

May 20, 2011

Report to:

Levi Kryder

Nye County Natural Res & Fed Facilities

2101 E. Calvada Blvd. Suite 100

Pahrump, NV 89048

Bill to:

Levi Kryder

Nye County Natural Res & Fed Facilities

2101 E. Calvada Blvd. Suite 100

Pahrump, NV 89048

Project ID: 11-071-LK-(L)

ACZ Project ID: L87703

Levi Kryder:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on May 04, 2011. This project has been assigned to ACZ's project number, L87703. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L87703. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after June 20, 2011. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than \$10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.



Tony Antalek has reviewed and approved this report.



Nye County Natural Res Fed Facilities

May 20, 2011

Project ID: 11-071-LK-(L)

ACZ Project ID: L87703

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 4 ground water samples from Nye County Natural Res & Fed Facilities on May 4, 2011. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L87703. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

These samples were analyzed for inorganic parameters. The individual methods are referenced on both the ACZ invoice and the analytical reports. The extended qualifier reports may contain footnotes qualifying specific elements due to QC failures. In addition the following has been noted with this specific project:

1. Client samples were received at a temperature outside of the acceptable range (See Sample Receipt Form).

Nye County Natural Res & Fed Facilities

Project ID: 11-071-LK-(L)

Sample ID: NC-GWE-PV-3

ACZ Sample ID: **L87703-01**

Date Sampled: 04/27/11 00:00

Date Received: 05/04/11

Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/06/11 12:03	tcd

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP		U		mg/L	0.03	0.2	05/10/11 11:27	jjc
Antimony, dissolved	M200.8 ICP-MS		U		mg/L	0.0004	0.002	05/11/11 19:19	msh
Arsenic, dissolved	M200.8 ICP-MS		U		mg/L	0.0005	0.002	05/10/11 22:19	msh
Barium, dissolved	M200.7 ICP	0.051			mg/L	0.003	0.02	05/09/11 19:44	jjc
Beryllium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/09/11 19:44	jjc
Boron, dissolved	M200.7 ICP	0.02	B		mg/L	0.01	0.05	05/09/11 19:44	jjc
Cadmium, dissolved	M200.7 ICP		U	*	mg/L	0.005	0.02	05/09/11 19:44	jjc
Chromium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/09/11 19:44	jjc
Cobalt, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/09/11 19:44	jjc
Copper, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/09/11 19:44	jjc
Iron, dissolved	M200.7 ICP		U	*	mg/L	0.02	0.05	05/09/11 19:44	jjc
Lead, dissolved	M200.8 ICP-MS	0.0012			mg/L	0.0001	0.0005	05/11/11 19:19	msh
Lithium, dissolved	M200.7 ICP		U		mg/L	0.02	0.1	05/09/11 19:44	jjc
Manganese, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	05/09/11 19:44	jjc
Molybdenum, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/09/11 19:44	jjc
Nickel, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/09/11 19:44	jjc
Selenium, dissolved	M200.8 ICP-MS	0.0004			mg/L	0.0001	0.0003	05/11/11 19:19	msh
Silver, dissolved	M200.8 ICP-MS		U		mg/L	0.00005	0.0003	05/10/11 22:19	msh
Sodium, dissolved	M200.7 ICP	6.0			mg/L	0.3	2	05/09/11 19:44	jjc
Strontium, dissolved	M200.7 ICP	0.29			mg/L	0.01	0.05	05/09/11 19:44	jjc
Thallium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/11/11 19:19	msh
Titanium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	05/09/11 19:44	jjc
Uranium, dissolved	M200.8 ICP-MS	0.0014			mg/L	0.0001	0.0005	05/11/11 19:19	msh
Vanadium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	05/10/11 11:27	jjc
Zinc, dissolved	M200.7 ICP	0.06		*	mg/L	0.01	0.05	05/09/11 19:44	jjc

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Bromide	M300.0 - Ion Chromatography		U	*	mg/L	0.01	0.05	05/18/11 17:23	ccp
Chloride	M300.0 - Ion Chromatography	4.4		*	mg/L	0.5	3	05/13/11 20:51	ccp
Fluoride	M300.0 - Ion Chromatography		U	*	mg/L	0.1	0.5	05/13/11 20:51	ccp
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	0.59			mg/L	0.02	0.1	05/14/11 15:46	pjb
Nitrogen, ammonia	M350.1 - Automated Phenate		U	*	mg/L	0.05	0.5	05/06/11 13:47	mpb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.04	B	*	mg/L	0.01	0.05	05/06/11 22:27	pjb
Residue, Filterable (TDS) @180C	SM2540C	270			mg/L	10	20	05/04/11 17:16	las

Nye County Natural Res & Fed Facilities

Project ID: 11-071-LK-(L)

Sample ID: NC-GWE-3D

ACZ Sample ID: **L87703-02**

Date Sampled: 04/27/11 00:00

Date Received: 05/04/11

Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/06/11 12:03	tcd

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP		U		mg/L	0.03	0.2	05/10/11 11:30	jjc
Antimony, dissolved	M200.8 ICP-MS		U		mg/L	0.0004	0.002	05/10/11 22:22	msh
Arsenic, dissolved	M200.8 ICP-MS		U		mg/L	0.0005	0.002	05/10/11 22:22	msh
Barium, dissolved	M200.7 ICP	0.051			mg/L	0.003	0.02	05/09/11 19:47	jjc
Beryllium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/09/11 19:47	jjc
Boron, dissolved	M200.7 ICP	0.02	B		mg/L	0.01	0.05	05/09/11 19:47	jjc
Cadmium, dissolved	M200.7 ICP		U	*	mg/L	0.005	0.02	05/09/11 19:47	jjc
Chromium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/09/11 19:47	jjc
Cobalt, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/09/11 19:47	jjc
Copper, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/09/11 19:47	jjc
Iron, dissolved	M200.7 ICP		U	*	mg/L	0.02	0.05	05/09/11 19:47	jjc
Lead, dissolved	M200.8 ICP-MS	0.0012			mg/L	0.0001	0.0005	05/10/11 22:22	msh
Lithium, dissolved	M200.7 ICP		U		mg/L	0.02	0.1	05/09/11 19:47	jjc
Manganese, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	05/09/11 19:47	jjc
Molybdenum, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/09/11 19:47	jjc
Nickel, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/09/11 19:47	jjc
Selenium, dissolved	M200.8 ICP-MS	0.0006			mg/L	0.0001	0.0003	05/11/11 19:29	msh
Silver, dissolved	M200.8 ICP-MS		U		mg/L	0.00005	0.0003	05/10/11 22:22	msh
Sodium, dissolved	M200.7 ICP	6.0			mg/L	0.3	2	05/09/11 19:47	jjc
Strontium, dissolved	M200.7 ICP	0.29			mg/L	0.01	0.05	05/09/11 19:47	jjc
Thallium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/10/11 22:22	msh
Titanium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	05/09/11 19:47	jjc
Uranium, dissolved	M200.8 ICP-MS	0.0013			mg/L	0.0001	0.0005	05/10/11 22:22	msh
Vanadium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	05/10/11 11:30	jjc
Zinc, dissolved	M200.7 ICP	0.05	B	*	mg/L	0.01	0.05	05/09/11 19:47	jjc

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Bromide	M300.0 - Ion Chromatography		U	*	mg/L	0.01	0.05	05/13/11 21:12	ccp
Chloride	M300.0 - Ion Chromatography	4.4		*	mg/L	0.5	3	05/13/11 21:12	ccp
Fluoride	M300.0 - Ion Chromatography		U	*	mg/L	0.1	0.5	05/13/11 21:12	ccp
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	0.61			mg/L	0.02	0.1	05/14/11 15:47	pjb
Nitrogen, ammonia	M350.1 - Automated Phenate		U	*	mg/L	0.05	0.5	05/06/11 13:48	mpb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.01	B	*	mg/L	0.01	0.05	05/06/11 22:28	pjb
Residue, Filterable (TDS) @180C	SM2540C	270			mg/L	10	20	05/04/11 17:16	las

Nye County Natural Res & Fed Facilities

Project ID: 11-071-LK-(L)

Sample ID: NC-GWE-3B

ACZ Sample ID: **L87703-03**

Date Sampled: 04/27/11 00:00

Date Received: 05/04/11

Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/06/11 12:04	tcd

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	0.13	B		mg/L	0.03	0.2	05/10/11 11:33	jjc
Antimony, dissolved	M200.8 ICP-MS		U		mg/L	0.0004	0.002	05/10/11 22:26	msh
Arsenic, dissolved	M200.8 ICP-MS		U		mg/L	0.0005	0.002	05/10/11 22:26	msh
Barium, dissolved	M200.7 ICP		U		mg/L	0.003	0.02	05/09/11 19:56	jjc
Beryllium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/09/11 19:56	jjc
Boron, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/09/11 19:56	jjc
Cadmium, dissolved	M200.7 ICP		U	*	mg/L	0.005	0.02	05/09/11 19:56	jjc
Chromium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/09/11 19:56	jjc
Cobalt, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/09/11 19:56	jjc
Copper, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/09/11 19:56	jjc
Iron, dissolved	M200.7 ICP	0.12		*	mg/L	0.02	0.05	05/09/11 19:56	jjc
Lead, dissolved	M200.8 ICP-MS	0.0004	B		mg/L	0.0001	0.0005	05/10/11 22:26	msh
Lithium, dissolved	M200.7 ICP		U		mg/L	0.02	0.1	05/09/11 19:56	jjc
Manganese, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	05/09/11 19:56	jjc
Molybdenum, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/09/11 19:56	jjc
Nickel, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/09/11 19:56	jjc
Selenium, dissolved	M200.8 ICP-MS		U	*	mg/L	0.0001	0.0003	05/10/11 22:26	msh
Silver, dissolved	M200.8 ICP-MS		U		mg/L	0.00005	0.0003	05/10/11 22:26	msh
Sodium, dissolved	M200.7 ICP	2.5			mg/L	0.3	2	05/09/11 19:56	jjc
Strontium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/09/11 19:56	jjc
Thallium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/10/11 22:26	msh
Titanium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	05/09/11 19:56	jjc
Uranium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/10/11 22:26	msh
Vanadium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	05/10/11 11:33	jjc
Zinc, dissolved	M200.7 ICP		U	*	mg/L	0.01	0.05	05/09/11 19:56	jjc

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Bromide	M300.0 - Ion Chromatography		U	*	mg/L	0.01	0.05	05/13/11 22:15	ccp
Chloride	M300.0 - Ion Chromatography		U	*	mg/L	0.5	3	05/13/11 22:15	ccp
Fluoride	M300.0 - Ion Chromatography		U	*	mg/L	0.1	0.5	05/13/11 22:15	ccp
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved		U		mg/L	0.02	0.1	05/14/11 15:53	pjb
Nitrogen, ammonia	M350.1 - Automated Phenate		U	*	mg/L	0.05	0.5	05/06/11 13:49	mpb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)		U	*	mg/L	0.01	0.05	05/06/11 22:29	pjb
Residue, Filterable (TDS) @180C	SM2540C	30			mg/L	10	20	05/04/11 17:17	las

Nye County Natural Res & Fed Facilities

Project ID: 11-071-LK-(L)

Sample ID: NC-GWE-PV-2

ACZ Sample ID: **L87703-04**

Date Sampled: 04/29/11 00:00

Date Received: 05/04/11

Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/06/11 12:04	tcd

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP		U		mg/L	0.03	0.2	05/10/11 11:36	jjc
Antimony, dissolved	M200.8 ICP-MS		U		mg/L	0.0004	0.002	05/10/11 22:29	msh
Arsenic, dissolved	M200.8 ICP-MS		U		mg/L	0.0005	0.002	05/10/11 22:29	msh
Barium, dissolved	M200.7 ICP	0.066			mg/L	0.003	0.02	05/09/11 19:59	jjc
Beryllium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/09/11 19:59	jjc
Boron, dissolved	M200.7 ICP	0.02	B		mg/L	0.01	0.05	05/09/11 19:59	jjc
Cadmium, dissolved	M200.7 ICP		U	*	mg/L	0.005	0.02	05/09/11 19:59	jjc
Chromium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/09/11 19:59	jjc
Cobalt, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/09/11 19:59	jjc
Copper, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/09/11 19:59	jjc
Iron, dissolved	M200.7 ICP		U	*	mg/L	0.02	0.05	05/09/11 19:59	jjc
Lead, dissolved	M200.8 ICP-MS	0.0009			mg/L	0.0001	0.0005	05/10/11 22:29	msh
Lithium, dissolved	M200.7 ICP		U		mg/L	0.02	0.1	05/09/11 19:59	jjc
Manganese, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	05/09/11 19:59	jjc
Molybdenum, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/09/11 19:59	jjc
Nickel, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/09/11 19:59	jjc
Selenium, dissolved	M200.8 ICP-MS	0.0004			mg/L	0.0001	0.0003	05/11/11 19:32	msh
Silver, dissolved	M200.8 ICP-MS		U		mg/L	0.00005	0.0003	05/10/11 22:29	msh
Sodium, dissolved	M200.7 ICP	5.5			mg/L	0.3	2	05/09/11 19:59	jjc
Strontium, dissolved	M200.7 ICP	0.19			mg/L	0.01	0.05	05/09/11 19:59	jjc
Thallium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/10/11 22:29	msh
Titanium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	05/09/11 19:59	jjc
Uranium, dissolved	M200.8 ICP-MS	0.0010			mg/L	0.0001	0.0005	05/10/11 22:29	msh
Vanadium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	05/10/11 11:36	jjc
Zinc, dissolved	M200.7 ICP	0.05		*	mg/L	0.01	0.05	05/09/11 19:59	jjc

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Bromide	M300.0 - Ion Chromatography		U	*	mg/L	0.01	0.05	05/13/11 22:37	ccp
Chloride	M300.0 - Ion Chromatography	4.2		*	mg/L	0.5	3	05/13/11 22:37	ccp
Fluoride	M300.0 - Ion Chromatography	0.2	B	*	mg/L	0.1	0.5	05/13/11 22:37	ccp
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	0.56			mg/L	0.02	0.1	05/14/11 15:54	pjb
Nitrogen, ammonia	M350.1 - Automated Phenate		U	*	mg/L	0.05	0.5	05/06/11 13:51	mpb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)		U	*	mg/L	0.01	0.05	05/06/11 22:31	pjb
Residue, Filterable (TDS) @180C	SM2540C	270			mg/L	10	20	05/04/11 17:17	las

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit, typically 5 times the MDL.
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	LCSWD	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	LFB	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	LFM	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	LFMD	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	LRB	Laboratory Reagent Blank
ICB	Initial Calibration Blank	MS	Matrix Spike
ICV	Initial Calibration Verification standard	MSD	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	PBS	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	PBW	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	PQV	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	SDL	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

- (1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
- (2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
- (3) EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
- (5) EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December 1996.
- (6) Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995 & 20th edition (1998).

Comments

- (1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
- (3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click:

<http://www.acz.com/public/extquallist.pdf>

Nye County Natural Res & Fed Facilities
 Project ID: 11-071-LK-(L)

ACZ Project ID: **L87703**

Aluminum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301189													
WG301189ICV	ICV	05/10/11 10:13	II110104-1	2		1.97	mg/L	98.5	95	105			
WG301189ICB	ICB	05/10/11 10:17				U	mg/L		-0.09	0.09			
WG301189LFB	LFB	05/10/11 11:12	II110421-4	1		1.042	mg/L	104.2	85	115			
L87689-01AS	AS	05/10/11 11:21	II110421-4	1	U	1.039	mg/L	103.9	85	115			
L87689-01ASD	ASD	05/10/11 11:24	II110421-4	1	U	1.048	mg/L	104.8	85	115	0.86	20	

Antimony, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301219													
WG301219ICV	ICV	05/10/11 20:44	MS110414-1	.02		.02003	mg/L	100.2	90	110			
WG301219ICB	ICB	05/10/11 20:48				U	mg/L		-0.00088	0.00088			
WG301219LFB	LFB	05/10/11 20:55	MS110414-3	.01		.01016	mg/L	101.6	85	115			
L87613-01AS	AS	05/10/11 21:51	MS110414-3	.01	U	.0096	mg/L	96	70	130			
L87613-01ASD	ASD	05/10/11 21:54	MS110414-3	.01	U	.00958	mg/L	95.8	70	130	0.21	20	

WG301313

WG301313ICV	ICV	05/11/11 18:18	MS110414-1	.02		.01881	mg/L	94.1	90	110			
WG301313ICB	ICB	05/11/11 18:22				U	mg/L		-0.00088	0.00088			
WG301313LFB	LFB	05/11/11 18:28	MS110414-3	.01		.01017	mg/L	101.7	85	115			
L87703-01AS	AS	05/11/11 19:22	MS110414-3	.01	U	.01011	mg/L	101.1	70	130			
L87703-01ASD	ASD	05/11/11 19:26	MS110414-3	.01	U	.01007	mg/L	100.7	70	130	0.4	20	

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301219													
WG301219ICV	ICV	05/10/11 20:44	MS110414-1	.05		.05362	mg/L	107.2	90	110			
WG301219ICB	ICB	05/10/11 20:48				U	mg/L		-0.0011	0.0011			
WG301219LFB	LFB	05/10/11 20:55	MS110414-3	.05005		.05617	mg/L	112.2	85	115			
L87613-01AS	AS	05/10/11 21:51	MS110414-3	.05005	U	.05748	mg/L	114.8	70	130			
L87613-01ASD	ASD	05/10/11 21:54	MS110414-3	.05005	U	.05727	mg/L	114.4	70	130	0.37	20	

Barium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301123													
WG301123ICV	ICV	05/09/11 18:27	II110104-1	2		2.0099	mg/L	100.5	95	105			
WG301123ICB	ICB	05/09/11 18:31				U	mg/L		-0.009	0.009			
WG301123LFB	LFB	05/09/11 18:43	II110421-4	.5		.5071	mg/L	101.4	85	115			
L87699-10AS	AS	05/09/11 19:35	II110421-4	.5	U	.5079	mg/L	101.6	85	115			
L87699-10ASD	ASD	05/09/11 19:38	II110421-4	.5	U	.5082	mg/L	101.6	85	115	0.06	20	

Nye County Natural Res & Fed Facilities
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Beryllium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301123													
WG301123ICV	ICV	05/09/11 18:27	II110104-1	2		2.009	mg/L	100.5	95	105			
WG301123ICB	ICB	05/09/11 18:31				U	mg/L		-0.03	0.03			
WG301123LFB	LFB	05/09/11 18:43	II110421-4	.5		.531	mg/L	106.2	85	115			
L87699-10AS	AS	05/09/11 19:35	II110421-4	.5	U	.538	mg/L	107.6	85	115			
L87699-10ASD	ASD	05/09/11 19:38	II110421-4	.5	U	.54	mg/L	108	85	115	0.37	20	

Boron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301123													
WG301123ICV	ICV	05/09/11 18:27	II110104-1	2		2.082	mg/L	104.1	95	105			
WG301123ICB	ICB	05/09/11 18:31				U	mg/L		-0.03	0.03			
WG301123LFB	LFB	05/09/11 18:43	II110421-4	.5005		.52	mg/L	103.9	85	115			
L87699-10AS	AS	05/09/11 19:35	II110421-4	.5005	U	.527	mg/L	105.3	85	115			
L87699-10ASD	ASD	05/09/11 19:38	II110421-4	.5005	U	.541	mg/L	108.1	85	115	2.62	20	

Bromide

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG300350													
WG300350ICV	ICV	04/22/11 12:11	WI110217-4	4.012		4.116	mg/L	102.6	90	110			
WG300350ICB	ICB	04/22/11 12:32				U	mg/L		-0.03	0.03			
WG301411													
WG301411LFB	LFB	05/13/11 14:10	WI110218-1	1.5		1.399	mg/L	93.3	90	110			
L87699-10DUP	DUP	05/13/11 19:48			U	U	mg/L				0	20	RA
L87699-11AS	AS	05/13/11 20:30	WI110218-1	1.5	U	1.392	mg/L	92.8	90	110			
WG301670													
WG301670LFB1	LFB	05/18/11 17:02	WI110218-1	1.5		1.374	mg/L	91.6	90	110			
L87703-01DUP	DUP	05/18/11 17:44			U	U	mg/L				0	20	RA
L87755-02AS	AS	05/18/11 18:26	WI110218-1	1.5	U	1.309	mg/L	87.3	90	110			M2
WG301670LFB2	LFB	05/19/11 3:14	WI110218-1	1.5		1.385	mg/L	92.3	90	110			

Cadmium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301123													
WG301123ICV	ICV	05/09/11 18:27	II110104-1	2		1.9836	mg/L	99.2	95	105			
WG301123ICB	ICB	05/09/11 18:31				U	mg/L		-0.015	0.015			
WG301123LFB	LFB	05/09/11 18:43	II110421-4	.5		.527	mg/L	105.4	85	115			
L87699-10AS	AS	05/09/11 19:35	II110421-4	.5	U	.5804	mg/L	116.1	85	115			M1
L87699-10ASD	ASD	05/09/11 19:38	II110421-4	.5	U	.5828	mg/L	116.6	85	115	0.41	20	M1

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Chloride M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG300350													
WG300350ICV	ICV	04/22/11 12:11	WI110217-4	20.06		20.24	mg/L	100.9	90	110			
WG300350ICB	ICB	04/22/11 12:32				U	mg/L		-1.5	1.5			
WG301411													
WG301411LFB	LFB	05/13/11 14:10	WI110218-1	30		29.58	mg/L	98.6	90	110			
L87699-10DUP	DUP	05/13/11 19:48			U	U	mg/L				0	20	RA
L87699-11AS	AS	05/13/11 20:30	WI110218-1	30	U	30.23	mg/L	100.8	90	110			

Chromium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301123													
WG301123ICV	ICV	05/09/11 18:27	II110104-1	2		2.048	mg/L	102.4	95	105			
WG301123ICB	ICB	05/09/11 18:31				U	mg/L		-0.03	0.03			
WG301123LFB	LFB	05/09/11 18:43	II110421-4	.5		.548	mg/L	109.6	85	115			
L87699-10AS	AS	05/09/11 19:35	II110421-4	.5	U	.575	mg/L	115	85	115			
L87699-10ASD	ASD	05/09/11 19:38	II110421-4	.5	U	.572	mg/L	114.4	85	115	0.52	20	

Cobalt, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301123													
WG301123ICV	ICV	05/09/11 18:27	II110104-1	2		1.964	mg/L	98.2	95	105			
WG301123ICB	ICB	05/09/11 18:31				U	mg/L		-0.03	0.03			
WG301123LFB	LFB	05/09/11 18:43	II110421-4	.5		.515	mg/L	103	85	115			
L87699-10AS	AS	05/09/11 19:35	II110421-4	.5	U	.549	mg/L	109.8	85	115			
L87699-10ASD	ASD	05/09/11 19:38	II110421-4	.5	U	.556	mg/L	111.2	85	115	1.27	20	

Copper, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301123													
WG301123ICV	ICV	05/09/11 18:27	II110104-1	2		1.91	mg/L	95.5	95	105			
WG301123ICB	ICB	05/09/11 18:31				U	mg/L		-0.03	0.03			
WG301123LFB	LFB	05/09/11 18:43	II110421-4	.5		.512	mg/L	102.4	85	115			
L87699-10AS	AS	05/09/11 19:35	II110421-4	.5	U	.51	mg/L	102	85	115			
L87699-10ASD	ASD	05/09/11 19:38	II110421-4	.5	U	.511	mg/L	102.2	85	115	0.2	20	

Fluoride M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG300350													
WG300350ICV	ICV	04/22/11 12:11	WI110217-4	4		4.16	mg/L	104	90	110			
WG300350ICB	ICB	04/22/11 12:32				U	mg/L		-0.3	0.3			
WG301411													
WG301411LFB	LFB	05/13/11 14:10	WI110218-1	1.5		1.46	mg/L	97.3	90	110			
L87699-10DUP	DUP	05/13/11 19:48			U	U	mg/L				0	20	RA
L87699-11AS	AS	05/13/11 20:30	WI110218-1	1.5	U	1.53	mg/L	102	90	110			

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Iron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301123													
WG301123ICV	ICV	05/09/11 18:27	II110104-1	2		2.008	mg/L	100.4	95	105			
WG301123ICB	ICB	05/09/11 18:31				U	mg/L		-0.06	0.06			
WG301123LFB	LFB	05/09/11 18:43	II110421-4	1		1.072	mg/L	107.2	85	115			
L87699-10AS	AS	05/09/11 19:35	II110421-4	1	U	1.165	mg/L	116.5	85	115			M1
L87699-10ASD	ASD	05/09/11 19:38	II110421-4	1	U	1.162	mg/L	116.2	85	115	0.26	20	M1

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301219													
WG301219ICV	ICV	05/10/11 20:44	MS110414-1	.05		.05097	mg/L	101.9	90	110			
WG301219ICB	ICB	05/10/11 20:48				U	mg/L		-0.00022	0.00022			
WG301219LFB	LFB	05/10/11 20:55	MS110414-3	.05005		.05525	mg/L	110.4	85	115			
L87613-01AS	AS	05/10/11 21:51	MS110414-3	.05005	.0002	.05386	mg/L	107.2	70	130			
L87613-01ASD	ASD	05/10/11 21:54	MS110414-3	.05005	.0002	.05414	mg/L	107.8	70	130	0.52	20	

WG301313

WG301313ICV	ICV	05/11/11 18:18	MS110414-1	.05		.05114	mg/L	102.3	90	110			
WG301313ICB	ICB	05/11/11 18:22				U	mg/L		-0.00022	0.00022			
WG301313LFB	LFB	05/11/11 18:28	MS110414-3	.05005		.05296	mg/L	105.8	85	115			
L87703-01AS	AS	05/11/11 19:22	MS110414-3	.05005	.0012	.05565	mg/L	108.8	70	130			
L87703-01ASD	ASD	05/11/11 19:26	MS110414-3	.05005	.0012	.05528	mg/L	108.1	70	130	0.67	20	

Lithium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301123													
WG301123ICV	ICV	05/09/11 18:27	II110104-1	2		1.935	mg/L	96.8	95	105			
WG301123ICB	ICB	05/09/11 18:31				U	mg/L		-0.06	0.06			
WG301123LFB	LFB	05/09/11 18:43	II110421-4	1		.954	mg/L	95.4	85	115			
L87699-10AS	AS	05/09/11 19:35	II110421-4	1	U	.942	mg/L	94.2	85	115			
L87699-10ASD	ASD	05/09/11 19:38	II110421-4	1	U	.939	mg/L	93.9	85	115	0.32	20	

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301123													
WG301123ICV	ICV	05/09/11 18:27	II110104-1	2		1.9702	mg/L	98.5	95	105			
WG301123ICB	ICB	05/09/11 18:31				U	mg/L		-0.015	0.015			
WG301123LFB	LFB	05/09/11 18:43	II110421-4	.5		.5389	mg/L	107.8	85	115			
L87699-10AS	AS	05/09/11 19:35	II110421-4	.5	U	.5473	mg/L	109.5	85	115			
L87699-10ASD	ASD	05/09/11 19:38	II110421-4	.5	U	.5507	mg/L	110.1	85	115	0.62	20	

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Molybdenum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301123													
WG301123ICV	ICV	05/09/11 18:27	II110104-1	2		2.028	mg/L	101.4	95	105			
WG301123ICB	ICB	05/09/11 18:31				U	mg/L		-0.03	0.03			
WG301123LFB	LFB	05/09/11 18:43	II110421-4	.5		.534	mg/L	106.8	85	115			
L87699-10AS	AS	05/09/11 19:35	II110421-4	.5	U	.546	mg/L	109.2	85	115			
L87699-10ASD	ASD	05/09/11 19:38	II110421-4	.5	U	.549	mg/L	109.8	85	115	0.55	20	

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301123													
WG301123ICV	ICV	05/09/11 18:27	II110104-1	2.002		1.972	mg/L	98.5	95	105			
WG301123ICB	ICB	05/09/11 18:31				U	mg/L		-0.03	0.03			
WG301123LFB	LFB	05/09/11 18:43	II110421-4	.5		.519	mg/L	103.8	85	115			
L87699-10AS	AS	05/09/11 19:35	II110421-4	.5	U	.532	mg/L	106.4	85	115			
L87699-10ASD	ASD	05/09/11 19:38	II110421-4	.5	U	.535	mg/L	107	85	115	0.56	20	

Nitrate/Nitrite as N

M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301467													
WG301467ICV	ICV	05/14/11 14:05	WI110330-1	2.416		2.279	mg/L	94.3	90	110			
WG301467ICB	ICB	05/14/11 14:07				U	mg/L		-0.06	0.06			
WG301471													
WG301471LFB1	LFB	05/14/11 15:35	WI110322-5	2		1.972	mg/L	98.6	90	110			
L87664-10DUP	DUP	05/14/11 15:41			.31	.318	mg/L				2.5	20	
WG301471LFB2	LFB	05/14/11 16:17	WI110322-5	2		1.918	mg/L	95.9	90	110			
L87664-07AS	AS	05/14/11 16:37	WI110322-5	2	1.15	3.124	mg/L	98.7	90	110			

Nitrogen, ammonia

M350.1 - Automated Phenate

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301030													
WG301030ICV	ICV	05/06/11 11:49	WI101121-1	1.004		1.001	mg/L	99.7	90	110			
WG301030ICB	ICB	05/06/11 11:51				U	mg/L		-0.15	0.15			
WG301051													
WG301051LFB1	LFB	05/06/11 13:02	WI110211-5	1		.995	mg/L	99.5	90	110			
WG301051LFB2	LFB	05/06/11 13:35	WI110211-5	1		1.008	mg/L	100.8	90	110			
L87669-05AS	AS	05/06/11 13:37	WI110211-5	1	U	1.011	mg/L	101.1	90	110			
L87669-06DUP	DUP	05/06/11 13:39			U	U	mg/L				0	20	RA

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Phosphorus, total M365.1 - Auto Ascorbic Acid (digest)

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301081													
WG301081ICV	ICV	05/06/11 21:24	WI110425-6	.65228		.644	mg/L	98.7	90	110			
WG301081ICB	ICB	05/06/11 21:26				U	mg/L		-0.03	0.03			
WG301084													
WG301045LRB	LRB	05/06/11 22:11				U	mg/L		-0.03	0.03			
WG301045LFB	LFB	05/06/11 22:12	WI110425-7	.5		.506	mg/L	101.2	90	110			
L87695-01DUP	DUP	05/06/11 22:14			.03	.026	mg/L				14.3	20	RA
L87695-02LFM	LFM	05/06/11 22:17	WI110425-7	.5	.04	.541	mg/L	100.2	90	110			
L87703-03LFM	LFM	05/06/11 22:30	WI110425-7	.5	U	.503	mg/L	100.6	90	110			
L87703-04DUP	DUP	05/06/11 22:33			U	U	mg/L				0	20	RA

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG300907													
WG300907PBW	PBW	05/04/11 17:08				U	mg/L		-20	20			
WG300907LCSW	LCSW	05/04/11 17:08	PCN36806	260		266	mg/L	102.3	80	120			
L87703-04DUP	DUP	05/04/11 17:17			270	268	mg/L				0.7	20	

