REPORT

SOIL AND WATER SAMPLING AND TESTING

WATER AND SEDIMENT IMPOUNDMENT LOCATIONS DOWNSTREAM OF

MT TAYLOR MINE WATER OUTFALL 001

January 26, 2015

Background and Purpose

Rio Grande Resources Corporation (RGR) has conducted several investigations of soil and water downstream of its Mt Taylor Mine Outfall 001, the discharge point for mine water. Mine water was treated to remove radium before discharge at Outfall 001 during the operating years into 1990, when mine operations were suspended. During those years of operation, the human health standard under 20.6.2.3103 (A) NMAC for uranium in water was 5 mg/L, but the current standard is 0.03 mg/L. During standby, Discharge Permit DP-61 has remained in effect, and as part of the permit renewal process, the New Mexico Environment Department (NMED) required RGR to conduct investigations of soil and water downstream of Outfall 001 in the San Lucas Creek drainage, where mine water was discharged under the old 5 mg/L standard, to determine whether elevated concentrations of uranium in the alluvial soil, ground water, or surface water exist there. In addition, NMED has requested information on selenium and molybdenum concentrations in the San Lucas drainage.

Three investigations of the soil and water downstream of Outfall 001 have been conducted. The first investigation of uranium in soil and water downstream of Outfall 001 was conducted in late 2013, and the results were reported in *Application for MMD Permit Revision and Modification of DP-61, Mt. Taylor Mine, April 2013; Rev 1, November, 2013, APPENDIX E, "Summary Report of Pipeline Outfall Investigations, Treated Mine Water Pipeline Outfall 001 at San Lucas Canyon"*.

A second investigation was conducted in September 2014 to evaluate U, Se, and Mo in shallow soils of San Lucas and San Miguel channels and diversions. In addition, one water sample was taken from San Miguel Creek. Attachment A contains the sample location map, Figure A-1, displaying the sample locations and test results and Table A.1, containing the location data and test results compared to standards. The purpose of this sampling and testing was to examine the shallow concentrations of U, Se, and Mo in locations downstream of San Lucas Canyon and in the San Miguel watershed. These constituents were not detected in most soil samples tested using EPA Method 6010B, and where detected, were present at very low levels. These constituents were not detected in the water sample tested using EPA Method 200.7 for molybdenum and 200.8 for uranium and selenium.

This report addresses the third sampling and testing of soil and water in the San Lucas drainage. This third investigation focused on areas where sediments and water are impounded, specifically the

Leopoldo sediment pond, the San Lucas channel downstream of that pond, and Laguna Polvadera (Figures 1, 2 and 3).

The purpose of this third investigation was to collect and test water samples from standing water as well as soil samples to 48 inches depth for U, Se, and Mo concentrations that were not sampled during the previous two investigations. The focus was on the Leopoldo and Laguna Polvadera basins where water and sediments are typically impounded after runoff events from San Lucas Canyon. These locations were selected because, if water or sediment were impacted by mine water discharge, it would most likely collect in these two locations, resulting in the highest concentrations of U, Se, and Mo there.

Scope of Investigations

Sampling

On October 15, 2014 soil samples were collected using a manually operated bucket auger at six locations shown on Figures 1, 2 and 3 and listed in Table 1. Samples were collected in one-foot intervals from ground surface to four feet (48 inches) depth and immediately placed in glass jars and sealed. The auger bucket was wiped clean after each sample was taken.

Three soil samples were collected at locations several hundred feet apart in the Leopoldo Diversion Dam basin and different than the locations used in the first investigation in 2013. No water samples were obtained at Leopoldo because there was no standing water at the time of sampling.

Three soil samples and two water samples were obtained at Laguna Polvadera locations shown on Figures 1, 2 and 3 and listed in Table 1. Water samples were taken as grab samples from standing water at two locations using a clean jar and immediately placed in glass jars with nitric acid.

Soil samples to 48 inches were collected at one location upstream of Outfall 001 at the upstream toe of San Lucas Dam, shown on Figure 4. This sample was collected to supplement a surface soil sample at a nearby location, taken in September 2014, to represent upstream background values associated with natural sources of U, Se, and Mo.

On November 19, 2014 an additional water sample was taken from each of the two Laguna Polvadera locations first sampled on October 15, 2014. These samples were collected at NMED's request for testing of general water chemistry.

Testing

Soil samples collected on October 15, 2014 were tested by Hall Environmental Analysis Laboratory using EPA Method 6010B for soil metals. Subsequently, these soil samples were tested again using EPA Method 6020A.

Water samples collected on October 15 were tested for uranium and selenium using EPA method 200.8 and EPA Method 200.7 for molybdenum and subsequently using EPA Method 6020A for all three analytes. Water samples collected on November 19 were tested by Hall Environmental Analysis Laboratory for anions using EPA Method 300.0, for dissolved metals using EPA Method 6010B, for specific conductance using SM2510B, for alkalinity using SM2320B, and for total dissolved solids using SM2540C MOD.

The laboratory test records are contained in Attachment B of this report.

Results of Investigation

The results of this investigation are displayed on Figures 1-4 and in Table 2 and Table 5. The numerical results reported below are the higher value produced by the two test methods used for each analyte.

Uranium

In soil samples, uranium was detected at low levels (up to 21.1 mg/kg) at all sampling locations listed in Table 1. At most locations, the highest concentration of uranium occurred in the top foot (Table 2), and the highest of these was 21.1 mg/kg at LLD-1-A in the sediment basin behind Leopoldo Diversion Dam. All of the U concentrations are below the NMED soil screening levels listed in Table 3. EPA Method 6020A produced higher U concentrations than EPA Method 6010B.

Uranium was detected in both Laguna Polvadera water samples; the LPV-02 sample taken near the center of the basin was 0.077 mg/L, which is above the human health standard of 0.03 mg/L (20.6.2.3103 (A) NMAC). The LPV-01 water sample, taken from the small pond at the south end of Laguna Polvadera, was 0.013 mg/L. EPA Method 6020A produced slightly lower U concentrations in water than EPA Method 200.8.

Selenium

Selenium was detected in only four of 28 soil samples, the highest concentration of these being 9.16 mg/kg in the top one foot of LDD-01, which is below NMED screening levels. EPA Method 6020A produced higher Se concentrations than EPA Method 6010B.

Levels of selenium were measured in the water samples from Laguna Polvadera, 0.00735 mg/L at LPV-01 and 0.0116 mg/L at LPV-02, both below the NMED human health standard. EPA Method 6020A produced slightly higher Se concentrations than EPA Method 200.8.

Molybdenum

Molybdenum was detected in all samples of soil and water. In general, the Mo concentrations in soil were highest in the top samples at each location, the exceptions being LDD-03 and SLD-01. As found for uranium and selenium, the highest Mo value was in the top one foot of LDD-01, 14.0 mg/kg, which is

below NMED screening levels. In 17 of the 28 soil samples, EPA Method 6020A produced lower Mo concentrations than EPA Method 6010B.

The LPV-01 water sample had much lower Mo concentration, 0.0103 mg/L, than in the LPV-02 sample, 0.16 mg/L. Both of these water concentrations are below the NMED agricultural standard for Mo of 1 mg/L. EPA Method 6020A and EPA Method 200.7 produced similar results for Se concentrations.

Water Chemistry of Laguna Polvadera

The water chemistry of the Laguna Polvadera water samples collected on November 19 is listed on Table 5. The contrast between sample LPV-01a (taken from the small basin at the inlet to Laguna Polvadera) and sample LPV-02a from the main pond is evident – sulfate, calcium, sodium, conductivity and total dissolved solids are substantially lower in the small basin, near the inlet, than in the main body of water. Sulfate and total dissolved solids in the LPV-02a sample exceed the standards in 20.6.2.3103 (A, B, C) NMAC.

Results are summarized on Tables 2, 3, 4, and 5.

Evaluation of Results

Soil Standards Used

Concentrations of the three tested analytes in the soil samples have been evaluated against *New Mexico Risk Assessment Guidance for Site Investigations and Remediation, 2012, Appendix A, NMED Soil Screening Levels, Table A-2*, Dilution and Attenuation Factor (DAF) =20.

Other references for heavy metal limits and applications in agriculture have also been reviewed to determine if any of these standards are applicable and, if so, are exceeded by the tested levels of U, Se, and Mo:

- Organic Agricultural Product and Organic Agricultural Processed Product on Certification Management Regulations (http://eng.coa.gov.tw/content.php?catid=13623&hot_new=8864) no organic product standards for U, Se, or Mo.

- The "Heavy Metal Rule" of the Association of American Plant Food Control Officials rules (http://www.aapfco.org/rules.html) has no standard for uranium and allows 26 mg/kg Se and 42 mg/kg Mo per pound of 1% P_2O_5 fertilizer. The US Department of Agriculture lists Se and Mo as organic crop nutrients, underscoring the benefit of Se and Mo within these limits (http://www.ams.usda.gov/AMSv1.0/getfile?dDocName=STELPRDC5074185).

- 7CFR205.601, Synthetic substances allowed for use in organic crop production, includes sulfate of Se and Mo in the list of micronutrients allowed in organic agricultural practices. (http://www.gpo.gov/fdsys/pkg/CFR-2012-title7-vol3/xml/CFR-2012-title7-vol3-sec205-601.xml)

- 21.15.1 NMAC, Organic Agriculture, is silent regarding U, SE, and Mo in organic agriculture.

Water Standards Used

The New Mexico human health standards for ground water (20.6.2.3103 (A,B) NMAC) and for agricultural use (20.6.2.3103 (C) NMAC) were used to evaluate test results for water samples. Although surface water standards do not apply to requirements of DP-61, New Mexico surface water standards (20.6.4.900 NMAC) were also compared to the water test results.

Screening

Absent other rules or guidance, the NMED's screening levels for soil and the NMED's standards for water were used to evaluate the concentrations of U, Se, and Mo found in this sampling and testing program. Soil screening levels are used by NMED to separate soil contaminant levels that may require further investigation and, potentially, remedial measures from those that do not rise to the level for such actions. Soil screening levels and ground water standards are listed in Table 3 for the residential and industrial uses and for the risk-based dilution attenuation factor (DAF) of 20, together with the highest measured contaminant levels from this sampling and testing program.

Site Risk and Site Hazard Index

The results of the investigation were evaluated with respect to Site Risk and Site Hazard Index. Site Risk (total cancer risk), is defined as the chance of harmful effects to human health or to ecological systems posed by U, Se, and Mo compared to the screening levels for those elements, applying the principles described in http://epa.gov/riskassessment/basicinformation.htm#risk and also following guidance in *New Mexico Environment Department, Risk Assessment Guidance for Site Investigations and Remediation, February 2012, (updated June 2012), Appendix A, NMED Soil Screening Levels, Table A-1.* The Site Hazard Index compares the concentrations of U, Se and Mo to the hypothetical hazard posed by these elements if they existed at their respective screening levels. Table 4 lists the Site Risk and Site Hazard Index values of combined U, Se, and Mo concentrations for the residential, industrial and DAF=20 screening levels.

Environmental, Agricultural or Human Health Risks

Results of this investigation relative to New Mexico criteria are summarized as follows:

- Uranium concentrations in soil samples are detectable only in the surficial soils (<1 foot depth) and are below both the New Mexico residential and industrial soil screening levels.

- Of the water samples tested, only LPV-02 had uranium above the ground water standard for human health (20.6.2.3103 (A,B)). LPV-02a contained concentrations of sulfate and total dissolved solids above the NMED's human health standard, as well. However, the water of Laguna Polvadera is not used for human consumption and is not known to be hydrologically connected to an aquifer. The U, Se, and Mo concentrations in Laguna Polvadera water samples

meet water quality criteria for irrigation, irrigation storage, livestock watering, and wildlife habitat (20.6.4.900 NMAC).

- Because Laguna Polvadera is a bolson that is seldom, if ever, flushed, it is likely that the uranium and other constituents in the water have gradually increased over many years. The much lower concentrations of U, anions, dissolved metals, conductivity and total dissolved solids in the water of the small pool at the upstream end of Laguna Polvadera (samples LPV-01 and LPV-01a) versus the larger main pool (samples LPV-02 and LPV-02a) supports this scenario. Selenium levels in both soil and water are low, well below the NMED soil screening levels as well as the NMED ground water standard for human health (20.6.2.3103(A) NMAC) and for surface water (20.6.4.900 NMAC).

- Molybdenum levels in soil samples are well below NMED screening levels, and levels in water samples are well below NMED ground water and surface water standards.

- The highest measured concentrations of U, Se, and Mo in soil are well below the NMED's risk-based DAF =20 level.

- All Site Risk values are below 10^{-5}, and all Site Hazard Index values are below the target value of 1.

These results indicate that no additional characterization efforts are needed, and existing levels of U, Se, and Mo pose no concerns that warrant further action.

Table 1 Sample Locations

Location Number	Soil Description	Total Depth of Auger Hole	Location	NAD 83 Coordinates	
				Northing	Easting
LPV-01	Brown Silty Clay (CL)	48"	Laguna Polvadera	1615892	2784989
LPV-02	Brown Silty Clay (CL)	48"	Laguna Polvadera	1616319	2784757
LPV-03	Brown Silty Clay (CL)	48"	Laguna Polvadera	1616528	2785183
LDD-01	Brown Silty Clay (CL)	48"	Leopoldo Diversion Dam	1612824	2783820
LDD-02	Brown Silty Clay (CL)	48"	Leopoldo Diversion Dam	1612906	2783599
LDD-03	Brown Silty Clay (CL)	48"	Leopoldo Diversion Dam	1613063	2783523
SLD-01	Brown Sandy Clay	48"	San Lucas Dam	1600454	2781177
LPV-01 Water	Water	NA	South Pond in Laguna Polvadera	1615447	2784941
LPV-02 Water	Water	NA	North Pond in Laguna Polvadera	1616574	2784863

