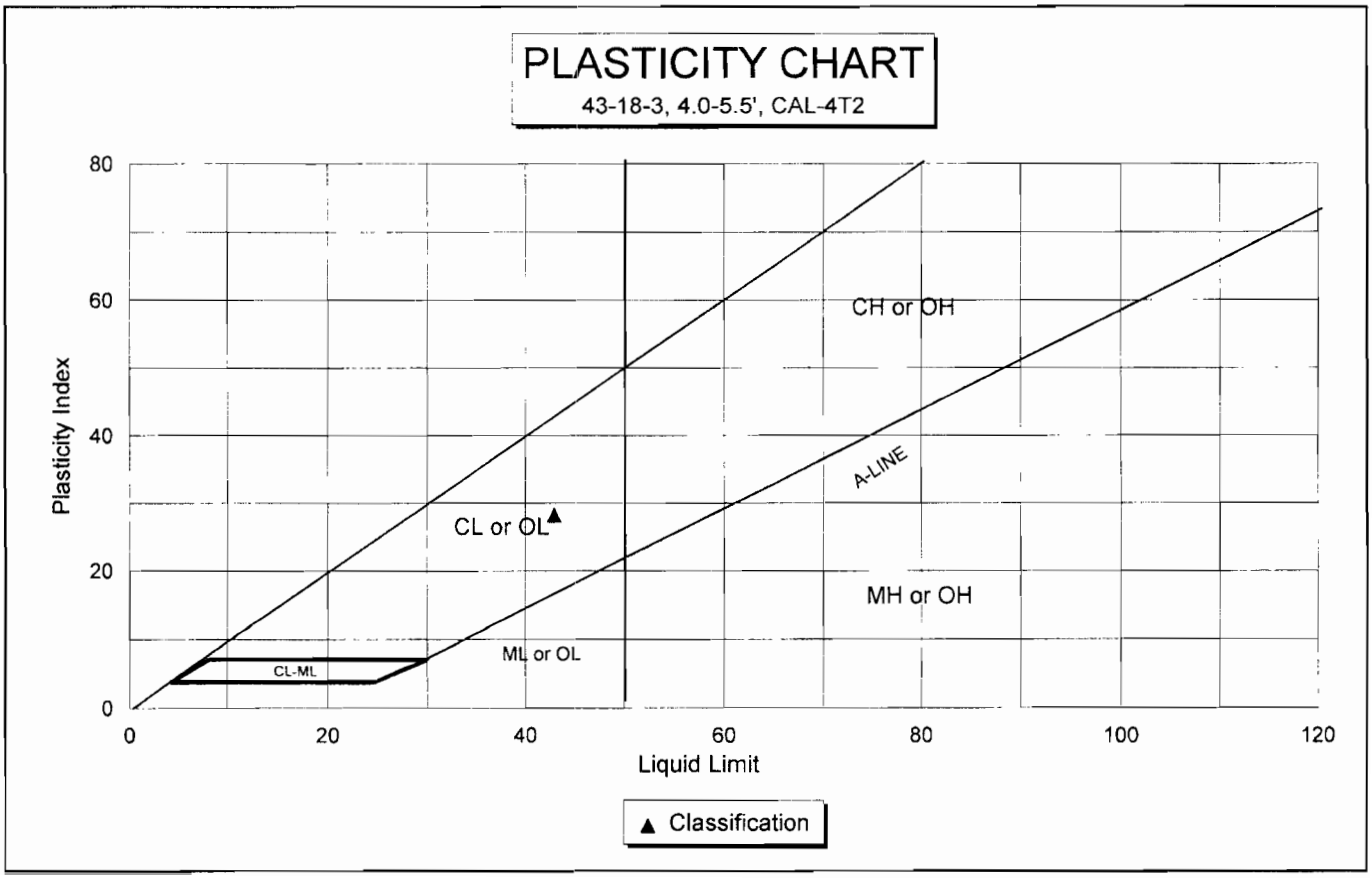
	1	2	3	4
Number of Blows	34	24	28	23
Wt Dish & Wet Soil	14.23	12.94	10.96	12.02
Wt Dish & Dry Soil	10.44	9.36	8.04	8.73
Wt of Moisture	3.79	3.58	2.92	3.29
Wt of Dish	1.14	1.15	1.12	1.12
Wt of Dry Soil	9.30	8.22	6.92	7.61
Moisture Content	40.69	43.51	42.18	43.18