Selenium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301219													
WG301219ICV	ICV	05/10/11 20:44	MS110414-1	.05		.05383	mg/L	107.7	90	110			
WG301219ICB	ICB	05/10/11 20:48				.00015	mg/L		-0.00022	0.00022			
WG301219LFB	LFB	05/10/11 20:55	MS110414-3	.05005		.04867	mg/L	97.2	85	115			
L87613-01AS	AS	05/10/11 21:51	MS110414-3	.05005	U	.05768	mg/L	115.2	70	130			
L87613-01ASD	ASD	05/10/11 21:54	MS110414-3	.05005	U	.05811	mg/L	116.1	70	130	0.74	20	
WG301313													
WG301313ICV	ICV	05/11/11 18:18	MS110414-1	.05		.05096	mg/L	101.9	90	110			
WG301313ICB	ICB	05/11/11 18:22				.00021	mg/L		-0.00022	0.00022			
WG301313LFB	LFB	05/11/11 18:28	MS110414-3	.05005		.04622	mg/L	92.3	85	115			
L87703-01AS	AS	05/11/11 19:22	MS110414-3	.05005	.0004	.057	mg/L	113.1	70	130			
L87703-01ASD	ASD	05/11/11 19:26	MS110414-3	.05005	.0004	.05887	mg/L	116.8	70	130	3.23	20	

Silver, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301219													
WG301219ICV	ICV	05/10/11 20:44	MS110414-1	.01996		.02001	mg/L	100.3	90	110			
WG301219ICB	ICB	05/10/11 20:48				U	mg/L		-0.00011	0.00011			
WG301219LFB	LFB	05/10/11 20:55	MS110414-3	.01002		.008521	mg/L	85	85	115			
L87613-01AS	AS	05/10/11 21:51	MS110414-3	.01002	U	.008246	mg/L	82.3	70	130			
L87613-01ASD	ASD	05/10/11 21:54	MS110414-3	.01002	U	.008179	mg/L	81.6	70	130	0.82	20	

Nye County Natural Res & Fed Facilities
 Project ID: 11-071-LK-(L)

ACZ Project ID: **L87703**

Sodium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301123													
WG301123ICV	ICV	05/09/11 18:27	II110104-1	100		100.44	mg/L	100.4	95	105			
WG301123ICB	ICB	05/09/11 18:31				U	mg/L		-0.9	0.9			
WG301123LFB	LFB	05/09/11 18:43	II110421-4	100.0117		106.3	mg/L	106.3	85	115			
L87699-10AS	AS	05/09/11 19:35	II110421-4	100.0117	.3	106.47	mg/L	106.2	85	115			
L87699-10ASD	ASD	05/09/11 19:38	II110421-4	100.0117	.3	107.44	mg/L	107.1	85	115	0.91	20	

Strontium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301123													
WG301123ICV	ICV	05/09/11 18:27	II110104-1	2		2.003	mg/L	100.2	95	105			
WG301123ICB	ICB	05/09/11 18:31				U	mg/L		-0.03	0.03			
WG301123LFB	LFB	05/09/11 18:43	II110421-4	.5		.558	mg/L	111.6	85	115			
L87699-10AS	AS	05/09/11 19:35	II110421-4	.5	U	.557	mg/L	111.4	85	115			
L87699-10ASD	ASD	05/09/11 19:38	II110421-4	.5	U	.559	mg/L	111.8	85	115	0.36	20	

Thallium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301219													
WG301219ICV	ICV	05/10/11 20:44	MS110414-1	.05		.05471	mg/L	109.4	90	110			
WG301219ICB	ICB	05/10/11 20:48				U	mg/L		-0.00022	0.00022			
WG301219LFB	LFB	05/10/11 20:55	MS110414-3	.0501		.05453	mg/L	108.8	85	115			
L87613-01AS	AS	05/10/11 21:51	MS110414-3	.0501	U	.0554	mg/L	110.6	70	130			
L87613-01ASD	ASD	05/10/11 21:54	MS110414-3	.0501	U	.05529	mg/L	110.4	70	130	0.2	20	
WG301313													
WG301313ICV	ICV	05/11/11 18:18	MS110414-1	.05		.0535	mg/L	107	90	110			
WG301313ICB	ICB	05/11/11 18:22				U	mg/L		-0.00022	0.00022			
WG301313LFB	LFB	05/11/11 18:28	MS110414-3	.0501		.05198	mg/L	103.8	85	115			
L87703-01AS	AS	05/11/11 19:22	MS110414-3	.0501	U	.0555	mg/L	110.8	70	130			
L87703-01ASD	ASD	05/11/11 19:26	MS110414-3	.0501	U	.05564	mg/L	111.1	70	130	0.25	20	

Titanium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301123													
WG301123ICV	ICV	05/09/11 18:27	II110104-1	2		2.0134	mg/L	100.7	95	105			
WG301123ICB	ICB	05/09/11 18:31				U	mg/L		-0.015	0.015			
WG301123LFB	LFB	05/09/11 18:43	II110421-4	1		1.0177	mg/L	101.8	85	115			
L87699-10AS	AS	05/09/11 19:35	II110421-4	1	U	1.0264	mg/L	102.6	85	115			
L87699-10ASD	ASD	05/09/11 19:38	II110421-4	1	U	1.0309	mg/L	103.1	85	115	0.44	20	

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L87703**

Project ID: 11-071-LK-(L)

Uranium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301219													
WG301219ICV	ICV	05/10/11 20:44	MS110414-1	.05		.05182	mg/L	103.6	90	110			
WG301219ICB	ICB	05/10/11 20:48				U	mg/L		-0.00022	0.00022			
WG301219LFB	LFB	05/10/11 20:55	MS110414-3	.05		.05372	mg/L	107.4	85	115			
L87613-01AS	AS	05/10/11 21:51	MS110414-3	.05	U	.05449	mg/L	109	70	130			
L87613-01ASD	ASD	05/10/11 21:54	MS110414-3	.05	U	.05503	mg/L	110.1	70	130	0.99	20	
WG301313													
WG301313ICV	ICV	05/11/11 18:18	MS110414-1	.05		.05111	mg/L	102.2	90	110			
WG301313ICB	ICB	05/11/11 18:22				U	mg/L		-0.00022	0.00022			
WG301313LFB	LFB	05/11/11 18:28	MS110414-3	.05		.05088	mg/L	101.8	85	115			
L87703-01AS	AS	05/11/11 19:22	MS110414-3	.05	.0014	.05666	mg/L	110.5	70	130			
L87703-01ASD	ASD	05/11/11 19:26	MS110414-3	.05	.0014	.05663	mg/L	110.5	70	130	0.05	20	

Vanadium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301189													
WG301189ICV	ICV	05/10/11 10:13	II110104-1	2		2.1076	mg/L	105.4	95	105			
WG301189ICB	ICB	05/10/11 10:17				U	mg/L		-0.015	0.015			
WG301189LFB	LFB	05/10/11 11:12	II110421-4	.5		.5569	mg/L	111.4	85	115			
L87689-01AS	AS	05/10/11 11:21	II110421-4	.5	U	.5676	mg/L	113.5	85	115			
L87689-01ASD	ASD	05/10/11 11:24	II110421-4	.5	U	.5605	mg/L	112.1	85	115	1.26	20	

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301123													
WG301123ICV	ICV	05/09/11 18:27	II110104-1	2		1.971	mg/L	98.6	95	105			
WG301123ICB	ICB	05/09/11 18:31				U	mg/L		-0.03	0.03			
WG301123LFB	LFB	05/09/11 18:43	II110421-4	.5		.561	mg/L	112.2	85	115			
L87699-10AS	AS	05/09/11 19:35	II110421-4	.5	U	.619	mg/L	123.8	85	115			M1
L87699-10ASD	ASD	05/09/11 19:38	II110421-4	.5	U	.621	mg/L	124.2	85	115	0.32	20	M1

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L87703**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L87703-01	WG301123	Cadmium, dissolved	M200.7 ICP	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Iron, dissolved	M200.7 ICP	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Zinc, dissolved	M200.7 ICP	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG301670	Bromide	M300.0 - Ion Chromatography	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG301411	Chloride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
				RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG301051	Nitrogen, ammonia	M350.1 - Automated Phenate	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG301084	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L87703-02	WG301123	Cadmium, dissolved	M200.7 ICP	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Iron, dissolved	M200.7 ICP	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Zinc, dissolved	M200.7 ICP	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG301411	Bromide	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
				RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
				RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG301051	Nitrogen, ammonia	M350.1 - Automated Phenate	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
				RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
				RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG301084	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L87703**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L87703-03	WG301123	Cadmium, dissolved	M200.7 ICP	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Iron, dissolved	M200.7 ICP	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG301219	Selenium, dissolved	M200.8 ICP-MS	BE	Target analyte in continuing calibration blank (CCB) at or above the acceptance criteria. Target analyte was not detected in the sample [$< \text{MDL}$].
	WG301123	Zinc, dissolved	M200.7 ICP	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG301411	Bromide	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation ($< 10\text{x MDL}$).
		Chloride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation ($< 10\text{x MDL}$).
		Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation ($< 10\text{x MDL}$).
	WG301051	Nitrogen, ammonia	M350.1 - Automated Phenate	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation ($< 10\text{x MDL}$).
	WG301084	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation ($< 10\text{x MDL}$).
L87703-04	WG301123	Cadmium, dissolved	M200.7 ICP	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Iron, dissolved	M200.7 ICP	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Zinc, dissolved	M200.7 ICP	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG301411	Bromide	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation ($< 10\text{x MDL}$).
		Chloride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation ($< 10\text{x MDL}$).
		Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation ($< 10\text{x MDL}$).
	WG301051	Nitrogen, ammonia	M350.1 - Automated Phenate	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation ($< 10\text{x MDL}$).
	WG301084	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation ($< 10\text{x MDL}$).

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L87703**

No certification qualifiers associated with this analysis

Nye County Natural Res & Fed Facilities
11-071-LK-(L)

ACZ Project ID: L87703
Date Received: 05/04/2011 09:48
Received By: gac
Date Printed: 5/5/2011

Receipt Verification

	YES	NO	NA
1) Does this project require special handling procedures such as CLP protocol?			X
2) Are the custody seals on the cooler intact?			X
3) Are the custody seals on the sample containers intact?			X
4) Is there a Chain of Custody or other directive shipping papers present?	X		
5) Is the Chain of Custody complete?	X		
6) Is the Chain of Custody in agreement with the samples received?	X		
7) Is there enough sample for all requested analyses?	X		
8) Are all samples within holding times for requested analyses?	X		
9) Were all sample containers received intact?	X		
10) Are the temperature blanks present?			X
11) Are the trip blanks (VOA and/or Cyanide) present?			X
12) Are samples requiring no headspace, headspace free?			X
13) Do the samples that require a Foreign Soils Permit have one?			X

Exceptions: If you answered no to any of the above questions, please describe

N/A

Contact (For any discrepancies, the client must be contacted)

N/A

Shipping Containers

Cooler Id		Temp (°C)	Rad (µR/hr)
2214		8.9	18

Client must contact ACZ Project Manager if analysis should not proceed for samples received outside of thermal preservation acceptance criteria.

Notes

Nye County Natural Res & Fed Facilities
11-071-LK-(L)

ACZ Project ID: L87703
Date Received: 05/04/2011 09:48
Received By: gac
Date Printed: 5/5/2011

Sample Container Preservation

SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y < 2	YG < 2	B < 2	O < 2	T > 12	N/A	RAD	ID
L87703-01	NC-GWE-PV-3		Y		Y							<input type="checkbox"/>
L87703-02	NC-GWE-3D		Y		Y							<input type="checkbox"/>
L87703-03	NC-GWE-3B		Y		Y							<input type="checkbox"/>
L87703-04	NC-GWE-PV-2		Y		Y							<input type="checkbox"/>

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
B	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
O	Raw/Sulfuric	ORANGE	pH must be < 2
P	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Y	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 µR/hr

* pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By: gac

Attachment A
Chain of Custody Form

687703

L87703 Chain of Custody

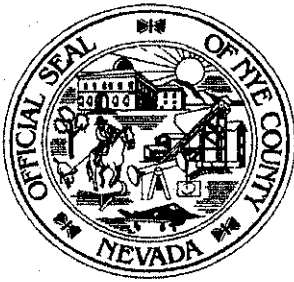
Nye County Nuclear Waste Repository Project Office
Water Sample Chain of Custody Form

Form TP 11.1-1 Rev 0

11-20-08

Sample Number	Well Name or Location	Date Collected	Date Shipped	Analysis	Number of Containers
GWS0268	NC-GWE-PV-3	4/27/2011	5/3/2011	Alkalinity	1 - 60 ml
	DO NOT DILUTE SAMPLES, IF DILUTION IS NECESSARY CONTACT [Levi Kryder]			Raw, Wet Chemistry	1 - 500 ml
				Filtered, Wet Chemistry	1 - 250 ml
				Filtered, HNO3, Metals	1 - 250 ml
				H2SO4, N-NH3, NO3-NO2, Total P	1 - 250 ml
GWS0269	NC-GWE-3D	4/27/2011	5/3/2011	Alkalinity	1 - 60 ml
				Raw, Wet Chemistry	1 - 500 ml
				Filtered, Wet Chemistry	1 - 250 ml
				Filtered, HNO3, Metals	1 - 250 ml
				H2SO4, N-NH3, NO3-NO2, Total P	1 - 250 ml
GWS0270	NC-GWE-3B	4/27/2011	5/3/2011	Alkalinity	1 - 60 ml
				Raw, Wet Chemistry	1 - 500 ml
				Filtered, Wet Chemistry	1 - 250 ml
				Filtered, HNO3, Metals	1 - 250 ml
				H2SO4, N-NH3, NO3-NO2, Total P	1 - 250 ml
GWS0271	NC-GWE-PV-2	4/29/2011	5/3/2011	Alkalinity	1 - 60 ml
				Raw, Wet Chemistry	1 - 500 ml
				Filtered, Wet Chemistry	1 - 250 ml
				Filtered, HNO3, Metals	1 - 250 ml
				H2SO4, N-NH3, NO3-NO2, Total P	1 - 250 ml

Lab Name:	ACZ	<p>Recipient: Please acknowledge receipt of this shipment and return completed within 10 working days to:</p> <p>Nye County Nuclear Waste Repository Project Office Quality Assurance Records Center (QARC) 2101 E. Calvada Blvd, Suite 100 Pahrump, NV 89048 775-727-7727</p> <p>Person Releasing Custody for Nye County:</p> <p><i>[Signature]</i></p> <p>Date/Time: 5/3/11 1200</p>
Recipient:	Tony Antalek	
Telephone	800-334-5493	
Address	2773 Downhill Drive Steamboat Springs, CO 80487	
Person Accepting Custody:		<p><i>[Signature]</i></p> <p>Date/Time: 5/4/11 9:48</p>
Date/Time:		
Checked By		Date:



Nye County

Nuclear Waste Repository Project Office

2101 E. Calvada Blvd. Ste. #100 · Pahrump, Nevada 89060
(775) 727-7727 · Fax (775) 727-7919

11-071-LK-(L)

May 3, 2011

ACZ Laboratories
Tony Antalek
2773 Downhill Drive
Steamboat Springs, CO 80487

Water Sample Analyses for the Groundwater Evaluation Program

Dear Mr. Antalek:

Enclosed are the ground water samples collected at Nye County wells NC-GWE-PV-3, -3D, and -PV-2. These samples are to be analyzed under quotation "NC-GWE-WELLS-2010. This is the only shipment under this letter.

Please sign and date the attached Chain of Custody form and return to my attention at the address listed above. When the analyses have been completed, please send a copy of the final report to the same address.

If you have any questions regarding the samples or analyses, please contact me by phone at (775) 727-7727, fax at (775) 727-7919, or email at lkryder@co.nye.nv.us.

Respectfully,
NYE COUNTY, NEVADA

Levi Kryder
Geoscience Manager

Enclosures: as stated

LK/cs

June 02, 2011

Report to:

Levi Kryder

Nye County Natural Res & Fed Facilities

2101 E. Calvada Blvd. Suite 100

Pahrump, NV 89048

Bill to:

Levi Kryder

Nye County Natural Res & Fed Facilities

2101 E. Calvada Blvd. Suite 100

Pahrump, NV 89048

Project ID: 11-077-LK-(L)

ACZ Project ID: L87861

Levi Kryder:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on May 12, 2011. This project has been assigned to ACZ's project number, L87861. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L87861. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after July 02, 2011. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than \$10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.



Tony Antalek has reviewed and approved this report.



Nye County Natural Res & Fed Facilities

Project ID: 11-077-LK-(L)

Sample ID: NC-GWE-PV-1

ACZ Sample ID: **L87861-01**

Date Sampled: 05/03/11 00:00

Date Received: 05/12/11

Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/13/11 9:41	tcd

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP		U		mg/L	0.03	0.2	05/16/11 20:07	aeb
Antimony, dissolved	M200.8 ICP-MS		U		mg/L	0.0004	0.002	05/23/11 11:21	scp
Arsenic, dissolved	M200.8 ICP-MS	0.0029			mg/L	0.0005	0.002	05/23/11 11:21	scp
Barium, dissolved	M200.7 ICP	0.013	B		mg/L	0.003	0.02	05/16/11 20:07	aeb
Beryllium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/16/11 20:07	aeb
Boron, dissolved	M200.7 ICP	0.08			mg/L	0.01	0.05	05/16/11 20:07	aeb
Cadmium, dissolved	M200.7 ICP		U		mg/L	0.005	0.02	05/16/11 20:07	aeb
Chromium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/16/11 20:07	aeb
Cobalt, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/16/11 20:07	aeb
Copper, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/16/11 20:07	aeb
Iron, dissolved	M200.7 ICP		U		mg/L	0.02	0.05	05/16/11 20:07	aeb
Lead, dissolved	M200.8 ICP-MS	0.0008			mg/L	0.0001	0.0005	05/23/11 11:21	scp
Lithium, dissolved	M200.7 ICP		U		mg/L	0.02	0.1	05/16/11 20:07	aeb
Manganese, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	05/16/11 20:07	aeb
Molybdenum, dissolved	M200.7 ICP	0.02	B		mg/L	0.01	0.05	05/16/11 20:07	aeb
Nickel, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/16/11 20:07	aeb
Selenium, dissolved	M200.8 ICP-MS	0.0010			mg/L	0.0001	0.0003	05/23/11 11:21	scp
Silver, dissolved	M200.8 ICP-MS		U		mg/L	0.00005	0.0003	05/23/11 11:21	scp
Sodium, dissolved	M200.7 ICP	13.0			mg/L	0.3	2	05/16/11 20:07	aeb
Strontium, dissolved	M200.7 ICP	0.24			mg/L	0.01	0.05	05/16/11 20:07	aeb
Thallium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/23/11 11:21	scp
Titanium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	05/16/11 20:07	aeb
Uranium, dissolved	M200.8 ICP-MS	0.0006			mg/L	0.0001	0.0005	05/23/11 11:21	scp
Vanadium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	05/17/11 11:06	aeb
Zinc, dissolved	M200.7 ICP	0.04	B		mg/L	0.01	0.05	05/16/11 20:07	aeb

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Bromide	M300.0 - Ion Chromatography	0.10		*	mg/L	0.01	0.05	05/20/11 15:45	ccp
Chloride	M300.0 - Ion Chromatography	14.9			mg/L	0.5	3	05/20/11 15:45	ccp
Fluoride	M300.0 - Ion Chromatography	0.1	B	*	mg/L	0.1	0.5	05/27/11 12:01	ccp
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	3.82			mg/L	0.02	0.1	05/19/11 22:22	pjb
Nitrogen, ammonia	M350.1 - Automated Phenate		U	*	mg/L	0.05	0.5	05/16/11 14:02	mpb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)		U	*	mg/L	0.01	0.05	05/16/11 11:03	lhb
Residue, Filterable (TDS) @180C	SM2540C	210	H	*	mg/L	10	20	05/12/11 16:10	las

Nye County Natural Res & Fed Facilities

Project ID: 11-077-LK-(L)

Sample ID: NC-GWE-2P

ACZ Sample ID: **L87861-02**

Date Sampled: 05/10/11 00:00

Date Received: 05/12/11

Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/13/11 9:42	tcd

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP		U		mg/L	0.03	0.2	05/16/11 20:10	aeb
Antimony, dissolved	M200.8 ICP-MS		U		mg/L	0.0004	0.002	05/23/11 11:24	scp
Arsenic, dissolved	M200.8 ICP-MS	0.0069			mg/L	0.0005	0.002	05/23/11 11:24	scp
Barium, dissolved	M200.7 ICP		U		mg/L	0.003	0.02	05/16/11 20:10	aeb
Beryllium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/16/11 20:10	aeb
Boron, dissolved	M200.7 ICP	0.15			mg/L	0.01	0.05	05/16/11 20:10	aeb
Cadmium, dissolved	M200.7 ICP		U		mg/L	0.005	0.02	05/16/11 20:10	aeb
Chromium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/16/11 20:10	aeb
Cobalt, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/16/11 20:10	aeb
Copper, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/16/11 20:10	aeb
Iron, dissolved	M200.7 ICP		U		mg/L	0.02	0.05	05/16/11 20:10	aeb
Lead, dissolved	M200.8 ICP-MS	0.0004	B		mg/L	0.0001	0.0005	05/23/11 11:24	scp
Lithium, dissolved	M200.7 ICP	0.05	B		mg/L	0.02	0.1	05/16/11 20:10	aeb
Manganese, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	05/16/11 20:10	aeb
Molybdenum, dissolved	M200.7 ICP	0.02	B		mg/L	0.01	0.05	05/16/11 20:10	aeb
Nickel, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/16/11 20:10	aeb
Selenium, dissolved	M200.8 ICP-MS	0.0004			mg/L	0.0001	0.0003	05/23/11 11:24	scp
Silver, dissolved	M200.8 ICP-MS		U		mg/L	0.00005	0.0003	05/23/11 11:24	scp
Sodium, dissolved	M200.7 ICP	47.5			mg/L	0.3	2	05/16/11 20:10	aeb
Strontium, dissolved	M200.7 ICP	0.04	B		mg/L	0.01	0.05	05/16/11 20:10	aeb
Thallium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/23/11 11:24	scp
Titanium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	05/16/11 20:10	aeb
Uranium, dissolved	M200.8 ICP-MS	0.0015			mg/L	0.0001	0.0005	05/23/11 11:24	scp
Vanadium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	05/17/11 11:15	aeb
Zinc, dissolved	M200.7 ICP	0.03	B		mg/L	0.01	0.05	05/16/11 20:10	aeb

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Bromide	M300.0 - Ion Chromatography	0.04	B	*	mg/L	0.01	0.05	05/20/11 16:06	ccp
Chloride	M300.0 - Ion Chromatography	6.3			mg/L	0.5	3	05/20/11 16:06	ccp
Fluoride	M300.0 - Ion Chromatography	1.4		*	mg/L	0.1	0.5	05/27/11 12:43	ccp
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1.18			mg/L	0.02	0.1	05/19/11 22:23	pjb
Nitrogen, ammonia	M350.1 - Automated Phenate		U	*	mg/L	0.05	0.5	05/16/11 14:03	mpb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)		U	*	mg/L	0.01	0.05	05/16/11 11:05	lhb
Residue, Filterable (TDS) @180C	SM2540C	240			mg/L	10	20	05/12/11 16:10	las

Nye County Natural Res & Fed Facilities

Project ID: 11-077-LK-(L)

Sample ID: NC-GWE-D2

ACZ Sample ID: **L87861-03**

Date Sampled: 05/10/11 00:00

Date Received: 05/12/11

Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/13/11 9:42	tcd

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP		U		mg/L	0.03	0.2	05/16/11 20:13	aeb
Antimony, dissolved	M200.8 ICP-MS		U		mg/L	0.0004	0.002	05/23/11 11:32	scp
Arsenic, dissolved	M200.8 ICP-MS	0.0068			mg/L	0.0005	0.002	05/23/11 11:32	scp
Barium, dissolved	M200.7 ICP		U		mg/L	0.003	0.02	05/16/11 20:13	aeb
Beryllium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/16/11 20:13	aeb
Boron, dissolved	M200.7 ICP	0.15			mg/L	0.01	0.05	05/16/11 20:13	aeb
Cadmium, dissolved	M200.7 ICP		U		mg/L	0.005	0.02	05/16/11 20:13	aeb
Chromium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/16/11 20:13	aeb
Cobalt, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/16/11 20:13	aeb
Copper, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/16/11 20:13	aeb
Iron, dissolved	M200.7 ICP		U		mg/L	0.02	0.05	05/16/11 20:13	aeb
Lead, dissolved	M200.8 ICP-MS	0.0003	B		mg/L	0.0001	0.0005	05/23/11 11:32	scp
Lithium, dissolved	M200.7 ICP	0.05	B		mg/L	0.02	0.1	05/16/11 20:13	aeb
Manganese, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	05/16/11 20:13	aeb
Molybdenum, dissolved	M200.7 ICP	0.02	B		mg/L	0.01	0.05	05/16/11 20:13	aeb
Nickel, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/16/11 20:13	aeb
Selenium, dissolved	M200.8 ICP-MS	0.0005			mg/L	0.0001	0.0003	05/23/11 11:32	scp
Silver, dissolved	M200.8 ICP-MS		U		mg/L	0.00005	0.0003	05/23/11 11:32	scp
Sodium, dissolved	M200.7 ICP	47.3			mg/L	0.3	2	05/16/11 20:13	aeb
Strontium, dissolved	M200.7 ICP	0.04	B		mg/L	0.01	0.05	05/16/11 20:13	aeb
Thallium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/23/11 11:32	scp
Titanium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	05/16/11 20:13	aeb
Uranium, dissolved	M200.8 ICP-MS	0.0015			mg/L	0.0001	0.0005	05/23/11 11:32	scp
Vanadium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	05/17/11 11:19	aeb
Zinc, dissolved	M200.7 ICP	0.03	B		mg/L	0.01	0.05	05/16/11 20:13	aeb

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Bromide	M300.0 - Ion Chromatography	0.04	B	*	mg/L	0.01	0.05	05/20/11 16:27	ccp
Chloride	M300.0 - Ion Chromatography	6.3			mg/L	0.5	3	05/20/11 16:27	ccp
Fluoride	M300.0 - Ion Chromatography	1.4		*	mg/L	0.1	0.5	05/27/11 13:25	ccp
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1.21			mg/L	0.02	0.1	05/19/11 22:24	pjb
Nitrogen, ammonia	M350.1 - Automated Phenate		U	*	mg/L	0.05	0.5	05/16/11 14:04	mpb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)		U	*	mg/L	0.01	0.05	05/16/11 11:06	lhb
Residue, Filterable (TDS) @180C	SM2540C	230			mg/L	10	20	05/12/11 16:11	las

Nye County Natural Res & Fed Facilities

Project ID: 11-077-LK-(L)

Sample ID: NC-GWE-B2

ACZ Sample ID: **L87861-04**

Date Sampled: 05/10/11 00:00

Date Received: 05/12/11

Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/13/11 9:43	tcd

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	0.13	B		mg/L	0.03	0.2	05/16/11 13:48	jjc
Antimony, dissolved	M200.8 ICP-MS		U		mg/L	0.0004	0.002	05/23/11 11:35	scp
Arsenic, dissolved	M200.8 ICP-MS		U		mg/L	0.0005	0.002	05/23/11 11:35	scp
Barium, dissolved	M200.7 ICP		U		mg/L	0.003	0.02	05/16/11 13:48	jjc
Beryllium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/16/11 13:48	jjc
Boron, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/16/11 16:59	jjc
Cadmium, dissolved	M200.7 ICP		U		mg/L	0.005	0.02	05/16/11 13:48	jjc
Chromium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/16/11 13:48	jjc
Cobalt, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/16/11 13:48	jjc
Copper, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/16/11 13:48	jjc
Iron, dissolved	M200.7 ICP	0.12			mg/L	0.02	0.05	05/16/11 13:48	jjc
Lead, dissolved	M200.8 ICP-MS	0.0002	B		mg/L	0.0001	0.0005	05/23/11 11:35	scp
Lithium, dissolved	M200.7 ICP		U		mg/L	0.02	0.1	05/16/11 13:48	jjc
Manganese, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	05/16/11 13:48	jjc
Molybdenum, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/16/11 16:59	jjc
Nickel, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/16/11 13:48	jjc
Selenium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0003	05/23/11 11:35	scp
Silver, dissolved	M200.8 ICP-MS		U		mg/L	0.00005	0.0003	05/23/11 11:35	scp
Sodium, dissolved	M200.7 ICP	1.9	B		mg/L	0.3	2	05/16/11 13:48	jjc
Strontium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/16/11 13:48	jjc
Thallium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/23/11 11:35	scp
Titanium, dissolved	M200.7 ICP	0.005	B		mg/L	0.005	0.03	05/16/11 13:48	jjc
Uranium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/23/11 11:35	scp
Vanadium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	05/16/11 16:59	jjc
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/16/11 13:48	jjc

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Bromide	M300.0 - Ion Chromatography		U	*	mg/L	0.01	0.05	05/20/11 17:31	ccp
Chloride	M300.0 - Ion Chromatography		U		mg/L	0.5	3	05/20/11 17:31	ccp
Fluoride	M300.0 - Ion Chromatography		U	*	mg/L	0.1	0.5	05/27/11 13:47	ccp
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved		U		mg/L	0.02	0.1	05/19/11 22:25	pjb
Nitrogen, ammonia	M350.1 - Automated Phenate		U	*	mg/L	0.05	0.5	05/16/11 14:05	mpb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)		U	*	mg/L	0.01	0.05	05/16/11 11:08	lhb
Residue, Filterable (TDS) @180C	SM2540C	20			mg/L	10	20	05/12/11 16:11	las

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit, typically 5 times the MDL.
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	LCSWD	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	LFB	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	LFM	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	LFMD	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	LRB	Laboratory Reagent Blank
ICB	Initial Calibration Blank	MS	Matrix Spike
ICV	Initial Calibration Verification standard	MSD	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	PBS	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	PBW	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	PQV	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	SDL	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

- (1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
- (2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
- (3) EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
- (5) EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December 1996.
- (6) Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995 & 20th edition (1998).