Table 2 Laboratory Test Results Using EPA Method 6010B and 6020A

	Sample Number	Soil Description	Sample Depth Inches	Uranium U*	Selenium Se*	Molybdenum Mo*
Laguna Polvadera	LPV-01-A	CL	0-6	9.8/*13.8*	ND/*2.77*	9.0/*9.43*
	LPV-01-B	CL	6-12	ND/*2.81*	ND/*ND*	3.2/*3.08*
	LPV-01-C	CL	24-30	ND/*2.06*	ND/*1.02*	1.4/*1.46*
	LPV-01-D	CL	38-48	ND/*1.23*	ND/*ND*	0.79/ *ND*
	LPV-02-A	CL	0-6	9.1/*14.0*	ND/*ND*	6.4/*7.47*
	LPV-02-B	CL	6-12	ND/*1.58*	ND/*ND*	1.8/*1.96*
	LPV-02-C	CL	24-30	ND/*1.2*	ND/*ND*	1.0/ *ND*
	LPV-02-D	CL	38-48	ND/ *ND*	ND/*ND*	1.4/*1.65*
	LPV-03-A	CL	0-6	ND/*7.73*	ND/*ND*	4.7/*5.52*
	LPV-03-B	CL	6-12	ND/*2.61*	ND/*ND*	1.7/*1.44*
	LPV-03-C	CL	24-30	ND/*3.58*	ND/*ND*	1.9/*1.77*
	LPV-03-D	CL	38-48	ND/*1.05*	ND/*ND*	0.67/ *ND*
	LPV-01	Water	NA	0.013/*0.0126*	0.0031/*0.00735*	0.0063/*0.0103*
	LPV-02	Water	NA	0.077/*0.0687*	0.0096/*0.0116*	0.16/*0.153*
Leopoldo Diversion Dam	LDD-01-A	CL	0-6	16/*21.1*	5.4/*9.16*	14.0/*12.0*
	LDD-01-B	CL	6-12	ND/*2.27*	ND/*ND*	2.6/ *2.65*
	LDD-01-C	CL	24-30	ND/*1.26*	ND/*ND*	0.64/ *ND*
	LDD-01-D	CL	38-48	ND/*ND*	ND/*ND*	0.62/*ND*
	LDD-02-A	CL	0-6	8.4/*20.7*	ND/*7.76*	9.0/*11.7*
	LDD-02-B	CL	6-12	ND/*3.13*	ND/*ND*	2.3/*1.88*
	LDD-02-C	CL	24-30	ND/*1.46*	ND/*ND*	1.7/*1.03*
	LDD-02-D	CL	38-48	ND/*1.06*	ND/*ND*	0.58/ *ND*
	LDD-03-A	CL	0-6	ND/*1.63*	ND/*ND*	0.65/ *ND*
	LDD-03-B	CL	6-12	ND/*4.52*	ND/*ND*	2.6/*2.76*
	LDD-03-C	CL	24-30	ND/*1.62*	ND/*ND*	1.1/*1.21*
	LDD-03-D	CL	38-48	ND/ *1.03*	ND/*ND*	0.58/ *ND*
San Lucas Dam	SLD-01-A	CL	0-6	ND/*1.60*	ND/*ND*	0.55/ *ND*
	SLD-01-B	CL	6-12	ND/*1.67*	ND/*ND*	0.5/ *ND*
	SLD-01-C	CL	24-30	ND/*1.15*	ND/*ND*	0.45/ *ND*
	SLD-01-D	CL	38-48	ND/*2.34*	ND/*ND*	1.2/*1.43*

Soil concentrations in mg/kg, water concentrations in mg/L; ND = non-detect

CL = clay or sandy clay, low to moderate plasticity

* results using Method 6010B/*Method 6020A* for soil; Method 200.7 or 200.8/*Method 6020A* for water

Table 3 Comparison of Results to Standards

Contaminant	SOIL				WATER	
	Highest Measured Value, (2) mg/kg	**NMED Soil Screening Levels (1)**			**Highest Measured Value, (2) mg/L**	Ground Water Standard (3) mg/L
		Residential mg/kg	Industrial/ Occupational mg/kg	Risk-based, DAF=20, mg/kg		
Uranium (soluble salts)	**21.1**	235	3410	986	**0.077**	0.03
Selenium	**9.16**	391	5680	19.3	**0.0116**	0.05
Molybdenum	**14**	391	5680	74	**0.16**	1 (4)

(1) New Mexico Environment Department, Risk Assessment Guidance for Site Investigations and Remediation, February 2012, (updated June 2012), Appendix A, NMED Soil Screening Levels, Table A-1
(2) Based on values tested using both EPA Method 6010B and EPA Method 6020A for soil; EPA method 200.8 and EPA Method 200.7 and EPA Method 6020A for water .
(3) 20.6.2.3103 (A) NMAC for human health
(4) New Mexico standard for agricultural use, 20.6.2.3103(C) NMAC

Table 4 - Site Risk and Site Hazard Index of Soils Downstream of Outfall 001 in San Lucas Drainage

	Highest Measured Value, mg/kg	NMED Soil Screening Levels (1)		
		Residential mg/kg	Industrial/ Occupational mg/kg	Risk-based, DAF=20, mg/kg
Uranium (soluble salts)	**16**	235	3410	986
Selenium	**5.4**	391	5680	19.3
Molybdenum	**14**	391	5680	74
SITE RISK AND SITE HAZARD INDEX FOR U+Se+Mo				
U/U SSL =		0.068	0.005	0.016
Se/SE SSL=		0.014	0.001	0.280
Mo/Mo SSL =		0.036	0.002	0.189
Site Risk = (U/U SSL+Se/Se SSL +Mo/Mo SSL)* 10^-5 =		1.18E-06	8.11E-08	4.85E-06
Site Risk > 10^{-5} ?		**No**	**No**	**No**
Site Hazard Index, HI = (U/U SSL+Se/Se SSL +Mo/Mo SSL)*1=		4.96E-02	3.42E-03	4.69E-01
HI> 1 ?		**No**	**No**	**No**

References:

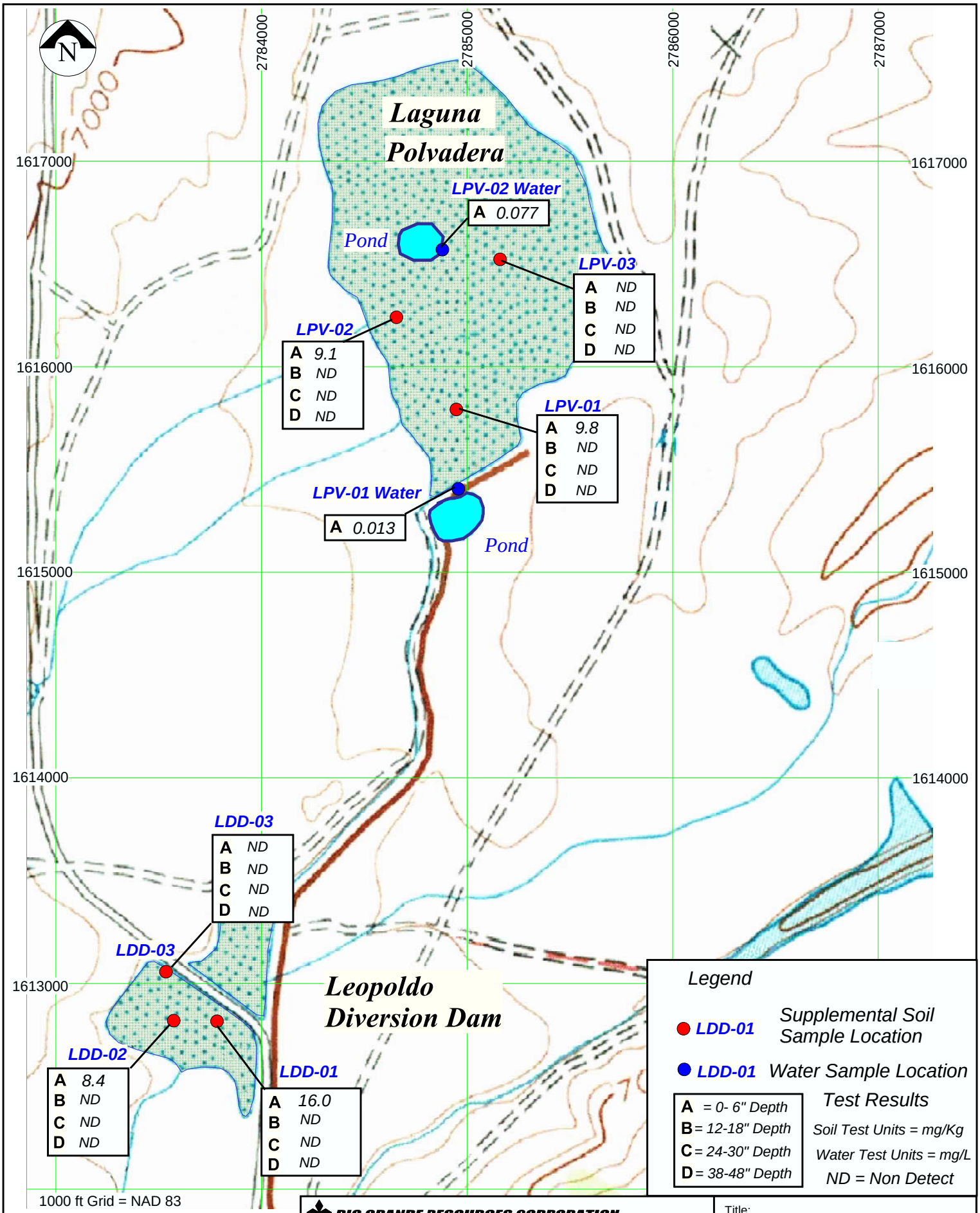
(1) New Mexico Environment Department, Risk Assessment Guidance for Site Investigations and Remediation, February 2012,(updated June 2012), Appendix A, NMED Soil Screening Levels, Table A-2

Table 5 Water Chemistry of Samples from Laguna Polvadera

Analyte	Result, mg/L Sample # LPV-01a	RL	DF	Result, mg/L Sample # LPV-02a	RL	DF	EPA Method
Fluoride	0.51	0.50	5	1.1	0.50	5	300.0: ANIONS
Chloride	10	2.5	5	36	2.0	5	300.0: ANIONS
Nitrogen, Nitrite (As N)	ND	0.50	5	ND	0.50	5	300.0: ANIONS
Bromide	ND	0.50	5	0.78	0.50	5	300.0: ANIONS
Nitrogen, Nitrate (As N)	ND	0.50	5	ND	2.5	5	300.0: ANIONS
Phosphorus, Orthophosphate (As P)	ND	2.5	5	ND	10	5	300.0: ANIONS
Sulfate	130	2.5	5	740		20	300.0: ANIONS
Calcium	51	1.0	1	160	5.0	5	6010B: DISSOLVED METALS
Magnesium	18	1.0	1	48	1.0	1	6010B: DISSOLVED METALS
Potassium	25	1.0	1	59	1.0	1	6010B: DISSOLVED METALS
Sodium	11	1.0	1	140	5.0	5	6010B: DISSOLVED METALS
Conductivity, µmhos/cm	500	0.010	1	1500	0.010	1	SM2510B: SPECIFIC CONDUCTANCE
Bicarbonate (As CaCO3)	100	20	1	81	20	1	SM2320B: ALKALINITY
Carbonate (As CaCO3)	ND	2.0	1	ND	2.0	1	SM2320B: ALKALINITY
Total Alkalinity (as CaCO3)	100	20	1	82	20	1	SM2320B: ALKALINITY
Total Dissolved Solids	342	40.0	1	1320	40.0	1	SM2540C MOD: TOTAL DISSOLVED SOLIDS

RL = Reporting Detection Limit, mg/L

DF= Dilution Factor



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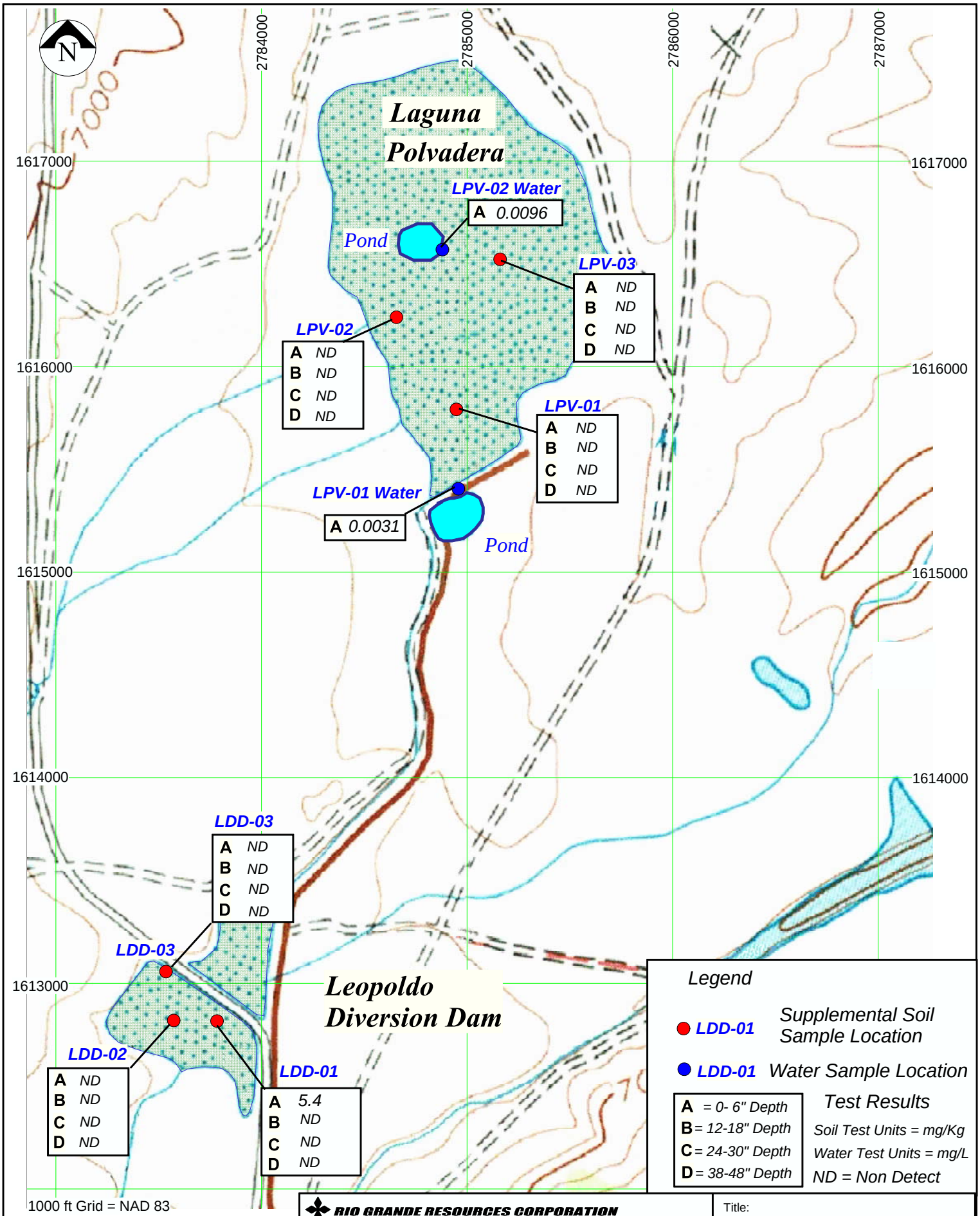
MOUNT TAYLOR MINE - San Mateo, NM

Prepared By:	Sample Date	Figure No. 1
Alan Kuhn Associates LLC	10-15-14	

Title:

Uranium Test Results

Samples Downstream of Outfall 001



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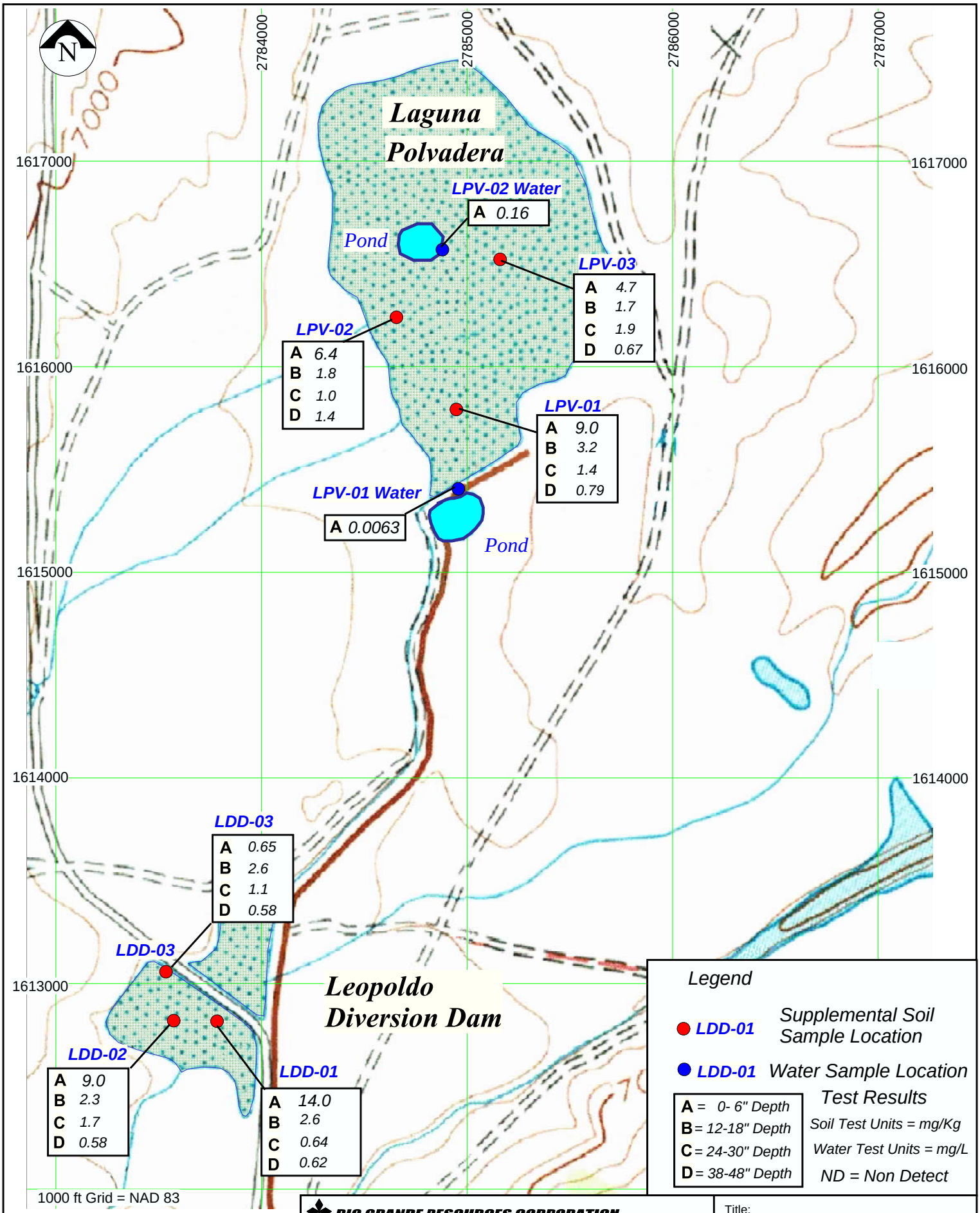
MOUNT TAYLOR MINE - San Mateo, NM

Prepared By:	Sample Date	Figure No. 2
Alan Kuhn Associates LLC	10-15-14	

Title:

Selenium Test Results

Samples Downstream of Outfall 001



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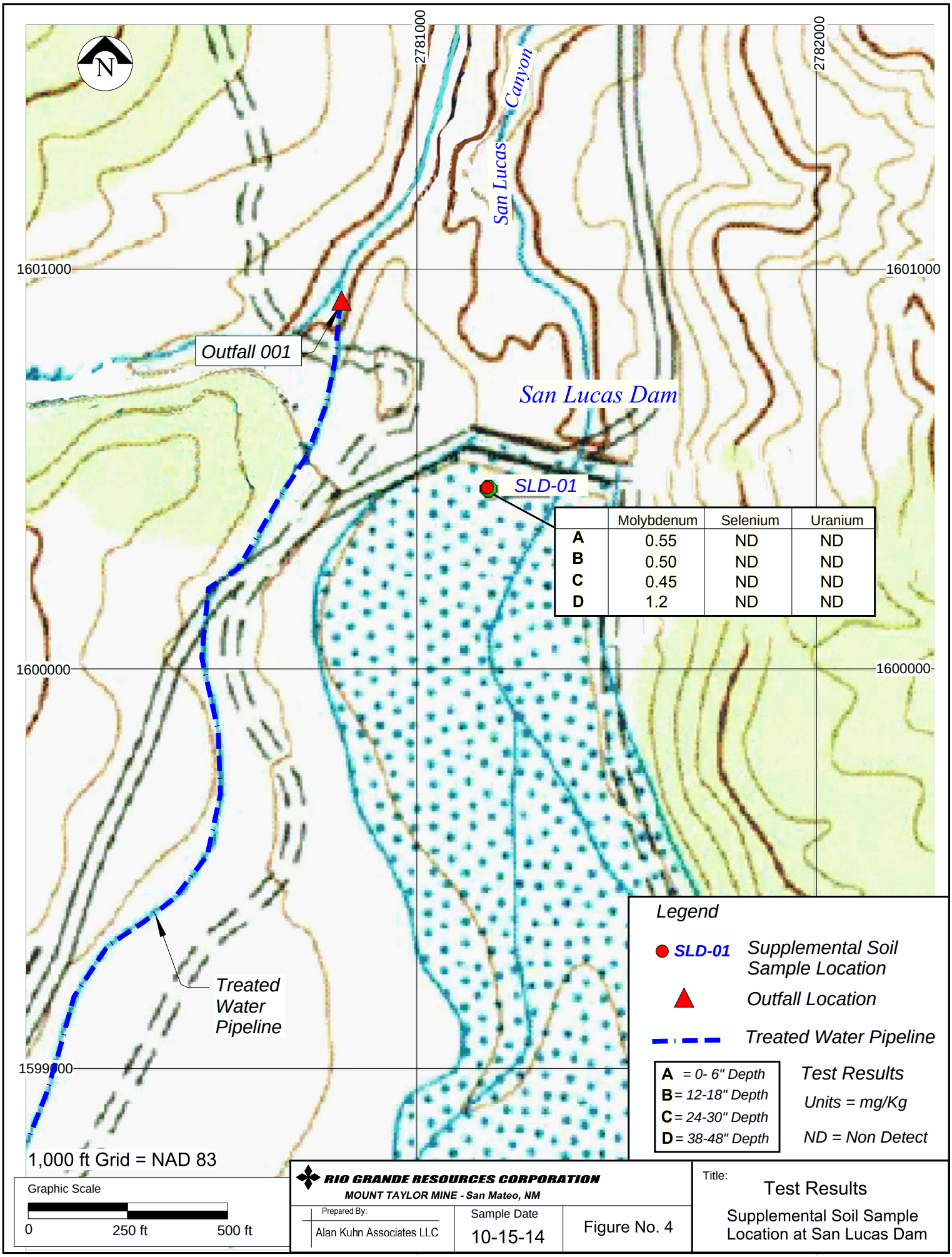
MOUNT TAYLOR MINE - San Mateo, NM

Prepared By:	Sample Date	Figure No. 3
Alan Kuhn Associates LLC	10-15-14	

Title:

Molybdenum Test Results

Samples Downstream of Outfall 001



	Molybdenum	Selenium	Uranium
A	0.55	ND	ND
B	0.50	ND	ND
C	0.45	ND	ND
D	1.2	ND	ND

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MOUNT TAYLOR MINE - San Mateo, NM

Prepared By: Alan Kuhn Associates LLC

Sample Date: 10-15-14

Figure No. 4

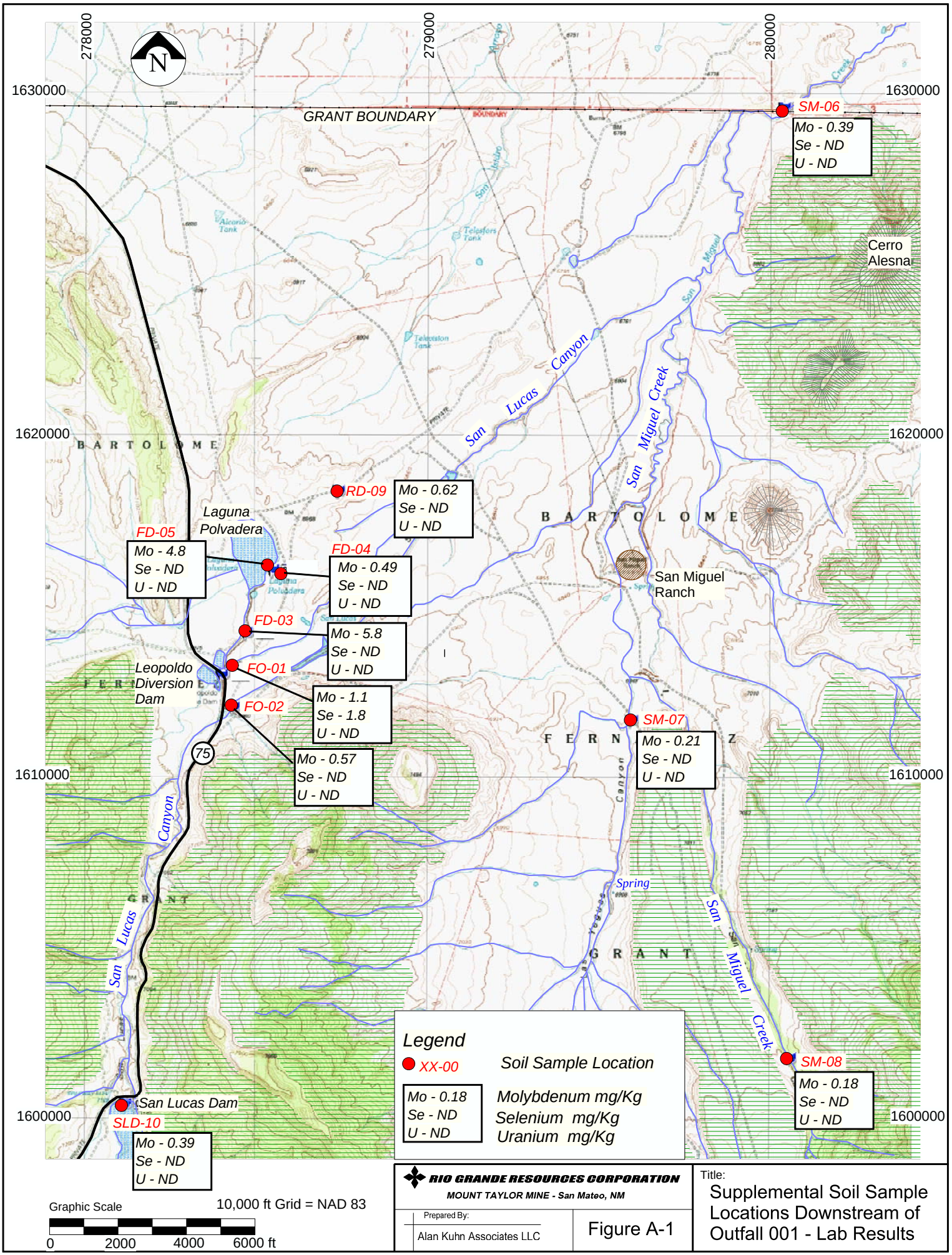
Title: Test Results

Supplemental Soil Sample Location at San Lucas Dam

ATTACHMENT A

LEE RANCH SHALLOW SOIL AND WATER SAMPLING AND TESTING FOR U, SE, and MO

- Figure A-1 Supplemental Soil Sample Locations Downstream of Outfall 001
- Table A.1 Lee Ranch Shallow Soil Sample Test Results
- Test Data, Lee Ranch Shallow Soil, Hall Environmental Analysis Laboratory, 9/29/2014



RIO GRANDE RESOURCES CORPORATION

MOUNT TAYLOR MINE - San Mateo, NM

Prepared By:

Alan Kuhn Associates LLC

Figure A-1

Title:

Supplemental Soil Sample Locations Downstream of Outfall 001 - Lab Results

Table A1 Lee Ranch Shallow Soil Sample Test Results

Samples collected on 9/18/2014 10/16/2014

		Coordinate Systems							Laboratory Test Results (1), mg/kg		
		NAD 83 NM State Plane West		Latitude/Longitude Decimal Degrees							
Sample No.	Type	Easting	Northing	Latitude North	Longitude West	Location Description	Sample Depth	Sample Type	U	Se	Mo
FO-01	2-Jars	2783988	1612970	35.432987	-107.628908	Downstream of Outlet at Leopoldo Dam in bottom of channel	6"	Grab from Shovel	ND	1.8	1.1
FO-02	2-Jars	2784329	1612028	35.430396	-107.627769	Downstream of Outlet at Leopoldo Dam in bottom of channel	12"	Grab from Shovel	ND	ND	0.57
FD-03	2-Jars	2784700	1614200	35.436362	-107.626508	Downstream of road culvert for diversion ditch	12"	Grab from Shovel	ND	ND	5.8
FD-04	2-Jars	2785908	1616049	35.441435	-107.62244	Sample upstream of cattle crossing near Laguna Polvadera	6"	Grab from Shovel	ND	ND	0.49
FD-05	2-Jars	2785475	1616041	35.441415	-107.623895	Sample downstream of cattle crossing near Laguna Polvadera	12"	Grab from Shovel	ND	ND	4.8
SM-06	2-Jars	2800383	1629590	35.478542	-107.573724	Sample taken upstream of cattle crossing of San Miguel Creek at boundary fence.	12"	Grab from Shovel	ND	ND	0.39
SM-07	2-Jars	2795961	1611662	35.429319	-107.588725	Sample Taken Upstream of San Miguel Creek Road Crossing in bottom of stream channel	12"	Grab from Shovel	ND	ND	0.21
SM-08	2-Jars	2800609	1601789	35.40216	-107.57321	Sample in San Miguel Canyon at edge of flowing stream. Also collected water sample	6"	Grab from Shovel	soil ND water ND	soil ND water ND	soil 0.18 water ND
RD-09	2-Jars	2787387	1618352	35.447753	-107.617457	Road Crossing of Diversion Channel	6"	Grab from Shovel	ND	ND	0.62
SLD-10	2-Jars	2781188	1600427	35.398539	-107.638389	Upstream of San Lucas Dam Near Intake	12"	Grab from Shovel	ND	ND	0.34
NM Soil Screening Levels, mg/kg								Residential	235	391	391
(from NMED, 2012*, App. A Table A-1)						Default dilution attenuation factor (DAF) = 1, no dilution			49.3	0.965	3.7
						Default dilution attenuation factor (DAF) = 20, normal dilution through soil			986	19.3	74
Ground Water Standards, mg/l, per 20.6.2. 3103 A NMAC									0.03	0.05	1.0

* New Mexico Environment Department, Risk Assessment Guidance for Site Investigations and Remediation, February 2012, (updated June 2012), Appendix A, NMED Soil Screening Levels, Table A-1