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: Cle Date: 6/8/10
FileName: WSG0TTEN


Atterberg Limits, Flow Curve
43-18-3, 4.0-5.5', CAL-4T2
Moisture Content
44
43
42
41
40
Number of Blows
25


PLASTICITY CHART
43-18-3, 4.0-5.5', CAL-4T2
Plasticity Index
80
60
40
20
0
CH or OH
A-LINE
CL or OL
MH or OH
ML or OL
CL-ML
0
20
40
60
80
100
120
Liquid Limit
▲ Classification

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 Date: 06/08/2010
Data checked by: ae Date: 6/8/10
FileName: WSS0RATB

PERMEABILITY TEST - BACK PRESSURE SATURATED - FLOW PUMP METHOD
ASTM D 5084

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	CELL NUMBER	2P
LOCATION	Strata Energy	SATURATED TEST	Yes
CONF. PRES. PSF	720	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

TRIAXAL 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

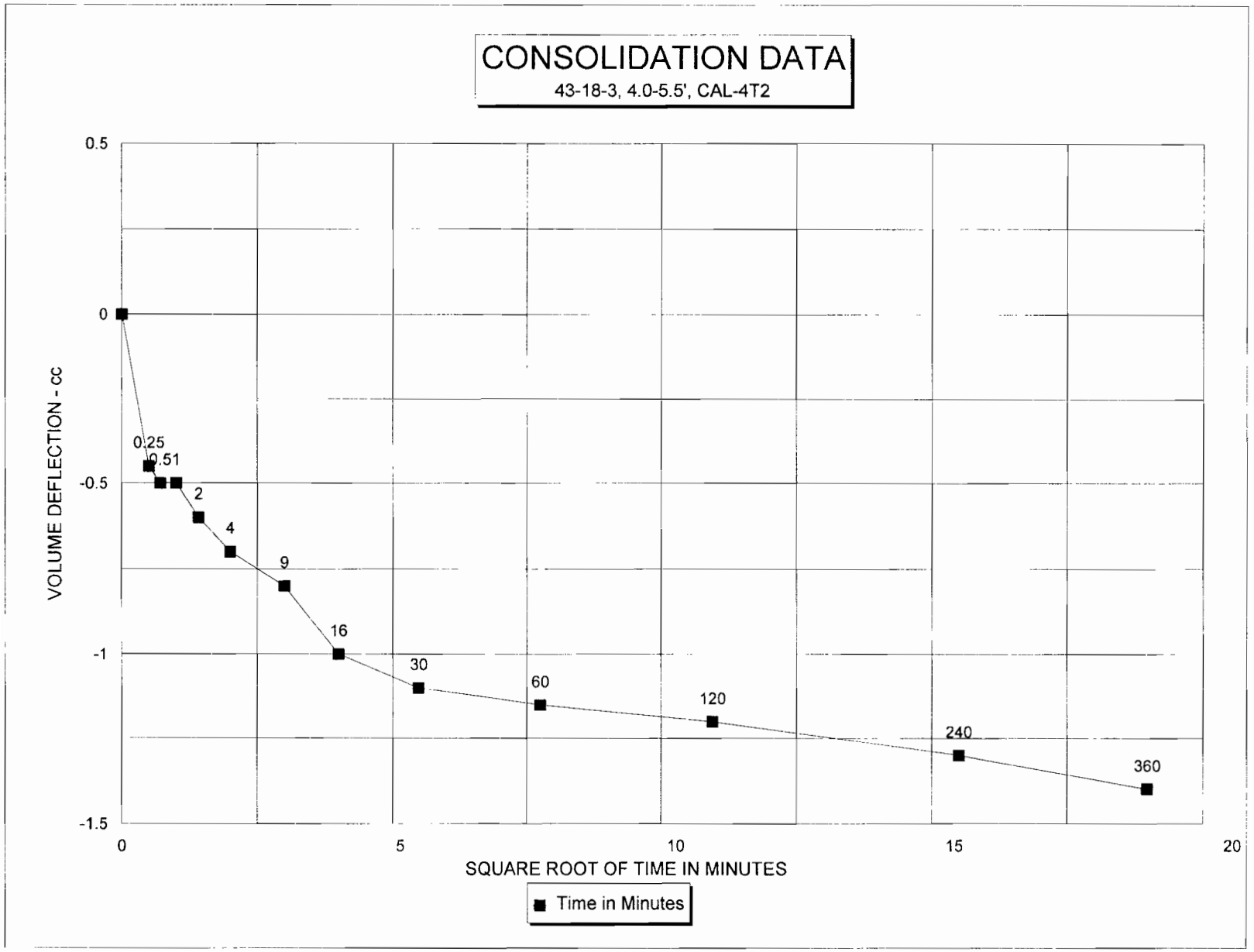
Cell Pres. (PSI)	Back Pres. (PSI)	Burette Reading (CC)		Pore Pressure (PSI)		Change	B
		Close	Open	Close	Open		
40.0	38.0	2.0	12.0				
50.0	48.0	10.1	11.4	38.6	47.6	9.0	0.90
60.0		11.6		48.6	58.3	9.7	0.97