Comments

- (1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
- (3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click:

<http://www.acz.com/public/extquallist.pdf>

Nye County Natural Res & Fed Facilities
 Project ID: 11-077-LK-(L)

ACZ Project ID: **L87861**

Aluminum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301521													
WG301521ICV	ICV	05/16/11 13:29	II110104-1	2		1.947	mg/L	97.4	95	105			
WG301521ICB	ICB	05/16/11 13:32				U	mg/L		-0.09	0.09			
WG301521LFB	LFB	05/16/11 13:45	II110516-2	1		.993	mg/L	99.3	85	115			
L87862-02AS	AS	05/16/11 13:57	II110516-2	1	.6	1.558	mg/L	95.8	85	115			
L87862-02ASD	ASD	05/16/11 14:00	II110516-2	1	.6	1.535	mg/L	93.5	85	115	1.49	20	

WG301518

WG301518ICV	ICV	05/16/11 18:30	II110104-1	2		1.985	mg/L	99.3	95	105			
WG301518ICB	ICB	05/16/11 18:33				U	mg/L		-0.09	0.09			
WG301518LFB	LFB	05/16/11 18:46	II110516-2	1		1.038	mg/L	103.8	85	115			
L87843-04AS	AS	05/16/11 19:36	II110516-2	1	U	1.037	mg/L	103.7	85	115			
L87843-04ASD	ASD	05/16/11 19:39	II110516-2	1	U	1.041	mg/L	104.1	85	115	0.38	20	

Antimony, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301925													
WG301925ICV	ICV	05/23/11 11:13	MS110414-1	.02		.02	mg/L	100	90	110			
WG301925ICB	ICB	05/23/11 11:15				U	mg/L		-0.00088	0.00088			
WG301925LFB	LFB	05/23/11 11:18	MS110523-2	.01		.01026	mg/L	102.6	85	115			
L87861-02AS	AS	05/23/11 11:27	MS110523-2	.01	U	.00962	mg/L	96.2	70	130			
L87861-02ASD	ASD	05/23/11 11:30	MS110523-2	.01	U	.00995	mg/L	99.5	70	130	3.37	20	

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301925													
WG301925ICV	ICV	05/23/11 11:13	MS110414-1	.05		.05321	mg/L	106.4	90	110			
WG301925ICB	ICB	05/23/11 11:15				U	mg/L		-0.0011	0.0011			
WG301925LFB	LFB	05/23/11 11:18	MS110523-2	.05005		.05263	mg/L	105.2	85	115			
L87861-02AS	AS	05/23/11 11:27	MS110523-2	.05005	.0069	.05985	mg/L	105.8	70	130			
L87861-02ASD	ASD	05/23/11 11:30	MS110523-2	.05005	.0069	.06002	mg/L	106.1	70	130	0.28	20	

Barium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301521													
WG301521ICV	ICV	05/16/11 13:29	II110104-1	2		2.0158	mg/L	100.8	95	105			
WG301521ICB	ICB	05/16/11 13:32				U	mg/L		-0.009	0.009			
WG301521LFB	LFB	05/16/11 13:45	II110516-2	.5		.513	mg/L	102.6	85	115			
L87862-02AS	AS	05/16/11 13:57	II110516-2	.5	.046	.5645	mg/L	103.7	85	115			
L87862-02ASD	ASD	05/16/11 14:00	II110516-2	.5	.046	.5672	mg/L	104.2	85	115	0.48	20	
WG301518													
WG301518ICV	ICV	05/16/11 18:30	II110104-1	2		1.9878	mg/L	99.4	95	105			
WG301518ICB	ICB	05/16/11 18:33				U	mg/L		-0.009	0.009			
WG301518LFB	LFB	05/16/11 18:46	II110516-2	.5		.5186	mg/L	103.7	85	115			
L87843-04AS	AS	05/16/11 19:36	II110516-2	.5	.063	.5888	mg/L	105.2	85	115			
L87843-04ASD	ASD	05/16/11 19:39	II110516-2	.5	.063	.5956	mg/L	106.5	85	115	1.15	20	

Nye County Natural Res & Fed Facilities
 Project ID: 11-077-LK-(L)

ACZ Project ID: **L87861**

Beryllium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301521													
WG301521ICV	ICV	05/16/11 13:29	II110104-1	2		2.023	mg/L	101.2	95	105			
WG301521ICB	ICB	05/16/11 13:32				U	mg/L		-0.03	0.03			
WG301521LFB	LFB	05/16/11 13:45	II110516-2	.5		.532	mg/L	106.4	85	115			
L87862-02AS	AS	05/16/11 13:57	II110516-2	.5	U	.542	mg/L	108.4	85	115			
L87862-02ASD	ASD	05/16/11 14:00	II110516-2	.5	U	.542	mg/L	108.4	85	115	0	20	
WG301518													
WG301518ICV	ICV	05/16/11 18:30	II110104-1	2		2.031	mg/L	101.6	95	105			
WG301518ICB	ICB	05/16/11 18:33				U	mg/L		-0.03	0.03			
WG301518LFB	LFB	05/16/11 18:46	II110516-2	.5		.541	mg/L	108.2	85	115			
L87843-04AS	AS	05/16/11 19:36	II110516-2	.5	U	.546	mg/L	109.2	85	115			
L87843-04ASD	ASD	05/16/11 19:39	II110516-2	.5	U	.551	mg/L	110.2	85	115	0.91	20	

Boron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301547													
WG301547ICV	ICV	05/16/11 16:40	II110104-1	2		2.066	mg/L	103.3	95	105			
WG301547ICB	ICB	05/16/11 16:43				U	mg/L		-0.03	0.03			
WG301547LFB	LFB	05/16/11 16:56	II110516-2	.5005		.518	mg/L	103.5	85	115			
L87862-02AS	AS	05/16/11 17:08	II110516-2	.5005	.04	.58	mg/L	107.9	85	115			
L87862-02ASD	ASD	05/16/11 17:11	II110516-2	.5005	.04	.592	mg/L	110.3	85	115	2.05	20	
WG301518													
WG301518ICV	ICV	05/16/11 18:30	II110104-1	2		2.07	mg/L	103.5	95	105			
WG301518ICB	ICB	05/16/11 18:33				U	mg/L		-0.03	0.03			
WG301518LFB	LFB	05/16/11 18:46	II110516-2	.5005		.554	mg/L	110.7	85	115			
L87843-04AS	AS	05/16/11 19:36	II110516-2	.5005	.02	.574	mg/L	110.7	85	115			
L87843-04ASD	ASD	05/16/11 19:39	II110516-2	.5005	.02	.579	mg/L	111.7	85	115	0.87	20	

Bromide

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG300350													
WG300350ICV	ICV	04/22/11 12:11	WI110217-4	4.012		4.116	mg/L	102.6	90	110			
WG300350ICB	ICB	04/22/11 12:32				U	mg/L		-0.03	0.03			
WG301738													
WG301738LFB	LFB	05/20/11 13:39	WI110218-1	1.5		1.379	mg/L	91.9	90	110			
L87860-01DUP	DUP	05/20/11 14:21			.84	.837	mg/L				0.4	20	
L87860-05AS	AS	05/20/11 15:03	WI110218-1	1.5	.1	1.349	mg/L	83.3	90	110			M2

Nye County Natural Res & Fed Facilities
 Project ID: 11-077-LK-(L)

ACZ Project ID: **L87861**

Cadmium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301521													
WG301521ICV	ICV	05/16/11 13:29	II110104-1	2		2.0181	mg/L	100.9	95	105			
WG301521ICB	ICB	05/16/11 13:32				U	mg/L		-0.015	0.015			
WG301521LFB	LFB	05/16/11 13:45	II110516-2	.5		.5243	mg/L	104.9	85	115			
L87862-02AS	AS	05/16/11 13:57	II110516-2	.5	U	.5431	mg/L	108.6	85	115			
L87862-02ASD	ASD	05/16/11 14:00	II110516-2	.5	U	.5468	mg/L	109.4	85	115	0.68	20	

WG301518

WG301518ICV	ICV	05/16/11 18:30	II110104-1	2		2.0293	mg/L	101.5	95	105			
WG301518ICB	ICB	05/16/11 18:33				.007	mg/L		-0.015	0.015			
WG301518LFB	LFB	05/16/11 18:46	II110516-2	.5		.5432	mg/L	108.6	85	115			
L87843-04AS	AS	05/16/11 19:36	II110516-2	.5	U	.5418	mg/L	108.4	85	115			
L87843-04ASD	ASD	05/16/11 19:39	II110516-2	.5	U	.5443	mg/L	108.9	85	115	0.46	20	

Chloride

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG300350													
WG300350ICV	ICV	04/22/11 12:11	WI110217-4	20.06		20.24	mg/L	100.9	90	110			
WG300350ICB	ICB	04/22/11 12:32				U	mg/L		-1.5	1.5			
WG301738													
WG301738LFB	LFB	05/20/11 13:39	WI110218-1	30		29.58	mg/L	98.6	90	110			
L87860-01DUP	DUP	05/20/11 14:21			86.9	87.02	mg/L				0.1	20	
L87860-05AS	AS	05/20/11 15:03	WI110218-1	30	14.2	43.61	mg/L	98	90	110			

Chromium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301521													
WG301521ICV	ICV	05/16/11 13:29	II110104-1	2		2.073	mg/L	103.7	95	105			
WG301521ICB	ICB	05/16/11 13:32				U	mg/L		-0.03	0.03			
WG301521LFB	LFB	05/16/11 13:45	II110516-2	.5		.528	mg/L	105.6	85	115			
L87862-02AS	AS	05/16/11 13:57	II110516-2	.5	U	.561	mg/L	112.2	85	115			
L87862-02ASD	ASD	05/16/11 14:00	II110516-2	.5	U	.566	mg/L	113.2	85	115	0.89	20	
WG301518													
WG301518ICV	ICV	05/16/11 18:30	II110104-1	2		2.01	mg/L	100.5	95	105			
WG301518ICB	ICB	05/16/11 18:33				U	mg/L		-0.03	0.03			
WG301518LFB	LFB	05/16/11 18:46	II110516-2	.5		.544	mg/L	108.8	85	115			
L87843-04AS	AS	05/16/11 19:36	II110516-2	.5	U	.544	mg/L	108.8	85	115			
L87843-04ASD	ASD	05/16/11 19:39	II110516-2	.5	U	.554	mg/L	110.8	85	115	1.82	20	

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L87861**

Project ID: 11-077-LK-(L)

Cobalt, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301521													
WG301521ICV	ICV	05/16/11 13:29	II110104-1	2		2.002	mg/L	100.1	95	105			
WG301521ICB	ICB	05/16/11 13:32				U	mg/L		-0.03	0.03			
WG301521LFB	LFB	05/16/11 13:45	II110516-2	.5		.52	mg/L	104	85	115			
L87862-02AS	AS	05/16/11 13:57	II110516-2	.5	U	.529	mg/L	105.8	85	115			
L87862-02ASD	ASD	05/16/11 14:00	II110516-2	.5	U	.538	mg/L	107.6	85	115	1.69	20	
WG301518													
WG301518ICV	ICV	05/16/11 18:30	II110104-1	2		2.007	mg/L	100.4	95	105			
WG301518ICB	ICB	05/16/11 18:33				U	mg/L		-0.03	0.03			
WG301518LFB	LFB	05/16/11 18:46	II110516-2	.5		.536	mg/L	107.2	85	115			
L87843-04AS	AS	05/16/11 19:36	II110516-2	.5	.01	.538	mg/L	105.6	85	115			
L87843-04ASD	ASD	05/16/11 19:39	II110516-2	.5	.01	.54	mg/L	106	85	115	0.37	20	

Copper, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301521													
WG301521ICV	ICV	05/16/11 13:29	II110104-1	2		1.945	mg/L	97.3	95	105			
WG301521ICB	ICB	05/16/11 13:32				U	mg/L		-0.03	0.03			
WG301521LFB	LFB	05/16/11 13:45	II110516-2	.5		.515	mg/L	103	85	115			
L87862-02AS	AS	05/16/11 13:57	II110516-2	.5	.43	.906	mg/L	95.2	85	115			
L87862-02ASD	ASD	05/16/11 14:00	II110516-2	.5	.43	.903	mg/L	94.6	85	115	0.33	20	
WG301518													
WG301518ICV	ICV	05/16/11 18:30	II110104-1	2		1.966	mg/L	98.3	95	105			
WG301518ICB	ICB	05/16/11 18:33				U	mg/L		-0.03	0.03			
WG301518LFB	LFB	05/16/11 18:46	II110516-2	.5		.535	mg/L	107	85	115			
L87843-04AS	AS	05/16/11 19:36	II110516-2	.5	U	.536	mg/L	107.2	85	115			
L87843-04ASD	ASD	05/16/11 19:39	II110516-2	.5	U	.543	mg/L	108.6	85	115	1.3	20	

Fluoride

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG300350													
WG300350ICV	ICV	04/22/11 12:11	WI110217-4	4		4.16	mg/L	104	90	110			
WG300350ICB	ICB	04/22/11 12:32				U	mg/L		-0.3	0.3			
WG302218													
WG302218LFB	LFB	05/27/11 11:40	WI110218-1	1.5		1.38	mg/L	92	90	110			
L87861-01DUP	DUP	05/27/11 12:22			.1	.11	mg/L				9.5	20	RA
L87861-02AS	AS	05/27/11 13:04	WI110218-1	1.5	1.4	2.84	mg/L	96	90	110			

Nye County Natural Res & Fed Facilities
 Project ID: 11-077-LK-(L)

ACZ Project ID: **L87861**

Iron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301521													
WG301521ICV	ICV	05/16/11 13:29	II110104-1	2		1.982	mg/L	99.1	95	105			
WG301521ICB	ICB	05/16/11 13:32				U	mg/L		-0.06	0.06			
WG301521LFB	LFB	05/16/11 13:45	II110516-2	1		1.049	mg/L	104.9	85	115			
L87862-02AS	AS	05/16/11 13:57	II110516-2	1	1.62	2.552	mg/L	93.2	85	115			
L87862-02ASD	ASD	05/16/11 14:00	II110516-2	1	1.62	2.54	mg/L	92	85	115	0.47	20	
WG301518													
WG301518ICV	ICV	05/16/11 18:30	II110104-1	2		2.002	mg/L	100.1	95	105			
WG301518ICB	ICB	05/16/11 18:33				U	mg/L		-0.06	0.06			
WG301518LFB	LFB	05/16/11 18:46	II110516-2	1		1.086	mg/L	108.6	85	115			
L87843-04AS	AS	05/16/11 19:36	II110516-2	1	U	1.084	mg/L	108.4	85	115			
L87843-04ASD	ASD	05/16/11 19:39	II110516-2	1	U	1.09	mg/L	109	85	115	0.55	20	

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301925													
WG301925ICV	ICV	05/23/11 11:13	MS110414-1	.05		.05149	mg/L	103	90	110			
WG301925ICB	ICB	05/23/11 11:15				U	mg/L		-0.00022	0.00022			
WG301925LFB	LFB	05/23/11 11:18	MS110523-2	.05005		.05137	mg/L	102.6	85	115			
L87861-02AS	AS	05/23/11 11:27	MS110523-2	.05005	.0004	.0517	mg/L	102.5	70	130			
L87861-02ASD	ASD	05/23/11 11:30	MS110523-2	.05005	.0004	.05186	mg/L	102.8	70	130	0.31	20	

Lithium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301521													
WG301521ICV	ICV	05/16/11 13:29	II110104-1	2		1.955	mg/L	97.8	95	105			
WG301521ICB	ICB	05/16/11 13:32				U	mg/L		-0.06	0.06			
WG301521LFB	LFB	05/16/11 13:45	II110516-2	1		.968	mg/L	96.8	85	115			
L87862-02AS	AS	05/16/11 13:57	II110516-2	1	.05	1.017	mg/L	96.7	85	115			
L87862-02ASD	ASD	05/16/11 14:00	II110516-2	1	.05	1.021	mg/L	97.1	85	115	0.39	20	
WG301518													
WG301518ICV	ICV	05/16/11 18:30	II110104-1	2		1.974	mg/L	98.7	95	105			
WG301518ICB	ICB	05/16/11 18:33				U	mg/L		-0.06	0.06			
WG301518LFB	LFB	05/16/11 18:46	II110516-2	1		1	mg/L	100	85	115			
L87843-04AS	AS	05/16/11 19:36	II110516-2	1	U	1.005	mg/L	100.5	85	115			
L87843-04ASD	ASD	05/16/11 19:39	II110516-2	1	U	1.011	mg/L	101.1	85	115	0.6	20	

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L87861**

Project ID: 11-077-LK-(L)

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301521													
WG301521ICV	ICV	05/16/11 13:29	II110104-1	2		1.9891	mg/L	99.5	95	105			
WG301521ICB	ICB	05/16/11 13:32				U	mg/L		-0.015	0.015			
WG301521LFB	LFB	05/16/11 13:45	II110516-2	.5		.5427	mg/L	108.5	85	115			
L87862-02AS	AS	05/16/11 13:57	II110516-2	.5	.021	.5687	mg/L	109.5	85	115			
L87862-02ASD	ASD	05/16/11 14:00	II110516-2	.5	.021	.5696	mg/L	109.7	85	115	0.16	20	
WG301518													
WG301518ICV	ICV	05/16/11 18:30	II110104-1	2		1.9806	mg/L	99	95	105			
WG301518ICB	ICB	05/16/11 18:33				U	mg/L		-0.015	0.015			
WG301518LFB	LFB	05/16/11 18:46	II110516-2	.5		.5513	mg/L	110.3	85	115			
L87843-04AS	AS	05/16/11 19:36	II110516-2	.5	.019	.5643	mg/L	109.1	85	115			
L87843-04ASD	ASD	05/16/11 19:39	II110516-2	.5	.019	.5673	mg/L	109.7	85	115	0.53	20	

Molybdenum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301547													
WG301547ICV	ICV	05/16/11 16:40	II110104-1	2		2.021	mg/L	101.1	95	105			
WG301547ICB	ICB	05/16/11 16:43				U	mg/L		-0.03	0.03			
WG301547LFB	LFB	05/16/11 16:56	II110516-2	.5		.482	mg/L	96.4	85	115			
L87862-02AS	AS	05/16/11 17:08	II110516-2	.5	.06	.548	mg/L	97.6	85	115			
L87862-02ASD	ASD	05/16/11 17:11	II110516-2	.5	.06	.553	mg/L	98.6	85	115	0.91	20	
WG301518													
WG301518ICV	ICV	05/16/11 18:30	II110104-1	2		2.081	mg/L	104.1	95	105			
WG301518ICB	ICB	05/16/11 18:33				U	mg/L		-0.03	0.03			
WG301518LFB	LFB	05/16/11 18:46	II110516-2	.5		.531	mg/L	106.2	85	115			
L87843-04AS	AS	05/16/11 19:36	II110516-2	.5	.02	.532	mg/L	102.4	85	115			
L87843-04ASD	ASD	05/16/11 19:39	II110516-2	.5	.02	.524	mg/L	100.8	85	115	1.52	20	

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301521													
WG301521ICV	ICV	05/16/11 13:29	II110104-1	2.002		1.966	mg/L	98.2	95	105			
WG301521ICB	ICB	05/16/11 13:32				U	mg/L		-0.03	0.03			
WG301521LFB	LFB	05/16/11 13:45	II110516-2	.5		.501	mg/L	100.2	85	115			
L87862-02AS	AS	05/16/11 13:57	II110516-2	.5	U	.5	mg/L	100	85	115			
L87862-02ASD	ASD	05/16/11 14:00	II110516-2	.5	U	.502	mg/L	100.4	85	115	0.4	20	
WG301518													
WG301518ICV	ICV	05/16/11 18:30	II110104-1	2.002		2.027	mg/L	101.2	95	105			
WG301518ICB	ICB	05/16/11 18:33				U	mg/L		-0.03	0.03			
WG301518LFB	LFB	05/16/11 18:46	II110516-2	.5		.53	mg/L	106	85	115			
L87843-04AS	AS	05/16/11 19:36	II110516-2	.5	U	.537	mg/L	107.4	85	115			
L87843-04ASD	ASD	05/16/11 19:39	II110516-2	.5	U	.548	mg/L	109.6	85	115	2.03	20	

Nye County Natural Res & Fed Facilities
 Project ID: 11-077-LK-(L)

ACZ Project ID: **L87861**

Nitrate/Nitrite as N

M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301807													
WG301807ICV	ICV	05/19/11 19:35	WI110330-1	2.416		2.356	mg/L	97.5	90	110			
WG301807ICB	ICB	05/19/11 19:36				U	mg/L		-0.06	0.06			
WG301810													
WG301810LFB1	LFB	05/19/11 21:53	WI110322-5	2		1.946	mg/L	97.3	90	110			
L87843-03AS	AS	05/19/11 22:12	WI110322-5	2	.14	2.108	mg/L	98.4	90	110			
L87843-04DUP	DUP	05/19/11 22:15			.2	.21	mg/L				4.9	20	
WG301810LFB2	LFB	05/19/11 22:28	WI110322-5	2		1.89	mg/L	94.5	90	110			

Nitrogen, ammonia

M350.1 - Automated Phenate

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301502													
WG301502ICV	ICV	05/16/11 13:19	WI101121-1	1.004		1.011	mg/L	100.7	90	110			
WG301502ICB	ICB	05/16/11 13:20				U	mg/L		-0.15	0.15			
WG301502LFB1	LFB	05/16/11 13:21	WI110211-5	1		1.029	mg/L	102.9	90	110			
WG301502LFB2	LFB	05/16/11 13:54	WI110211-5	1		.998	mg/L	99.8	90	110			
L87844-03AS	AS	05/16/11 13:56	WI110211-5	1	U	1.019	mg/L	101.9	90	110			
L87847-01DUP	DUP	05/16/11 13:58			U	U	mg/L				0	20	RA

Phosphorus, total

M365.1 - Auto Ascorbic Acid (digest)

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301492													
WG301492ICV	ICV	05/16/11 10:57	WI110425-6	.65228		.624	mg/L	95.7	90	110			
WG301492ICB	ICB	05/16/11 10:58				U	mg/L		-0.03	0.03			
WG301418LRB	LRB	05/16/11 10:59				U	mg/L		-0.03	0.03			
WG301418LFB	LFB	05/16/11 11:00	WI110510-2	.5		.471	mg/L	94.2	90	110			
L87847-01LFM	LFM	05/16/11 11:02	WI110510-2	.5	U	.511	mg/L	102.2	90	110			
L87861-01DUP	DUP	05/16/11 11:04			U	U	mg/L				0	20	RA

Residue, Filterable (TDS) @180C

SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301384													
WG301384PBW	PBW	05/12/11 16:03				U	mg/L		-20	20			
WG301384LCSW	LCSW	05/12/11 16:03	PCN36810	260		276	mg/L	106.2	80	120			
L87870-01DUP	DUP	05/12/11 16:12			360	362	mg/L				0.6	20	

Selenium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301925													
WG301925ICV	ICV	05/23/11 11:13	MS110414-1	.05		.05412	mg/L	108.2	90	110			
WG301925ICB	ICB	05/23/11 11:15				U	mg/L		-0.00022	0.00022			
WG301925LFB	LFB	05/23/11 11:18	MS110523-2	.05005		.05179	mg/L	103.5	85	115			
L87861-02AS	AS	05/23/11 11:27	MS110523-2	.05005	.0004	.05485	mg/L	108.8	70	130			
L87861-02ASD	ASD	05/23/11 11:30	MS110523-2	.05005	.0004	.05591	mg/L	110.9	70	130	1.91	20	

Nye County Natural Res & Fed Facilities
 Project ID: 11-077-LK-(L)

ACZ Project ID: **L87861**

Silver, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301925													
WG301925ICV	ICV	05/23/11 11:13	MS110414-1	.01996		.02004	mg/L	100.4	90	110			
WG301925ICB	ICB	05/23/11 11:15				U	mg/L		-0.00011	0.00011			
WG301925LFB	LFB	05/23/11 11:18	MS110523-2	.01002		.0103	mg/L	102.8	85	115			
L87861-02AS	AS	05/23/11 11:27	MS110523-2	.01002	U	.01008	mg/L	100.6	70	130			
L87861-02ASD	ASD	05/23/11 11:30	MS110523-2	.01002	U	.01026	mg/L	102.4	70	130	1.77	20	

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301521													
WG301521ICV	ICV	05/16/11 13:29	II110104-1	100		100.36	mg/L	100.4	95	105			
WG301521ICB	ICB	05/16/11 13:32				U	mg/L		-0.9	0.9			
WG301521LFB	LFB	05/16/11 13:45	II110516-2	100.018		98.88	mg/L	98.9	85	115			
L87862-02AS	AS	05/16/11 13:57	II110516-2	100.018	47.7	144.19	mg/L	96.5	85	115			
L87862-02ASD	ASD	05/16/11 14:00	II110516-2	100.018	47.7	144.38	mg/L	96.7	85	115	0.13	20	
WG301518													
WG301518ICV	ICV	05/16/11 18:30	II110104-1	100		100.53	mg/L	100.5	95	105			
WG301518ICB	ICB	05/16/11 18:33				U	mg/L		-0.9	0.9			
WG301518LFB	LFB	05/16/11 18:46	II110516-2	100.018		100.5	mg/L	100.5	85	115			
L87843-04AS	AS	05/16/11 19:36	II110516-2	100.018	3	104.69	mg/L	101.7	85	115			
L87843-04ASD	ASD	05/16/11 19:39	II110516-2	100.018	3	105.76	mg/L	102.7	85	115	1.02	20	

Strontium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301521													
WG301521ICV	ICV	05/16/11 13:29	II110104-1	2		2.003	mg/L	100.2	95	105			
WG301521ICB	ICB	05/16/11 13:32				U	mg/L		-0.03	0.03			
WG301521LFB	LFB	05/16/11 13:45	II110516-2	.5		.518	mg/L	103.6	85	115			
L87862-02AS	AS	05/16/11 13:57	II110516-2	.5	.89	1.372	mg/L	96.4	85	115			
L87862-02ASD	ASD	05/16/11 14:00	II110516-2	.5	.89	1.374	mg/L	96.8	85	115	0.15	20	
WG301518													
WG301518ICV	ICV	05/16/11 18:30	II110104-1	2		1.976	mg/L	98.8	95	105			
WG301518ICB	ICB	05/16/11 18:33				U	mg/L		-0.03	0.03			
WG301518LFB	LFB	05/16/11 18:46	II110516-2	.5		.521	mg/L	104.2	85	115			
L87843-04AS	AS	05/16/11 19:36	II110516-2	.5	.1	.63	mg/L	106	85	115			
L87843-04ASD	ASD	05/16/11 19:39	II110516-2	.5	.1	.634	mg/L	106.8	85	115	0.63	20	

Thallium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301925													
WG301925ICV	ICV	05/23/11 11:13	MS110414-1	.05		.05409	mg/L	108.2	90	110			
WG301925ICB	ICB	05/23/11 11:15				U	mg/L		-0.00022	0.00022			
WG301925LFB	LFB	05/23/11 11:18	MS110523-2	.0501		.05179	mg/L	103.4	85	115			
L87861-02AS	AS	05/23/11 11:27	MS110523-2	.0501	U	.05194	mg/L	103.7	70	130			
L87861-02ASD	ASD	05/23/11 11:30	MS110523-2	.0501	U	.05206	mg/L	103.9	70	130	0.23	20	

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L87861**

Project ID: 11-077-LK-(L)

Titanium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301521													
WG301521ICV	ICV	05/16/11 13:29	II110104-1	2		2.0163	mg/L	100.8	95	105			
WG301521ICB	ICB	05/16/11 13:32				U	mg/L		-0.015	0.015			
WG301521LFB	LFB	05/16/11 13:45	II110516-2	1		1.0124	mg/L	101.2	85	115			
L87862-02AS	AS	05/16/11 13:57	II110516-2	1	.011	1.0287	mg/L	101.8	85	115			
L87862-02ASD	ASD	05/16/11 14:00	II110516-2	1	.011	1.031	mg/L	102	85	115	0.22	20	

WG301518

WG301518ICV	ICV	05/16/11 18:30	II110104-1	2		2.0241	mg/L	101.2	95	105			
WG301518ICB	ICB	05/16/11 18:33				U	mg/L		-0.015	0.015			
WG301518LFB	LFB	05/16/11 18:46	II110516-2	1		1.0369	mg/L	103.7	85	115			
L87843-04AS	AS	05/16/11 19:36	II110516-2	1	U	1.0334	mg/L	103.3	85	115			
L87843-04ASD	ASD	05/16/11 19:39	II110516-2	1	U	1.0365	mg/L	103.7	85	115	0.3	20	

Uranium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301925													
WG301925ICV	ICV	05/23/11 11:13	MS110414-1	.05		.05099	mg/L	102	90	110			
WG301925ICB	ICB	05/23/11 11:15				U	mg/L		-0.00022	0.00022			
WG301925LFB	LFB	05/23/11 11:18	MS110523-2	.05		.05037	mg/L	100.7	85	115			
L87861-02AS	AS	05/23/11 11:27	MS110523-2	.05	.0015	.05295	mg/L	102.9	70	130			
L87861-02ASD	ASD	05/23/11 11:30	MS110523-2	.05	.0015	.05306	mg/L	103.1	70	130	0.21	20	

Vanadium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301547													
WG301547ICV	ICV	05/16/11 16:40	II110104-1	2		2.1035	mg/L	105.2	95	105			
WG301547ICB	ICB	05/16/11 16:43				U	mg/L		-0.015	0.015			
WG301547LFB	LFB	05/16/11 16:56	II110516-2	.5		.5128	mg/L	102.6	85	115			
L87862-02AS	AS	05/16/11 17:08	II110516-2	.5	U	.5193	mg/L	103.9	85	115			
L87862-02ASD	ASD	05/16/11 17:11	II110516-2	.5	U	.526	mg/L	105.2	85	115	1.28	20	

WG301563

WG301563ICV	ICV	05/17/11 10:44	II110104-1	2		2.1042	mg/L	105.2	95	105			
WG301563ICB	ICB	05/17/11 10:48				U	mg/L		-0.015	0.015			
WG301563LFB	LFB	05/17/11 11:00	II110516-2	.5		.5212	mg/L	104.2	85	115			
L87861-01AS	AS	05/17/11 11:09	II110516-2	.5	U	.5354	mg/L	107.1	85	115			
L87861-01ASD	ASD	05/17/11 11:12	II110516-2	.5	U	.5296	mg/L	105.9	85	115	1.09	20	

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L87861**

Project ID: 11-077-LK-(L)

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301521													
WG301521ICV	ICV	05/16/11 13:29	II110104-1	2		2.032	mg/L	101.6	95	105			
WG301521ICB	ICB	05/16/11 13:32				U	mg/L		-0.03	0.03			
WG301521LFB	LFB	05/16/11 13:45	II110516-2	.5		.495	mg/L	99	85	115			
L87862-02AS	AS	05/16/11 13:57	II110516-2	.5	.15	.658	mg/L	101.6	85	115			
L87862-02ASD	ASD	05/16/11 14:00	II110516-2	.5	.15	.663	mg/L	102.6	85	115	0.76	20	
WG301518													
WG301518ICV	ICV	05/16/11 18:30	II110104-1	2		2.036	mg/L	101.8	95	105			
WG301518ICB	ICB	05/16/11 18:33				.011	mg/L		-0.03	0.03			
WG301518LFB	LFB	05/16/11 18:46	II110516-2	.5		.523	mg/L	104.6	85	115			
L87843-04AS	AS	05/16/11 19:36	II110516-2	.5	U	.534	mg/L	106.8	85	115			
L87843-04ASD	ASD	05/16/11 19:39	II110516-2	.5	U	.525	mg/L	105	85	115	1.7	20	

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L87861**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L87861-01	WG301738	Bromide	M300.0 - Ion Chromatography	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG302218	Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG301502	Nitrogen, ammonia	M350.1 - Automated Phenate	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG301492	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG301384	Residue, Filterable (TDS) @180C	SM2540C	H3	Sample was received and analyzed past holding time.
L87861-02	WG301738	Bromide	M300.0 - Ion Chromatography	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG302218	Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG301502	Nitrogen, ammonia	M350.1 - Automated Phenate	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG301492	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L87861-03	WG301738	Bromide	M300.0 - Ion Chromatography	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG302218	Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG301502	Nitrogen, ammonia	M350.1 - Automated Phenate	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG301492	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L87861-04	WG301738	Bromide	M300.0 - Ion Chromatography	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG302218	Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG301502	Nitrogen, ammonia	M350.1 - Automated Phenate	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG301492	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L87861**

No certification qualifiers associated with this analysis

Nye County Natural Res & Fed Facilities
 11-077-LK-(L)

ACZ Project ID: L87861
 Date Received: 05/12/2011 10:03
 Received By: gac
 Date Printed: 5/12/2011

Receipt Verification

	YES	NO	NA
1) Does this project require special handling procedures such as CLP protocol?			X
2) Are the custody seals on the cooler intact?			X
3) Are the custody seals on the sample containers intact?			X
4) Is there a Chain of Custody or other directive shipping papers present?	X		
5) Is the Chain of Custody complete?	X		
6) Is the Chain of Custody in agreement with the samples received?	X		
7) Is there enough sample for all requested analyses?	X		
8) Are all samples within holding times for requested analyses?		X	
9) Were all sample containers received intact?	X		
10) Are the temperature blanks present?			
11) Are the trip blanks (VOA and/or Cyanide) present?			
12) Are samples requiring no headspace, headspace free?			
13) Do the samples that require a Foreign Soils Permit have one?			X

Exceptions: If you answered no to any of the above questions, please describe

Some parameters were received past hold time.