(1) Test results using EPA Method 6010B

Analytical Report
Lab Order: **1409963**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: FO-01 a+b
Project: RGR OUTFALL
Collection Date: 9/18/2014 11:00:00 AM
Lab ID: 1409963-001A
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Molybdenum	1.1	0.085	0.39		mg/Kg	1	9/29/2014 12:10:40 PM	15535
Selenium	1.8	1.5	2.4	J	mg/Kg	1	9/29/2014 12:10:40 PM	15535
Uranium	ND	0.99	4.9		mg/Kg	1	9/29/2014 12:10:40 PM	15535

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Analytical Report
Lab Order: **1409963**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: FO-02 a+b
Project: RGR OUTFALL
Collection Date: 9/18/2014 11:30:00 AM
Lab ID: 1409963-002A
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Molybdenum	0.57	0.18	0.80	J	mg/Kg	2	9/29/2014 12:31:58 PM	15535
Selenium	ND	3.1	5.0		mg/Kg	2	9/29/2014 12:31:58 PM	15535
Uranium	ND	2.0	10		mg/Kg	2	9/29/2014 12:31:58 PM	15535

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Analytical Report
Lab Order: **1409963**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: FD-03 a+b
Project: RGR OUTFALL
Collection Date: 9/18/2014 11:40:00 AM
Lab ID: 1409963-003A
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Molybdenum	5.8	0.17	0.79		mg/Kg	2	9/29/2014 12:33:47 PM	15535
Selenium	ND	3.0	4.9		mg/Kg	2	9/29/2014 12:33:47 PM	15535
Uranium	ND	2.0	9.8		mg/Kg	2	9/29/2014 12:33:47 PM	15535

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Analytical Report
Lab Order: **1409963**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: FD-04 a+b
Project: RGR OUTFALL
Collection Date: 9/18/2014 11:50:00 AM
Lab ID: 1409963-004A
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Molybdenum	0.49	0.17	0.78	J	mg/Kg	2	9/29/2014 12:35:15 PM	15535
Selenium	ND	3.0	4.9		mg/Kg	2	9/29/2014 12:35:15 PM	15535
Uranium	ND	2.0	9.8		mg/Kg	2	9/29/2014 12:35:15 PM	15535

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Analytical Report
Lab Order: **1409963**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: FD-05 a+b
Project: RGR OUTFALL
Collection Date: 9/18/2014 12:15:00 PM
Lab ID: 1409963-005A
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Molybdenum	4.8	0.17	0.78		mg/Kg	2	9/29/2014 12:38:19 PM	15535
Selenium	ND	3.0	4.9		mg/Kg	2	9/29/2014 12:38:19 PM	15535
Uranium	ND	2.0	9.7		mg/Kg	2	9/29/2014 12:38:19 PM	15535

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Project: RGR OUTFALL
Lab ID: 1409963-006A

Client Sample ID: SM-06 a+b
Collection Date: 9/18/2014 12:50:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Molybdenum	0.39	0.17	0.80	J	mg/Kg	2	9/29/2014 12:45:09 PM	15536
Selenium	ND	3.1	5.0		mg/Kg	2	9/29/2014 12:45:09 PM	15536
Uranium	ND	2.0	10		mg/Kg	2	9/29/2014 12:45:09 PM	15536

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Analytical Report
Lab Order: **1409963**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: SM-07 a+b
Project: RGR OUTFALL
Collection Date: 9/18/2014 1:00:00 PM
Lab ID: 1409963-007A
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Molybdenum	0.21	0.17	0.77	J	mg/Kg	2	9/29/2014 12:46:42 PM	15536
Selenium	ND	2.9	4.8		mg/Kg	2	9/29/2014 12:46:42 PM	15536
Uranium	ND	2.0	9.6		mg/Kg	2	9/29/2014 12:46:42 PM	15536

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: SM-08 a+b
Project: RGR OUTFALL
Collection Date: 9/18/2014 1:30:00 PM
Lab ID: 1409963-008A
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Molybdenum	0.18	0.086	0.39	J	mg/Kg	1	9/29/2014 12:27:10 PM	15536
Selenium	ND	1.5	2.5		mg/Kg	1	9/29/2014 12:27:10 PM	15536
Uranium	ND	1.0	4.9		mg/Kg	1	9/29/2014 12:27:10 PM	15536

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Analytical Report
Lab Order: **1409963**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Project: RGR OUTFALL
Lab ID: 1409963-009A

Client Sample ID: SM-08 WATER
Collection Date: 9/18/2014 1:30:00 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **JLF**	
Molybdenum	ND	0.0029	0.0080		mg/L	1	9/30/2014 4:08:54 PM	15563
EPA 200.8: METALS							Analyst: **DBD**	
Selenium	ND	0.00051	0.0010		mg/L	1	10/2/2014 11:48:45 AM	15563
Uranium	ND	0.00018	0.0010		mg/L	1	10/2/2014 11:48:45 AM	15563

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: RD-09 a+b
Project: RGR OUTFALL
Collection Date: 9/18/2014 2:00:00 PM
Lab ID: 1409963-010A
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Molybdenum	0.62	0.087	0.40		mg/Kg	1	9/29/2014 12:28:41 PM	15536
Selenium	ND	1.5	2.5		mg/Kg	1	9/29/2014 12:28:41 PM	15536
Uranium	ND	1.0	5.0		mg/Kg	1	9/29/2014 12:28:41 PM	15536

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Analytical Report
Lab Order: **1409963**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: SLD-10 a+b
Project: RGR OUTFALL
Collection Date: 9/18/2014 2:30:00 PM
Lab ID: 1409963-011A
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Molybdenum	0.34	0.17	0.79	J	mg/Kg	2	9/29/2014 12:48:09 PM	15536
Selenium	ND	3.0	4.9		mg/Kg	2	9/29/2014 12:48:09 PM	15536
Uranium	ND	2.0	9.8		mg/Kg	2	9/29/2014 12:48:09 PM	15536

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

ATTACHMENT B

LABORATORY TEST DATA

SOIL AND WATER SAMPLES FROM LOCATIONS

DOWNSTREAM OF OUTFALL 001

- Test Results Downstream Soil and Water Samples, Hall Environmental Analysis Laboratory, 10/22/2014
- Anatek 6020A retest of Oct 2014 Downstream Soil and Water Samples, 11/25/2014
- LPV Samples Water Quality Test Results, Hall Environmental Analysis Laboratory, 11/20-25/2014

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 03, 2014

Alan Duhn
Alan Kuhn Assoc LLC
13212 Manitoba Dr NE
Albuquerque, NM 87111
TEL: (505) 350-9188
FAX

RE: RGR-Samples OrderNo.: 1410796

Dear Alan Duhn:

Hall Environmental Analysis Laboratory received 30 sample(s) on 10/16/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **1410796**
Date Reported: **11/3/2014**

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: LDD-01-A
Project: RGR-Samples
Collection Date: 10/15/2014 1:35:00 PM
Lab ID: 1410796-001
Matrix: SOIL
Received Date: 10/16/2014 10:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Molybdenum	14	0.17	0.79		mg/Kg	2	10/22/2014 9:32:31 AM	15973
Selenium	5.4	3.0	4.9		mg/Kg	2	10/22/2014 9:32:31 AM	15973
Uranium	16	2.0	9.9		mg/Kg	2	10/22/2014 9:32:31 AM	15973

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: LDD-01-B
Project: RGR-Samples
Collection Date: 10/15/2014 1:40:00 PM
Lab ID: 1410796-002
Matrix: SOIL
Received Date: 10/16/2014 10:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Molybdenum	2.6	0.17	0.78		mg/Kg	2	10/22/2014 9:37:39 AM	15973
Selenium	ND	3.0	4.8		mg/Kg	2	10/22/2014 9:37:39 AM	15973
Uranium	ND	2.0	9.7		mg/Kg	2	10/22/2014 9:37:39 AM	15973

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: LDD-01-C
Project: RGR-Samples
Collection Date: 10/15/2014 1:45:00 PM
Lab ID: 1410796-003
Matrix: SOIL
Received Date: 10/16/2014 10:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Molybdenum	0.64	0.17	0.80	J	mg/Kg	2	10/22/2014 9:38:58 AM	15973
Selenium	ND	3.1	5.0		mg/Kg	2	10/22/2014 9:38:58 AM	15973
Uranium	ND	2.0	10		mg/Kg	2	10/22/2014 9:38:58 AM	15973

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: LDD-01-D
Project: RGR-Samples
Collection Date: 10/15/2014 1:50:00 PM
Lab ID: 1410796-004
Matrix: SOIL
Received Date: 10/16/2014 10:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Molybdenum	0.62	0.17	0.77	J	mg/Kg	2	10/22/2014 9:40:14 AM	15973
Selenium	ND	3.0	4.8		mg/Kg	2	10/22/2014 9:40:14 AM	15973
Uranium	ND	2.0	9.6		mg/Kg	2	10/22/2014 9:40:14 AM	15973

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: LDD-02-A
Project: RGR-Samples
Collection Date: 10/15/2014 1:20:00 PM
Lab ID: 1410796-005
Matrix: SOIL
Received Date: 10/16/2014 10:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Molybdenum	9.0	0.17	0.78		mg/Kg	2	10/22/2014 9:41:31 AM	15973
Selenium	ND	3.0	4.9		mg/Kg	2	10/22/2014 9:41:31 AM	15973
Uranium	8.4	2.0	9.8	J	mg/Kg	2	10/22/2014 9:41:31 AM	15973

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: LDD-02-B
Project: RGR-Samples
Collection Date: 10/15/2014 1:22:00 PM
Lab ID: 1410796-006
Matrix: SOIL
Received Date: 10/16/2014 10:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Molybdenum	2.3	0.17	0.77		mg/Kg	2	10/22/2014 9:42:49 AM	15973
Selenium	ND	2.9	4.8		mg/Kg	2	10/22/2014 9:42:49 AM	15973
Uranium	ND	2.0	9.6		mg/Kg	2	10/22/2014 9:42:49 AM	15973

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Project: RGR-Samples
Lab ID: 1410796-007 **Matrix:** SOIL

Client Sample ID: LDD-02-C
Collection Date: 10/15/2014 1:25:00 PM
Received Date: 10/16/2014 10:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Molybdenum	1.7	0.17	0.77		mg/Kg	2	10/22/2014 9:44:03 AM	15973
Selenium	ND	3.0	4.8		mg/Kg	2	10/22/2014 9:44:03 AM	15973
Uranium	ND	2.0	9.7		mg/Kg	2	10/22/2014 9:44:03 AM	15973

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: LDD-02-D
Project: RGR-Samples
Collection Date: 10/15/2014 1:30:00 PM
Lab ID: 1410796-008
Matrix: SOIL
Received Date: 10/16/2014 10:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Molybdenum	0.58	0.17	0.80	J	mg/Kg	2	10/22/2014 9:49:11 AM	15973
Selenium	ND	3.1	5.0		mg/Kg	2	10/22/2014 9:49:11 AM	15973
Uranium	ND	2.0	9.9		mg/Kg	2	10/22/2014 9:49:11 AM	15973

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: LDD-03-A
Project: RGR-Samples
Collection Date: 10/15/2014 1:00:00 PM
Lab ID: 1410796-009
Matrix: SOIL
Received Date: 10/16/2014 10:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Molybdenum	0.65	0.17	0.76	J	mg/Kg	2	10/22/2014 9:50:27 AM	15973
Selenium	ND	2.9	4.8		mg/Kg	2	10/22/2014 9:50:27 AM	15973
Uranium	ND	1.9	9.5		mg/Kg	2	10/22/2014 9:50:27 AM	15973

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: LDD-03-B
Project: RGR-Samples
Collection Date: 10/15/2014 1:05:00 PM
Lab ID: 1410796-010
Matrix: SOIL
Received Date: 10/16/2014 10:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Molybdenum	2.6	0.17	0.78		mg/Kg	2	10/22/2014 9:51:41 AM	15973
Selenium	ND	3.0	4.9		mg/Kg	2	10/22/2014 9:51:41 AM	15973
Uranium	ND	2.0	9.8		mg/Kg	2	10/22/2014 9:51:41 AM	15973

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: LDD-03-C
Project: RGR-Samples
Collection Date: 10/15/2014 1:10:00 PM
Lab ID: 1410796-011
Matrix: SOIL
Received Date: 10/16/2014 10:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Molybdenum	1.1	0.17	0.80		mg/Kg	2	10/22/2014 9:53:01 AM	15973
Selenium	ND	3.1	5.0		mg/Kg	2	10/22/2014 9:53:01 AM	15973
Uranium	ND	2.0	10		mg/Kg	2	10/22/2014 9:53:01 AM	15973

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: LDD-03-D
Project: RGR-Samples
Collection Date: 10/15/2014 1:15:00 PM
Lab ID: 1410796-012
Matrix: SOIL
Received Date: 10/16/2014 10:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Molybdenum	0.58	0.17	0.80	J	mg/Kg	2	10/22/2014 9:54:17 AM	15973
Selenium	ND	3.1	5.0		mg/Kg	2	10/22/2014 9:54:17 AM	15973
Uranium	ND	2.0	9.9		mg/Kg	2	10/22/2014 9:54:17 AM	15973

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: LPV-01-A
Project: RGR-Samples
Collection Date: 10/15/2014 3:00:00 PM
Lab ID: 1410796-013
Matrix: SOIL
Received Date: 10/16/2014 10:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Molybdenum	9.0	0.43	2.0		mg/Kg	5	10/22/2014 10:26:20 AM	15973
Selenium	ND	7.6	12		mg/Kg	5	10/22/2014 10:26:20 AM	15973
Uranium	9.8	5.0	25	J	mg/Kg	5	10/22/2014 10:26:20 AM	15973

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: LPV-01-B
Project: RGR-Samples
Collection Date: 10/15/2014 3:05:00 PM
Lab ID: 1410796-014
Matrix: SOIL
Received Date: 10/16/2014 10:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Molybdenum	3.2	0.17	0.80		mg/Kg	2	10/22/2014 9:56:53 AM	15973
Selenium	ND	3.1	5.0		mg/Kg	2	10/22/2014 9:56:53 AM	15973
Uranium	ND	2.0	10		mg/Kg	2	10/22/2014 9:56:53 AM	15973

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: LPV-01-C
Project: RGR-Samples
Collection Date: 10/15/2014 3:10:00 PM
Lab ID: 1410796-015
Matrix: SOIL
Received Date: 10/16/2014 10:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Molybdenum	1.4	0.17	0.77		mg/Kg	2	10/22/2014 9:58:12 AM	15973
Selenium	ND	3.0	4.8		mg/Kg	2	10/22/2014 9:58:12 AM	15973
Uranium	ND	2.0	9.6		mg/Kg	2	10/22/2014 9:58:12 AM	15973

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: LPV-01-D
Project: RGR-Samples
Collection Date: 10/15/2014 3:15:00 PM
Lab ID: 1410796-016
Matrix: SOIL
Received Date: 10/16/2014 10:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Molybdenum	0.79	0.17	0.80	J	mg/Kg	2	10/22/2014 9:59:28 AM	15973
Selenium	ND	3.1	5.0		mg/Kg	2	10/22/2014 9:59:28 AM	15973
Uranium	ND	2.0	10		mg/Kg	2	10/22/2014 9:59:28 AM	15973