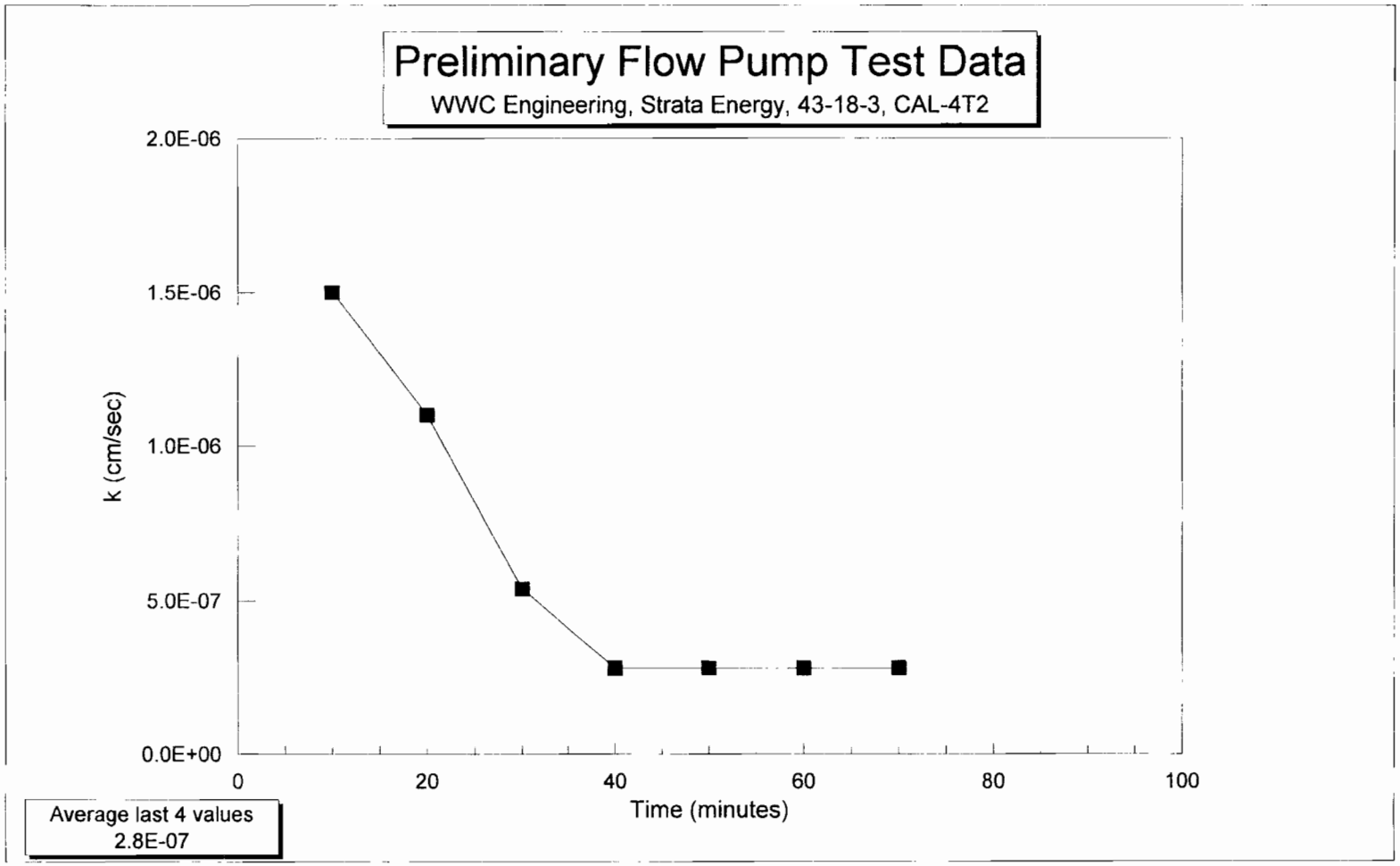
CONSOLIDATION DATA

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


CONSOLIDATION DATA
43-18-3, 4.0-5.5', CAL-4T2
VOLUME DEFLECTION - cc
0.5
0
-0.5
-1
-1.5
0.25
0.51
2
4
9
16
30
60
120
240
360
0
5