Contact (For any discrepancies, the client must be contacted)

The client was not contacted.

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/hr)
2988	0.9	16

Client must contact ACZ Project Manager if analysis should not proceed for samples received outside of thermal preservation acceptance criteria.

Notes

Nye County Natural Res & Fed Facilities
11-077-LK-(L)

ACZ Project ID: L87861
Date Received: 05/12/2011 10:03
Received By: gac
Date Printed: 5/12/2011

Sample Container Preservation

SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y < 2	YG < 2	B < 2	O < 2	T > 12	N/A	RAD	ID
L87861-01	NC-GWE-PV-1		Y		Y							<input type="checkbox"/>
L87861-02	NC-GWE-2P		Y		Y							<input type="checkbox"/>
L87861-03	NC-GWE-D2		Y		Y							<input type="checkbox"/>
L87861-04	NC-GWE-B2		Y		Y							<input type="checkbox"/>

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
B	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
O	Raw/Sulfuric	ORANGE	pH must be < 2
P	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Y	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 µR/hr

* pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By: gac



Attachment A
Chain of Custody Form

L87861

Nye County Nuclear Waste Repository Project Office

Form TP 11-1 Rev 0

Water Sample Chain of Custody Form

Sample Number	Well Name or Location	Date Collected	Date Shipped	Analysis	Number of Containers
GWS0272	NC-GWE-PV-1	5/03/2011	5/11/2011	Alkalinity	1 - 60 ml
	DO NOT DILUTE SAMPLES, IF DILUTION IS NECESSARY CONTACT [Levi Kryder]			Raw, Wet Chemistry	1 - 500 ml
				Filtered, Wet Chemistry	1 - 250 ml
				Filtered, HNO3, Metals	1 - 250 ml
				H2SO4, N-NH3, NO3-NO2, Total P	1 - 250 ml
GWS0273	NC-GWE-2P	5/10/2011	5/11/2011	Alkalinity	1 - 60 ml
				Raw, Wet Chemistry	1 - 500 ml
				Filtered, Wet Chemistry	1 - 250 ml
				Filtered, HNO3, Metals	1 - 250 ml
				H2SO4, N-NH3, NO3-NO2, Total P	1 - 250 ml
GWS0274	NC-GWE-D2	5/10/2011	5/11/2011	Alkalinity	1 - 60 ml
				Raw, Wet Chemistry	1 - 500 ml
				Filtered, Wet Chemistry	1 - 250 ml
				Filtered, HNO3, Metals	1 - 250 ml
				H2SO4, N-NH3, NO3-NO2, Total P	1 - 250 ml
GWS0275	NC-GWE-B2	5/10/2011	5/11/2011	Alkalinity	1 - 60 ml
				Raw, Wet Chemistry	1 - 500 ml
				Filtered, Wet Chemistry	1 - 250 ml
				Filtered, HNO3, Metals	1 - 250 ml
				H2SO4, N-NH3, NO3-NO2, Total P	1 - 250 ml

Lab Name:	ACZ
Recipient:	Tony Antalek
Telephone	800-334-5493
Address	2773 Downhill Drive Steamboat Springs, CO 80487

Recipient: Please acknowledge receipt of this shipment and return completed within 10 working days to:

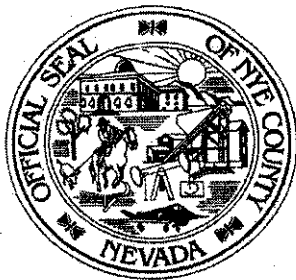
Nye County Nuclear Waste Repository Project Office
Quality Assurance Records Center (QARC)
2101 E. Calvada Blvd, Suite 100
Pahrump, NV 89048
775-727-7727

Person Accepting Custody:	WGS 5/12/11 10:03
Date/Time:	5/11/11 1300

Person Releasing Custody for Nye County:

Date/Time: 5/11/11 1300

Checked By: _____ Date: _____



Nye County

Nuclear Waste Repository Project Office

**2101 E. Calvada Blvd. Ste. #100 • Pahrump, Nevada 89060
(775) 727-7727 • Fax (775) 727-7919**

11-077-LK-(L)

May 11, 2011

ACZ Laboratories
Tony Antalek
2773 Downhill Drive
Steamboat Springs, CO 80487

Water Sample Analyses for the Nye County Groundwater Evaluation Program

Dear Mr. Antalek:

Enclosed are the ground water samples collected at Nye County wells NC-GWE-PV-1, -2P, -B2, and -D2. These samples are to be analyzed under quotation "NC-GWE-WELLS-2010". This is the only shipment under this letter.

Please sign and date the attached Chain of Custody form and return to my attention at the address listed above. When the analyses have been completed, please send a copy of the final report to the same address.

If you have any questions regarding the samples or analyses, please contact me by phone at (775) 727-7727, fax at (775) 727-7919, or email at lkryder@co.nye.nv.us.

Respectfully,
NYE COUNTY, NEVADA

A handwritten signature in black ink, appearing to read "Levi Kryder", is written over a horizontal line.

Levi Kryder
Geoscience Manager

Enclosures: as stated

LK/cs

June 01, 2011

Report to:

Roger Mcrae
Nye County Natural Res & Fed Facilities
2101 E. Calvada Blvd. Suite 100
Pahrump, NV 89048

Bill to:

Levi Kryder
Nye County Natural Res & Fed Facilities
2101 E. Calvada Blvd. Suite 100
Pahrump, NV 89048

cc: Levi Kryder

Project ID: 11-086-LK-(L)

ACZ Project ID: L88008

Roger Mcrae:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on May 19, 2011. This project has been assigned to ACZ's project number, L88008. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L88008. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after July 01, 2011. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than \$10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.



Tony Antalek has reviewed and
approved this report.



Nye County Natural Res & Fed Facilities

Project ID: 11-086-LK-(L)

Sample ID: NC-GWE-FELDERHOFF-25

ACZ Sample ID: **L88008-01**

Date Sampled: 05/12/11 00:00

Date Received: 05/19/11

Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/23/11 14:17	mpb

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP		U		mg/L	0.03	0.2	05/26/11 19:36	aeb
Antimony, dissolved	M200.8 ICP-MS		U		mg/L	0.0004	0.002	05/25/11 22:44	msh
Arsenic, dissolved	M200.8 ICP-MS	0.0108			mg/L	0.0005	0.002	05/25/11 22:44	msh
Barium, dissolved	M200.7 ICP	0.014	B		mg/L	0.003	0.02	05/26/11 19:36	aeb
Beryllium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/26/11 19:36	aeb
Boron, dissolved	M200.7 ICP	0.28			mg/L	0.01	0.05	05/26/11 19:36	aeb
Cadmium, dissolved	M200.7 ICP		U		mg/L	0.005	0.02	05/27/11 13:55	jjc
Chromium, dissolved	M200.7 ICP	0.01	B		mg/L	0.01	0.05	05/26/11 19:36	aeb
Cobalt, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/26/11 19:36	aeb
Copper, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/26/11 19:36	aeb
Iron, dissolved	M200.7 ICP		U		mg/L	0.02	0.05	05/26/11 19:36	aeb
Lead, dissolved	M200.8 ICP-MS	0.0004	B		mg/L	0.0001	0.0005	05/25/11 22:44	msh
Lithium, dissolved	M200.7 ICP	0.05	B		mg/L	0.02	0.1	05/26/11 19:36	aeb
Manganese, dissolved	M200.7 ICP	0.010	B		mg/L	0.005	0.03	05/26/11 19:36	aeb
Molybdenum, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/26/11 19:36	aeb
Nickel, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/26/11 19:36	aeb
Selenium, dissolved	M200.8 ICP-MS	0.0007			mg/L	0.0001	0.0003	05/25/11 22:44	msh
Silver, dissolved	M200.8 ICP-MS		U		mg/L	0.00005	0.0003	05/25/11 22:44	msh
Sodium, dissolved	M200.7 ICP	74.7			mg/L	0.3	2	05/26/11 19:36	aeb
Strontium, dissolved	M200.7 ICP	0.15			mg/L	0.01	0.05	05/26/11 19:36	aeb
Thallium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/25/11 22:44	msh
Titanium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	05/26/11 19:36	aeb
Uranium, dissolved	M200.8 ICP-MS	0.0029			mg/L	0.0001	0.0005	05/25/11 22:44	msh
Vanadium, dissolved	M200.7 ICP	0.010	B		mg/L	0.005	0.03	05/26/11 19:36	aeb
Zinc, dissolved	M200.7 ICP	0.05	B		mg/L	0.01	0.05	05/26/11 19:36	aeb

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Bromide	M300.0 - Ion Chromatography	0.06		*	mg/L	0.01	0.05	05/24/11 23:08	ccp
Chloride	M300.0 - Ion Chromatography	13.9			mg/L	0.5	3	05/24/11 23:08	ccp
Fluoride	M300.0 - Ion Chromatography	1.1		*	mg/L	0.1	0.5	05/24/11 23:08	ccp
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1.17		*	mg/L	0.02	0.1	05/25/11 23:03	pjb
Nitrogen, ammonia	M350.1 - Automated Phenate		U	*	mg/L	0.05	0.5	05/27/11 12:54	mpb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)		U	*	mg/L	0.01	0.05	05/24/11 17:06	mpb
Residue, Filterable (TDS) @180C	SM2540C	350			mg/L	10	20	05/19/11 16:31	cra

Nye County Natural Res & Fed Facilities

Project ID: 11-086-LK-(L)

Sample ID: NC-GWE-8PA

ACZ Sample ID: **L88008-02**

Date Sampled: 05/17/11 00:00

Date Received: 05/19/11

Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/23/11 14:28	mpb

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP		U		mg/L	0.03	0.2	05/26/11 19:39	aeb
Antimony, dissolved	M200.8 ICP-MS	0.0005	B		mg/L	0.0004	0.002	05/25/11 22:47	msh
Arsenic, dissolved	M200.8 ICP-MS	0.0462			mg/L	0.0005	0.002	05/25/11 22:47	msh
Barium, dissolved	M200.7 ICP	0.032			mg/L	0.003	0.02	05/26/11 19:39	aeb
Beryllium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/26/11 19:39	aeb
Boron, dissolved	M200.7 ICP	0.52			mg/L	0.01	0.05	05/26/11 19:39	aeb
Cadmium, dissolved	M200.7 ICP		U		mg/L	0.005	0.02	05/27/11 13:58	jjc
Chromium, dissolved	M200.7 ICP	0.02	B		mg/L	0.01	0.05	05/26/11 19:39	aeb
Cobalt, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/26/11 19:39	aeb
Copper, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/26/11 19:39	aeb
Iron, dissolved	M200.7 ICP		U		mg/L	0.02	0.05	05/26/11 19:39	aeb
Lead, dissolved	M200.8 ICP-MS	0.0006			mg/L	0.0001	0.0005	05/25/11 22:47	msh
Lithium, dissolved	M200.7 ICP	0.17			mg/L	0.02	0.1	05/26/11 19:39	aeb
Manganese, dissolved	M200.7 ICP	0.017	B		mg/L	0.005	0.03	05/26/11 19:39	aeb
Molybdenum, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/26/11 19:39	aeb
Nickel, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/26/11 19:39	aeb
Selenium, dissolved	M200.8 ICP-MS	0.0003	B		mg/L	0.0001	0.0003	05/25/11 22:47	msh
Silver, dissolved	M200.8 ICP-MS		U		mg/L	0.00005	0.0003	05/25/11 22:47	msh
Sodium, dissolved	M200.7 ICP	127			mg/L	0.3	2	05/26/11 19:39	aeb
Strontium, dissolved	M200.7 ICP	0.70			mg/L	0.01	0.05	05/26/11 19:39	aeb
Thallium, dissolved	M200.8 ICP-MS	0.0004	B		mg/L	0.0001	0.0005	05/25/11 22:47	msh
Titanium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	05/26/11 19:39	aeb
Uranium, dissolved	M200.8 ICP-MS	0.0016			mg/L	0.0001	0.0005	05/25/11 22:47	msh
Vanadium, dissolved	M200.7 ICP	0.009	B		mg/L	0.005	0.03	05/26/11 19:39	aeb
Zinc, dissolved	M200.7 ICP	0.04	B		mg/L	0.01	0.05	05/26/11 19:39	aeb

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Bromide	M300.0 - Ion Chromatography	0.08		*	mg/L	0.01	0.05	05/24/11 23:30	ccp
Chloride	M300.0 - Ion Chromatography	27.3			mg/L	0.5	3	05/24/11 23:30	ccp
Fluoride	M300.0 - Ion Chromatography	1.6		*	mg/L	0.1	0.5	05/24/11 23:30	ccp
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	0.11		*	mg/L	0.02	0.1	05/25/11 23:06	pjb
Nitrogen, ammonia	M350.1 - Automated Phenate		U	*	mg/L	0.05	0.5	05/27/11 12:56	mpb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.06		*	mg/L	0.01	0.05	05/24/11 17:07	mpb
Residue, Filterable (TDS) @180C	SM2540C	550			mg/L	10	20	05/19/11 16:31	cra

Nye County Natural Res & Fed Facilities

Project ID: 11-086-LK-(L)

Sample ID: NC-GWE-B8

ACZ Sample ID: **L88008-03**

Date Sampled: 05/17/11 00:00

Date Received: 05/19/11

Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/23/11 14:38	mpb

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	0.13	B		mg/L	0.03	0.2	05/26/11 19:48	aeb
Antimony, dissolved	M200.8 ICP-MS		U		mg/L	0.0004	0.002	05/25/11 22:50	msh
Arsenic, dissolved	M200.8 ICP-MS		U		mg/L	0.0005	0.002	05/25/11 22:50	msh
Barium, dissolved	M200.7 ICP	0.003	B		mg/L	0.003	0.02	05/26/11 19:48	aeb
Beryllium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/26/11 19:48	aeb
Boron, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/26/11 19:48	aeb
Cadmium, dissolved	M200.7 ICP		U		mg/L	0.005	0.02	05/27/11 14:08	jjc
Chromium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/26/11 19:48	aeb
Cobalt, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/26/11 19:48	aeb
Copper, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/26/11 19:48	aeb
Iron, dissolved	M200.7 ICP	0.13			mg/L	0.02	0.05	05/26/11 19:48	aeb
Lead, dissolved	M200.8 ICP-MS	0.0002	B		mg/L	0.0001	0.0005	05/25/11 22:50	msh
Lithium, dissolved	M200.7 ICP		U		mg/L	0.02	0.1	05/26/11 19:48	aeb
Manganese, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	05/26/11 19:48	aeb
Molybdenum, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/26/11 19:48	aeb
Nickel, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/26/11 19:48	aeb
Selenium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0003	05/25/11 22:50	msh
Silver, dissolved	M200.8 ICP-MS		U		mg/L	0.00005	0.0003	05/25/11 22:50	msh
Sodium, dissolved	M200.7 ICP	2.3			mg/L	0.3	2	05/26/11 19:48	aeb
Strontium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/26/11 19:48	aeb
Thallium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/25/11 22:50	msh
Titanium, dissolved	M200.7 ICP	0.006	B		mg/L	0.005	0.03	05/26/11 19:48	aeb
Uranium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	05/25/11 22:50	msh
Vanadium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	05/26/11 19:48	aeb
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/26/11 19:48	aeb

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Bromide	M300.0 - Ion Chromatography		U	*	mg/L	0.01	0.05	05/24/11 23:51	ccp
Chloride	M300.0 - Ion Chromatography		U		mg/L	0.5	3	05/24/11 23:51	ccp
Fluoride	M300.0 - Ion Chromatography		U	*	mg/L	0.1	0.5	05/24/11 23:51	ccp
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved		U	*	mg/L	0.02	0.1	05/25/11 23:10	pjb
Nitrogen, ammonia	M350.1 - Automated Phenate		U	*	mg/L	0.05	0.5	05/27/11 12:58	mpb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)		U	*	mg/L	0.01	0.05	05/24/11 17:08	mpb
Residue, Filterable (TDS) @180C	SM2540C	20	B		mg/L	10	20	05/19/11 16:32	cra

Nye County Natural Res & Fed Facilities

Project ID: 11-086-LK-(L)

Sample ID: NC-GWE-D8

ACZ Sample ID: **L88008-04**

Date Sampled: 05/17/11 00:00

Date Received: 05/19/11

Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							05/23/11 14:49	mpb

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP		U		mg/L	0.03	0.2	05/26/11 19:51	aeb
Antimony, dissolved	M200.8 ICP-MS	0.0005	B		mg/L	0.0004	0.002	05/25/11 22:53	msh
Arsenic, dissolved	M200.8 ICP-MS	0.0460			mg/L	0.0005	0.002	05/25/11 22:53	msh
Barium, dissolved	M200.7 ICP	0.031			mg/L	0.003	0.02	05/26/11 19:51	aeb
Beryllium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/26/11 19:51	aeb
Boron, dissolved	M200.7 ICP	0.52			mg/L	0.01	0.05	05/26/11 19:51	aeb
Cadmium, dissolved	M200.7 ICP		U		mg/L	0.005	0.02	05/27/11 14:11	jjc
Chromium, dissolved	M200.7 ICP	0.01	B		mg/L	0.01	0.05	05/26/11 19:51	aeb
Cobalt, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/26/11 19:51	aeb
Copper, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/26/11 19:51	aeb
Iron, dissolved	M200.7 ICP		U		mg/L	0.02	0.05	05/26/11 19:51	aeb
Lead, dissolved	M200.8 ICP-MS	0.0004	B		mg/L	0.0001	0.0005	05/25/11 22:53	msh
Lithium, dissolved	M200.7 ICP	0.17			mg/L	0.02	0.1	05/26/11 19:51	aeb
Manganese, dissolved	M200.7 ICP	0.017	B		mg/L	0.005	0.03	05/26/11 19:51	aeb
Molybdenum, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/26/11 19:51	aeb
Nickel, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	05/26/11 19:51	aeb
Selenium, dissolved	M200.8 ICP-MS	0.0003	B		mg/L	0.0001	0.0003	05/25/11 22:53	msh
Silver, dissolved	M200.8 ICP-MS		U		mg/L	0.00005	0.0003	05/25/11 22:53	msh
Sodium, dissolved	M200.7 ICP	127			mg/L	0.3	2	05/26/11 19:51	aeb
Strontium, dissolved	M200.7 ICP	0.70			mg/L	0.01	0.05	05/26/11 19:51	aeb
Thallium, dissolved	M200.8 ICP-MS	0.0004	B		mg/L	0.0001	0.0005	05/25/11 22:53	msh
Titanium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	05/26/11 19:51	aeb
Uranium, dissolved	M200.8 ICP-MS	0.0017			mg/L	0.0001	0.0005	05/25/11 22:53	msh
Vanadium, dissolved	M200.7 ICP	0.011	B		mg/L	0.005	0.03	05/26/11 19:51	aeb
Zinc, dissolved	M200.7 ICP	0.06			mg/L	0.01	0.05	05/26/11 19:51	aeb

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Bromide	M300.0 - Ion Chromatography	0.08		*	mg/L	0.01	0.05	05/25/11 0:12	ccp
Chloride	M300.0 - Ion Chromatography	27.3			mg/L	0.5	3	05/25/11 0:12	ccp
Fluoride	M300.0 - Ion Chromatography	1.6		*	mg/L	0.1	0.5	05/25/11 0:12	ccp
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	0.11		*	mg/L	0.02	0.1	05/25/11 23:12	pjb
Nitrogen, ammonia	M350.1 - Automated Phenate		U	*	mg/L	0.05	0.5	05/27/11 12:59	mpb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.05		*	mg/L	0.01	0.05	05/24/11 17:09	mpb
Residue, Filterable (TDS) @180C	SM2540C	550			mg/L	10	20	05/19/11 16:32	cra

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit, typically 5 times the MDL.
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	LCSWD	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	LFB	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	LFM	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	LFMD	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	LRB	Laboratory Reagent Blank
ICB	Initial Calibration Blank	MS	Matrix Spike
ICV	Initial Calibration Verification standard	MSD	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	PBS	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	PBW	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	PQV	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	SDL	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

- (1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
- (2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
- (3) EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
- (5) EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December 1996.
- (6) Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995 & 20th edition (1998).

Comments

- (1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
- (3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click:

<http://www.acz.com/public/extquallist.pdf>

Nye County Natural Res & Fed Facilities
 Project ID: 11-086-LK-(L)

ACZ Project ID: **L88008**

Aluminum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302242													
WG302242ICV	ICV	05/26/11 18:37	II110104-1	2		1.919	mg/L	96	95	105			
WG302242ICB	ICB	05/26/11 18:41				U	mg/L		-0.09	0.09			
WG302242LFB	LFB	05/26/11 18:53	II110520-5	1		1.005	mg/L	100.5	85	115			
L88000-01AS	AS	05/26/11 19:05	II110520-5	1	.07	1.012	mg/L	94.2	85	115			
L88000-01ASD	ASD	05/26/11 19:08	II110520-5	1	.07	1.033	mg/L	96.3	85	115	2.05	20	
L88008-02AS	AS	05/26/11 19:42	II110520-5	1	U	.96	mg/L	96	85	115			
L88008-02ASD	ASD	05/26/11 19:45	II110520-5	1	U	.988	mg/L	98.8	85	115	2.87	20	

Antimony, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302190													
WG302190ICV	ICV	05/25/11 21:29	MS110414-1	.02		.01992	mg/L	99.6	90	110			
WG302190ICB	ICB	05/25/11 21:32				U	mg/L		-0.00088	0.00088			
WG302190LFB	LFB	05/25/11 21:38	MS110523-2	.01		.00956	mg/L	95.6	85	115			
L88008-04AS	AS	05/25/11 22:56	MS110523-2	.01	.0005	.00921	mg/L	87.1	70	130			
L88008-04ASD	ASD	05/25/11 22:59	MS110523-2	.01	.0005	.0094	mg/L	89	70	130	2.04	20	

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302190													
WG302190ICV	ICV	05/25/11 21:29	MS110414-1	.05		.0513	mg/L	102.6	90	110			
WG302190ICB	ICB	05/25/11 21:32				U	mg/L		-0.0011	0.0011			
WG302190LFB	LFB	05/25/11 21:38	MS110523-2	.05005		.04808	mg/L	96.1	85	115			
L88008-04AS	AS	05/25/11 22:56	MS110523-2	.05005	.046	.09352	mg/L	94.9	70	130			
L88008-04ASD	ASD	05/25/11 22:59	MS110523-2	.05005	.046	.09339	mg/L	94.7	70	130	0.14	20	

Barium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302242													
WG302242ICV	ICV	05/26/11 18:37	II110104-1	2		2.006	mg/L	100.3	95	105			
WG302242ICB	ICB	05/26/11 18:41				.0037	mg/L		-0.009	0.009			
WG302242LFB	LFB	05/26/11 18:53	II110520-5	.5		.4887	mg/L	97.7	85	115			
L88000-01AS	AS	05/26/11 19:05	II110520-5	.5	.016	.5044	mg/L	97.7	85	115			
L88000-01ASD	ASD	05/26/11 19:08	II110520-5	.5	.016	.509	mg/L	98.6	85	115	0.91	20	
L88008-02AS	AS	05/26/11 19:42	II110520-5	.5	.032	.521	mg/L	97.8	85	115			
L88008-02ASD	ASD	05/26/11 19:45	II110520-5	.5	.032	.523	mg/L	98.2	85	115	0.38	20	

Beryllium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302242													
WG302242ICV	ICV	05/26/11 18:37	II110104-1	2		1.992	mg/L	99.6	95	105			
WG302242ICB	ICB	05/26/11 18:41				U	mg/L		-0.03	0.03			
WG302242LFB	LFB	05/26/11 18:53	II110520-5	.5		.503	mg/L	100.6	85	115			
L88000-01AS	AS	05/26/11 19:05	II110520-5	.5	U	.506	mg/L	101.2	85	115			
L88000-01ASD	ASD	05/26/11 19:08	II110520-5	.5	U	.508	mg/L	101.6	85	115	0.39	20	
L88008-02AS	AS	05/26/11 19:42	II110520-5	.5	U	.507	mg/L	101.4	85	115			
L88008-02ASD	ASD	05/26/11 19:45	II110520-5	.5	U	.51	mg/L	102	85	115	0.59	20	

Nye County Natural Res & Fed Facilities
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ACZ Project ID: **L88008**

Boron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302242													
WG302242ICV	ICV	05/26/11 18:37	II110104-1	2		2.084	mg/L	104.2	95	105			
WG302242ICB	ICB	05/26/11 18:41				U	mg/L		-0.03	0.03			
WG302242LFB	LFB	05/26/11 18:53	II110520-5	.5005		.5	mg/L	99.9	85	115			
L88000-01AS	AS	05/26/11 19:05	II110520-5	.5005	U	.503	mg/L	100.5	85	115			
L88000-01ASD	ASD	05/26/11 19:08	II110520-5	.5005	U	.514	mg/L	102.7	85	115	2.16	20	
L88008-02AS	AS	05/26/11 19:42	II110520-5	.5005	.52	1.024	mg/L	100.7	85	115			
L88008-02ASD	ASD	05/26/11 19:45	II110520-5	.5005	.52	1.019	mg/L	99.7	85	115	0.49	20	

Bromide

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG300350													
WG300350ICV	ICV	04/22/11 12:11	WI110217-4	4.012		4.116	mg/L	102.6	90	110			
WG300350ICB	ICB	04/22/11 12:32				U	mg/L		-0.03	0.03			
WG302018													
WG302018LFB	LFB	05/24/11 14:21	WI110218-1	1.5		1.402	mg/L	93.5	90	110			
L87982-03DUP	DUP	05/24/11 19:59			.06	.059	mg/L				1.7	20	RA
L87995-01AS	AS	05/24/11 20:41	WI110218-1	15	U	13.92	mg/L	92.8	90	110			

Cadmium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302319													
WG302319ICV	ICV	05/27/11 13:36	II110104-1	2		1.9584	mg/L	97.9	95	105			
WG302319ICB	ICB	05/27/11 13:40				U	mg/L		-0.015	0.015			
WG302319LFB	LFB	05/27/11 13:52	II110520-5	.5		.4916	mg/L	98.3	85	115			
L88008-02AS	AS	05/27/11 14:01	II110520-5	.5	U	.5146	mg/L	102.9	85	115			
L88008-02ASD	ASD	05/27/11 14:04	II110520-5	.5	U	.5117	mg/L	102.3	85	115	0.57	20	

Chloride

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG300350													
WG300350ICV	ICV	04/22/11 12:11	WI110217-4	20.06		20.24	mg/L	100.9	90	110			
WG300350ICB	ICB	04/22/11 12:32				U	mg/L		-1.5	1.5			
WG302018													
WG302018LFB	LFB	05/24/11 14:21	WI110218-1	30		29.92	mg/L	99.7	90	110			
L87982-03DUP	DUP	05/24/11 19:59			17.3	17.32	mg/L				0.1	20	
L87995-01AS	AS	05/24/11 20:41	WI110218-1	300	U	296.6	mg/L	98.9	90	110			

Nye County Natural Res & Fed Facilities
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ACZ Project ID: **L88008**

Chromium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302242													
WG302242ICV	ICV	05/26/11 18:37	II110104-1	2		2.072	mg/L	103.6	95	105			
WG302242ICB	ICB	05/26/11 18:41				U	mg/L		-0.03	0.03			
WG302242LFB	LFB	05/26/11 18:53	II110520-5	.5		.531	mg/L	106.2	85	115			
L88000-01AS	AS	05/26/11 19:05	II110520-5	.5	.01	.531	mg/L	104.2	85	115			
L88000-01ASD	ASD	05/26/11 19:08	II110520-5	.5	.01	.541	mg/L	106.2	85	115	1.87	20	
L88008-02AS	AS	05/26/11 19:42	II110520-5	.5	.02	.55	mg/L	106	85	115			
L88008-02ASD	ASD	05/26/11 19:45	II110520-5	.5	.02	.549	mg/L	105.8	85	115	0.18	20	

Cobalt, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302242													
WG302242ICV	ICV	05/26/11 18:37	II110104-1	2		1.976	mg/L	98.8	95	105			
WG302242ICB	ICB	05/26/11 18:41				U	mg/L		-0.03	0.03			
WG302242LFB	LFB	05/26/11 18:53	II110520-5	.5		.503	mg/L	100.6	85	115			
L88000-01AS	AS	05/26/11 19:05	II110520-5	.5	U	.497	mg/L	99.4	85	115			
L88000-01ASD	ASD	05/26/11 19:08	II110520-5	.5	U	.506	mg/L	101.2	85	115	1.79	20	
L88008-02AS	AS	05/26/11 19:42	II110520-5	.5	U	.508	mg/L	101.6	85	115			
L88008-02ASD	ASD	05/26/11 19:45	II110520-5	.5	U	.509	mg/L	101.8	85	115	0.2	20	

Copper, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302242													
WG302242ICV	ICV	05/26/11 18:37	II110104-1	2		1.905	mg/L	95.3	95	105			
WG302242ICB	ICB	05/26/11 18:41				U	mg/L		-0.03	0.03			
WG302242LFB	LFB	05/26/11 18:53	II110520-5	.5		.486	mg/L	97.2	85	115			
L88000-01AS	AS	05/26/11 19:05	II110520-5	.5	U	.483	mg/L	96.6	85	115			
L88000-01ASD	ASD	05/26/11 19:08	II110520-5	.5	U	.482	mg/L	96.4	85	115	0.21	20	
L88008-02AS	AS	05/26/11 19:42	II110520-5	.5	U	.486	mg/L	97.2	85	115			
L88008-02ASD	ASD	05/26/11 19:45	II110520-5	.5	U	.488	mg/L	97.6	85	115	0.41	20	

Fluoride

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG300350													
WG300350ICV	ICV	04/22/11 12:11	WI110217-4	4		4.16	mg/L	104	90	110			
WG300350ICB	ICB	04/22/11 12:32				U	mg/L		-0.3	0.3			
WG302018													
WG302018LFB	LFB	05/24/11 14:21	WI110218-1	1.5		1.44	mg/L	96	90	110			
L87982-03DUP	DUP	05/24/11 19:59			.3	.26	mg/L				14.3	20	RA
L87995-01AS	AS	05/24/11 20:41	WI110218-1	15	U	14.6	mg/L	97.3	90	110			

Nye County Natural Res & Fed Facilities
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ACZ Project ID: **L88008**