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: LPV-02-A
Project: RGR-Samples
Collection Date: 10/15/2014 2:15:00 PM
Lab ID: 1410796-017
Matrix: SOIL
Received Date: 10/16/2014 10:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Molybdenum	6.4	0.17	0.77		mg/Kg	2	10/22/2014 10:00:42 AM	15973
Selenium	ND	3.0	4.8		mg/Kg	2	10/22/2014 10:00:42 AM	15973
Uranium	9.1	2.0	9.7	J	mg/Kg	2	10/22/2014 10:00:42 AM	15973

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: LPV-02-B
Project: RGR-Samples
Collection Date: 10/15/2014 2:20:00 PM
Lab ID: 1410796-018
Matrix: SOIL
Received Date: 10/16/2014 10:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Molybdenum	1.8	0.17	0.79		mg/Kg	2	10/22/2014 10:05:47 AM	15973
Selenium	ND	3.0	5.0		mg/Kg	2	10/22/2014 10:05:47 AM	15973
Uranium	ND	2.0	9.9		mg/Kg	2	10/22/2014 10:05:47 AM	15973

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: LPV-02-C
Project: RGR-Samples
Collection Date: 10/15/2014 2:25:00 PM
Lab ID: 1410796-019
Matrix: SOIL
Received Date: 10/16/2014 10:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Molybdenum	1.0	0.17	0.78		mg/Kg	2	10/22/2014 10:07:07 AM	15973
Selenium	ND	3.0	4.9		mg/Kg	2	10/22/2014 10:07:07 AM	15973
Uranium	ND	2.0	9.8		mg/Kg	2	10/22/2014 10:07:07 AM	15973

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: LPV-02-D
Project: RGR-Samples
Collection Date: 10/15/2014 2:30:00 PM
Lab ID: 1410796-020
Matrix: SOIL
Received Date: 10/16/2014 10:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Molybdenum	1.4	0.086	0.39		mg/Kg	1	10/22/2014 9:13:00 AM	15973
Selenium	ND	1.5	2.5		mg/Kg	1	10/22/2014 9:13:00 AM	15973
Uranium	ND	1.0	4.9		mg/Kg	1	10/22/2014 9:13:00 AM	15973

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: LPV-03-A
Project: RGR-Samples
Collection Date: 10/15/2014 2:35:00 PM
Lab ID: 1410796-021
Matrix: SOIL
Received Date: 10/16/2014 10:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Molybdenum	4.7	0.17	0.79		mg/Kg	2	10/22/2014 10:08:21 AM	15974
Selenium	ND	3.0	4.9		mg/Kg	2	10/22/2014 10:08:21 AM	15974
Uranium	ND	2.0	9.9		mg/Kg	2	10/22/2014 10:08:21 AM	15974

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: LPV-03-B
Project: RGR-Samples
Collection Date: 10/15/2014 2:40:00 PM
Lab ID: 1410796-022
Matrix: SOIL
Received Date: 10/16/2014 10:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Molybdenum	1.7	0.17	0.77		mg/Kg	2	10/22/2014 10:09:39 AM	15974
Selenium	ND	2.9	4.8		mg/Kg	2	10/22/2014 10:09:39 AM	15974
Uranium	ND	2.0	9.6		mg/Kg	2	10/22/2014 10:09:39 AM	15974

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: LPV-03-C
Project: RGR-Samples
Collection Date: 10/15/2014 2:45:00 PM
Lab ID: 1410796-023
Matrix: SOIL
Received Date: 10/16/2014 10:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Molybdenum	1.9	0.17	0.77		mg/Kg	2	10/22/2014 10:11:00 AM	15974
Selenium	ND	2.9	4.8		mg/Kg	2	10/22/2014 10:11:00 AM	15974
Uranium	ND	2.0	9.6		mg/Kg	2	10/22/2014 10:11:00 AM	15974

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: LPV-03-D
Project: RGR-Samples
Collection Date: 10/15/2014 2:50:00 PM
Lab ID: 1410796-024
Matrix: SOIL
Received Date: 10/16/2014 10:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Molybdenum	0.67	0.17	0.78	J	mg/Kg	2	10/22/2014 10:12:16 AM	15974
Selenium	ND	3.0	4.9		mg/Kg	2	10/22/2014 10:12:16 AM	15974
Uranium	ND	2.0	9.8		mg/Kg	2	10/22/2014 10:12:16 AM	15974

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: SLD-01-A
Project: RGR-Samples
Collection Date: 10/15/2014 3:45:00 PM
Lab ID: 1410796-025
Matrix: SOIL
Received Date: 10/16/2014 10:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Molybdenum	0.55	0.17	0.80	J	mg/Kg	2	10/22/2014 10:13:34 AM	15974
Selenium	ND	3.1	5.0		mg/Kg	2	10/22/2014 10:13:34 AM	15974
Uranium	ND	2.0	10		mg/Kg	2	10/22/2014 10:13:34 AM	15974

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: SLD-01-B
Project: RGR-Samples
Collection Date: 10/15/2014 3:50:00 PM
Lab ID: 1410796-026
Matrix: SOIL
Received Date: 10/16/2014 10:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Molybdenum	0.50	0.17	0.80	J	mg/Kg	2	10/22/2014 10:22:27 AM	15974
Selenium	ND	3.1	5.0		mg/Kg	2	10/22/2014 10:22:27 AM	15974
Uranium	ND	2.0	10		mg/Kg	2	10/22/2014 10:22:27 AM	15974

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: SLD-01-C
Project: RGR-Samples
Collection Date: 10/15/2014 3:55:00 PM
Lab ID: 1410796-027
Matrix: SOIL
Received Date: 10/16/2014 10:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Molybdenum	0.45	0.17	0.78	J	mg/Kg	2	10/22/2014 10:23:45 AM	15974
Selenium	ND	3.0	4.8		mg/Kg	2	10/22/2014 10:23:45 AM	15974
Uranium	ND	2.0	9.7		mg/Kg	2	10/22/2014 10:23:45 AM	15974

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: SLD-01-D
Project: RGR-Samples
Collection Date: 10/15/2014 4:00:00 PM
Lab ID: 1410796-028
Matrix: SOIL
Received Date: 10/16/2014 10:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Molybdenum	1.2	0.42	1.9	J	mg/Kg	5	10/22/2014 10:28:48 AM	15974
Selenium	ND	7.4	12		mg/Kg	5	10/22/2014 10:28:48 AM	15974
Uranium	ND	4.9	24		mg/Kg	5	10/22/2014 10:28:48 AM	15974

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Project: RGR-Samples
Lab ID: 1410796-029
Matrix: AQUEOUS
Client Sample ID: LPV-02-WATER
Collection Date: 10/15/2014 2:15:00 PM
Received Date: 10/16/2014 10:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **JLF**	
Molybdenum	0.16	0.0029	0.0080		mg/L	1	10/22/2014 3:33:58 PM	16020
EPA 200.8: METALS							Analyst: **DBD**	
Selenium	0.0096	0.0025	0.0050		mg/L	5	10/22/2014 5:20:35 PM	16020
Uranium	0.077	0.00088	0.0050	*	mg/L	5	10/22/2014 5:20:35 PM	16020

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: LPV-01-WATER
Project: RGR-Samples
Collection Date: 10/15/2014 2:35:00 PM
Lab ID: 1410796-030
Matrix: AQUEOUS
Received Date: 10/16/2014 10:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 200.7: METALS							Analyst: **JLF**	
Molybdenum	0.0063	0.0029	0.0080	J	mg/L	1	10/22/2014 3:35:37 PM	16020
EPA 200.8: METALS							Analyst: **DBD**	
Selenium	0.0031	0.00051	0.0010		mg/L	1	10/22/2014 5:02:01 PM	16020
Uranium	0.013	0.00018	0.0010		mg/L	1	10/22/2014 5:02:01 PM	16020

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1410796**
03-Nov-14

Client: Alan Kuhn Assoc LLC
Project: RGR-Samples

Sample ID	**MB-16020**	SampType:	**MBLK**	TestCode:	**EPA Method 200.7: Metals**
Client ID:	**PBW**	Batch ID:	**16020**	RunNo:	**22075**
Prep Date:	**10/22/2014**	Analysis Date:	**10/22/2014**	SeqNo:	**649308** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Molybdenum	ND	0.0080								

Sample ID	**LCS-16020**	SampType:	**LCS**	TestCode:	**EPA Method 200.7: Metals**
Client ID:	**LCSW**	Batch ID:	**16020**	RunNo:	**22075**
Prep Date:	**10/22/2014**	Analysis Date:	**10/22/2014**	SeqNo:	**649309** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Molybdenum	0.51	0.0080	0.5000	0	102	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1410796**
03-Nov-14

Client: Alan Kuhn Assoc LLC
Project: RGR-Samples

Sample ID	**LLLCS-16020**	SampType:	**LCSLL**	TestCode:	**EPA 200.8: Metals**
Client ID:	**BatchQC**	Batch ID:	**16020**	RunNo:	**22095**
Prep Date:	**10/22/2014**	Analysis Date:	**10/22/2014**	SeqNo:	**649912** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.026	0.0010	0.02500	0	104	85	115			
Uranium	0.026	0.0010	0.02500	0	105	85	115			

Sample ID	**MB-16020**	SampType:	**MBLK**	TestCode:	**EPA 200.8: Metals**
Client ID:	**PBW**	Batch ID:	**16020**	RunNo:	**22095**
Prep Date:	**10/22/2014**	Analysis Date:	**10/22/2014**	SeqNo:	**649913** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	ND	0.0010								
Uranium	ND	0.0010								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1410796**
03-Nov-14

Client: Alan Kuhn Assoc LLC
Project: RGR-Samples

Sample ID **MB-15974** SampType: **MBLK** TestCode: **EPA Method 6010B: Soil Metals**
Client ID: **PBS** Batch ID: **15974** RunNo: **22062**
Prep Date: **10/18/2014** Analysis Date: **10/22/2014** SeqNo: **648958** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Molybdenum	ND	0.40								
Selenium	ND	2.5								
Uranium	ND	5.0								

Sample ID **LCS-15974** SampType: **LCS** TestCode: **EPA Method 6010B: Soil Metals**
Client ID: **LCSS** Batch ID: **15974** RunNo: **22062**
Prep Date: **10/18/2014** Analysis Date: **10/22/2014** SeqNo: **648959** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Molybdenum	26	0.40	25.00	0	104	80	120			
Selenium	25	2.5	25.00	0	98.7	80	120			
Uranium	25	5.0	25.00	0	98.9	80	120			

Sample ID **MB-15973** SampType: **MBLK** TestCode: **EPA Method 6010B: Soil Metals**
Client ID: **PBS** Batch ID: **15973** RunNo: **22062**
Prep Date: **10/18/2014** Analysis Date: **10/22/2014** SeqNo: **648960** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Molybdenum	ND	0.40								
Selenium	ND	2.5								
Uranium	ND	5.0								

Sample ID **LCS-15973** SampType: **LCS** TestCode: **EPA Method 6010B: Soil Metals**
Client ID: **LCSS** Batch ID: **15973** RunNo: **22062**
Prep Date: **10/18/2014** Analysis Date: **10/22/2014** SeqNo: **648961** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Molybdenum	26	0.40	25.00	0	105	80	120			
Selenium	26	2.5	25.00	0	103	80	120			
Uranium	25	5.0	25.00	0	98.2	80	120			

Sample ID **1410796-001AMS** SampType: **MS** TestCode: **EPA Method 6010B: Soil Metals**
Client ID: **LDD-01-A** Batch ID: **15973** RunNo: **22062**
Prep Date: **10/18/2014** Analysis Date: **10/22/2014** SeqNo: **649007** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Molybdenum	34	0.80	24.96	6.902	111	75	125			
Selenium	28	5.0	24.96	2.680	102	75	125			
Uranium	41	10	24.96	8.009	133	75	125			S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1410796**
03-Nov-14

Client: Alan Kuhn Assoc LLC
Project: RGR-Samples

Sample ID **1410796-001AMSD** SampType: **MSD** TestCode: **EPA Method 6010B: Soil Metals**
Client ID: **LDD-01-A** Batch ID: **15973** RunNo: **22062**
Prep Date: **10/18/2014** Analysis Date: **10/22/2014** SeqNo: **649008** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Molybdenum	35	0.80	24.95	6.902	112	75	125	0.770	20	
Selenium	29	5.0	24.95	2.680	106	75	125	3.60	20	
Uranium	40	10	24.95	8.009	129	75	125	2.67	20	S

Sample ID **1410796-025AMS** SampType: **MS** TestCode: **EPA Method 6010B: Soil Metals**
Client ID: **SLD-01-A** Batch ID: **15974** RunNo: **22062**
Prep Date: **10/18/2014** Analysis Date: **10/22/2014** SeqNo: **649037** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Molybdenum	18	0.79	24.53	0.5461	72.4	75	125			S
Selenium	18	4.9	24.53	0	72.9	75	125			S
Uranium	19	9.8	24.53	0	78.0	75	125			

Sample ID **1410796-025AMSD** SampType: **MSD** TestCode: **EPA Method 6010B: Soil Metals**
Client ID: **SLD-01-A** Batch ID: **15974** RunNo: **22062**
Prep Date: **10/18/2014** Analysis Date: **10/22/2014** SeqNo: **649038** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Molybdenum	18	0.78	24.49	0.5461	72.2	75	125	0.478	20	S
Selenium	20	4.9	24.49	0	80.1	75	125	9.24	20	
Uranium	19	9.8	24.49	0	76.6	75	125	2.06	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: ALAN KUHN ASSOC LL Work Order Number: 1410796 RcptNo: 1

Received by/date: MG 10/16/14

Logged By: **Celina Sessa** 10/16/2014 10:00:00 AM Celina Sessa

Completed By: **Celina Sessa** 10/16/2014 11:48:10 AM Celina Sessa

Reviewed By: 10/17/14

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☑
2. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
3. How was the sample delivered? Client

Log In

4. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐ Not required
6. Sample(s) in proper container(s)? Yes ☑ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
9. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
11. Were any sample containers received broken? Yes ☐ No ☑
12. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
13. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
14. Is it clear what analyses were requested? Yes ☑ No ☐
15. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

# of preserved bottles checked for pH: 2 (<2 or >12 unless noted)
Adjusted? NO
Checked by:

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	14.3	Good	Not Present			

Chain-of-Custody Record

Client: ALAN KUHN

Mailing Address:

Phone #: 505-350-9188

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☐ Rush _____

Project Name: RGR - Samples

Project #:

Project Manager: ALAN KUHN

Sampler:

On Ice: ☑ Yes ☐ No

Sample Temperature: 14.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Depth ~~Matrix~~ inches	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1410796	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	U, Se, Mo CS 10/16/14			Air Bubbles (Y or N)
10-15-14	1:35	0-6	LDD-01-A	01-A JAR		-001 CS 10/16/14												X			
10-15-14	1:40	12-18	LDD-01-B	01-B JAR		-002												X			
10-15-14	1:45	24-30	LDD-01-C	01-C JAR		-003												X			
10-15-14	1:50	39-48	LDD-01-D	01-D JAR		-004												X			
10-15-14	1:20	0-6	LDD-02-A	02-A JAR		-005												X			
10-15-14	1:22	12-18	LDD-02-B	02-B JAR		-006												X			
10-15-14	1:25	24-30	LDD-02-C	02-C JAR		-007												X			
10-15-14	1:30	39-48	LDD-02-D	02-D JAR		-008												X			
10-15-14	1:00	0-6	LDD-03-A	03-A JAR		-009												X			
10-15-14	1:05	12-18	LDD-03-B	03-B JAR		-010												X			
10-15-14	1:10	24-30	LDD-03-C	03-C JAR		-011												X			
10-15-14	1:15	39-48	LDD-03-D	03 D JAR		-012												X			

Date:	Time:	Relinquished by:	Received by:	Date Time
10-16-14	10:00	ED WEBSTER	[signature]	10/16/14 1000
Date:	Time:	Relinquished by:	Received by:	Date Time

Remarks:
CALL ALAN KUHN FOR WORK ORDER
350-9188

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: ALAN KUHN

Mailing Address:

Phone #: 505-330-9188

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☐ Rush

Project Name: RGR-SAMPLES

Project #:

Project Manager: ALAN KUHN

Sampler:

On Ice: ☑ Yes ☐ No

Sample Temperature: 14.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	~~Matrix~~ Depth IN CABS	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1410796	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	U, Se, Mo CS 10/16/14				Air Bubbles (Y or N)
0-15-14	3:00	0"-6"	LPV-01-A	JAR		-013												X				
0-15-14	3:05	12-18"	LPV-01-B	JAR		-014												X				
0-15-14	3:10	24-30"	LPV-01-C	JAR		-015												X				
0-15-14	3:15	38-48"	LPV-01-D	JAR		-016												X				
0-15-14	2:15	0-6"	LPV-02-A	JAR		-017												X				
0-15-14	2:20	12-18"	LPV-02-B	JAR		-018												X				
0-15-14	2:25	24-30"	LPV-02-C	JAR		-019												X				
0-15-14	2:30	38-48"	LPV-02-D	JAR		-020												X				
10-15-14	2:35	0-6"	LPV-03-A	JAR		-021												X				
10-15-14	2:40	12-18"	LPV-03-B	JAR		-022												X				
10-15-14	2:45	24-30"	LPV-03-C	JAR		-023												X				
10-15-14	2:50	38-48"	LPV-03-D	JAR		-024												X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
10-16-14	10:00	[signature]	[signature]	10/16/14	1000
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:
CALL ALAN KUHN for TEST ASSIGNMENTS.

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: ALAN KUHN

Mailing Address:

Phone #: 350 - 9188

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☐ **Rush**

Project Name: RGR - Samples

Project #:

Project Manager: ALAN KUHN

Sampler:

On Ice: ☑ Yes ☐ No

Sample Temperature: 14.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1410796	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	U, Se, Mo as 10/16/14			Air Bubbles (Y or N)
10-15-14	3:45	0-6	SLD-01-A	JAR		-025												X			
10-15-14	3:50	12-18	SLD-01-B	JAR		-026												X			
10-15-14	3:55	24-30	SLD-01-C	JAR		-027												X			
10-15-14	4:00	38-48	SLD-01-D	JAR		-028												X			
—																					
10-15-14	2:15	POND1	LPV-02-WATER	WATER		-029												X			
10-15-14	2:35	POND2	LPV-01-WATER	WATER		-030												X			

Date:	Time:	Relinquished by:	Received by:	Date Time
10-16-14	10:00	Ed Loeschner	Michael [illegible]	10/16/14 1000
Date:	Time:	Relinquished by:	Received by:	Date Time

Remarks:
CALL ALAN KUHN for TEST ASSIGNMENTS
505- 350- 9188

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 05, 2014

Alan Kuhn
Alan Kuhn Assoc LLC
13212 Manitoba Dr NE
Albuquerque, NM 87111
TEL: (505) 350-9188
FAX

RE: RGR-Samples OrderNo.: 1410796

Dear Alan Kuhn:

Hall Environmental Analysis Laboratory received 30 sample(s) on 10/16/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Anatek Labs, Inc.

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com
504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 141118048
Project Name: 1410796

Analytical Results Report

Sample Number 141118048-001 **Sampling Date** 10/15/2014 **Date/Time Received** 11/18/2014 12:05 PM
Client Sample ID 1410796-001A / LDD-01-A **Sampling Time** 1:35 PM
Matrix Soil **Sample Location**
Comments Results reported on an "as received" basis

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Molybdenum	12.0	mg/Kg	1	11/25/2014	ETL	EPA 6020A	
Selenium	9.16	mg/Kg	2	11/25/2014	ETL	EPA 6020A	
Uranium	21.1	mg/kg	1	11/25/2014	ETL	EPA 6020A	

Sample Number 141118048-002 **Sampling Date** 10/15/2014 **Date/Time Received** 11/18/2014 12:05 PM
Client Sample ID 1410796-002A / LDD-01-B **Sampling Time** 1:40 PM
Matrix Soil **Sample Location**
Comments Results reported on an "as received" basis

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Molybdenum	2.65	mg/Kg	1	11/25/2014	ETL	EPA 6020A	
Selenium	ND	mg/Kg	2	11/25/2014	ETL	EPA 6020A	
Uranium	2.27	mg/kg	1	11/25/2014	ETL	EPA 6020A	

Sample Number 141118048-003 **Sampling Date** 10/15/2014 **Date/Time Received** 11/18/2014 12:05 PM
Client Sample ID 1410796-003A / LDD-01-C **Sampling Time** 1:45 PM
Matrix Soil **Sample Location**
Comments Results reported on an "as received" basis

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Molybdenum	ND	mg/Kg	1	11/25/2014	ETL	EPA 6020A	
Selenium	ND	mg/Kg	2	11/25/2014	ETL	EPA 6020A	
Uranium	1.26	mg/kg	1	11/25/2014	ETL	EPA 6020A	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 141118048
Project Name: 1410796

Analytical Results Report

Sample Number 141118048-004 **Sampling Date** 10/15/2014 **Date/Time Received** 11/18/2014 12:05 PM
Client Sample ID 1410796-004A / LDD-01-D **Sampling Time** 1:50 PM
Matrix Soil **Sample Location**
Comments Results reported on an "as received" basis

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Molybdenum	ND	mg/Kg	1	11/25/2014	ETL	EPA 6020A	
Selenium	ND	mg/Kg	2	11/25/2014	ETL	EPA 6020A	
Uranium	ND	mg/kg	1	11/25/2014	ETL	EPA 6020A	

Sample Number 141118048-005 **Sampling Date** 10/15/2014 **Date/Time Received** 11/18/2014 12:05 PM
Client Sample ID 1410796-005A / LDD-02-A **Sampling Time** 1:20 PM
Matrix Soil **Sample Location**
Comments Results reported on an "as received" basis

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Molybdenum	11.7	mg/Kg	1	11/25/2014	ETL	EPA 6020A	
Selenium	7.76	mg/Kg	2	11/25/2014	ETL	EPA 6020A	
Uranium	20.7	mg/kg	1	11/25/2014	ETL	EPA 6020A	

Sample Number 141118048-006 **Sampling Date** 10/15/2014 **Date/Time Received** 11/18/2014 12:05 PM
Client Sample ID 1410796-006A / LDD-02-B **Sampling Time** 1:22 PM
Matrix Soil **Sample Location**
Comments Results reported on an "as received" basis

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Molybdenum	1.88	mg/Kg	1	11/25/2014	ETL	EPA 6020A	
Selenium	ND	mg/Kg	2	11/25/2014	ETL	EPA 6020A	
Uranium	3.13	mg/kg	1	11/25/2014	ETL	EPA 6020A	

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Batch #: 141118048
Project Name: 1410796

Analytical Results Report

Sample Number 141118048-007 **Sampling Date** 10/15/2014 **Date/Time Received** 11/18/2014 12:05 PM
Client Sample ID 1410796-007A / LDD-02-C **Sampling Time** 1:25 PM
Matrix Soil **Sample Location**
Comments Results reported on an "as received" basis

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Molybdenum	1.03	mg/Kg	1	11/25/2014	ETL	EPA 6020A	
Selenium	ND	mg/Kg	2	11/25/2014	ETL	EPA 6020A	
Uranium	1.46	mg/kg	1	11/25/2014	ETL	EPA 6020A	

Sample Number 141118048-008 **Sampling Date** 10/15/2014 **Date/Time Received** 11/18/2014 12:05 PM
Client Sample ID 1410796-008A / LDD-02-D **Sampling Time** 1:30 PM
Matrix Soil **Sample Location**
Comments Results reported on an "as received" basis

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Molybdenum	ND	mg/Kg	1	11/25/2014	ETL	EPA 6020A	
Selenium	ND	mg/Kg	2	11/25/2014	ETL	EPA 6020A	
Uranium	1.06	mg/kg	1	11/25/2014	ETL	EPA 6020A	

Sample Number 141118048-009 **Sampling Date** 10/15/2014 **Date/Time Received** 11/18/2014 12:05 PM
Client Sample ID 1410796-009A / LDD-03-A **Sampling Time** 1:00 PM
Matrix Soil **Sample Location**
Comments Results reported on an "as received" basis

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Molybdenum	ND	mg/Kg	1	11/25/2014	ETL	EPA 6020A	
Selenium	ND	mg/Kg	2	11/25/2014	ETL	EPA 6020A	
Uranium	1.63	mg/kg	1	11/25/2014	ETL	EPA 6020A	

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Batch #: 141118048
Project Name: 1410796

Analytical Results Report

Sample Number 141118048-010 **Sampling Date** 10/15/2014 **Date/Time Received** 11/18/2014 12:05 PM
Client Sample ID 1410796-010A / LDD-03-B **Sampling Time** 1:05 PM
Matrix Soil **Sample Location**
Comments Results reported on an "as received" basis

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Molybdenum	2.76	mg/Kg	1	11/25/2014	ETL	EPA 6020A	
Selenium	ND	mg/Kg	2	11/25/2014	ETL	EPA 6020A	
Uranium	4.52	mg/kg	1	11/25/2014	ETL	EPA 6020A	

Sample Number 141118048-011 **Sampling Date** 10/15/2014 **Date/Time Received** 11/18/2014 12:05 PM
Client Sample ID 1410796-011A / LDD-03-C **Sampling Time** 1:10 PM
Matrix Soil **Sample Location**
Comments Results reported on an "as received" basis

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Molybdenum	1.21	mg/Kg	1	11/25/2014	ETL	EPA 6020A	
Selenium	ND	mg/Kg	2	11/25/2014	ETL	EPA 6020A	
Uranium	1.62	mg/kg	1	11/25/2014	ETL	EPA 6020A	

Sample Number 141118048-012 **Sampling Date** 10/15/2014 **Date/Time Received** 11/18/2014 12:05 PM
Client Sample ID 1410796-012A / LDD-03-D **Sampling Time** 1:15 PM
Matrix Soil **Sample Location**
Comments Results reported on an "as received" basis

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Molybdenum	ND	mg/Kg	1	11/25/2014	ETL	EPA 6020A	
Selenium	ND	mg/Kg	2	11/25/2014	ETL	EPA 6020A	
Uranium	1.03	mg/kg	1	11/25/2014	ETL	EPA 6020A	

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Project Name: 1410796

Analytical Results Report

Sample Number 141118048-013 **Sampling Date** 10/15/2014 **Date/Time Received** 11/18/2014 12:05 PM
Client Sample ID 1410796-013A / LPV-01-A **Sampling Time** 3:00 PM
Matrix Soil **Sample Location**
Comments Results reported on an "as received" basis

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Molybdenum	9.43	mg/Kg	1	12/1/2014	ETL	EPA 6020A	
Selenium	2.77	mg/Kg	2	12/1/2014	ETL	EPA 6020A	
Uranium	13.8	mg/kg	1	12/1/2014	ETL	EPA 6020A	

Sample Number 141118048-014 **Sampling Date** 10/15/2014 **Date/Time Received** 11/18/2014 12:05 PM
Client Sample ID 1410796-014A / LPV-01-B **Sampling Time** 3:05 PM
Matrix Soil **Sample Location**
Comments Results reported on an "as received" basis

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Molybdenum	3.08	mg/Kg	1	12/1/2014	ETL	EPA 6020A	
Selenium	ND	mg/Kg	2	12/1/2014	ETL	EPA 6020A	
Uranium	2.81	mg/kg	1	12/1/2014	ETL	EPA 6020A	

Sample Number 141118048-015 **Sampling Date** 10/15/2014 **Date/Time Received** 11/18/2014 12:05 PM
Client Sample ID 1410796-015A / LPV-01-C **Sampling Time** 3:10 PM
Matrix Soil **Sample Location**
Comments Results reported on an "as received" basis

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Molybdenum	1.46	mg/Kg	1	12/1/2014	ETL	EPA 6020A	
Selenium	1.02	mg/Kg	2	12/1/2014	ETL	EPA 6020A	
Uranium	2.06	mg/kg	1	12/1/2014	ETL	EPA 6020A	

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Batch #: 141118048
Project Name: 1410796

Analytical Results Report

Sample Number 141118048-016 **Sampling Date** 10/15/2014 **Date/Time Received** 11/18/2014 12:05 PM
Client Sample ID 1410796-016A / LPV-01-D **Sampling Time** 3:15 PM
Matrix Soil **Sample Location**
Comments Results reported on an "as received" basis

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Molybdenum	ND	mg/Kg	1	12/1/2014	ETL	EPA 6020A	
Selenium	ND	mg/Kg	2	12/1/2014	ETL	EPA 6020A	
Uranium	1.23	mg/kg	1	12/1/2014	ETL	EPA 6020A	

Sample Number 141118048-017 **Sampling Date** 10/15/2014 **Date/Time Received** 11/18/2014 12:05 PM
Client Sample ID 1410796-017A / LPV-02-A **Sampling Time** 2:15 PM
Matrix Soil **Sample Location**
Comments Results reported on an "as received" basis

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Molybdenum	7.47	mg/Kg	1	12/1/2014	ETL	EPA 6020A	
Selenium	ND	mg/Kg	2	12/1/2014	ETL	EPA 6020A	
Uranium	14.0	mg/kg	1	12/1/2014	ETL	EPA 6020A	

Sample Number 141118048-018 **Sampling Date** 10/15/2014 **Date/Time Received** 11/18/2014 12:05 PM
Client Sample ID 1410796-018A / LPV-02-B **Sampling Time** 2:20 PM
Matrix Soil **Sample Location**
Comments Results reported on an "as received" basis

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Molybdenum	1.96	mg/Kg	1	12/1/2014	ETL	EPA 6020A	
Selenium	ND	mg/Kg	2	12/1/2014	ETL	EPA 6020A	
Uranium	1.58	mg/kg	1	12/1/2014	ETL	EPA 6020A	

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Batch #: 141118048
Project Name: 1410796