10
15
20
SQUARE ROOT OF TIME IN MINUTES
Time in Minutes



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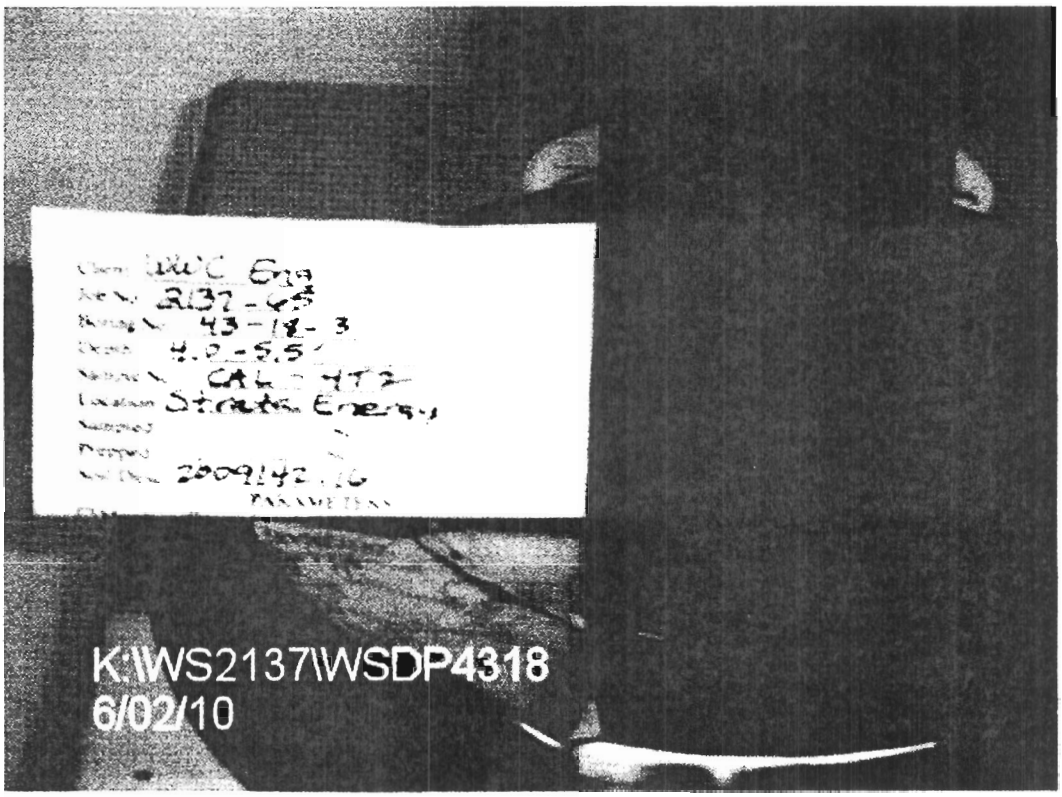
Date: 6-02-2010
Date Checked: 6-4-10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6/02/10