Iron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302242													
WG302242ICV	ICV	05/26/11 18:37	II110104-1	2		1.987	mg/L	99.4	95	105			
WG302242ICB	ICB	05/26/11 18:41				U	mg/L		-0.06	0.06			
WG302242LFB	LFB	05/26/11 18:53	II110520-5	1		1.066	mg/L	106.6	85	115			
L88000-01AS	AS	05/26/11 19:05	II110520-5	1	.05	1.051	mg/L	100.1	85	115			
L88000-01ASD	ASD	05/26/11 19:08	II110520-5	1	.05	1.06	mg/L	101	85	115	0.85	20	
L88008-02AS	AS	05/26/11 19:42	II110520-5	1	U	1.015	mg/L	101.5	85	115			
L88008-02ASD	ASD	05/26/11 19:45	II110520-5	1	U	1.02	mg/L	102	85	115	0.49	20	

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302190													
WG302190ICV	ICV	05/25/11 21:29	MS110414-1	.05		.05064	mg/L	101.3	90	110			
WG302190ICB	ICB	05/25/11 21:32				U	mg/L		-0.00022	0.00022			
WG302190LFB	LFB	05/25/11 21:38	MS110523-2	.05005		.04915	mg/L	98.2	85	115			
L88008-04AS	AS	05/25/11 22:56	MS110523-2	.05005	.0004	.04772	mg/L	94.5	70	130			
L88008-04ASD	ASD	05/25/11 22:59	MS110523-2	.05005	.0004	.04827	mg/L	95.6	70	130	1.15	20	

Lithium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302242													
WG302242ICV	ICV	05/26/11 18:37	II110104-1	2		1.935	mg/L	96.8	95	105			
WG302242ICB	ICB	05/26/11 18:41				U	mg/L		-0.06	0.06			
WG302242LFB	LFB	05/26/11 18:53	II110520-5	1		.956	mg/L	95.6	85	115			
L88000-01AS	AS	05/26/11 19:05	II110520-5	1	U	.947	mg/L	94.7	85	115			
L88000-01ASD	ASD	05/26/11 19:08	II110520-5	1	U	.954	mg/L	95.4	85	115	0.74	20	
L88008-02AS	AS	05/26/11 19:42	II110520-5	1	.17	1.109	mg/L	93.9	85	115			
L88008-02ASD	ASD	05/26/11 19:45	II110520-5	1	.17	1.118	mg/L	94.8	85	115	0.81	20	

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302242													
WG302242ICV	ICV	05/26/11 18:37	II110104-1	2		1.9727	mg/L	98.6	95	105			
WG302242ICB	ICB	05/26/11 18:41				U	mg/L		-0.015	0.015			
WG302242LFB	LFB	05/26/11 18:53	II110520-5	.5		.535	mg/L	107	85	115			
L88000-01AS	AS	05/26/11 19:05	II110520-5	.5	U	.5201	mg/L	104	85	115			
L88000-01ASD	ASD	05/26/11 19:08	II110520-5	.5	U	.5268	mg/L	105.4	85	115	1.28	20	
L88008-02AS	AS	05/26/11 19:42	II110520-5	.5	.017	.5384	mg/L	104.3	85	115			
L88008-02ASD	ASD	05/26/11 19:45	II110520-5	.5	.017	.5372	mg/L	104	85	115	0.22	20	

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ACZ Project ID: **L88008**

Molybdenum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302242													
WG302242ICV	ICV	05/26/11 18:37	II110104-1	2		2.02	mg/L	101	95	105			
WG302242ICB	ICB	05/26/11 18:41				U	mg/L		-0.03	0.03			
WG302242LFB	LFB	05/26/11 18:53	II110520-5	.5		.503	mg/L	100.6	85	115			
L88000-01AS	AS	05/26/11 19:05	II110520-5	.5	U	.485	mg/L	97	85	115			
L88000-01ASD	ASD	05/26/11 19:08	II110520-5	.5	U	.49	mg/L	98	85	115	1.03	20	
L88008-02AS	AS	05/26/11 19:42	II110520-5	.5	U	.499	mg/L	99.8	85	115			
L88008-02ASD	ASD	05/26/11 19:45	II110520-5	.5	U	.5	mg/L	100	85	115	0.2	20	

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302242													
WG302242ICV	ICV	05/26/11 18:37	II110104-1	2.002		2.006	mg/L	100.2	95	105			
WG302242ICB	ICB	05/26/11 18:41				U	mg/L		-0.03	0.03			
WG302242LFB	LFB	05/26/11 18:53	II110520-5	.5		.495	mg/L	99	85	115			
L88000-01AS	AS	05/26/11 19:05	II110520-5	.5	U	.493	mg/L	98.6	85	115			
L88000-01ASD	ASD	05/26/11 19:08	II110520-5	.5	U	.496	mg/L	99.2	85	115	0.61	20	
L88008-02AS	AS	05/26/11 19:42	II110520-5	.5	U	.481	mg/L	96.2	85	115			
L88008-02ASD	ASD	05/26/11 19:45	II110520-5	.5	U	.49	mg/L	98	85	115	1.85	20	

Nitrate/Nitrite as N

M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302201													
WG302201ICV	ICV	05/25/11 21:20	WI110330-1	2.416		2.412	mg/L	99.8	90	110			
WG302201ICB	ICB	05/25/11 21:21				U	mg/L		-0.06	0.06			
WG302203													
WG302203LFB1	LFB	05/25/11 22:27	WI110322-5	2		2.084	mg/L	104.2	90	110			
WG302203LFB2	LFB	05/25/11 23:02	WI110322-5	2		2.037	mg/L	101.9	90	110			
L88008-01AS	AS	05/25/11 23:04	WI110322-5	2	1.17	3.235	mg/L	103.3	90	110			
L88008-02DUP	DUP	05/25/11 23:07			.11	.102	mg/L				7.5	20	RA

Nitrogen, ammonia

M350.1 - Automated Phenate

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302289													
WG302289ICV	ICV	05/27/11 11:31	WI101121-1	1.004		.994	mg/L	99	90	110			
WG302289ICB	ICB	05/27/11 11:34				U	mg/L		-0.15	0.15			
WG302333													
WG302333LFB1	LFB	05/27/11 12:35	WI110211-5	1		1.036	mg/L	103.6	90	110			
L87995-06AS	AS	05/27/11 12:53	WI110211-5	2	U	2.08	mg/L	104	90	110			
L88008-01DUP	DUP	05/27/11 12:55			U	U	mg/L				0	20	RA
WG302333LFB2	LFB	05/27/11 13:08	WI110211-5	1		1.027	mg/L	102.7	90	110			

Nye County Natural Res & Fed Facilities
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ACZ Project ID: **L88008**

Phosphorus, total M365.1 - Auto Ascorbic Acid (digest)

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302085													
WG302085ICV	ICV	05/24/11 15:49	WI110425-6	.65228		.626	mg/L	96	90	110			
WG302085ICB	ICB	05/24/11 15:52				U	mg/L		-0.03	0.03			
WG302086													
WG301920LRB	LRB	05/24/11 16:37				U	mg/L		-0.03	0.03			
WG301920LFB	LFB	05/24/11 16:39	WI110510-2	.5		.488	mg/L	97.6	90	110			
L88000-03LFB	LFB	05/24/11 16:57	WI110510-2	.5	.03	.527	mg/L	99.4	90	110			
L88000-04DUP	DUP	05/24/11 16:59			.02	.018	mg/L				10.5	20	RA

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG301803													
WG301803PBW	PBW	05/19/11 16:22				U	mg/L		-20	20			
WG301803LCSW	LCSW	05/19/11 16:22	PCN36812	260		248	mg/L	95.4	80	120			
L88008-04DUP	DUP	05/19/11 16:33			550	536	mg/L				2.6	20	

Selenium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302190													
WG302190ICV	ICV	05/25/11 21:29	MS110414-1	.05		.05411	mg/L	108.2	90	110			
WG302190ICB	ICB	05/25/11 21:32				U	mg/L		-0.00022	0.00022			
WG302190LFB	LFB	05/25/11 21:38	MS110523-2	.05005		.04914	mg/L	98.2	85	115			
L88008-04AS	AS	05/25/11 22:56	MS110523-2	.05005	.0003	.05137	mg/L	102	70	130			
L88008-04ASD	ASD	05/25/11 22:59	MS110523-2	.05005	.0003	.05131	mg/L	101.9	70	130	0.12	20	

Silver, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302190													
WG302190ICV	ICV	05/25/11 21:29	MS110414-1	.01996		.01965	mg/L	98.4	90	110			
WG302190ICB	ICB	05/25/11 21:32				U	mg/L		-0.00011	0.00011			
WG302190LFB	LFB	05/25/11 21:38	MS110523-2	.01002		.00971	mg/L	96.9	85	115			
L88008-04AS	AS	05/25/11 22:56	MS110523-2	.01002	U	.009096	mg/L	90.8	70	130			
L88008-04ASD	ASD	05/25/11 22:59	MS110523-2	.01002	U	.009159	mg/L	91.4	70	130	0.69	20	

Sodium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302242													
WG302242ICV	ICV	05/26/11 18:37	II110104-1	100		100.49	mg/L	100.5	95	105			
WG302242ICB	ICB	05/26/11 18:41				U	mg/L		-0.9	0.9			
WG302242LFB	LFB	05/26/11 18:53	II110520-5	100.018		99.47	mg/L	99.5	85	115			
L88000-01AS	AS	05/26/11 19:05	II110520-5	100.018	2.9	102.2	mg/L	99.3	85	115			
L88000-01ASD	ASD	05/26/11 19:08	II110520-5	100.018	2.9	102.56	mg/L	99.6	85	115	0.35	20	
L88008-02AS	AS	05/26/11 19:42	II110520-5	100.018	127	218.67	mg/L	91.7	85	115			
L88008-02ASD	ASD	05/26/11 19:45	II110520-5	100.018	127	219.01	mg/L	92	85	115	0.16	20	

Nye County Natural Res & Fed Facilities
 Project ID: 11-086-LK-(L)

ACZ Project ID: **L88008**

Strontium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302242													
WG302242ICV	ICV	05/26/11 18:37	II110104-1	2		1.991	mg/L	99.6	95	105			
WG302242ICB	ICB	05/26/11 18:41				U	mg/L		-0.03	0.03			
WG302242LFB	LFB	05/26/11 18:53	II110520-5	.5		.519	mg/L	103.8	85	115			
L88000-01AS	AS	05/26/11 19:05	II110520-5	.5	.03	.548	mg/L	103.6	85	115			
L88000-01ASD	ASD	05/26/11 19:08	II110520-5	.5	.03	.553	mg/L	104.6	85	115	0.91	20	
L88008-02AS	AS	05/26/11 19:42	II110520-5	.5	.7	1.196	mg/L	99.2	85	115			
L88008-02ASD	ASD	05/26/11 19:45	II110520-5	.5	.7	1.196	mg/L	99.2	85	115	0	20	

Thallium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302190													
WG302190ICV	ICV	05/25/11 21:29	MS110414-1	.05		.05503	mg/L	110.1	90	110			
WG302190ICB	ICB	05/25/11 21:32				U	mg/L		-0.00022	0.00022			
WG302190LFB	LFB	05/25/11 21:38	MS110523-2	.0501		.05	mg/L	99.8	85	115			
L88008-04AS	AS	05/25/11 22:56	MS110523-2	.0501	.0004	.04682	mg/L	92.7	70	130			
L88008-04ASD	ASD	05/25/11 22:59	MS110523-2	.0501	.0004	.04684	mg/L	92.7	70	130	0.04	20	

Titanium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302242													
WG302242ICV	ICV	05/26/11 18:37	II110104-1	2		2.0051	mg/L	100.3	95	105			
WG302242ICB	ICB	05/26/11 18:41				U	mg/L		-0.015	0.015			
WG302242LFB	LFB	05/26/11 18:53	II110520-5	1		1.0143	mg/L	101.4	85	115			
L88000-01AS	AS	05/26/11 19:05	II110520-5	1	U	1.0088	mg/L	100.9	85	115			
L88000-01ASD	ASD	05/26/11 19:08	II110520-5	1	U	1.0152	mg/L	101.5	85	115	0.63	20	
L88008-02AS	AS	05/26/11 19:42	II110520-5	1	U	1.0111	mg/L	101.1	85	115			
L88008-02ASD	ASD	05/26/11 19:45	II110520-5	1	U	1.0129	mg/L	101.3	85	115	0.18	20	

Uranium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302190													
WG302190ICV	ICV	05/25/11 21:29	MS110414-1	.05		.0522	mg/L	104.4	90	110			
WG302190ICB	ICB	05/25/11 21:32				U	mg/L		-0.00022	0.00022			
WG302190LFB	LFB	05/25/11 21:38	MS110523-2	.05		.0497	mg/L	99.4	85	115			
L88008-04AS	AS	05/25/11 22:56	MS110523-2	.05	.0017	.05184	mg/L	100.3	70	130			
L88008-04ASD	ASD	05/25/11 22:59	MS110523-2	.05	.0017	.05226	mg/L	101.1	70	130	0.81	20	

Vanadium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302242													
WG302242ICV	ICV	05/26/11 18:37	II110104-1	2		2.097	mg/L	104.9	95	105			
WG302242ICB	ICB	05/26/11 18:41				U	mg/L		-0.015	0.015			
WG302242LFB	LFB	05/26/11 18:53	II110520-5	.5		.5263	mg/L	105.3	85	115			
L88000-01AS	AS	05/26/11 19:05	II110520-5	.5	U	.5214	mg/L	104.3	85	115			
L88000-01ASD	ASD	05/26/11 19:08	II110520-5	.5	U	.5271	mg/L	105.4	85	115	1.09	20	
L88008-02AS	AS	05/26/11 19:42	II110520-5	.5	.009	.5309	mg/L	104.4	85	115			
L88008-02ASD	ASD	05/26/11 19:45	II110520-5	.5	.009	.5308	mg/L	104.4	85	115	0.02	20	

Nye County Natural Res & Fed FacilitiesACZ Project ID: **L88008**

Project ID: 11-086-LK-(L)

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302242													
WG302242ICV	ICV	05/26/11 18:37	II110104-1	2		1.965	mg/L	98.3	95	105			
WG302242ICB	ICB	05/26/11 18:41				U	mg/L		-0.03	0.03			
WG302242LFB	LFB	05/26/11 18:53	II110520-5	.5		.502	mg/L	100.4	85	115			
L88000-01AS	AS	05/26/11 19:05	II110520-5	.5	.03	.542	mg/L	102.4	85	115			
L88000-01ASD	ASD	05/26/11 19:08	II110520-5	.5	.03	.553	mg/L	104.6	85	115	2.01	20	
L88008-02AS	AS	05/26/11 19:42	II110520-5	.5	.04	.549	mg/L	101.8	85	115			
L88008-02ASD	ASD	05/26/11 19:45	II110520-5	.5	.04	.566	mg/L	105.2	85	115	3.05	20	

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L88008**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L88008-01	WG302018	Bromide	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
		Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG302203	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG302333	Nitrogen, ammonia	M350.1 - Automated Phenate	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG302086	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L88008-02	WG302018	Bromide	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
		Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG302203	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG302333	Nitrogen, ammonia	M350.1 - Automated Phenate	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG302086	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L88008-03	WG302018	Bromide	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
		Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG302203	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG302333	Nitrogen, ammonia	M350.1 - Automated Phenate	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG302086	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L88008-04	WG302018	Bromide	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
		Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG302203	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG302333	Nitrogen, ammonia	M350.1 - Automated Phenate	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG302086	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L88008**

No certification qualifiers associated with this analysis

Nye County Natural Res & Fed Facilities

ACZ Project ID: L88008

Date Received: 05/19/2011 09:42

Received By: ksj

Date Printed: 5/19/2011

Receipt Verification

	YES	NO	NA
1) Does this project require special handling procedures such as CLP protocol?			X
2) Are the custody seals on the cooler intact?			X
3) Are the custody seals on the sample containers intact?			X
4) Is there a Chain of Custody or other directive shipping papers present?	X		
5) Is the Chain of Custody complete?	X		
6) Is the Chain of Custody in agreement with the samples received?	X		
7) Is there enough sample for all requested analyses?	X		
8) Are all samples within holding times for requested analyses?	X		
9) Were all sample containers received intact?	X		
10) Are the temperature blanks present?			X
11) Are the trip blanks (VOA and/or Cyanide) present?			X
12) Are samples requiring no headspace, headspace free?			X
13) Do the samples that require a Foreign Soils Permit have one?			X

Exceptions: If you answered no to any of the above questions, please describe

N/A

Contact (For any discrepancies, the client must be contacted)

N/A

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/hr)
2239	1.4	15

Client must contact ACZ Project Manager if analysis should not proceed for samples received outside of thermal preservation acceptance criteria.

Notes

Nye County Natural Res & Fed Facilities

ACZ Project ID: L88008

Date Received: 05/19/2011 09:42

Received By: ksJ

Date Printed: 5/19/2011

Sample Container Preservation

SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y < 2	YG < 2	B < 2	O < 2	T > 12	N/A	RAD	ID
L88008-01	NC-GWE-FELDERHOFF-25		Y		Y							<input type="checkbox"/>
L88008-02	NC-GWE-8PA		Y		Y							<input type="checkbox"/>
L88008-03	NC-GWE-B8		Y		Y							<input type="checkbox"/>
L88008-04	NC-GWE-D8		Y		Y							<input type="checkbox"/>

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
B	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
O	Raw/Sulfuric	ORANGE	pH must be < 2
P	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Y	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 µR/hr

* pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By: ksj



Attachment A
Chain of Custody Form

Nye County Nuclear Waste Repository Project Office

L88008

Form TP 11-1-1 Rev 0

Water Sample Chain of Custody Form

Sample Number	Well Name or Location	Date Collected	Date Shipped	Analysis	Number of Containers
GWS0276	NC-GWE-Felderhoff-25-1PA	5/12/2011	5/18/2011	Alkalinity	1 - 60 ml
				Raw, Wet Chemistry	1 - 500 ml
	DO NOT DILUTE SAMPLES, IF DILUTION IS NECESSARY			Filtered, Wet Chemistry	1 - 250 ml
	CONTACT [Levi Kryder]			Filtered, HNO3, Metals	1 - 250 ml
GWS0277	NC-GWE-8PA	5/17/2011	5/18/2011	H2SO4, N-NH3, NO3-NO2, Total P	1 - 250 ml
				Alkalinity	1 - 60 ml
				Raw, Wet Chemistry	1 - 500 ml
				Filtered, Wet Chemistry	1 - 250 ml
				Filtered, HNO3, Metals	1 - 250 ml
GWS0278	NC-GWE-B8	5/17/2011	5/18/2011	H2SO4, N-NH3, NO3-NO2, Total P	1 - 250 ml
				Alkalinity	1 - 60 ml
				Raw, Wet Chemistry	1 - 500 ml
				Filtered, Wet Chemistry	1 - 250 ml
				Filtered, HNO3, Metals	1 - 250 ml
GWS0279	NC-GWE-D8	5/17/2011	5/18/2011	H2SO4, N-NH3, NO3-NO2, Total P	1 - 250 ml
				Alkalinity	1 - 60 ml
				Raw, Wet Chemistry	1 - 500 ml
				Filtered, Wet Chemistry	1 - 250 ml
				Filtered, HNO3, Metals	1 - 250 ml
				H2SO4, N-NH3, NO3-NO2, Total P	1 - 250 ml

Lab Name:	ACZ
Recipient:	Tony Antalek
Telephone	800-334-5493
Address	2773 Downhill Drive Steamboat Springs, CO 80487

Recipient: Please acknowledge receipt of this shipment and return completed within 10 working days to:

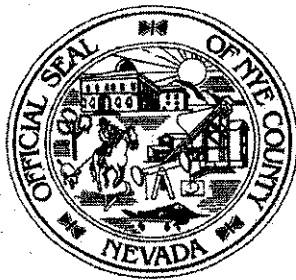
Nye County Nuclear Waste Repository Project Office
Quality Assurance Records Center (QARC)
2101 E. Calvada Blvd, Suite 100
Pahrump, NV 89048
775-727-7727

Person Accepting Custody: APL 5/19/11 9:42

Person Releasing Custody for Nye County :

Date/Time: 5/18/11 1000

Checked By _____ Date: _____



Nye County

Nuclear Waste Repository Project Office

**2101 E. Calvada Blvd. Ste. #100 • Pahrump, Nevada 89060
(775) 727-7727 • Fax (775) 727-7919**

11-086-LK-(L)

May 17, 2011

ACZ Laboratories
Tony Antalek
2773 Downhill Drive
Steamboat Springs, CO 80487

Water Sample Analyses for the Nye County Groundwater Evaluation Program

Dear Mr. Antalek:

Enclosed are the ground water samples collected at Nye County wells NC-GWE-Felderhoff-25-1PA, -8PA, -B8, and -D8. These samples are to be analyzed under quotation "NC-GWE-WELLS-2010". This is the only shipment under this letter.

Please sign and date the attached Chain of Custody form and return to my attention at the address listed above. When the analyses have been completed, please send a copy of the final report to the same address.

If you have any questions regarding the samples or analyses, please contact me by phone at (775) 727-7727, fax at (775) 727-7919, or email at lkryder@co.nye.nv.us.

Respectfully,
NYE COUNTY, NEVADA

A handwritten signature in black ink, appearing to read "Levi Kryder", is written over a horizontal line.

Levi Kryder
Geoscience Manager

Enclosures: as stated

LK/cs

June 15, 2011

Report to:

Roger Mcrae
Nye County Natural Res & Fed Facilities
2101 E. Calvada Blvd. Suite 100
Pahrump, NV 89048

Bill to:

Levi Kryder
Nye County Natural Res & Fed Facilities
2101 E. Calvada Blvd. Suite 100
Pahrump, NV 89048

cc: Levi Kryder

Project ID: 11-094-LK-(L)

ACZ Project ID: L88158

Roger Mcrae:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on May 26, 2011. This project has been assigned to ACZ's project number, L88158. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L88158. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after July 15, 2011. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than \$10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.



Tony Antalek has reviewed and
approved this report.



Nye County Natural Res & Fed Facilities

Project ID: 11-094-LK-(L)

Sample ID: NC-GWE-OV-2

ACZ Sample ID: **L88158-01**

Date Sampled: 05/19/11 00:00

Date Received: 05/26/11

Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							06/02/11 10:34	tcd

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP		U		mg/L	0.03	0.2	06/01/11 23:46	aeb
Antimony, dissolved	M200.8 ICP-MS		U	*	mg/L	0.0004	0.002	06/07/11 2:17	msh
Arsenic, dissolved	M200.8 ICP-MS	0.0275			mg/L	0.0005	0.002	06/07/11 2:17	msh
Barium, dissolved	M200.7 ICP	0.012	B		mg/L	0.003	0.02	06/01/11 23:46	aeb
Beryllium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/01/11 23:46	aeb
Boron, dissolved	M200.7 ICP	0.57			mg/L	0.01	0.05	06/01/11 23:46	aeb
Cadmium, dissolved	M200.7 ICP		U		mg/L	0.005	0.02	06/01/11 23:46	aeb
Chromium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/01/11 23:46	aeb
Cobalt, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/01/11 23:46	aeb
Copper, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/01/11 23:46	aeb
Iron, dissolved	M200.7 ICP		U	*	mg/L	0.02	0.05	06/01/11 23:46	aeb
Lead, dissolved	M200.8 ICP-MS	0.0015			mg/L	0.0001	0.0005	06/07/11 2:17	msh
Lithium, dissolved	M200.7 ICP	0.29			mg/L	0.02	0.1	06/01/11 23:46	aeb
Manganese, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	06/01/11 23:46	aeb
Molybdenum, dissolved	M200.7 ICP	0.02	B		mg/L	0.01	0.05	06/01/11 23:46	aeb
Nickel, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/02/11 13:42	jjc
Selenium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0003	06/07/11 2:17	msh
Silver, dissolved	M200.8 ICP-MS		U	*	mg/L	0.00005	0.0003	06/07/11 2:17	msh
Sodium, dissolved	M200.7 ICP	264			mg/L	0.3	2	06/01/11 23:46	aeb
Strontium, dissolved	M200.7 ICP	0.32			mg/L	0.01	0.05	06/01/11 23:46	aeb
Thallium, dissolved	M200.8 ICP-MS	0.0001	B		mg/L	0.0001	0.0005	06/07/11 19:36	msh
Titanium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	06/01/11 23:46	aeb
Uranium, dissolved	M200.8 ICP-MS	0.0074			mg/L	0.0001	0.0005	06/07/11 2:17	msh
Vanadium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	06/01/11 23:46	aeb
Zinc, dissolved	M200.7 ICP	0.03	B		mg/L	0.01	0.05	06/01/11 23:46	aeb

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Bromide	M300.0 - Ion Chromatography	0.21		*	mg/L	0.02	0.1	06/02/11 0:12	ccp
Chloride	M300.0 - Ion Chromatography	73		*	mg/L	1	5	06/02/11 0:12	ccp
Fluoride	M300.0 - Ion Chromatography	7.0		*	mg/L	0.2	1	06/02/11 0:12	ccp
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	0.03	B	*	mg/L	0.02	0.1	06/02/11 22:18	pjb
Nitrogen, ammonia	M350.1 - Automated Phenate		U	*	mg/L	0.05	0.5	06/04/11 14:16	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.02	B	*	mg/L	0.01	0.05	06/02/11 20:06	pjb
Residue, Filterable (TDS) @180C	SM2540C	850			mg/L	10	20	05/26/11 15:37	cra

Nye County Natural Res & Fed FacilitiesProject ID: 11-094-LK-(L)
Sample ID: NC-GWE-GF-3PAACZ Sample ID: **L88158-02**

Date Sampled: 05/24/11 00:00

Date Received: 05/26/11

Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							06/02/11 10:34	tcd

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	0.69			mg/L	0.03	0.2	06/01/11 23:49	aeb
Antimony, dissolved	M200.8 ICP-MS		U	*	mg/L	0.0004	0.002	06/07/11 2:20	msh
Arsenic, dissolved	M200.8 ICP-MS	0.0143			mg/L	0.0005	0.002	06/07/11 2:20	msh
Barium, dissolved	M200.7 ICP	0.074			mg/L	0.003	0.02	06/01/11 23:49	aeb
Beryllium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/01/11 23:49	aeb
Boron, dissolved	M200.7 ICP	0.34			mg/L	0.01	0.05	06/01/11 23:49	aeb
Cadmium, dissolved	M200.7 ICP		U		mg/L	0.005	0.02	06/01/11 23:49	aeb
Chromium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/01/11 23:49	aeb
Cobalt, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/01/11 23:49	aeb
Copper, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/01/11 23:49	aeb
Iron, dissolved	M200.7 ICP	0.42		*	mg/L	0.02	0.05	06/01/11 23:49	aeb
Lead, dissolved	M200.8 ICP-MS	0.0086			mg/L	0.0001	0.0005	06/07/11 2:20	msh
Lithium, dissolved	M200.7 ICP	0.12			mg/L	0.02	0.1	06/01/11 23:49	aeb
Manganese, dissolved	M200.7 ICP	0.021	B		mg/L	0.005	0.03	06/01/11 23:49	aeb
Molybdenum, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/01/11 23:49	aeb
Nickel, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/02/11 13:52	jjc
Selenium, dissolved	M200.8 ICP-MS	0.0003	B		mg/L	0.0001	0.0003	06/07/11 2:20	msh
Silver, dissolved	M200.8 ICP-MS		U	*	mg/L	0.00005	0.0003	06/07/11 2:20	msh
Sodium, dissolved	M200.7 ICP	81.7			mg/L	0.3	2	06/01/11 23:49	aeb
Strontium, dissolved	M200.7 ICP	1.18			mg/L	0.01	0.05	06/01/11 23:49	aeb
Thallium, dissolved	M200.8 ICP-MS	0.0007			mg/L	0.0001	0.0005	06/07/11 19:39	msh
Titanium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	06/01/11 23:49	aeb
Uranium, dissolved	M200.8 ICP-MS	0.0053			mg/L	0.0001	0.0005	06/07/11 2:20	msh
Vanadium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	06/01/11 23:49	aeb
Zinc, dissolved	M200.7 ICP	0.02	B		mg/L	0.01	0.05	06/01/11 23:49	aeb

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Bromide	M300.0 - Ion Chromatography	0.08		*	mg/L	0.01	0.05	06/13/11 21:08	ccp
Chloride	M300.0 - Ion Chromatography	16.8			mg/L	0.5	3	06/08/11 11:48	ccp
Fluoride	M300.0 - Ion Chromatography	1.8			mg/L	0.1	0.5	06/08/11 11:48	ccp
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	0.04	B	*	mg/L	0.02	0.1	06/02/11 22:19	pjb
Nitrogen, ammonia	M350.1 - Automated Phenate	0.15	B	*	mg/L	0.05	0.5	06/04/11 14:17	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.05		*	mg/L	0.01	0.05	06/02/11 20:08	pjb
Residue, Filterable (TDS) @180C	SM2540C	610			mg/L	10	20	05/26/11 15:37	cra

Nye County Natural Res & Fed FacilitiesProject ID: 11-094-LK-(L)
Sample ID: NC-GWE-GF-01BACZ Sample ID: **L88158-03**

Date Sampled: 05/24/11 00:00

Date Received: 05/26/11

Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							06/02/11 10:34	tcd

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	0.15	B		mg/L	0.03	0.2	06/01/11 23:53	aeb
Antimony, dissolved	M200.8 ICP-MS		U	*	mg/L	0.0004	0.002	06/07/11 2:23	msh
Arsenic, dissolved	M200.8 ICP-MS		U		mg/L	0.0005	0.002	06/07/11 2:23	msh
Barium, dissolved	M200.7 ICP		U		mg/L	0.003	0.02	06/01/11 23:53	aeb
Beryllium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/01/11 23:53	aeb
Boron, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/01/11 23:53	aeb
Cadmium, dissolved	M200.7 ICP		U		mg/L	0.005	0.02	06/01/11 23:53	aeb
Chromium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/01/11 23:53	aeb
Cobalt, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/01/11 23:53	aeb
Copper, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/01/11 23:53	aeb
Iron, dissolved	M200.7 ICP	0.13		*	mg/L	0.02	0.05	06/01/11 23:53	aeb
Lead, dissolved	M200.8 ICP-MS	0.0006			mg/L	0.0001	0.0005	06/07/11 2:23	msh
Lithium, dissolved	M200.7 ICP		U		mg/L	0.02	0.1	06/01/11 23:53	aeb
Manganese, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	06/01/11 23:53	aeb
Molybdenum, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/01/11 23:53	aeb
Nickel, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/02/11 13:55	jjc
Selenium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0003	06/07/11 2:23	msh
Silver, dissolved	M200.8 ICP-MS		U	*	mg/L	0.00005	0.0003	06/07/11 2:23	msh
Sodium, dissolved	M200.7 ICP	2.2			mg/L	0.3	2	06/01/11 23:53	aeb
Strontium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/01/11 23:53	aeb
Thallium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	06/07/11 19:41	msh
Titanium, dissolved	M200.7 ICP	0.008	B		mg/L	0.005	0.03	06/01/11 23:53	aeb
Uranium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	06/07/11 2:23	msh
Vanadium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	06/01/11 23:53	aeb
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/01/11 23:53	aeb

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Bromide	M300.0 - Ion Chromatography		U	*	mg/L	0.01	0.05	06/13/11 21:50	ccp
Chloride	M300.0 - Ion Chromatography		U		mg/L	0.5	3	06/08/11 12:30	ccp
Fluoride	M300.0 - Ion Chromatography		U		mg/L	0.1	0.5	06/08/11 12:30	ccp
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved		U	*	mg/L	0.02	0.1	06/02/11 22:20	pjb
Nitrogen, ammonia	M350.1 - Automated Phenate		U	*	mg/L	0.05	0.5	06/04/11 14:18	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)		U	*	mg/L	0.01	0.05	06/02/11 20:11	pjb
Residue, Filterable (TDS) @180C	SM2540C	20			mg/L	10	20	05/26/11 15:38	cra

Nye County Natural Res & Fed Facilities

Project ID: 11-094-LK-(L)
Sample ID: NC-GWE-GF-02D

ACZ Sample ID: **L88158-04**

Date Sampled: 05/24/11 00:00

Date Received: 05/26/11

Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							06/02/11 10:35	tcd

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	0.65			mg/L	0.03	0.2	06/02/11 0:03	aeb
Antimony, dissolved	M200.8 ICP-MS		U	*	mg/L	0.0004	0.002	06/07/11 2:32	msh
Arsenic, dissolved	M200.8 ICP-MS	0.0141			mg/L	0.0005	0.002	06/07/11 2:32	msh
Barium, dissolved	M200.7 ICP	0.072			mg/L	0.003	0.02	06/02/11 0:03	aeb
Beryllium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/02/11 0:03	aeb
Boron, dissolved	M200.7 ICP	0.34			mg/L	0.01	0.05	06/02/11 0:03	aeb
Cadmium, dissolved	M200.7 ICP		U		mg/L	0.005	0.02	06/02/11 0:03	aeb
Chromium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/02/11 0:03	aeb
Cobalt, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/02/11 0:03	aeb
Copper, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/02/11 0:03	aeb
Iron, dissolved	M200.7 ICP	0.40		*	mg/L	0.02	0.05	06/02/11 0:03	aeb
Lead, dissolved	M200.8 ICP-MS	0.0076			mg/L	0.0001	0.0005	06/07/11 2:32	msh
Lithium, dissolved	M200.7 ICP	0.11			mg/L	0.02	0.1	06/02/11 0:03	aeb
Manganese, dissolved	M200.7 ICP	0.020	B		mg/L	0.005	0.03	06/02/11 0:03	aeb
Molybdenum, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/02/11 0:03	aeb
Nickel, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/02/11 13:58	jjc
Selenium, dissolved	M200.8 ICP-MS	0.0003	B		mg/L	0.0001	0.0003	06/07/11 2:32	msh
Silver, dissolved	M200.8 ICP-MS		U	*	mg/L	0.00005	0.0003	06/07/11 2:32	msh
Sodium, dissolved	M200.7 ICP	81.3			mg/L	0.3	2	06/02/11 0:03	aeb
Strontium, dissolved	M200.7 ICP	1.17			mg/L	0.01	0.05	06/02/11 0:03	aeb
Thallium, dissolved	M200.8 ICP-MS	0.0006			mg/L	0.0001	0.0005	06/07/11 19:44	msh
Titanium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	06/02/11 0:03	aeb
Uranium, dissolved	M200.8 ICP-MS	0.0051			mg/L	0.0001	0.0005	06/07/11 2:32	msh
Vanadium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	06/02/11 0:03	aeb
Zinc, dissolved	M200.7 ICP	0.02	B		mg/L	0.01	0.05	06/02/11 0:03	aeb

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Bromide	M300.0 - Ion Chromatography		U	*	mg/L	0.05	0.3	06/13/11 22:32	ccp
Chloride	M300.0 - Ion Chromatography	16		*	mg/L	3	10	06/08/11 13:13	ccp
Fluoride	M300.0 - Ion Chromatography	1.5	B	*	mg/L	0.5	3	06/08/11 13:13	ccp
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	0.04	B	*	mg/L	0.02	0.1	06/02/11 22:22	pjb
Nitrogen, ammonia	M350.1 - Automated Phenate	0.17	B	*	mg/L	0.05	0.5	06/04/11 14:20	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.05	B	*	mg/L	0.01	0.05	06/02/11 20:12	pjb
Residue, Filterable (TDS) @180C	SM2540C	650			mg/L	10	20	05/26/11 15:38	cra

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit, typically 5 times the MDL.
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	LCSWD	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	LFB	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	LFM	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	LFMD	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	LRB	Laboratory Reagent Blank
ICB	Initial Calibration Blank	MS	Matrix Spike
ICV	Initial Calibration Verification standard	MSD	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	PBS	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	PBW	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	PQV	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	SDL	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

- (1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
- (2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
- (3) EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
- (5) EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December 1996.
- (6) Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995 & 20th edition (1998).