Analytical Results Report

Sample Number 141118048-019 **Sampling Date** 10/15/2014 **Date/Time Received** 11/18/2014 12:05 PM
Client Sample ID 1410796-019A / LPV-02-C **Sampling Time** 2:25 PM
Matrix Soil **Sample Location**
Comments Results reported on an "as received" basis

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Molybdenum	ND	mg/Kg	1	12/1/2014	ETL	EPA 6020A	
Selenium	ND	mg/Kg	2	12/1/2014	ETL	EPA 6020A	
Uranium	1.20	mg/kg	1	12/1/2014	ETL	EPA 6020A	

Sample Number 141118048-020 **Sampling Date** 10/15/2014 **Date/Time Received** 11/18/2014 12:05 PM
Client Sample ID 1410796-020A / LPV-02-D **Sampling Time** 2:30 PM
Matrix Soil **Sample Location**
Comments Results reported on an "as received" basis

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Molybdenum	1.65	mg/Kg	1	12/1/2014	ETL	EPA 6020A	
Selenium	ND	mg/Kg	2	12/1/2014	ETL	EPA 6020A	
Uranium	ND	mg/kg	1	12/1/2014	ETL	EPA 6020A	

Sample Number 141118048-021 **Sampling Date** 10/15/2014 **Date/Time Received** 11/18/2014 12:05 PM
Client Sample ID 1410796-021A / LPV-03-A **Sampling Time** 2:35 PM
Matrix Soil **Sample Location**
Comments Results reported on an "as received" basis

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Molybdenum	5.52	mg/Kg	1	12/1/2014	ETL	EPA 6020A	
Selenium	ND	mg/Kg	2	12/1/2014	ETL	EPA 6020A	
Uranium	7.73	mg/kg	1	12/1/2014	ETL	EPA 6020A	

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Project Name: 1410796

Analytical Results Report

Sample Number 141118048-022 **Sampling Date** 10/15/2014 **Date/Time Received** 11/18/2014 12:05 PM
Client Sample ID 1410796-022A / LPV-03-B **Sampling Time** 2:40 PM
Matrix Soil **Sample Location**
Comments Results reported on an "as received" basis

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Molybdenum	1.44	mg/Kg	1	12/1/2014	ETL	EPA 6020A	
Selenium	ND	mg/Kg	2	12/1/2014	ETL	EPA 6020A	
Uranium	2.61	mg/kg	1	12/1/2014	ETL	EPA 6020A	

Sample Number 141118048-023 **Sampling Date** 10/15/2014 **Date/Time Received** 11/18/2014 12:05 PM
Client Sample ID 1410796-023A / LPV-03-C **Sampling Time** 2:45 PM
Matrix Soil **Sample Location**
Comments Results reported on an "as received" basis

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Molybdenum	1.77	mg/Kg	1	12/1/2014	ETL	EPA 6020A	
Selenium	ND	mg/Kg	2	12/1/2014	ETL	EPA 6020A	
Uranium	3.58	mg/kg	1	12/1/2014	ETL	EPA 6020A	

Sample Number 141118048-024 **Sampling Date** 10/15/2014 **Date/Time Received** 11/18/2014 12:05 PM
Client Sample ID 1410796-024A / LPV-03-D **Sampling Time** 2:50 PM
Matrix Soil **Sample Location**
Comments Results reported on an "as received" basis

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Molybdenum	ND	mg/Kg	1	12/1/2014	ETL	EPA 6020A	
Selenium	ND	mg/Kg	2	12/1/2014	ETL	EPA 6020A	
Uranium	1.05	mg/kg	1	12/1/2014	ETL	EPA 6020A	

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Batch #: 141118048
Project Name: 1410796

Analytical Results Report

Sample Number 141118048-025 **Sampling Date** 10/15/2014 **Date/Time Received** 11/18/2014 12:05 PM
Client Sample ID 1410796-025A / SLD-01-A **Sampling Time** 3:45 PM
Matrix Soil **Sample Location**
Comments Results reported on an "as received" basis

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Molybdenum	ND	mg/Kg	1	12/1/2014	ETL	EPA 6020A	
Selenium	ND	mg/Kg	2	12/1/2014	ETL	EPA 6020A	
Uranium	1.60	mg/kg	1	12/1/2014	ETL	EPA 6020A	

Sample Number 141118048-026 **Sampling Date** 10/15/2014 **Date/Time Received** 11/18/2014 12:05 PM
Client Sample ID 1410796-026A / SLD-01-B **Sampling Time** 3:50 PM
Matrix Soil **Sample Location**
Comments Results reported on an "as received" basis

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Molybdenum	ND	mg/Kg	1	12/1/2014	ETL	EPA 6020A	
Selenium	ND	mg/Kg	2	12/1/2014	ETL	EPA 6020A	
Uranium	1.67	mg/kg	1	12/1/2014	ETL	EPA 6020A	

Sample Number 141118048-027 **Sampling Date** 10/15/2014 **Date/Time Received** 11/18/2014 12:05 PM
Client Sample ID 1410796-027A / SLD-01-C **Sampling Time** 3:55 PM
Matrix Soil **Sample Location**
Comments Results reported on an "as received" basis

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Molybdenum	ND	mg/Kg	1	12/1/2014	ETL	EPA 6020A	
Selenium	ND	mg/Kg	2	12/1/2014	ETL	EPA 6020A	
Uranium	1.15	mg/kg	1	12/1/2014	ETL	EPA 6020A	

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Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	1410796
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	141118048-028	**Sampling Date**	10/15/2014	**Date/Time Received**	11/18/2014 12:05 PM
Client Sample ID	1410796-028A / SLD-01-D	**Sampling Time**	4:00 PM		
Matrix	Soil	**Sample Location**			
Comments	Results reported on an "as received" basis				

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Molybdenum	1.43	mg/Kg	1	12/1/2014	ETL	EPA 6020A	
Selenium	ND	mg/Kg	2	12/1/2014	ETL	EPA 6020A	
Uranium	2.34	mg/kg	1	12/1/2014	ETL	EPA 6020A	

Authorized Signature

John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

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The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com
504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 141118048
Project Name: 1410796

Analytical Results Report

Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Uranium	0.198	mg/kg	0.2	99.0	80-120	11/14/2014	11/25/2014
Selenium	2.04	mg/kg	2	102.0	80-120	11/14/2014	11/25/2014
Molybdenum	1.90	mg/kg	2	95.0	80-120	11/14/2014	11/25/2014

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
141117003-001A	Uranium	ND	19.6	mg/kg	19.2	102.1	75-125	11/14/2014	11/25/2014
141117003-001A	Selenium	ND	191	mg/kg	192	99.5	75-125	11/14/2014	11/25/2014
141117003-001A	Molybdenum	1.24	180	mg/kg	192	93.1	75-125	11/14/2014	11/25/2014

Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Uranium	17.6	mg/kg	18	97.8	10.8	0-20	11/14/2014	11/25/2014
Selenium	177	mg/kg	180	98.3	7.6	0-20	11/14/2014	11/25/2014
Molybdenum	166	mg/kg	180	91.5	8.1	0-20	11/14/2014	11/25/2014

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Molybdenum	ND	mg/Kg	0.001	11/14/2014	11/25/2014
Selenium	ND	mg/Kg	0.001	11/14/2014	11/25/2014
Uranium	ND	mg/kg	0.001	11/14/2014	11/25/2014

AR Acceptable Range
ND Not Detected
PQL Practical Quantitation Limit
RPD Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 141118048
Project Name: 1410796

Analytical Results Report

Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Uranium	0.194	mg/kg	0.2	97.0	80-120	11/24/2014	12/1/2014
Selenium	1.86	mg/kg	2	93.0	80-120	11/24/2014	12/1/2014
Molybdenum	1.95	mg/kg	2	97.5	80-120	11/24/2014	12/1/2014

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
141118048-020A	Uranium	0.648	2.94	mg/kg	2.18	105.1	75-125	11/24/2014	12/1/2014
141118048-020A	Selenium	ND	22.3	mg/kg	21.8	102.3	75-125	11/24/2014	12/1/2014
141118048-020A	Molybdenum	1.77	23.4	mg/kg	21.8	99.2	75-125	11/24/2014	12/1/2014

Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Uranium	3.02	mg/kg	2.13	111.4	2.7	0-20	11/24/2014	12/1/2014
Selenium	22.4	mg/kg	21.3	105.2	0.4	0-20	11/24/2014	12/1/2014
Molybdenum	23.6	mg/kg	21.3	102.5	0.9	0-20	11/24/2014	12/1/2014

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Molybdenum	ND	mg/Kg	0.001	11/24/2014	12/1/2014
Selenium	ND	mg/Kg	0.001	11/24/2014	12/1/2014
Uranium	ND	mg/kg	0.001	11/24/2014	12/1/2014

AR Acceptable Range
ND Not Detected
PQL Practical Quantitation Limit
RPD Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 141118048
Project Name: 1410796

Analytical Results Report

Sample Number 141118048-029 **Sampling Date** 10/15/2014 **Date/Time Received** 11/18/2014 12:05 PM
Client Sample ID 1410796-029A / LPV-02-WATER **Sampling Time** 2:15 PM
Matrix Water **Sample Location**
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Molybdenum	0.153	mg/L	0.005	12/2/2014	ETL	EPA 6020A	
Selenium	0.0116	mg/L	0.001	12/2/2014	ETL	EPA 6020A	
Uranium	0.0687	mg/L	0.001	12/2/2014	ETL	EPA 6020A	

Sample Number 141118048-030 **Sampling Date** 10/15/2014 **Date/Time Received** 11/18/2014 12:05 PM
Client Sample ID 1410796-030A / LPV-01-WATER **Sampling Time** 2:35 PM
Matrix Water **Sample Location**
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Molybdenum	0.0103	mg/L	0.005	12/2/2014	ETL	EPA 6020A	
Selenium	0.00735	mg/L	0.001	12/2/2014	ETL	EPA 6020A	
Uranium	0.0126	mg/L	0.001	12/2/2014	ETL	EPA 6020A	

Authorized Signature

John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 141118048
Project Name: 1410796

Analytical Results Report

Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Uranium	0.0560	mg/L	0.05	112.0	80-120	12/2/2014	12/2/2014
Selenium	0.0504	mg/L	0.05	100.8	80-120	12/2/2014	12/2/2014
Molybdenum	0.0555	mg/L	0.05	111.0	80-120	12/2/2014	12/2/2014

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
141126029-001A	Uranium	ND	0.0493	mg/L	0.05	98.6	75-125	12/2/2014	12/2/2014
141126029-001A	Selenium	0.00388	0.0526	mg/L	0.05	97.4	75-125	12/2/2014	12/2/2014
141126029-001A	Molybdenum	0.00174	0.0568	mg/L	0.05	110.1	75-125	12/2/2014	12/2/2014

Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Uranium	0.0494	mg/L	0.05	98.8	0.2	0-20	12/2/2014	12/2/2014
Selenium	0.0514	mg/L	0.05	95.0	2.3	0-20	12/2/2014	12/2/2014
Molybdenum	0.0570	mg/L	0.05	110.5	0.4	0-20	12/2/2014	12/2/2014

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Molybdenum	ND	mg/L	0.001	12/2/2014	12/2/2014
Selenium	ND	mg/L	0.001	12/2/2014	12/2/2014
Uranium	ND	mg/L	0.001	12/2/2014	12/2/2014

AR Acceptable Range
ND Not Detected
PQL Practical Quantitation Limit
RPD Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: ALAN KUHN ASSOC LL Work Order Number: 1410796 RcptNo: 1

Received by/date: MG 10/16/14

Logged By: **Celina Sessa** 10/16/2014 10:00:00 AM Celina Sessa

Completed By: **Celina Sessa** 10/16/2014 11:48:10 AM Celina Sessa

Reviewed By: 10/17/14

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☑
2. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
3. How was the sample delivered? Client

Log In

4. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐ Not required
6. Sample(s) in proper container(s)? Yes ☑ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
9. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
11. Were any sample containers received broken? Yes ☐ No ☑
12. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
13. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
14. Is it clear what analyses were requested? Yes ☑ No ☐
15. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

# of preserved bottles checked for pH: 2 (<2 or >12 unless noted)
Adjusted? NO
Checked by: [illegible]

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	14.3	Good	Not Present			

Chain-of-Custody Record

Client: ALAN KUHN

Mailing Address:

Phone #: 505-350-9188

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☐ Rush _____

Project Name: RGR - Samples

Project #:

Project Manager: ALAN KUHN

Sampler:

On Ice: ☑ Yes ☐ No

Sample Temperature: 14.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Depth ~~Matrix~~ inches	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1410796	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	U, Se, Mo CS 10/16/14			Air Bubbles (Y or N)
10-15-14	1:35	0-6	LDD-01-A	01-A JAR		-001 CS 10/16/14												X			
10-15-14	1:40	12-18	LDD-01-B	01-B JAR		-002												X			
10-15-14	1:45	24-30	LDD-01-C	01-C JAR		-003												X			
10-15-14	1:50	39-48	LDD-01-D	01-D JAR		-004												X			
10-15-14	1:20	0-6	LDD-02-A	02-A JAR		-005												X			
10-15-14	1:22	12-18	LDD-02-B	02-B JAR		-006												X			
10-15-14	1:25	24-30	LDD-02-C	02-C JAR		-007												X			
10-15-14	1:30	39-48	LDD-02-D	02-D JAR		-008												X			
10-15-14	1:00	0-6	LDD-03-A	03-A JAR		-009												X			
10-15-14	1:05	12-18	LDD-03-B	03-B JAR		-010												X			
10-15-14	1:10	24-30	LDD-03-C	03-C JAR		-011												X			
10-15-14	1:15	39-48	LDD-03-D	03 D JAR		-012												X			

Date:	Time:	Relinquished by:	Received by:	Date Time
10-16-14	10:00	ED WEBSTER	[signature]	10/16/14 1000
Date:	Time:	Relinquished by:	Received by:	Date Time

Remarks:
CALL ALAN KUHN FOR WORK ORDER
350-9188

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: ALAN KUHN

Mailing Address:

Phone #: 505-330-9188

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☐ Rush

Project Name: RGR-SAMPLES

Project #:

Project Manager: ALAN KUHN

Sampler:

On Ice: ☑ Yes ☐ No

Sample Temperature: 14.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	~~Matrix~~ Depth IN CABS	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1410796	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	U, Se, Mo CS 10/16/14				Air Bubbles (Y or N)
0-15-14	3:00	0"-6"	LPV-01-A	JAR		-013												X				
0-15-14	3:05	12-18"	LPV-01-B	JAR		-014												X				
0-15-14	3:10	24-30"	LPV-01-C	JAR		-015												X				
0-15-14	3:15	38-48"	LPV-01-D	JAR		-016												X				
0-15-14	2:15	0-6"	LPV-02-A	JAR		-017												X				
0-15-14	2:20	12-18"	LPV-02-B	JAR		-018												X				
0-15-14	2:25	24-30"	LPV-02-C	JAR		-019												X				
0-15-14	2:30	38-48"	LPV-02-D	JAR		-020												X				
10-15-14	2:35	0-6"	LPV-03-A	JAR		-021												X				
10-15-14	2:40	12-18"	LPV-03-B	JAR		-022												X				
10-15-14	2:45	24-30"	LPV-03-C	JAR		-023												X				
10-15-14	2:50	38-48"	LPV-03-D	JAR		-024												X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
10-16-14	10:00	[signature]	[signature]	10/16/14	1000
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:
CALL ALAN KUHN for TEST ASSIGNMENTS.