Comments

- (1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
- (3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click:

<http://www.acz.com/public/extquallist.pdf>

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L88158**

Project ID: 11-094-LK-(L)

Aluminum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302549													
WG302549ICV	ICV	06/01/11 22:25	II110104-1	2		1.916	mg/L	95.8	95	105			
WG302549ICB	ICB	06/01/11 22:29				U	mg/L		-0.09	0.09			
WG302549LFB	LFB	06/01/11 22:42	II110601-2	1		1.011	mg/L	101.1	85	115			
L88157-05AS	AS	06/01/11 23:36	II110601-2	1	U	1	mg/L	100	85	115			
L88157-05ASD	ASD	06/01/11 23:39	II110601-2	1	U	1.002	mg/L	100.2	85	115	0.2	20	

Antimony, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302834													
WG302834ICV	ICV	06/07/11 1:55	MS110414-1	.02		.02126	mg/L	106.3	90	110			
WG302834ICB	ICB	06/07/11 1:57				U	mg/L		-0.00088	0.00088			
WG302834LFB	LFB	06/07/11 2:03	MS110523-2	.01		.00975	mg/L	97.5	85	115			
L88064-01AS	AS	06/07/11 2:09	MS110523-2	.01	U	.00229	mg/L	22.9	70	130			M2
L88064-01ASD	ASD	06/07/11 2:12	MS110523-2	.01	U	.00188	mg/L	18.8	70	130	19.66	20	M2

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302834													
WG302834ICV	ICV	06/07/11 1:55	MS110414-1	.05		.05232	mg/L	104.6	90	110			
WG302834ICB	ICB	06/07/11 1:57				U	mg/L		-0.0011	0.0011			
WG302834LFB	LFB	06/07/11 2:03	MS110523-2	.05005		.04916	mg/L	98.2	85	115			
L88064-01AS	AS	06/07/11 2:09	MS110523-2	.05005	.0456	.09281	mg/L	94.3	70	130			
L88064-01ASD	ASD	06/07/11 2:12	MS110523-2	.05005	.0456	.09514	mg/L	99	70	130	2.48	20	

Barium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302549													
WG302549ICV	ICV	06/01/11 22:25	II110104-1	2		1.9872	mg/L	99.4	95	105			
WG302549ICB	ICB	06/01/11 22:29				U	mg/L		-0.009	0.009			
WG302549LFB	LFB	06/01/11 22:42	II110601-2	.5		.5009	mg/L	100.2	85	115			
L88157-05AS	AS	06/01/11 23:36	II110601-2	.5	.403	.8979	mg/L	99	85	115			
L88157-05ASD	ASD	06/01/11 23:39	II110601-2	.5	.403	.9001	mg/L	99.4	85	115	0.24	20	

Beryllium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302549													
WG302549ICV	ICV	06/01/11 22:25	II110104-1	2		1.963	mg/L	98.2	95	105			
WG302549ICB	ICB	06/01/11 22:29				U	mg/L		-0.03	0.03			
WG302549LFB	LFB	06/01/11 22:42	II110601-2	.5		.505	mg/L	101	85	115			
L88157-05AS	AS	06/01/11 23:36	II110601-2	.5	U	.507	mg/L	101.4	85	115			
L88157-05ASD	ASD	06/01/11 23:39	II110601-2	.5	U	.508	mg/L	101.6	85	115	0.2	20	

Nye County Natural Res & Fed Facilities
 Project ID: 11-094-LK-(L)

ACZ Project ID: **L88158**

Boron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302549													
WG302549ICV	ICV	06/01/11 22:25	II110104-1	2		2.052	mg/L	102.6	95	105			
WG302549ICB	ICB	06/01/11 22:29				U	mg/L		-0.03	0.03			
WG302549LFB	LFB	06/01/11 22:42	II110601-2	.5005		.51	mg/L	101.9	85	115			
L88157-05AS	AS	06/01/11 23:36	II110601-2	.5005	U	.532	mg/L	106.3	85	115			
L88157-05ASD	ASD	06/01/11 23:39	II110601-2	.5005	U	.532	mg/L	106.3	85	115	0	20	

Bromide

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG300350													
WG300350ICV	ICV	04/22/11 12:11	WI110217-4	4.012		4.116	mg/L	102.6	90	110			
WG300350ICB	ICB	04/22/11 12:32				U	mg/L		-0.03	0.03			
WG302502													
WG302502LFB	LFB	06/01/11 14:21	WI110218-1	1.5		1.381	mg/L	92.1	90	110			
L88127-02DUP	DUP	06/01/11 19:59			U	U	mg/L				0	20	RA
L88127-03AS	AS	06/01/11 20:41	WI110218-1	7.5	U	6.294	mg/L	83.9	90	110			M2
WG303242													
WG303242ICV	ICV	06/13/11 16:06	WI110518-1	4.012		4.076	mg/L	101.6	90	110			
WG303242ICB	ICB	06/13/11 16:27				U	mg/L		-0.03	0.03			
WG303242LFB1	LFB	06/13/11 20:47	WI110218-1	1.5		1.358	mg/L	90.5	90	110			
L88158-02DUP	DUP	06/13/11 21:29			.08	.08	mg/L				0	20	RA
L88158-03AS	AS	06/13/11 22:11	WI110218-1	1.5	U	1.371	mg/L	91.4	90	110			
WG303242LFB2	LFB	06/14/11 6:59	WI110218-1	1.5		1.369	mg/L	91.3	90	110			

Cadmium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302549													
WG302549ICV	ICV	06/01/11 22:25	II110104-1	2		1.9779	mg/L	98.9	95	105			
WG302549ICB	ICB	06/01/11 22:29				U	mg/L		-0.015	0.015			
WG302549LFB	LFB	06/01/11 22:42	II110601-2	.5		.5203	mg/L	104.1	85	115			
L88157-05AS	AS	06/01/11 23:36	II110601-2	.5	U	.5396	mg/L	107.9	85	115			
L88157-05ASD	ASD	06/01/11 23:39	II110601-2	.5	U	.5245	mg/L	104.9	85	115	2.84	20	

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L88158**

Project ID: 11-094-LK-(L)

Chloride

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG300350													
WG300350ICV	ICV	04/22/11 12:11	WI110217-4	20.06		20.24	mg/L	100.9	90	110			
WG300350ICB	ICB	04/22/11 12:32				U	mg/L		-1.5	1.5			
WG302502													
WG302502LFB	LFB	06/01/11 14:21	WI110218-1	30		29.56	mg/L	98.5	90	110			
L88127-02DUP	DUP	06/01/11 19:59			9	8.7	mg/L				3.4	20	RA
L88127-03AS	AS	06/01/11 20:41	WI110218-1	150	7	155.7	mg/L	99.1	90	110			
WG302682													
WG302682ICV	ICV	06/07/11 13:37	WI110518-1	20.06		20.01	mg/L	99.8	90	110			
WG302682ICB	ICB	06/07/11 13:58				U	mg/L		-1.5	1.5			
WG302682LFB	LFB	06/08/11 11:27	WI110218-1	30		29.46	mg/L	98.2	90	110			
L88158-02DUP	DUP	06/08/11 12:09			16.8	16.69	mg/L				0.7	20	
L88158-03AS	AS	06/08/11 12:51	WI110218-1	30	U	29.47	mg/L	98.2	90	110			

Chromium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302549													
WG302549ICV	ICV	06/01/11 22:25	II110104-1	2		2.013	mg/L	100.7	95	105			
WG302549ICB	ICB	06/01/11 22:29				U	mg/L		-0.03	0.03			
WG302549LFB	LFB	06/01/11 22:42	II110601-2	.5		.526	mg/L	105.2	85	115			
L88157-05AS	AS	06/01/11 23:36	II110601-2	.5	U	.555	mg/L	111	85	115			
L88157-05ASD	ASD	06/01/11 23:39	II110601-2	.5	U	.544	mg/L	108.8	85	115	2	20	

Cobalt, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302549													
WG302549ICV	ICV	06/01/11 22:25	II110104-1	2		1.944	mg/L	97.2	95	105			
WG302549ICB	ICB	06/01/11 22:29				U	mg/L		-0.03	0.03			
WG302549LFB	LFB	06/01/11 22:42	II110601-2	.5		.501	mg/L	100.2	85	115			
L88157-05AS	AS	06/01/11 23:36	II110601-2	.5	U	.514	mg/L	102.8	85	115			
L88157-05ASD	ASD	06/01/11 23:39	II110601-2	.5	U	.506	mg/L	101.2	85	115	1.57	20	

Copper, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302549													
WG302549ICV	ICV	06/01/11 22:25	II110104-1	2		1.907	mg/L	95.4	95	105			
WG302549ICB	ICB	06/01/11 22:29				U	mg/L		-0.03	0.03			
WG302549LFB	LFB	06/01/11 22:42	II110601-2	.5		.497	mg/L	99.4	85	115			
L88157-05AS	AS	06/01/11 23:36	II110601-2	.5	U	.486	mg/L	97.2	85	115			
L88157-05ASD	ASD	06/01/11 23:39	II110601-2	.5	U	.487	mg/L	97.4	85	115	0.21	20	

Nye County Natural Res & Fed Facilities
 Project ID: 11-094-LK-(L)

ACZ Project ID: **L88158**

Fluoride

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG300350													
WG300350ICV	ICV	04/22/11 12:11	WI110217-4	4		4.16	mg/L	104	90	110			
WG300350ICB	ICB	04/22/11 12:32				U	mg/L		-0.3	0.3			
WG302502													
WG302502LFB	LFB	06/01/11 14:21	WI110218-1	1.5		1.38	mg/L	92	90	110			
L88127-02DUP	DUP	06/01/11 19:59			1.3	1.28	mg/L				1.6	20	RA
L88127-03AS	AS	06/01/11 20:41	WI110218-1	7.5	1.6	9.07	mg/L	99.6	90	110			
WG302682													
WG302682ICV	ICV	06/07/11 13:37	WI110518-1	4		4.11	mg/L	102.8	90	110			
WG302682ICB	ICB	06/07/11 13:58				U	mg/L		-0.3	0.3			
WG302682LFB	LFB	06/08/11 11:27	WI110218-1	1.5		1.45	mg/L	96.7	90	110			
L88158-02DUP	DUP	06/08/11 12:09			1.8	1.76	mg/L				2.2	20	
L88158-03AS	AS	06/08/11 12:51	WI110218-1	1.5	U	1.47	mg/L	98	90	110			

Iron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302549													
WG302549ICV	ICV	06/01/11 22:25	II110104-1	2		2	mg/L	100	95	105			
WG302549ICB	ICB	06/01/11 22:29				U	mg/L		-0.06	0.06			
WG302549LFB	LFB	06/01/11 22:42	II110601-2	1		1.069	mg/L	106.9	85	115			
L88157-05AS	AS	06/01/11 23:36	II110601-2	1	4.68	5.516	mg/L	83.6	85	115			M3
L88157-05ASD	ASD	06/01/11 23:39	II110601-2	1	4.68	5.419	mg/L	73.9	85	115	1.77	20	M3

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302834													
WG302834ICV	ICV	06/07/11 1:55	MS110414-1	.05		.05135	mg/L	102.7	90	110			
WG302834ICB	ICB	06/07/11 1:57				U	mg/L		-0.00022	0.00022			
WG302834LFB	LFB	06/07/11 2:03	MS110523-2	.05005		.05031	mg/L	100.5	85	115			
L88064-01AS	AS	06/07/11 2:09	MS110523-2	.05005	.0042	.05093	mg/L	93.4	70	130			
L88064-01ASD	ASD	06/07/11 2:12	MS110523-2	.05005	.0042	.0525	mg/L	96.5	70	130	3.04	20	

Lithium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302549													
WG302549ICV	ICV	06/01/11 22:25	II110104-1	2		1.914	mg/L	95.7	95	105			
WG302549ICB	ICB	06/01/11 22:29				U	mg/L		-0.06	0.06			
WG302549LFB	LFB	06/01/11 22:42	II110601-2	1		.961	mg/L	96.1	85	115			
L88157-05AS	AS	06/01/11 23:36	II110601-2	1	.02	.987	mg/L	96.7	85	115			
L88157-05ASD	ASD	06/01/11 23:39	II110601-2	1	.02	.988	mg/L	96.8	85	115	0.1	20	

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L88158**

Project ID: 11-094-LK-(L)

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302549													
WG302549ICV	ICV	06/01/11 22:25	II110104-1	2		1.9386	mg/L	96.9	95	105			
WG302549ICB	ICB	06/01/11 22:29				U	mg/L		-0.015	0.015			
WG302549LFB	LFB	06/01/11 22:42	II110601-2	.5		.5362	mg/L	107.2	85	115			
L88157-05AS	AS	06/01/11 23:36	II110601-2	.5	.44	.9457	mg/L	101.1	85	115			
L88157-05ASD	ASD	06/01/11 23:39	II110601-2	.5	.44	.9407	mg/L	100.1	85	115	0.53	20	

Molybdenum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302549													
WG302549ICV	ICV	06/01/11 22:25	II110104-1	2		2.002	mg/L	100.1	95	105			
WG302549ICB	ICB	06/01/11 22:29				.012	mg/L		-0.03	0.03			
WG302549LFB	LFB	06/01/11 22:42	II110601-2	.5		.511	mg/L	102.2	85	115			
L88157-05AS	AS	06/01/11 23:36	II110601-2	.5	U	.505	mg/L	101	85	115			
L88157-05ASD	ASD	06/01/11 23:39	II110601-2	.5	U	.487	mg/L	97.4	85	115	3.63	20	

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302611													
WG302611ICV	ICV	06/02/11 12:36	II110104-1	2.002		1.996	mg/L	99.7	95	105			
WG302611ICB	ICB	06/02/11 12:40				.014	mg/L		-0.03	0.03			
WG302611LFB	LFB	06/02/11 12:52	II110601-2	.5		.522	mg/L	104.4	85	115			
L88158-01AS	AS	06/02/11 13:45	II110601-2	.5	U	.541	mg/L	108.2	85	115			
L88158-01ASD	ASD	06/02/11 13:49	II110601-2	.5	U	.545	mg/L	109	85	115	0.74	20	

Nitrate/Nitrite as N

M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302675													
WG302675ICV	ICV	06/02/11 19:22	WI110330-1	2.416		2.366	mg/L	97.9	90	110			
WG302675ICB	ICB	06/02/11 19:23				U	mg/L		-0.06	0.06			
WG302678													
WG302678LFB1	LFB	06/02/11 21:30	WI110322-5	2		1.984	mg/L	99.2	90	110			
WG302678LFB2	LFB	06/02/11 22:05	WI110322-5	2		1.912	mg/L	95.6	90	110			
L88156-06AS	AS	06/02/11 22:07	WI110322-5	2	.28	2.302	mg/L	101.1	90	110			
L88157-01DUP	DUP	06/02/11 22:10			.05	.045	mg/L				10.5	20	RA

Nitrogen, ammonia

M350.1 - Automated Phenate

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302762													
WG302762ICV	ICV	06/04/11 13:57	WI101121-1	1.004		1.03	mg/L	102.6	90	110			
WG302762ICB	ICB	06/04/11 14:01				U	mg/L		-0.15	0.15			
WG302762LFB1	LFB	06/04/11 14:02	WI110211-5	1		1.064	mg/L	106.4	90	110			
L88064-01AS	AS	06/04/11 14:04	WI110211-5	1	U	.994	mg/L	99.4	90	110			
L88064-02DUP	DUP	06/04/11 14:06			U	.064	mg/L				200	20	RA
L88158-03AS	AS	06/04/11 14:19	WI110211-5	1	U	1.032	mg/L	103.2	90	110			
L88158-04DUP	DUP	06/04/11 14:21			.17	.143	mg/L				17.3	20	RA
WG302762LFB2	LFB	06/04/11 14:33	WI110211-5	1		1.07	mg/L	107	90	110			

Nye County Natural Res & Fed Facilities
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ACZ Project ID: **L88158**

Phosphorus, total M365.1 - Auto Ascorbic Acid (digest)

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302672													
WG302672ICV	ICV	06/02/11 17:11	WI110511-3	.65228		.634	mg/L	97.2	90	110			
WG302672ICB	ICB	06/02/11 17:14				U	mg/L		-0.03	0.03			
WG302676													
WG302613LRB	LRB	06/02/11 19:03				U	mg/L		-0.03	0.03			
WG302613LFB	LFB	06/02/11 19:05	WI110525-2	.5		.47	mg/L	94	90	110			
WG302614LRB	LRB	06/02/11 19:37				U	mg/L		-0.03	0.03			
WG302614LFB	LFB	06/02/11 19:38	WI110525-2	.5		.475	mg/L	95	90	110			
L88152-03DUP	DUP	06/02/11 20:01			.05	.064	mg/L				24.6	20	RA
L88151-04LFM	LFM	06/02/11 21:22	WI110525-2	.5	4.6	5.01	mg/L	82	90	110			M3

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302278													
WG302278PBW	PBW	05/26/11 15:30				U	mg/L		-20	20			
WG302278LCSW	LCSW	05/26/11 15:30	PCN36813	260		260	mg/L	100	80	120			
L88158-04DUP	DUP	05/26/11 15:38			650	642	mg/L				1.2	20	

Selenium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302834													
WG302834ICV	ICV	06/07/11 1:55	MS110414-1	.05		.05336	mg/L	106.7	90	110			
WG302834ICB	ICB	06/07/11 1:57				U	mg/L		-0.00022	0.00022			
WG302834LFB	LFB	06/07/11 2:03	MS110523-2	.05005		.04744	mg/L	94.8	85	115			
L88064-01AS	AS	06/07/11 2:09	MS110523-2	.05005	.0128	.05742	mg/L	89.2	70	130			
L88064-01ASD	ASD	06/07/11 2:12	MS110523-2	.05005	.0128	.05986	mg/L	94	70	130	4.16	20	

Silver, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302834													
WG302834ICV	ICV	06/07/11 1:55	MS110414-1	.01996		.02085	mg/L	104.5	90	110			
WG302834ICB	ICB	06/07/11 1:57				U	mg/L		-0.00011	0.00011			
WG302834LFB	LFB	06/07/11 2:03	MS110523-2	.01002		.009823	mg/L	98	85	115			
L88064-01AS	AS	06/07/11 2:09	MS110523-2	.01002	U	.003344	mg/L	33.4	70	130			M2 ZA
L88064-01ASD	ASD	06/07/11 2:12	MS110523-2	.01002	U	.00316	mg/L	31.5	70	130	5.66	20	M2 ZA

Sodium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302549													
WG302549ICV	ICV	06/01/11 22:25	II110104-1	100		100.21	mg/L	100.2	95	105			
WG302549ICB	ICB	06/01/11 22:29				U	mg/L		-0.9	0.9			
WG302549LFB	LFB	06/01/11 22:42	II110601-2	100.018		104.19	mg/L	104.2	85	115			
L88157-05AS	AS	06/01/11 23:36	II110601-2	100.018	32.8	136.39	mg/L	103.6	85	115			
L88157-05ASD	ASD	06/01/11 23:39	II110601-2	100.018	32.8	136.44	mg/L	103.6	85	115	0.04	20	

Nye County Natural Res & Fed Facilities
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ACZ Project ID: **L88158**

Strontium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302549													
WG302549ICV	ICV	06/01/11 22:25	II110104-1	2		1.972	mg/L	98.6	95	105			
WG302549ICB	ICB	06/01/11 22:29				U	mg/L		-0.03	0.03			
WG302549LFB	LFB	06/01/11 22:42	II110601-2	.5		.542	mg/L	108.4	85	115			
L88157-05AS	AS	06/01/11 23:36	II110601-2	.5	1.26	1.757	mg/L	99.4	85	115			
L88157-05ASD	ASD	06/01/11 23:39	II110601-2	.5	1.26	1.756	mg/L	99.2	85	115	0.06	20	

Thallium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302867													
WG302867ICV	ICV	06/07/11 19:15	MS110414-1	.05		.05445	mg/L	108.9	90	110			
WG302867ICB	ICB	06/07/11 19:18				U	mg/L		-0.00022	0.00022			
WG302867LFB	LFB	06/07/11 19:24	MS110523-2	.0501		.05347	mg/L	106.7	85	115			
L88064-02AS	AS	06/07/11 19:30	MS110523-2	5.01	.04	5.268	mg/L	104.4	70	130			
L88064-02ASD	ASD	06/07/11 19:33	MS110523-2	5.01	.04	5.288	mg/L	104.8	70	130	0.38	20	

Titanium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302549													
WG302549ICV	ICV	06/01/11 22:25	II110104-1	2		1.9708	mg/L	98.5	95	105			
WG302549ICB	ICB	06/01/11 22:29				U	mg/L		-0.015	0.015			
WG302549LFB	LFB	06/01/11 22:42	II110601-2	1		1.0142	mg/L	101.4	85	115			
L88157-05AS	AS	06/01/11 23:36	II110601-2	1	U	1.0188	mg/L	101.9	85	115			
L88157-05ASD	ASD	06/01/11 23:39	II110601-2	1	U	1.0221	mg/L	102.2	85	115	0.32	20	

Uranium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302834													
WG302834ICV	ICV	06/07/11 1:55	MS110414-1	.05		.05271	mg/L	105.4	90	110			
WG302834ICB	ICB	06/07/11 1:57				U	mg/L		-0.00022	0.00022			
WG302834LFB	LFB	06/07/11 2:03	MS110523-2	.05		.04988	mg/L	99.8	85	115			
L88064-01AS	AS	06/07/11 2:09	MS110523-2	.05	.0873	.1354	mg/L	96.2	70	130			
L88064-01ASD	ASD	06/07/11 2:12	MS110523-2	.05	.0873	.1368	mg/L	99	70	130	1.03	20	

Vanadium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302549													
WG302549ICV	ICV	06/01/11 22:25	II110104-1	2		2.0672	mg/L	103.4	95	105			
WG302549ICB	ICB	06/01/11 22:29				U	mg/L		-0.015	0.015			
WG302549LFB	LFB	06/01/11 22:42	II110601-2	.5		.5433	mg/L	108.7	85	115			
L88157-05AS	AS	06/01/11 23:36	II110601-2	.5	U	.5526	mg/L	110.5	85	115			
L88157-05ASD	ASD	06/01/11 23:39	II110601-2	.5	U	.5483	mg/L	109.7	85	115	0.78	20	

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L88158**

Project ID: 11-094-LK-(L)

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302549													
WG302549ICV	ICV	06/01/11 22:25	II110104-1	2		1.942	mg/L	97.1	95	105			
WG302549ICB	ICB	06/01/11 22:29				U	mg/L		-0.03	0.03			
WG302549LFB	LFB	06/01/11 22:42	II110601-2	.5		.51	mg/L	102	85	115			
L88157-05AS	AS	06/01/11 23:36	II110601-2	.5	U	.516	mg/L	103.2	85	115			
L88157-05ASD	ASD	06/01/11 23:39	II110601-2	.5	U	.511	mg/L	102.2	85	115	0.97	20	

Nye County Natural Res & Fed FacilitiesACZ Project ID: **L88158**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L88158-01	WG302834	Antimony, dissolved	M200.8 ICP-MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG302549	Iron, dissolved	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG302834	Silver, dissolved	M200.8 ICP-MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M200.8 ICP-MS	ZA	Poor recovery for Silver quality control is accepted due to low Silver solubility in samples, digestates, or extracts that do not contain sufficient Hydrochloric acid.
	WG302502	Bromide	M300.0 - Ion Chromatography	D1	Sample required dilution due to matrix.
			M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
			M300.0 - Ion Chromatography	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
		Chloride	M300.0 - Ion Chromatography	D1	Sample required dilution due to matrix.
			M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
		Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
			M300.0 - Ion Chromatography	D1	Sample required dilution due to matrix.
	WG302678	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG302762	Nitrogen, ammonia	M350.1 - Automated Phenate	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG302676	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
			M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L88158**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L88158-02	WG302834	Antimony, dissolved	M200.8 ICP-MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG302549	Iron, dissolved	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG302834	Silver, dissolved	M200.8 ICP-MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M200.8 ICP-MS	ZA	Poor recovery for Silver quality control is accepted due to low Silver solubility in samples, digestates, or extracts that do not contain sufficient Hydrochloric acid.
	WG303242	Bromide	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG302678	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG302762	Nitrogen, ammonia	M350.1 - Automated Phenate	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG302676	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
			M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L88158-03	WG302834	Antimony, dissolved	M200.8 ICP-MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG302549	Iron, dissolved	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG302834	Silver, dissolved	M200.8 ICP-MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M200.8 ICP-MS	ZA	Poor recovery for Silver quality control is accepted due to low Silver solubility in samples, digestates, or extracts that do not contain sufficient Hydrochloric acid.
	WG303242	Bromide	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG302678	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG302762	Nitrogen, ammonia	M350.1 - Automated Phenate	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG302676	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
			M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

Nye County Natural Res & Fed FacilitiesACZ Project ID: **L88158**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L88158-04	WG302834	Antimony, dissolved	M200.8 ICP-MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG302549	Iron, dissolved	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG302834	Silver, dissolved	M200.8 ICP-MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M200.8 ICP-MS	ZA	Poor recovery for Silver quality control is accepted due to low Silver solubility in samples, digestates, or extracts that do not contain sufficient Hydrochloric acid.
	WG303242	Bromide	M300.0 - Ion Chromatography	D1	Sample required dilution due to matrix.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG302682	Chloride	M300.0 - Ion Chromatography	D1	Sample required dilution due to matrix.
		Fluoride	M300.0 - Ion Chromatography	D1	Sample required dilution due to matrix.
	WG302678	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG302762	Nitrogen, ammonia	M350.1 - Automated Phenate	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG302676	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
			M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L88158**

No certification qualifiers associated with this analysis

Nye County Natural Res & Fed Facilities

ACZ Project ID: L88158

Date Received: 05/26/2011 10:34

Received By: ksj

Date Printed: 5/26/2011

Receipt Verification

	YES	NO	NA
1) Does this project require special handling procedures such as CLP protocol?			X
2) Are the custody seals on the cooler intact?			X
3) Are the custody seals on the sample containers intact?			X
4) Is there a Chain of Custody or other directive shipping papers present?	X		
5) Is the Chain of Custody complete?	X		
6) Is the Chain of Custody in agreement with the samples received?	X		
7) Is there enough sample for all requested analyses?	X		
8) Are all samples within holding times for requested analyses?	X		
9) Were all sample containers received intact?	X		
10) Are the temperature blanks present?			X
11) Are the trip blanks (VOA and/or Cyanide) present?			X
12) Are samples requiring no headspace, headspace free?			X
13) Do the samples that require a Foreign Soils Permit have one?			X

Exceptions: If you answered no to any of the above questions, please describe

N/A

Contact (For any discrepancies, the client must be contacted)

N/A

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/hr)
2759	4.8	17

Client must contact ACZ Project Manager if analysis should not proceed for samples received outside of thermal preservation acceptance criteria.

Notes

Nye County Natural Res & Fed Facilities

ACZ Project ID: L88158

Date Received: 05/26/2011 10:34

Received By: ksJ

Date Printed: 5/26/2011

Sample Container Preservation

SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y < 2	YG < 2	B < 2	O < 2	T > 12	N/A	RAD	ID
L88158-01	NC-GWE-OV-2		Y		Y							<input type="checkbox"/>
L88158-02	NC-GWE-GF-3PA		Y		Y							<input type="checkbox"/>
L88158-03	NC-GWE-GF-01B		Y		Y							<input type="checkbox"/>
L88158-04	NC-GWE-GF-02D		Y		Y							<input type="checkbox"/>

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
B	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
O	Raw/Sulfuric	ORANGE	pH must be < 2
P	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Y	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 µR/hr

* pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By: ksj

Attachment A
Chain of Custody Form

188158



Form TP 11.1-1 Rev 0

11-20-08

L88158 Chain of Custody Form
County Nuclear Waste Repository Project Office

Water Sample Chain of Custody Form

Sample Number	Well Name or Location	Date Collected	Date Shipped	Analysis	Number of Containers
GWS0280	NC-GWE-OV-2	5/19/2011	5/25/2011	Alkalinity	1 - 60 ml
				Raw, Wet Chemistry	1 - 500 ml
				Filtered, Wet Chemistry	1 - 250 ml
				Filtered, HNO3, Metals	1 - 250 ml
				H2SO4, N-NH3, NO3-NO2, Total P	1 - 250 ml
GWS0281	NC-GWE-GF-3PA	5/24/2011	5/25/2011	Alkalinity	1 - 60 ml
				Raw, Wet Chemistry	1 - 500 ml
				Filtered, Wet Chemistry	1 - 250 ml
				Filtered, HNO3, Metals	1 - 250 ml
				H2SO4, N-NH3, NO3-NO2, Total P	1 - 250 ml
GWS0282	NC-GWE-GF-01B	5/24/2011	5/25/2011	Alkalinity	1 - 60 ml
				Raw, Wet Chemistry	1 - 500 ml
				Filtered, Wet Chemistry	1 - 250 ml
				Filtered, HNO3, Metals	1 - 250 ml
				H2SO4, N-NH3, NO3-NO2, Total P	1 - 250 ml
GWS0283	NC-GWE-GF-02D	5/24/2011	5/25/2011	Alkalinity	1 - 60 ml
				Raw, Wet Chemistry	1 - 500 ml
				Filtered, Wet Chemistry	1 - 250 ml
				Filtered, HNO3, Metals	1 - 250 ml
				H2SO4, N-NH3, NO3-NO2, Total P	1 - 250 ml

Recipient: Please acknowledge receipt of this shipment and return completed within 10 working days to:

Nye County Nuclear Waste Repository Project Office
Quality Assurance Records Center (QARC)
2101 E. Calvada Blvd, Suite 100
Pahrump, NV 89048
775-727-7727

Person Releasing Custody for Nye County :

Date/Time: 5/25/11 1000

Lab Name:	ACZ
Recipient:	Tony Antalek
Telephone	800-334-5493
Address	2773 Downhill Drive Steamboat Springs, CO 80487

Person Accepting Custody:

Date/Time: 5-26-11 10:34

Checked By

Date:



Nye County
Nuclear Waste Repository Project Office
2101 E. Calvada Blvd. Ste. #100 · Pahrump, Nevada 89060
(775) 727-7727 · Fax (775) 727-7919

11-094-LK-(L)

May 25, 2011

ACZ Laboratories
Tony Antalek
2773 Downhill Drive
Steamboat Springs, CO 80487

Water Sample Analyses for the Nye County Groundwater Evaluation Program

Dear Mr. Antalek:

Enclosed are the ground water samples collected at Nye County wells NC-GWE-OV-2, -GF-3PA, GF-01B, and -GF-02D. These samples are to be analyzed under quotation "NC-GWE-WELLS-2010". This is the only shipment under this letter.

Please sign and date the attached Chain of Custody form and return to my attention at the address listed above. When the analyses have been completed, please send a copy of the final report to the same address.

If you have any questions regarding the samples or analyses, please contact me by phone at (775) 727-7727, fax at (775) 727-7919, or email at lkryder@co.nye.nv.us.

Respectfully,
NYE COUNTY, NEVADA

A handwritten signature in black ink, appearing to read "Levi Kryder", is written over a horizontal line.

Levi Kryder
Geoscience Manager

Enclosures: as stated

LK/cs

June 21, 2011

Report to:

Roger Mcrae
Nye County Natural Res & Fed Facilities
2101 E. Calvada Blvd. Suite 100
Pahrump, NV 89048

Bill to:

Levi Kryder
Nye County Natural Res & Fed Facilities
2101 E. Calvada Blvd. Suite 100
Pahrump, NV 89048

cc: Levi Kryder

Project ID: 11-095-LK-(L)

ACZ Project ID: L88285

Roger Mcrae:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on June 02, 2011. This project has been assigned to ACZ's project number, L88285. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L88285. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after July 21, 2011. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than \$10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.



Tony Antalek has reviewed and
approved this report.



Nye County Natural Res & Fed FacilitiesProject ID: 11-095-LK-(L)
Sample ID: NC-GWE-GF-4PAACZ Sample ID: **L88285-01**

Date Sampled: 05/26/11 00:00

Date Received: 06/02/11

Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							06/10/11 13:17	mpb

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP		U		mg/L	0.03	0.2	06/07/11 21:31	jjc
Antimony, dissolved	M200.8 ICP-MS		U		mg/L	0.0004	0.002	06/09/11 18:08	msh
Arsenic, dissolved	M200.8 ICP-MS	0.0094			mg/L	0.0005	0.002	06/09/11 18:08	msh
Barium, dissolved	M200.7 ICP	0.057			mg/L	0.003	0.02	06/07/11 21:31	jjc
Beryllium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/07/11 21:31	jjc
Boron, dissolved	M200.7 ICP	0.34			mg/L	0.01	0.05	06/07/11 21:31	jjc
Cadmium, dissolved	M200.7 ICP		U		mg/L	0.005	0.02	06/07/11 21:31	jjc
Chromium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/08/11 11:21	aeb
Cobalt, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/07/11 21:31	jjc
Copper, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/07/11 21:31	jjc
Iron, dissolved	M200.7 ICP		U		mg/L	0.02	0.05	06/07/11 21:31	jjc
Lead, dissolved	M200.8 ICP-MS	0.0012			mg/L	0.0001	0.0005	06/09/11 18:08	msh
Lithium, dissolved	M200.7 ICP	0.08	B		mg/L	0.02	0.1	06/07/11 21:31	jjc
Manganese, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	06/07/11 21:31	jjc
Molybdenum, dissolved	M200.7 ICP	0.02	B		mg/L	0.01	0.05	06/07/11 21:31	jjc
Nickel, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/07/11 21:31	jjc
Selenium, dissolved	M200.8 ICP-MS	0.0002	B		mg/L	0.0001	0.0003	06/10/11 19:08	msh
Silver, dissolved	M200.8 ICP-MS		U		mg/L	0.00005	0.0003	06/10/11 19:08	msh
Sodium, dissolved	M200.7 ICP	66.5			mg/L	0.3	2	06/07/11 21:31	jjc
Strontium, dissolved	M200.7 ICP	0.88			mg/L	0.01	0.05	06/07/11 21:31	jjc
Thallium, dissolved	M200.8 ICP-MS	0.0003	B		mg/L	0.0001	0.0005	06/09/11 18:08	msh
Titanium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	06/07/11 21:31	jjc
Uranium, dissolved	M200.8 ICP-MS	0.0022			mg/L	0.0001	0.0005	06/10/11 19:08	msh
Vanadium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	06/07/11 21:31	jjc
Zinc, dissolved	M200.7 ICP	0.06			mg/L	0.01	0.05	06/07/11 21:31	jjc

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Bromide	M300.0 - Ion Chromatography	0.09		*	mg/L	0.01	0.05	06/14/11 19:58	ccp
Chloride	M300.0 - Ion Chromatography	20.4		*	mg/L	0.5	3	06/14/11 19:58	ccp
Fluoride	M300.0 - Ion Chromatography	1.7		*	mg/L	0.1	0.5	06/14/11 19:58	ccp
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved		U	*	mg/L	0.02	0.1	06/09/11 21:53	pjb
Nitrogen, ammonia	M350.1 - Automated Phenate		U	*	mg/L	0.05	0.5	06/08/11 16:18	lhb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.01	B	*	mg/L	0.01	0.05	06/10/11 16:06	lhb
Residue, Filterable (TDS) @180C	SM2540C	400			mg/L	10	20	06/02/11 15:41	ndm

Nye County Natural Res & Fed Facilities

Project ID: 11-095-LK-(L)

Sample ID: NC-GWE-GF-4

ACZ Sample ID: **L88285-02**

Date Sampled: 05/31/11 00:00

Date Received: 06/02/11

Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							06/10/11 13:25	mpb

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP		U		mg/L	0.03	0.2	06/07/11 21:35	jjc
Antimony, dissolved	M200.8 ICP-MS		U		mg/L	0.0004	0.002	06/09/11 18:11	msh
Arsenic, dissolved	M200.8 ICP-MS	0.0084			mg/L	0.0005	0.002	06/09/11 18:11	msh
Barium, dissolved	M200.7 ICP	0.053			mg/L	0.003	0.02	06/07/11 21:35	jjc
Beryllium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/07/11 21:35	jjc
Boron, dissolved	M200.7 ICP	0.37			mg/L	0.01	0.05	06/07/11 21:35	jjc
Cadmium, dissolved	M200.7 ICP		U		mg/L	0.005	0.02	06/07/11 21:35	jjc
Chromium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/08/11 11:24	aeb
Cobalt, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/07/11 21:35	jjc
Copper, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/07/11 21:35	jjc
Iron, dissolved	M200.7 ICP		U		mg/L	0.02	0.05	06/07/11 21:35	jjc
Lead, dissolved	M200.8 ICP-MS	0.0025			mg/L	0.0001	0.0005	06/09/11 18:11	msh
Lithium, dissolved	M200.7 ICP	0.08	B		mg/L	0.02	0.1	06/07/11 21:35	jjc
Manganese, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	06/07/11 21:35	jjc
Molybdenum, dissolved	M200.7 ICP	0.01	B		mg/L	0.01	0.05	06/07/11 21:35	jjc
Nickel, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/07/11 21:35	jjc
Selenium, dissolved	M200.8 ICP-MS	0.0002	B		mg/L	0.0001	0.0003	06/10/11 19:11	msh
Silver, dissolved	M200.8 ICP-MS		U		mg/L	0.00005	0.0003	06/10/11 19:11	msh
Sodium, dissolved	M200.7 ICP	70.2			mg/L	0.3	2	06/07/11 21:35	jjc
Strontium, dissolved	M200.7 ICP	0.84			mg/L	0.01	0.05	06/07/11 21:35	jjc
Thallium, dissolved	M200.8 ICP-MS	0.0002	B		mg/L	0.0001	0.0005	06/09/11 18:11	msh
Titanium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	06/07/11 21:35	jjc
Uranium, dissolved	M200.8 ICP-MS	0.0022			mg/L	0.0001	0.0005	06/10/11 19:11	msh
Vanadium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	06/07/11 21:35	jjc
Zinc, dissolved	M200.7 ICP	0.04	B		mg/L	0.01	0.05	06/07/11 21:35	jjc

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Bromide	M300.0 - Ion Chromatography	0.09		*	mg/L	0.01	0.05	06/14/11 20:19	ccp
Chloride	M300.0 - Ion Chromatography	21.2		*	mg/L	0.5	3	06/14/11 20:19	ccp
Fluoride	M300.0 - Ion Chromatography	1.6		*	mg/L	0.1	0.5	06/14/11 20:19	ccp
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved		U	*	mg/L	0.02	0.1	06/09/11 21:55	pjb
Nitrogen, ammonia	M350.1 - Automated Phenate		U	*	mg/L	0.05	0.5	06/08/11 16:19	lhb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)		U	*	mg/L	0.01	0.05	06/10/11 16:07	lhb
Residue, Filterable (TDS) @180C	SM2540C	420			mg/L	10	20	06/02/11 15:43	ndm

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit, typically 5 times the MDL.
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	LCSWD	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	LFB	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	LFM	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	LFMD	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	LRB	Laboratory Reagent Blank
ICB	Initial Calibration Blank	MS	Matrix Spike
ICV	Initial Calibration Verification standard	MSD	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	PBS	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	PBW	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	PQV	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	SDL	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

- (1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
- (2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
- (3) EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
- (5) EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December 1996.
- (6) Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995 & 20th edition (1998).

Comments

- (1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
- (3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click:

<http://www.acz.com/public/extquallist.pdf>

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L88285**

Project ID: 11-095-LK-(L)

Aluminum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302872													
WG302872ICV	ICV	06/07/11 19:40	II110104-1	2		1.929	mg/L	96.5	95	105			
WG302872ICB	ICB	06/07/11 19:45				U	mg/L		-0.09	0.09			
WG302872LFB	LFB	06/07/11 19:58	II110601-2	1		.994	mg/L	99.4	85	115			
L88280-03AS	AS	06/07/11 20:53	II110601-2	1	U	1.036	mg/L	103.6	85	115			
L88280-03ASD	ASD	06/07/11 20:57	II110601-2	1	U	1.004	mg/L	100.4	85	115	3.14	20	

Antimony, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303091													
WG303091ICV	ICV	06/09/11 16:55	MS110414-1	.02		.02054	mg/L	102.7	90	110			
WG303091ICB	ICB	06/09/11 16:58				.00058	mg/L		-0.00088	0.00088			
WG303091LFB	LFB	06/09/11 17:04	MS110523-2	.01		.01013	mg/L	101.3	85	115			
L88283-03AS	AS	06/09/11 17:51	MS110523-2	.01	U	.0091	mg/L	91	70	130			
L88283-03ASD	ASD	06/09/11 17:53	MS110523-2	.01	U	.00964	mg/L	96.4	70	130	5.76	20	

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303091													
WG303091ICV	ICV	06/09/11 16:55	MS110414-1	.05		.04891	mg/L	97.8	90	110			
WG303091ICB	ICB	06/09/11 16:58				U	mg/L		-0.0011	0.0011			
WG303091LFB	LFB	06/09/11 17:04	MS110523-2	.05005		.04873	mg/L	97.4	85	115			
L88283-03AS	AS	06/09/11 17:51	MS110523-2	.05005	.0007	.04841	mg/L	95.3	70	130			
L88283-03ASD	ASD	06/09/11 17:53	MS110523-2	.05005	.0007	.04979	mg/L	98.1	70	130	2.81	20	

Barium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302872													
WG302872ICV	ICV	06/07/11 19:40	II110104-1	2		1.9943	mg/L	99.7	95	105			
WG302872ICB	ICB	06/07/11 19:45				U	mg/L		-0.009	0.009			
WG302872LFB	LFB	06/07/11 19:58	II110601-2	.5		.4856	mg/L	97.1	85	115			
L88280-03AS	AS	06/07/11 20:53	II110601-2	.5	.079	.5827	mg/L	100.7	85	115			
L88280-03ASD	ASD	06/07/11 20:57	II110601-2	.5	.079	.5811	mg/L	100.4	85	115	0.27	20	

Beryllium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302872													
WG302872ICV	ICV	06/07/11 19:40	II110104-1	2		1.991	mg/L	99.6	95	105			
WG302872ICB	ICB	06/07/11 19:45				U	mg/L		-0.03	0.03			
WG302872LFB	LFB	06/07/11 19:58	II110601-2	.5		.5	mg/L	100	85	115			
L88280-03AS	AS	06/07/11 20:53	II110601-2	.5	U	.524	mg/L	104.8	85	115			
L88280-03ASD	ASD	06/07/11 20:57	II110601-2	.5	U	.521	mg/L	104.2	85	115	0.57	20	

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Boron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302872													
WG302872ICV	ICV	06/07/11 19:40	II110104-1	2		2.067	mg/L	103.4	95	105			
WG302872ICB	ICB	06/07/11 19:45				U	mg/L		-0.03	0.03			
WG302872LFB	LFB	06/07/11 19:58	II110601-2	.5005		.522	mg/L	104.3	85	115			
L88280-03AS	AS	06/07/11 20:53	II110601-2	.5005	.02	.554	mg/L	106.7	85	115			
L88280-03ASD	ASD	06/07/11 20:57	II110601-2	.5005	.02	.551	mg/L	106.1	85	115	0.54	20	

Bromide

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303242													
WG303242ICV	ICV	06/13/11 16:06	WI110518-1	4.012		4.076	mg/L	101.6	90	110			
WG303242ICB	ICB	06/13/11 16:27				U	mg/L		-0.03	0.03			
WG303244													
WG303244LFB1	LFB	06/14/11 15:24	WI110218-1	1.5		1.357	mg/L	90.5	90	110			
L88279-01DUP	DUP	06/14/11 16:06			U	U	mg/L				0	20	RA
L88279-02AS	AS	06/14/11 16:48	WI110218-1	1.5	U	1.21	mg/L	80.7	90	110			M2
WG303244LFB2	LFB	06/15/11 1:36	WI110218-1	1.5		1.347	mg/L	89.8	90	110			

Cadmium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302872													
WG302872ICV	ICV	06/07/11 19:40	II110104-1	2		1.9756	mg/L	98.8	95	105			
WG302872ICB	ICB	06/07/11 19:45				U	mg/L		-0.015	0.015			
WG302872LFB	LFB	06/07/11 19:58	II110601-2	.5		.4942	mg/L	98.8	85	115			
L88280-03AS	AS	06/07/11 20:53	II110601-2	.5	U	.5262	mg/L	105.2	85	115			
L88280-03ASD	ASD	06/07/11 20:57	II110601-2	.5	U	.516	mg/L	103.2	85	115	1.96	20	

Chloride

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303242													
WG303242ICV	ICV	06/13/11 16:06	WI110518-1	20.06		20.03	mg/L	99.9	90	110			
WG303242ICB	ICB	06/13/11 16:27				U	mg/L		-1.5	1.5			
WG303244													
WG303244LFB1	LFB	06/14/11 15:24	WI110218-1	30		29.88	mg/L	99.6	90	110			
L88279-01DUP	DUP	06/14/11 16:06			.9	.9	mg/L				0	20	RA
L88279-02AS	AS	06/14/11 16:48	WI110218-1	30	.9	31.08	mg/L	100.6	90	110			
WG303244LFB2	LFB	06/15/11 1:36	WI110218-1	30		29.84	mg/L	99.5	90	110			

Chromium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302955													
WG302955ICV	ICV	06/08/11 10:14	II110104-1	2		2.004	mg/L	100.2	95	105			
WG302955ICB	ICB	06/08/11 10:18				U	mg/L		-0.03	0.03			
WG302955LFB	LFB	06/08/11 10:30	II110601-2	.5		.489	mg/L	97.8	85	115			
L88280-03AS	AS	06/08/11 11:09	II110601-2	.5	U	.52	mg/L	104	85	115			
L88280-03ASD	ASD	06/08/11 11:12	II110601-2	.5	U	.522	mg/L	104.4	85	115	0.38	20	

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Cobalt, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302872													
WG302872ICV	ICV	06/07/11 19:40	II110104-1	2		1.941	mg/L	97.1	95	105			
WG302872ICB	ICB	06/07/11 19:45				U	mg/L		-0.03	0.03			
WG302872LFB	LFB	06/07/11 19:58	II110601-2	.5		.48	mg/L	96	85	115			
L88280-03AS	AS	06/07/11 20:53	II110601-2	.5	U	.504	mg/L	100.8	85	115			
L88280-03ASD	ASD	06/07/11 20:57	II110601-2	.5	U	.503	mg/L	100.6	85	115	0.2	20	

Copper, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302872													
WG302872ICV	ICV	06/07/11 19:40	II110104-1	2		1.946	mg/L	97.3	95	105			
WG302872ICB	ICB	06/07/11 19:45				U	mg/L		-0.03	0.03			
WG302872LFB	LFB	06/07/11 19:58	II110601-2	.5		.493	mg/L	98.6	85	115			
L88280-03AS	AS	06/07/11 20:53	II110601-2	.5	U	.508	mg/L	101.6	85	115			
L88280-03ASD	ASD	06/07/11 20:57	II110601-2	.5	U	.506	mg/L	101.2	85	115	0.39	20	

Fluoride

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303242													
WG303242ICV	ICV	06/13/11 16:06	WI110518-1	4		4.08	mg/L	102	90	110			
WG303242ICB	ICB	06/13/11 16:27				U	mg/L		-0.3	0.3			
WG303244													
WG303244LFB1	LFB	06/14/11 15:24	WI110218-1	1.5		1.51	mg/L	100.7	90	110			
L88279-01DUP	DUP	06/14/11 16:06			U	U	mg/L				0	20	RA
L88279-02AS	AS	06/14/11 16:48	WI110218-1	1.5	U	1.58	mg/L	105.3	90	110			
WG303244LFB2	LFB	06/15/11 1:36	WI110218-1	1.5		1.5	mg/L	100	90	110			

Iron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302872													
WG302872ICV	ICV	06/07/11 19:40	II110104-1	2		2.022	mg/L	101.1	95	105			
WG302872ICB	ICB	06/07/11 19:45				U	mg/L		-0.06	0.06			
WG302872LFB	LFB	06/07/11 19:58	II110601-2	1		1.02	mg/L	102	85	115			
L88280-03AS	AS	06/07/11 20:53	II110601-2	1	.24	1.307	mg/L	106.7	85	115			
L88280-03ASD	ASD	06/07/11 20:57	II110601-2	1	.24	1.287	mg/L	104.7	85	115	1.54	20	

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303091													
WG303091ICV	ICV	06/09/11 16:55	MS110414-1	.05		.04916	mg/L	98.3	90	110			
WG303091ICB	ICB	06/09/11 16:58				.00019	mg/L		-0.00022	0.00022			
WG303091LFB	LFB	06/09/11 17:04	MS110523-2	.05005		.05226	mg/L	104.4	85	115			
L88283-03AS	AS	06/09/11 17:51	MS110523-2	.05005	.0007	.04864	mg/L	95.8	70	130			
L88283-03ASD	ASD	06/09/11 17:53	MS110523-2	.05005	.0007	.04938	mg/L	97.3	70	130	1.51	20	

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Lithium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302872													
WG302872ICV	ICV	06/07/11 19:40	II110104-1	2		1.95	mg/L	97.5	95	105			
WG302872ICB	ICB	06/07/11 19:45				U	mg/L		-0.06	0.06			
WG302872LFB	LFB	06/07/11 19:58	II110601-2	1		.962	mg/L	96.2	85	115			
L88280-03AS	AS	06/07/11 20:53	II110601-2	1	U	.998	mg/L	99.8	85	115			
L88280-03ASD	ASD	06/07/11 20:57	II110601-2	1	U	.997	mg/L	99.7	85	115	0.1	20	

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302872													
WG302872ICV	ICV	06/07/11 19:40	II110104-1	2		1.9444	mg/L	97.2	95	105			
WG302872ICB	ICB	06/07/11 19:45				U	mg/L		-0.015	0.015			
WG302872LFB	LFB	06/07/11 19:58	II110601-2	.5		.5108	mg/L	102.2	85	115			
L88280-03AS	AS	06/07/11 20:53	II110601-2	.5	.081	.6036	mg/L	104.5	85	115			
L88280-03ASD	ASD	06/07/11 20:57	II110601-2	.5	.081	.6005	mg/L	103.9	85	115	0.51	20	

Molybdenum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302872													
WG302872ICV	ICV	06/07/11 19:40	II110104-1	2		2.023	mg/L	101.2	95	105			
WG302872ICB	ICB	06/07/11 19:45				U	mg/L		-0.03	0.03			
WG302872LFB	LFB	06/07/11 19:58	II110601-2	.5		.516	mg/L	103.2	85	115			
L88280-03AS	AS	06/07/11 20:53	II110601-2	.5	U	.539	mg/L	107.8	85	115			
L88280-03ASD	ASD	06/07/11 20:57	II110601-2	.5	U	.512	mg/L	102.4	85	115	5.14	20	

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302872													
WG302872ICV	ICV	06/07/11 19:40	II110104-1	2.002		2	mg/L	99.9	95	105			
WG302872ICB	ICB	06/07/11 19:45				U	mg/L		-0.03	0.03			
WG302872LFB	LFB	06/07/11 19:58	II110601-2	.5		.497	mg/L	99.4	85	115			
L88280-03AS	AS	06/07/11 20:53	II110601-2	.5	U	.523	mg/L	104.6	85	115			
L88280-03ASD	ASD	06/07/11 20:57	II110601-2	.5	U	.519	mg/L	103.8	85	115	0.77	20	

Nitrate/Nitrite as N

M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303136													
WG303136ICV	ICV	06/09/11 18:33	WI110330-1	2.416		2.325	mg/L	96.2	90	110			
WG303136ICB	ICB	06/09/11 18:34				U	mg/L		-0.06	0.06			
WG303141													
WG303141LFB1	LFB	06/09/11 21:35	WI110322-5	2		2.008	mg/L	100.4	90	110			
L88285-01AS	AS	06/09/11 21:54	WI110322-5	2	U	2.113	mg/L	105.7	90	110			
L88285-02DUP	DUP	06/09/11 21:56			U	U	mg/L				0	20	RA
WG303141LFB2	LFB	06/09/11 22:09	WI110322-5	2		1.986	mg/L	99.3	90	110			

Nye County Natural Res & Fed Facilities
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Nitrogen, ammonia

M350.1 - Automated Phenate

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302954													
WG302954ICV	ICV	06/08/11 10:38	WI101121-1	1.004		1.002	mg/L	99.8	90	110			
WG302954ICB	ICB	06/08/11 10:41				U	mg/L		-0.15	0.15			
WG303027													
WG303027LFB1	LFB	06/08/11 16:09	WI110211-5	1		1.016	mg/L	101.6	90	110			
L88208-01AS	AS	06/08/11 16:11	WI110211-5	1	1.01	1.982	mg/L	97.2	90	110			
L88208-02DUP	DUP	06/08/11 16:13			U	U	mg/L				0	20	RA
WG303027LFB2	LFB	06/08/11 16:41	WI110211-5	1		.977	mg/L	97.7	90	110			

Phosphorus, total

M365.1 - Auto Ascorbic Acid (digest)

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303201													
WG303201ICV	ICV	06/10/11 15:08	WI110511-3	.65228		.656	mg/L	100.6	90	110			
WG303201ICB	ICB	06/10/11 15:10				U	mg/L		-0.03	0.03			
WG303207													
WG303189LRB	LRB	06/10/11 15:58				U	mg/L		-0.03	0.03			
WG303189LFB	LFB	06/10/11 15:59	WI110609-2	.5		.493	mg/L	98.6	90	110			
L88277-07LFM	LFM	06/10/11 16:01	WI110609-2	.5	U	.499	mg/L	99.8	90	110			
L88280-01DUP	DUP	06/10/11 16:03			.07	.068	mg/L				2.9	20	RA

Residue, Filterable (TDS) @180C

SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302656													
WG302656PBW	PBW	06/02/11 15:03				U	mg/L		-20	20			
WG302656LCSW	LCSW	06/02/11 15:04	PCN37134	260		262	mg/L	100.8	80	120			
L88285-02DUP	DUP	06/02/11 15:45			420	424	mg/L				0.9	20	

Selenium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303179													
WG303179ICV	ICV	06/10/11 18:22	MS110414-1	.05		.05396	mg/L	107.9	90	110			
WG303179ICB	ICB	06/10/11 18:25				U	mg/L		-0.00022	0.00022			
WG303179LFB	LFB	06/10/11 18:30	MS110523-2	.05005		.04556	mg/L	91	85	115			
L88283-03AS	AS	06/10/11 18:51	MS110523-2	.05005	.0003	.04952	mg/L	98.3	70	130			
L88283-03ASD	ASD	06/10/11 18:59	MS110523-2	.05005	.0003	.04947	mg/L	98.2	70	130	0.1	20	

Silver, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303179													
WG303179ICV	ICV	06/10/11 18:22	MS110414-1	.01996		.02105	mg/L	105.5	90	110			
WG303179ICB	ICB	06/10/11 18:25				U	mg/L		-0.00011	0.00011			
WG303179LFB	LFB	06/10/11 18:30	MS110523-2	.01002		.009896	mg/L	98.8	85	115			
L88283-03AS	AS	06/10/11 18:51	MS110523-2	.01002	U	.009166	mg/L	91.5	70	130			
L88283-03ASD	ASD	06/10/11 18:59	MS110523-2	.01002	U	.009674	mg/L	96.5	70	130	5.39	20	

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L88285**

Project ID: 11-095-LK-(L)

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302872													
WG302872ICV	ICV	06/07/11 19:40	II110104-1	100		100.74	mg/L	100.7	95	105			
WG302872ICB	ICB	06/07/11 19:45				U	mg/L		-0.9	0.9			
WG302872LFB	LFB	06/07/11 19:58	II110601-2	100.018		102.67	mg/L	102.7	85	115			
L88280-03AS	AS	06/07/11 20:53	II110601-2	100.018	8.9	113.57	mg/L	104.7	85	115			
L88280-03ASD	ASD	06/07/11 20:57	II110601-2	100.018	8.9	112.13	mg/L	103.2	85	115	1.28	20	

Strontium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302872													
WG302872ICV	ICV	06/07/11 19:40	II110104-1	2		1.97	mg/L	98.5	95	105			
WG302872ICB	ICB	06/07/11 19:45				U	mg/L		-0.03	0.03			
WG302872LFB	LFB	06/07/11 19:58	II110601-2	.5		.53	mg/L	106	85	115			
L88280-03AS	AS	06/07/11 20:53	II110601-2	.5	.46	.979	mg/L	103.8	85	115			
L88280-03ASD	ASD	06/07/11 20:57	II110601-2	.5	.46	.969	mg/L	101.8	85	115	1.03	20	

Thallium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303091													
WG303091ICV	ICV	06/09/11 16:55	MS110414-1	.05		.05477	mg/L	109.5	90	110			
WG303091ICB	ICB	06/09/11 16:58				U	mg/L		-0.00022	0.00022			
WG303091LFB	LFB	06/09/11 17:04	MS110523-2	.0501		.05212	mg/L	104	85	115			
L88283-03AS	AS	06/09/11 17:51	MS110523-2	.0501	U	.05133	mg/L	102.5	70	130			
L88283-03ASD	ASD	06/09/11 17:53	MS110523-2	.0501	U	.05207	mg/L	103.9	70	130	1.43	20	

Titanium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302872													
WG302872ICV	ICV	06/07/11 19:40	II110104-1	2		2.0057	mg/L	100.3	95	105			
WG302872ICB	ICB	06/07/11 19:45				U	mg/L		-0.015	0.015			
WG302872LFB	LFB	06/07/11 19:58	II110601-2	1		1.0045	mg/L	100.5	85	115			
L88280-03AS	AS	06/07/11 20:53	II110601-2	1	U	1.04	mg/L	104	85	115			
L88280-03ASD	ASD	06/07/11 20:57	II110601-2	1	U	1.0339	mg/L	103.4	85	115	0.59	20	

Uranium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303179													
WG303179ICV	ICV	06/10/11 18:22	MS110414-1	.05		.05293	mg/L	105.9	90	110			
WG303179ICB	ICB	06/10/11 18:25				U	mg/L		-0.00022	0.00022			
WG303179LFB	LFB	06/10/11 18:30	MS110523-2	.05		.04592	mg/L	91.8	85	115			
L88283-03AS	AS	06/10/11 18:51	MS110523-2	.05	.0002	.04504	mg/L	89.7	70	130			
L88283-03ASD	ASD	06/10/11 18:59	MS110523-2	.05	.0002	.04622	mg/L	92	70	130	2.59	20	

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L88285**

Project ID: 11-095-LK-(L)

Vanadium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302872													
WG302872ICV	ICV	06/07/11 19:40	II110104-1	2		2.1012	mg/L	105.1	95	105			
WG302872ICB	ICB	06/07/11 19:45				U	mg/L		-0.015	0.015			
WG302872LFB	LFB	06/07/11 19:58	II110601-2	.5		.54	mg/L	108	85	115			
L88280-03AS	AS	06/07/11 20:53	II110601-2	.5	U	.5542	mg/L	110.8	85	115			
L88280-03ASD	ASD	06/07/11 20:57	II110601-2	.5	U	.5426	mg/L	108.5	85	115	2.12	20	

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG302872													
WG302872ICV	ICV	06/07/11 19:40	II110104-1	2		1.972	mg/L	98.6	95	105			
WG302872ICB	ICB	06/07/11 19:45				U	mg/L		-0.03	0.03			
WG302872LFB	LFB	06/07/11 19:58	II110601-2	.5		.515	mg/L	103	85	115			
L88280-03AS	AS	06/07/11 20:53	II110601-2	.5	U	.541	mg/L	108.2	85	115			
L88280-03ASD	ASD	06/07/11 20:57	II110601-2	.5	U	.524	mg/L	104.8	85	115	3.19	20	

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L88285**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L88285-01	WG303244	Bromide	M300.0 - Ion Chromatography	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
		Chloride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG303141	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG303027	Nitrogen, ammonia	M350.1 - Automated Phenate	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG303207	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L88285-02	WG303244	Bromide	M300.0 - Ion Chromatography	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
		Chloride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG303141	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG303027	Nitrogen, ammonia	M350.1 - Automated Phenate	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG303207	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L88285**

No certification qualifiers associated with this analysis

Nye County Natural Res & Fed Facilities
11-095-LK-(L)

ACZ Project ID: L88285
Date Received: 06/02/2011 10:17
Received By: gac
Date Printed: 6/2/2011

Receipt Verification

	YES	NO	NA
1) Does this project require special handling procedures such as CLP protocol?			X
2) Are the custody seals on the cooler intact?			X
3) Are the custody seals on the sample containers intact?			X
4) Is there a Chain of Custody or other directive shipping papers present?	X		
5) Is the Chain of Custody complete?	X		
6) Is the Chain of Custody in agreement with the samples received?	X		
7) Is there enough sample for all requested analyses?	X		
8) Are all samples within holding times for requested analyses?	X		
9) Were all sample containers received intact?	X		
10) Are the temperature blanks present?			X
11) Are the trip blanks (VOA and/or Cyanide) present?			X
12) Are samples requiring no headspace, headspace free?			X
13) Do the samples that require a Foreign Soils Permit have one?			X

Exceptions: If you answered no to any of the above questions, please describe

N/A

Contact (For any discrepancies, the client must be contacted)

N/A

Shipping Containers

Cooler Id		Temp (°C)	Rad (µR/hr)
Na13097		6	12

Client must contact ACZ Project Manager if analysis should not proceed for samples received outside of thermal preservation acceptance criteria.