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: ALAN KUHN

Mailing Address:

Phone #: 350 - 9188

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☐ **Rush**

Project Name: RGR - Samples

Project #:

Project Manager: ALAN KUHN

Sampler:

On Ice: ☑ Yes ☐ No

Sample Temperature: 14.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1410796	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	U, Se, Mo as 10/16/14			Air Bubbles (Y or N)
10-15-14	3:45	0-6	SLD-01-A	JAR		-025												X			
10-15-14	3:50	12-18	SLD-01-B	JAR		-026												X			
10-15-14	3:55	24-30	SLD-01-C	JAR		-027												X			
10-15-14	4:00	38-48	SLD-01-D	JAR		-028												X			
—																					
10-15-14	2:15	POND1	LPV-02-WATER	WATER		-029												X			
10-15-14	2:35	POND2	LPV-01-WATER	WATER		-030												X			

Date:	Time:	Relinquished by:	Received by:	Date Time
10-16-14	10:00	Ed Loeschner	Michael [illegible]	10/16/14 1000
Date:	Time:	Relinquished by:	Received by:	Date Time

Remarks:
CALL ALAN KUHN for TEST ASSIGNMENTS
505- 350- 9188

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 03, 2014

Alan Kuhn
Alan Kuhn Assoc LLC
13212 Manitoba Dr NE
Albuquerque, NM 87111
TEL: (505) 350-9188
FAX

RE: RGR OrderNo.: 1411819

Dear Alan Kuhn:

Hall Environmental Analysis Laboratory received 2 sample(s) on 11/19/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1411819**
Date Reported: **12/3/2014**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: LPV-01a
Project: RGR
Collection Date: 11/19/2014 11:35:00 AM
Lab ID: 1411819-001
Matrix: AQUEOUS
Received Date: 11/19/2014 2:55:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LGP**
Fluoride	0.51	0.50		mg/L	5	11/20/2014 1:41:32 PM	R22703
Chloride	10	2.5		mg/L	5	11/20/2014 1:41:32 PM	R22703
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	11/20/2014 1:41:32 PM	R22703
Bromide	ND	0.50		mg/L	5	11/20/2014 1:41:32 PM	R22703
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	11/20/2014 1:41:32 PM	R22703
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	11/20/2014 1:41:32 PM	R22703
Sulfate	130	2.5		mg/L	5	11/20/2014 1:41:32 PM	R22703
EPA METHOD 6010B: DISSOLVED METALS						Analyst:	**ELS**
Calcium	51	1.0		mg/L	1	11/25/2014 8:58:38 AM	R22779
Magnesium	18	1.0		mg/L	1	11/25/2014 8:58:38 AM	R22779
Potassium	25	1.0		mg/L	1	11/25/2014 8:58:38 AM	R22779
Sodium	11	1.0		mg/L	1	11/25/2014 8:58:38 AM	R22779
SM2510B: SPECIFIC CONDUCTANCE						Analyst:	**JRR**
Conductivity	500	0.010		µmhos/cm	1	11/21/2014 1:52:53 PM	R22735
SM2320B: ALKALINITY						Analyst:	**JRR**
Bicarbonate (As CaCO3)	100	20		mg/L CaCO3	1	11/21/2014 1:52:53 PM	R22735
Carbonate (As CaCO3)	ND	2.0		mg/L CaCO3	1	11/21/2014 1:52:53 PM	R22735
Total Alkalinity (as CaCO3)	100	20		mg/L CaCO3	1	11/21/2014 1:52:53 PM	R22735
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	342	40.0		mg/L	1	11/23/2014 6:48:00 AM	16509

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Alan Kuhn Assoc LLC
Client Sample ID: LPV-02a
Project: RGR
Collection Date: 11/19/2014 11:44:00 AM
Lab ID: 1411819-002
Matrix: AQUEOUS
Received Date: 11/19/2014 2:55:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LGP**
Fluoride	1.1	0.50		mg/L	5	11/20/2014 2:06:21 PM	R22703
Chloride	36	2.5		mg/L	5	11/20/2014 2:06:21 PM	R22703
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	11/20/2014 2:06:21 PM	R22703
Bromide	0.78	0.50		mg/L	5	11/20/2014 2:06:21 PM	R22703
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	11/20/2014 2:06:21 PM	R22703
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	11/20/2014 2:06:21 PM	R22703
Sulfate	740	10		mg/L	20	11/20/2014 2:18:46 PM	R22703
EPA METHOD 6010B: DISSOLVED METALS						Analyst:	**ELS**
Calcium	160	5.0		mg/L	5	11/25/2014 9:34:48 AM	R22779
Magnesium	48	1.0		mg/L	1	11/25/2014 9:00:17 AM	R22779
Potassium	59	1.0		mg/L	1	11/25/2014 9:00:17 AM	R22779
Sodium	140	5.0		mg/L	5	11/25/2014 9:34:48 AM	R22779
SM2510B: SPECIFIC CONDUCTANCE						Analyst:	**JRR**
Conductivity	1500	0.010		µmhos/cm	1	11/21/2014 2:05:04 PM	R22735
SM2320B: ALKALINITY						Analyst:	**JRR**
Bicarbonate (As CaCO3)	81	20		mg/L CaCO3	1	11/21/2014 2:05:04 PM	R22735
Carbonate (As CaCO3)	ND	2.0		mg/L CaCO3	1	11/21/2014 2:05:04 PM	R22735
Total Alkalinity (as CaCO3)	82	20		mg/L CaCO3	1	11/21/2014 2:05:04 PM	R22735
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	1320	40.0	*	mg/L	1	11/23/2014 6:48:00 AM	16509

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

CATION/ANION BALANCE SHEET FOR WATER ANALYSES

HEAL LAB NUMBER	LPV-01a 1411819-001		LPV-02a 1411819-002							
CATIONS	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Sodium	11	0.48	140	6.09						
Potassium	25	0.64	59	1.51						
Calcium	51	2.54	160	7.98						
Magnesium	18	1.48	48	3.95						
Total Cations		5.14		19.53						
ANIONS	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Sulfate	130	2.71	740	15.41						
Chloride	10	0.28	36	1.02						
Bicarbonate (CaCO3)	100	2.00	81	1.62						
Carbonate (CaCO3)										
Phosphate (P)										
Nitrite (N)										
Nitrate (N)					-					
Fluoride	0.51	0.03	1.1	0.06						
Bromide			0.78	0.01						
Total Anions		5.01		18.11						
Elect. Cond. (µMhos/cm)	500		1500							
CATION/ANION RATIO		1.03		1.08						
% Difference		1		4						
TOTAL DISSOLVED SOLIDS RATIOS										
TDS (measured)	342		1320							
TDS (calculated)	306		1233							
Ratio meas TDS:calc TDS		1.1		1.1						
Ratio Meas. TDS:EC		0.68		0.88						
Ratio Calc. TDS:EC		0.61		0.82						
Ratio of anion sum:EC		1.0		1.2						
Ratio of cation sum:EC		1.0		1.3						

* Analyte not detected (below method detection limit).

** Values below 0.55 can be obtained in waters containing appreciable concentrations of free acid or alkalinity, or not within pH 6 to 9. Values much higher are possible in highly saline waters.

GENERALLY ACCEPTED RANGES

Cation/Anion balance: 0-3 meq/L- 0.2 meq/L, 3-10 meq/L- 2%, >10 meq/L - 5%

Ratio measured TDS:calculated TDS -- 1.0-1.2. Ratio Calculated TDS:EC -- 0.55-0.7. Ratio Measured TDS:EC--0.55-0.7. Ratio of anion sum:EC -- 0.9-1. Ratio of cation sum:EC -- 0.9-1.1

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1411819**
03-Dec-14

Client: Alan Kuhn Assoc LLC
Project: RGR

Sample ID **MB** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW** Batch ID: **R22703** RunNo: **22703**
Prep Date: Analysis Date: **11/20/2014** SeqNo: **669462** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								
Sulfate	ND	0.50								

Sample ID **LCS** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW** Batch ID: **R22703** RunNo: **22703**
Prep Date: Analysis Date: **11/20/2014** SeqNo: **669463** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.49	0.10	0.5000	0	97.4	90	110			
Chloride	4.6	0.50	5.000	0	92.1	90	110			
Nitrogen, Nitrite (As N)	0.97	0.10	1.000	0	96.7	90	110			
Bromide	2.4	0.10	2.500	0	96.5	90	110			
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	96.2	90	110			
Phosphorus, Orthophosphate (As P	4.7	0.50	5.000	0	94.3	90	110			
Sulfate	9.4	0.50	10.00	0	93.7	90	110			

Sample ID **MB** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW** Batch ID: **R22703** RunNo: **22703**
Prep Date: Analysis Date: **11/20/2014** SeqNo: **669516** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								
Sulfate	ND	0.50								

Sample ID **LCS** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW** Batch ID: **R22703** RunNo: **22703**
Prep Date: Analysis Date: **11/20/2014** SeqNo: **669517** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.51	0.10	0.5000	0	102	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1411819**
03-Dec-14

Client: Alan Kuhn Assoc LLC
Project: RGR

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**			
Client ID: **LCSW**	Batch ID: **R22703**	RunNo: **22703**			
Prep Date:	Analysis Date: **11/20/2014**	SeqNo: **669517**	Units: **mg/L**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	93.1	90	110			
Nitrogen, Nitrite (As N)	0.98	0.10	1.000	0	97.7	90	110			
Bromide	2.4	0.10	2.500	0	97.1	90	110			
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	97.0	90	110			
Phosphorus, Orthophosphate (As P	4.8	0.50	5.000	0	95.6	90	110			
Sulfate	9.5	0.50	10.00	0	95.1	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1411819**
03-Dec-14

Client: Alan Kuhn Assoc LLC
Project: RGR

Sample ID	**1411819-001a dup**	SampType:	**DUP**	TestCode:	**SM2510B: Specific Conductance**
Client ID:	**LPV-01a**	Batch ID:	**R22735**	RunNo:	**22735**
Prep Date:		Analysis Date:	**11/21/2014**	SeqNo:	**670840** Units: **µmhos/cm**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	500	0.010						0.918	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1411819**
03-Dec-14

Client: Alan Kuhn Assoc LLC
Project: RGR

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **PBW**	Batch ID: **R22779**	RunNo: **22779**
Prep Date:	Analysis Date: **11/25/2014**	SeqNo: **672282** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **R22779**	RunNo: **22779**
Prep Date:	Analysis Date: **11/25/2014**	SeqNo: **672283** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	51	1.0	50.00	0	102	80	120			
Magnesium	50	1.0	50.00	0	101	80	120			
Potassium	48	1.0	50.00	0	96.6	80	120			
Sodium	50	1.0	50.00	0	99.3	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1411819**
03-Dec-14

Client: Alan Kuhn Assoc LLC
Project: RGR

Sample ID **mb-1** SampType: **MBLK** TestCode: **SM2320B: Alkalinity**
Client ID: **PBW** Batch ID: **R22735** RunNo: **22735**
Prep Date: Analysis Date: **11/21/2014** SeqNo: **670792** Units: **mg/L CaCO3**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20								

Sample ID **lcs-1** SampType: **LCS** TestCode: **SM2320B: Alkalinity**
Client ID: **LCSW** Batch ID: **R22735** RunNo: **22735**
Prep Date: Analysis Date: **11/21/2014** SeqNo: **670793** Units: **mg/L CaCO3**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	79	20	80.00	0	99.0	90	110			

Sample ID **mb-2** SampType: **MBLK** TestCode: **SM2320B: Alkalinity**
Client ID: **PBW** Batch ID: **R22735** RunNo: **22735**
Prep Date: Analysis Date: **11/21/2014** SeqNo: **670818** Units: **mg/L CaCO3**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20								

Sample ID **lcs-2** SampType: **LCS** TestCode: **SM2320B: Alkalinity**
Client ID: **LCSW** Batch ID: **R22735** RunNo: **22735**
Prep Date: Analysis Date: **11/21/2014** SeqNo: **670819** Units: **mg/L CaCO3**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	80	20	80.00	0	100	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1411819**
03-Dec-14

Client: Alan Kuhn Assoc LLC
Project: RGR

Sample ID **MB-16509**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**			
Client ID: **PBW**	Batch ID: **16509**	RunNo: **22729**			
Prep Date: **11/21/2014**	Analysis Date: **11/23/2014**	SeqNo: **670476**	Units: **mg/L**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID **LCS-16509**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**			
Client ID: **LCSW**	Batch ID: **16509**	RunNo: **22729**			
Prep Date: **11/21/2014**	Analysis Date: **11/23/2014**	SeqNo: **670477**	Units: **mg/L**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	102	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: ALAN KUHN ASSOC LLC Work Order Number: 1411819 RcptNo: 1

Received by/date: LM 11/19/14

Logged By: **Celina Sessa** 11/19/2014 2:55:00 PM Celina Sessa

Completed By: **Celina Sessa** 11/19/2014 3:04:49 PM Celina Sessa

Reviewed By: 11/20/14

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☑
2. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
3. How was the sample delivered? Client

Log In

4. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Samples were collected the same day and chilled.
6. Sample(s) in proper container(s)? Yes ☑ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☑ CS 11/20/14
9. Was preservative added to bottles? Yes ☑ No ☑ NA ☐
   r metals analysis, added 1 ml HNO3 to -001B and -002B for acceptable pH. Held in login for 24 hours. — CS 11/20/14
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
11. Were any sample containers received broken? Yes ☐ No ☑
12. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
13. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
14. Is it clear what analyses were requested? Yes ☑ No ☐
15. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

# of preserved bottles checked for pH: 4 (<2 or >12 unless noted)
Adjusted? yes
Checked by: CS

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	6.1	Good	Not Present			

Chain-of-Custody Record

Client: ALAN KUHN

Mailing Address:

Phone #: 505-350-9188

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: RGR

Project #:

Project Manager: ALAN KUHN

Sampler:

On Ice: ☒ Yes ☐ No

Sample Temperature: 6.1° C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1411819	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Cation / Anion Balance CS 11/19/14			Air Bubbles (Y or N)
11-19-14	11:35	WATER	LPV-01a	JAR	H_2SO_4	-001												X			
			~~LPV-01b~~ "	JAR	HNO_3	↓															
			~~LPV-01c~~ "	JAR	NONE	↓															
11-19-14	11:44	WATER	LPV-02a	JAR	H_2SO_4	-002												X			
			~~LPV-02b~~ "	JAR	HNO_3	↓															
			~~LPV-02c~~ "	JAR	NONE	↓															
			CS 11/19/14																		

Date:	Time:	Relinquished by:	Received by:	Date	Time
11-19-14	12:55	[illegible]	[illegible]	11/19/14	1455
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:
C/A BALANCE ICE PACKED
TALK TO ANDY

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.