Notes

Nye County Natural Res & Fed Facilities
11-095-LK-(L)

ACZ Project ID: L88285
Date Received: 06/02/2011 10:17
Received By: gac
Date Printed: 6/2/2011

Sample Container Preservation

SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y < 2	YG < 2	B < 2	O < 2	T > 12	N/A	RAD	ID
L88285-01	NC-GWE-GF-4PA		Y		Y							<input type="checkbox"/>
L88285-02	NC-GWE-GF-4		Y		Y							<input type="checkbox"/>

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
B	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
O	Raw/Sulfuric	ORANGE	pH must be < 2
P	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Y	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 µR/hr

* pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By: gac



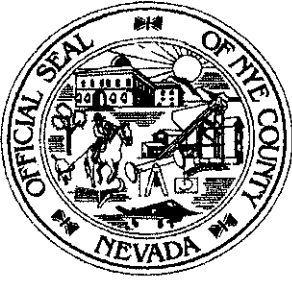
Form TP 11.1-1 Rev 0

Water Sample Chain of Custody Form

Checked By

Date/Time: 6-1-2011 / 1000

Date:



Nye County
Nuclear Waste Repository Project Office
2101 E. Calvada Blvd. Ste. #100 • Pahrump, Nevada 89060
(775) 727-7727 • Fax (775) 727-7919

11-095-LK-(L)

June 1, 2011

ACZ Laboratories
Tony Antalek
2773 Downhill Drive
Steamboat Springs, CO 80487

Water Sample Analyses for the Nye County Groundwater Evaluation Program

Dear Mr. Antalek:

Enclosed are the ground water samples collected at Nye County wells NC-GWE –GF-4PA and NC-GWE-GF-4 These samples are to be analyzed under quotation “NC-GWE-WELLS-2010”. This is the only shipment under this letter.

Please sign and date the attached Chain of Custody form and return to my attention at the address listed above. When the analyses have been completed, please send a copy of the final report to the same address.

If you have any questions regarding the samples or analyses, please contact me by phone at (775) 727-7727, fax at (775) 727-7919, or email at lkryder@co.nye.nv.us.

Respectfully,
NYE COUNTY, NEVADA

Levi Kryder
Geoscience Manager

Enclosures: as stated

LK/cs

July 06, 2011

Report to:

Levi Kryder

Nye County Natural Res & Fed Facilities

2101 E. Calvada Blvd. Suite 100

Pahrump, NV 89048

Bill to:

Levi Kryder

Nye County Natural Res & Fed Facilities

2101 E. Calvada Blvd. Suite 100

Pahrump, NV 89048

Project ID: 11-103-LK-(L)

ACZ Project ID: L88571

Levi Kryder:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on June 16, 2011. This project has been assigned to ACZ's project number, L88571. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L88571. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after August 06, 2011. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than \$10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.



Tony Antalek has reviewed and approved this report.



Nye County Natural Res Fed Facilities

July 06, 2011

Project ID: 11-103-LK-(L)

ACZ Project ID: L88571

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 3 ground water samples from Nye County Natural Res & Fed Facilities on June 16, 2011. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L88571. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

These samples were analyzed for inorganic parameters. The individual methods are referenced on both the ACZ invoice and the analytical reports. The extended qualifier reports may contain footnotes qualifying specific elements due to QC failures. In addition the following has been noted with this specific project:

1. Client samples were received at a temperature outside of the acceptable range (See Sample Receipt Form).

Nye County Natural Res & Fed FacilitiesProject ID: 11-103-LK-(L)
Sample ID: AM-0501(GF-1)ACZ Sample ID: **L88571-01**

Date Sampled: 06/09/11 00:00

Date Received: 06/16/11

Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							06/21/11 15:03	tcd

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP		U		mg/L	0.03	0.2	06/21/11 12:27	scp
Antimony, dissolved	M200.8 ICP-MS		U		mg/L	0.0004	0.002	06/24/11 16:41	pmc
Arsenic, dissolved	M200.8 ICP-MS	0.0333			mg/L	0.0005	0.002	06/24/11 16:41	pmc
Barium, dissolved	M200.7 ICP	0.035			mg/L	0.003	0.02	06/21/11 12:27	scp
Beryllium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/21/11 12:27	scp
Boron, dissolved	M200.7 ICP	0.57			mg/L	0.01	0.05	06/21/11 12:27	scp
Cadmium, dissolved	M200.7 ICP		U		mg/L	0.005	0.02	06/21/11 12:27	scp
Chromium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/21/11 12:27	scp
Cobalt, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/21/11 12:27	scp
Copper, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/21/11 12:27	scp
Iron, dissolved	M200.7 ICP		U		mg/L	0.02	0.05	06/21/11 12:27	scp
Lead, dissolved	M200.8 ICP-MS	0.0005	B		mg/L	0.0001	0.0005	06/24/11 16:41	pmc
Lithium, dissolved	M200.7 ICP	0.18			mg/L	0.02	0.1	06/21/11 12:27	scp
Manganese, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	06/21/11 12:27	scp
Molybdenum, dissolved	M200.7 ICP	0.01	B		mg/L	0.01	0.05	06/21/11 12:27	scp
Nickel, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/21/11 12:27	scp
Selenium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0003	06/24/11 16:41	pmc
Silver, dissolved	M200.8 ICP-MS		U		mg/L	0.00005	0.0003	06/24/11 16:41	pmc
Sodium, dissolved	M200.7 ICP	117			mg/L	0.3	2	06/21/11 12:27	scp
Strontium, dissolved	M200.7 ICP	1.43			mg/L	0.01	0.05	06/21/11 12:27	scp
Thallium, dissolved	M200.8 ICP-MS	0.0002	B		mg/L	0.0001	0.0005	06/24/11 16:41	pmc
Titanium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	06/21/11 12:27	scp
Uranium, dissolved	M200.8 ICP-MS	0.0017			mg/L	0.0001	0.0005	06/24/11 16:41	pmc
Vanadium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	06/21/11 12:27	scp
Zinc, dissolved	M200.7 ICP	0.03	B		mg/L	0.01	0.05	06/21/11 12:27	scp

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Bromide	M300.0 - Ion Chromatography	0.09		*	mg/L	0.01	0.05	06/25/11 0:01	ccp
Chloride	M300.0 - Ion Chromatography	24.9		*	mg/L	0.5	3	06/25/11 0:01	ccp
Fluoride	M300.0 - Ion Chromatography	4.0		*	mg/L	0.2	1	06/30/11 15:54	ccp
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	0.10			mg/L	0.02	0.1	06/25/11 14:20	pjb
Nitrogen, ammonia	M350.1 - Automated Phenate		U	*	mg/L	0.05	0.5	06/21/11 11:20	lhb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.01	B	*	mg/L	0.01	0.05	06/22/11 16:20	lhb
Residue, Filterable (TDS) @180C	SM2540C	510			mg/L	10	20	06/16/11 16:46	ndm

Nye County Natural Res & Fed Facilities

Project ID: 11-103-LK-(L)

Sample ID: NC-AM-1B

ACZ Sample ID: **L88571-02**

Date Sampled: 06/09/11 00:00

Date Received: 06/16/11

Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							06/21/11 15:03	tcd

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	0.04	B		mg/L	0.03	0.2	06/21/11 12:30	scp
Antimony, dissolved	M200.8 ICP-MS		U		mg/L	0.0004	0.002	06/24/11 16:45	pmc
Arsenic, dissolved	M200.8 ICP-MS		U		mg/L	0.0005	0.002	06/24/11 16:45	pmc
Barium, dissolved	M200.7 ICP		U		mg/L	0.003	0.02	06/21/11 12:30	scp
Beryllium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/21/11 12:30	scp
Boron, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/21/11 12:30	scp
Cadmium, dissolved	M200.7 ICP		U		mg/L	0.005	0.02	06/21/11 12:30	scp
Chromium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/21/11 12:30	scp
Cobalt, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/21/11 12:30	scp
Copper, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/21/11 12:30	scp
Iron, dissolved	M200.7 ICP		U		mg/L	0.02	0.05	06/21/11 12:30	scp
Lead, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	06/24/11 16:45	pmc
Lithium, dissolved	M200.7 ICP		U		mg/L	0.02	0.1	06/21/11 12:30	scp
Manganese, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	06/21/11 12:30	scp
Molybdenum, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/21/11 12:30	scp
Nickel, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/21/11 12:30	scp
Selenium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0003	06/24/11 16:45	pmc
Silver, dissolved	M200.8 ICP-MS		U		mg/L	0.00005	0.0003	06/24/11 16:45	pmc
Sodium, dissolved	M200.7 ICP	1.3	B		mg/L	0.3	2	06/21/11 12:30	scp
Strontium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/21/11 12:30	scp
Thallium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	06/24/11 16:45	pmc
Titanium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	06/21/11 12:30	scp
Uranium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	06/24/11 16:45	pmc
Vanadium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	06/21/11 12:30	scp
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/21/11 12:30	scp

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Bromide	M300.0 - Ion Chromatography	0.03	B	*	mg/L	0.01	0.05	06/30/11 16:15	ccp
Chloride	M300.0 - Ion Chromatography		U	*	mg/L	0.5	3	06/30/11 16:15	ccp
Fluoride	M300.0 - Ion Chromatography		U		mg/L	0.1	0.5	06/30/11 16:15	ccp
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved		U	*	mg/L	0.02	0.1	06/25/11 14:23	pjb
Nitrogen, ammonia	M350.1 - Automated Phenate		U	*	mg/L	0.05	0.5	06/21/11 11:21	lhb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)		U	*	mg/L	0.01	0.05	06/22/11 16:22	lhb
Residue, Filterable (TDS) @180C	SM2540C		U		mg/L	10	20	06/16/11 16:47	ndm

Nye County Natural Res & Fed Facilities

Project ID: 11-103-LK-(L)

Sample ID: NC-AM-D1

ACZ Sample ID: **L88571-03**

Date Sampled: 06/09/11 00:00

Date Received: 06/16/11

Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							06/21/11 15:03	tcd

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP		U		mg/L	0.03	0.2	06/21/11 12:33	scp
Antimony, dissolved	M200.8 ICP-MS		U		mg/L	0.0004	0.002	06/24/11 16:48	pmc
Arsenic, dissolved	M200.8 ICP-MS	0.0327			mg/L	0.0005	0.002	06/24/11 16:48	pmc
Barium, dissolved	M200.7 ICP	0.034			mg/L	0.003	0.02	06/21/11 12:33	scp
Beryllium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/21/11 12:33	scp
Boron, dissolved	M200.7 ICP	0.55			mg/L	0.01	0.05	06/21/11 12:33	scp
Cadmium, dissolved	M200.7 ICP		U		mg/L	0.005	0.02	06/21/11 12:33	scp
Chromium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/21/11 12:33	scp
Cobalt, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/21/11 12:33	scp
Copper, dissolved	M200.7 ICP	0.02	B		mg/L	0.01	0.05	06/21/11 12:33	scp
Iron, dissolved	M200.7 ICP	0.08			mg/L	0.02	0.05	06/21/11 12:33	scp
Lead, dissolved	M200.8 ICP-MS	0.0002	B		mg/L	0.0001	0.0005	06/24/11 16:48	pmc
Lithium, dissolved	M200.7 ICP	0.17			mg/L	0.02	0.1	06/21/11 12:33	scp
Manganese, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	06/21/11 12:33	scp
Molybdenum, dissolved	M200.7 ICP	0.02	B		mg/L	0.01	0.05	06/21/11 12:33	scp
Nickel, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/21/11 12:33	scp
Selenium, dissolved	M200.8 ICP-MS		U	*	mg/L	0.0001	0.0003	06/24/11 16:48	pmc
Silver, dissolved	M200.8 ICP-MS		U		mg/L	0.00005	0.0003	06/24/11 16:48	pmc
Sodium, dissolved	M200.7 ICP	112			mg/L	0.3	2	06/21/11 12:33	scp
Strontium, dissolved	M200.7 ICP	1.37			mg/L	0.01	0.05	06/21/11 12:33	scp
Thallium, dissolved	M200.8 ICP-MS	0.0002	B		mg/L	0.0001	0.0005	06/24/11 16:48	pmc
Titanium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	06/21/11 12:33	scp
Uranium, dissolved	M200.8 ICP-MS	0.0016			mg/L	0.0001	0.0005	06/24/11 16:48	pmc
Vanadium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	06/21/11 12:33	scp
Zinc, dissolved	M200.7 ICP	0.04	B		mg/L	0.01	0.05	06/21/11 12:33	scp

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Bromide	M300.0 - Ion Chromatography	0.10		*	mg/L	0.01	0.05	06/30/11 16:36	ccp
Chloride	M300.0 - Ion Chromatography	22.8		*	mg/L	0.5	3	06/30/11 16:36	ccp
Fluoride	M300.0 - Ion Chromatography	4.1			mg/L	0.1	0.5	06/30/11 16:36	ccp
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	0.10	B	*	mg/L	0.02	0.1	06/25/11 14:27	pjb
Nitrogen, ammonia	M350.1 - Automated Phenate		U	*	mg/L	0.05	0.5	06/21/11 11:22	lhb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.01	B	*	mg/L	0.01	0.05	06/22/11 16:23	lhb
Residue, Filterable (TDS) @180C	SM2540C	510			mg/L	10	20	06/16/11 16:48	ndm

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit, typically 5 times the MDL.
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	LCSWD	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	LFB	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	LFM	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	LFMD	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	LRB	Laboratory Reagent Blank
ICB	Initial Calibration Blank	MS	Matrix Spike
ICV	Initial Calibration Verification standard	MSD	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	PBS	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	PBW	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	PQV	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	SDL	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

- (1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
- (2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
- (3) EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
- (5) EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December 1996.
- (6) Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995 & 20th edition (1998).

Comments

- (1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
- (3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click:

<http://www.acz.com/public/extquallist.pdf>

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L88571**

Project ID: 11-103-LK-(L)

Aluminum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303727													
WG303727ICV	ICV	06/21/11 12:05	II110104-1	2		1.921	mg/L	96.1	95	105			
WG303727ICB	ICB	06/21/11 12:11				U	mg/L		-0.09	0.09			
WG303727LFB	LFB	06/21/11 12:24	II110617-2	1		1.103	mg/L	110.3	85	115			
L88571-03AS	AS	06/21/11 12:36	II110617-2	1	U	1.064	mg/L	106.4	85	115			
L88571-03ASD	ASD	06/21/11 12:40	II110617-2	1	U	1.044	mg/L	104.4	85	115	1.9	20	

Antimony, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304107													
WG304107ICV	ICV	06/24/11 15:53	MS110414-1	.02		.02001	mg/L	100.1	90	110			
WG304107ICB	ICB	06/24/11 15:56				.00054	mg/L		-0.00088	0.00088			
WG304107LFB	LFB	06/24/11 15:59	MS110523-2	.01		.00986	mg/L	98.6	85	115			
L88532-01AS	AS	06/24/11 16:06	MS110523-2	.01	.0004	.0094	mg/L	90	70	130			
L88532-01ASD	ASD	06/24/11 16:09	MS110523-2	.01	.0004	.00998	mg/L	95.8	70	130	5.99	20	
L88571-03AS	AS	06/24/11 16:51	MS110523-2	.01	U	.00875	mg/L	87.5	70	130			
L88571-03ASD	ASD	06/24/11 16:54	MS110523-2	.01	U	.00889	mg/L	88.9	70	130	1.59	20	

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304107													
WG304107ICV	ICV	06/24/11 15:53	MS110414-1	.05		.05153	mg/L	103.1	90	110			
WG304107ICB	ICB	06/24/11 15:56				U	mg/L		-0.0011	0.0011			
WG304107LFB	LFB	06/24/11 15:59	MS110523-2	.05005		.05213	mg/L	104.2	85	115			
L88532-01AS	AS	06/24/11 16:06	MS110523-2	.05005	.0007	.05324	mg/L	105	70	130			
L88532-01ASD	ASD	06/24/11 16:09	MS110523-2	.05005	.0007	.05599	mg/L	110.5	70	130	5.04	20	
L88571-03AS	AS	06/24/11 16:51	MS110523-2	.05005	.0327	.0818	mg/L	98.1	70	130			
L88571-03ASD	ASD	06/24/11 16:54	MS110523-2	.05005	.0327	.08038	mg/L	95.3	70	130	1.75	20	

Barium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303727													
WG303727ICV	ICV	06/21/11 12:05	II110104-1	2		1.982	mg/L	99.1	95	105			
WG303727ICB	ICB	06/21/11 12:11				U	mg/L		-0.009	0.009			
WG303727LFB	LFB	06/21/11 12:24	II110617-2	.5		.5414	mg/L	108.3	85	115			
L88571-03AS	AS	06/21/11 12:36	II110617-2	.5	.034	.5025	mg/L	93.7	85	115			
L88571-03ASD	ASD	06/21/11 12:40	II110617-2	.5	.034	.5123	mg/L	95.7	85	115	1.93	20	

Beryllium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303727													
WG303727ICV	ICV	06/21/11 12:05	II110104-1	2		1.955	mg/L	97.8	95	105			
WG303727ICB	ICB	06/21/11 12:11				U	mg/L		-0.03	0.03			
WG303727LFB	LFB	06/21/11 12:24	II110617-2	.5		.552	mg/L	110.4	85	115			
L88571-03AS	AS	06/21/11 12:36	II110617-2	.5	U	.477	mg/L	95.4	85	115			
L88571-03ASD	ASD	06/21/11 12:40	II110617-2	.5	U	.488	mg/L	97.6	85	115	2.28	20	

Nye County Natural Res & Fed Facilities
 Project ID: 11-103-LK-(L)

ACZ Project ID: **L88571**

Boron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303727													
WG303727ICV	ICV	06/21/11 12:05	II110104-1	2		2.024	mg/L	101.2	95	105			
WG303727ICB	ICB	06/21/11 12:11				U	mg/L		-0.03	0.03			
WG303727LFB	LFB	06/21/11 12:24	II110617-2	.5005		.557	mg/L	111.3	85	115			
L88571-03AS	AS	06/21/11 12:36	II110617-2	.5005	.55	1.023	mg/L	94.5	85	115			
L88571-03ASD	ASD	06/21/11 12:40	II110617-2	.5005	.55	1.031	mg/L	96.1	85	115	0.78	20	

Bromide

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303242													
WG303242ICV	ICV	06/13/11 16:06	WI110518-1	4.012		4.076	mg/L	101.6	90	110			
WG303242ICB	ICB	06/13/11 16:27				U	mg/L		-0.03	0.03			
WG304011													
WG304011LFB1	LFB	06/23/11 12:31	WI110218-1	1.5		1.43	mg/L	95.3	90	110			
WG304011LFB2	LFB	06/24/11 14:32	WI110218-1	1.5		1.517	mg/L	101.1	90	110			
L88560-03DUP	DUP	06/24/11 20:52			U	U	mg/L				0	20	RA
L88560-04AS	AS	06/24/11 21:34	WI110218-1	1.5	.04	1.214	mg/L	78.3	90	110			M2
WG304507													
WG304507ICV	ICV	06/28/11 14:00	WI110518-1	4.012		4.054	mg/L	101	90	110			
WG304507ICB	ICB	06/28/11 14:21				U	mg/L		-0.03	0.03			
WG304509													
WG304509LFB	LFB	06/30/11 13:47	WI110218-1	1.5		1.43	mg/L	95.3	90	110			
L88527-06DUP	DUP	06/30/11 14:29			.16	.163	mg/L				1.9	20	RA
L88532-06AS	AS	06/30/11 15:11	WI110218-1	1.5	.03	1.427	mg/L	93.1	90	110			

Cadmium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303727													
WG303727ICV	ICV	06/21/11 12:05	II110104-1	2		1.9482	mg/L	97.4	95	105			
WG303727ICB	ICB	06/21/11 12:11				U	mg/L		-0.015	0.015			
WG303727LFB	LFB	06/21/11 12:24	II110617-2	.5		.5455	mg/L	109.1	85	115			
L88571-03AS	AS	06/21/11 12:36	II110617-2	.5	U	.4661	mg/L	93.2	85	115			
L88571-03ASD	ASD	06/21/11 12:40	II110617-2	.5	U	.4776	mg/L	95.5	85	115	2.44	20	

Nye County Natural Res & Fed Facilities
 Project ID: 11-103-LK-(L)

ACZ Project ID: **L88571**

Chloride

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303242													
WG303242ICV	ICV	06/13/11 16:06	WI110518-1	20.06		20.03	mg/L	99.9	90	110			
WG303242ICB	ICB	06/13/11 16:27				U	mg/L		-1.5	1.5			
WG304011													
WG304011LFB1	LFB	06/23/11 12:31	WI110218-1	30		30.31	mg/L	101	90	110			
WG304011LFB2	LFB	06/24/11 14:32	WI110218-1	30		32.68	mg/L	108.9	90	110			
L88560-03DUP	DUP	06/24/11 20:52			.8	.79	mg/L				1.3	20	RA
L88560-04AS	AS	06/24/11 21:34	WI110218-1	30	8.1	38.21	mg/L	100.4	90	110			
WG304507													
WG304507ICV	ICV	06/28/11 14:00	WI110518-1	20.06		20.08	mg/L	100.1	90	110			
WG304507ICB	ICB	06/28/11 14:21				U	mg/L		-1.5	1.5			
WG304509													
WG304509LFB	LFB	06/30/11 13:47	WI110218-1	30		30.05	mg/L	100.2	90	110			
L88527-06DUP	DUP	06/30/11 14:29			13	12.9	mg/L				0.8	20	RA
L88532-06AS	AS	06/30/11 15:11	WI110218-1	30	1.4	31.78	mg/L	101.3	90	110			

Chromium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303727													
WG303727ICV	ICV	06/21/11 12:05	II110104-1	2		1.952	mg/L	97.6	95	105			
WG303727ICB	ICB	06/21/11 12:11				U	mg/L		-0.03	0.03			
WG303727LFB	LFB	06/21/11 12:24	II110617-2	.5		.544	mg/L	108.8	85	115			
L88571-03AS	AS	06/21/11 12:36	II110617-2	.5	U	.467	mg/L	93.4	85	115			
L88571-03ASD	ASD	06/21/11 12:40	II110617-2	.5	U	.478	mg/L	95.6	85	115	2.33	20	

Cobalt, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303727													
WG303727ICV	ICV	06/21/11 12:05	II110104-1	2		1.95	mg/L	97.5	95	105			
WG303727ICB	ICB	06/21/11 12:11				U	mg/L		-0.03	0.03			
WG303727LFB	LFB	06/21/11 12:24	II110617-2	.5		.536	mg/L	107.2	85	115			
L88571-03AS	AS	06/21/11 12:36	II110617-2	.5	U	.46	mg/L	92	85	115			
L88571-03ASD	ASD	06/21/11 12:40	II110617-2	.5	U	.474	mg/L	94.8	85	115	3	20	

Copper, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303727													
WG303727ICV	ICV	06/21/11 12:05	II110104-1	2		1.935	mg/L	96.8	95	105			
WG303727ICB	ICB	06/21/11 12:11				U	mg/L		-0.03	0.03			
WG303727LFB	LFB	06/21/11 12:24	II110617-2	.5		.543	mg/L	108.6	85	115			
L88571-03AS	AS	06/21/11 12:36	II110617-2	.5	.02	.466	mg/L	89.2	85	115			
L88571-03ASD	ASD	06/21/11 12:40	II110617-2	.5	.02	.479	mg/L	91.8	85	115	2.75	20	

Nye County Natural Res & Fed Facilities
 Project ID: 11-103-LK-(L)

ACZ Project ID: **L88571**

Fluoride

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304507													
WG304507ICV	ICV	06/28/11 14:00	WI110518-1	4		4.1	mg/L	102.5	90	110			
WG304507ICB	ICB	06/28/11 14:21				U	mg/L		-0.3	0.3			
WG304509													
WG304509LFB	LFB	06/30/11 13:47	WI110218-1	1.5		1.53	mg/L	102	90	110			
L88527-06DUP	DUP	06/30/11 14:29			22.2	22.04	mg/L				0.7	20	
L88532-06AS	AS	06/30/11 15:11	WI110218-1	1.5	U	1.59	mg/L	106	90	110			

Iron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303727													
WG303727ICV	ICV	06/21/11 12:05	II110104-1	2		1.921	mg/L	96.1	95	105			
WG303727ICB	ICB	06/21/11 12:11				U	mg/L		-0.06	0.06			
WG303727LFB	LFB	06/21/11 12:24	II110617-2	1		1.092	mg/L	109.2	85	115			
L88571-03AS	AS	06/21/11 12:36	II110617-2	1	.09	.943	mg/L	86.3	85	115			
L88571-03ASD	ASD	06/21/11 12:40	II110617-2	1	.09	1.007	mg/L	92.7	85	115	6.56	20	

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304107													
WG304107ICV	ICV	06/24/11 15:53	MS110414-1	.05		.04815	mg/L	96.3	90	110			
WG304107ICB	ICB	06/24/11 15:56				U	mg/L		-0.00022	0.00022			
WG304107LFB	LFB	06/24/11 15:59	MS110523-2	.05005		.04876	mg/L	97.4	85	115			
L88532-01AS	AS	06/24/11 16:06	MS110523-2	.05005	.0023	.05098	mg/L	97.3	70	130			
L88532-01ASD	ASD	06/24/11 16:09	MS110523-2	.05005	.0023	.05283	mg/L	101	70	130	3.56	20	
L88571-03AS	AS	06/24/11 16:51	MS110523-2	.05005	.0002	.04785	mg/L	95.2	70	130			
L88571-03ASD	ASD	06/24/11 16:54	MS110523-2	.05005	.0002	.04729	mg/L	94.1	70	130	1.18	20	

Lithium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303727													
WG303727ICV	ICV	06/21/11 12:05	II110104-1	2		1.897	mg/L	94.9	95	105			
WG303727ICB	ICB	06/21/11 12:11				U	mg/L		-0.06	0.06			
WG303727LFB	LFB	06/21/11 12:24	II110617-2	1		1.037	mg/L	103.7	85	115			
L88571-03AS	AS	06/21/11 12:36	II110617-2	1	.17	1.159	mg/L	98.9	85	115			
L88571-03ASD	ASD	06/21/11 12:40	II110617-2	1	.17	1.129	mg/L	95.9	85	115	2.62	20	

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303727													
WG303727ICV	ICV	06/21/11 12:05	II110104-1	2		1.9282	mg/L	96.4	95	105			
WG303727ICB	ICB	06/21/11 12:11				U	mg/L		-0.015	0.015			
WG303727LFB	LFB	06/21/11 12:24	II110617-2	.5		.5713	mg/L	114.3	85	115			
L88571-03AS	AS	06/21/11 12:36	II110617-2	.5	U	.4934	mg/L	98.7	85	115			
L88571-03ASD	ASD	06/21/11 12:40	II110617-2	.5	U	.5063	mg/L	101.3	85	115	2.58	20	

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Molybdenum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303727													
WG303727ICV	ICV	06/21/11 12:05	II110104-1	2		1.996	mg/L	99.8	95	105			
WG303727ICB	ICB	06/21/11 12:11				U	mg/L		-0.03	0.03			
WG303727LFB	LFB	06/21/11 12:24	II110617-2	.5		.566	mg/L	113.2	85	115			
L88571-03AS	AS	06/21/11 12:36	II110617-2	.5	.02	.561	mg/L	108.2	85	115			
L88571-03ASD	ASD	06/21/11 12:40	II110617-2	.5	.02	.545	mg/L	105	85	115	2.89	20	

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303727													
WG303727ICV	ICV	06/21/11 12:05	II110104-1	2.002		2	mg/L	99.9	95	105			
WG303727ICB	ICB	06/21/11 12:11				U	mg/L		-0.03	0.03			
WG303727LFB	LFB	06/21/11 12:24	II110617-2	.5		.541	mg/L	108.2	85	115			
L88571-03AS	AS	06/21/11 12:36	II110617-2	.5	U	.462	mg/L	92.4	85	115			
L88571-03ASD	ASD	06/21/11 12:40	II110617-2	.5	U	.477	mg/L	95.4	85	115	3.19	20	

Nitrate/Nitrite as N

M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304219													
WG304219ICV	ICV	06/25/11 13:41	WI110330-1	2.416		2.295	mg/L	95	90	110			
WG304219ICB	ICB	06/25/11 13:42				U	mg/L		-0.06	0.06			
WG304219LFB1	LFB	06/25/11 13:45	WI110322-5	2		1.94	mg/L	97	90	110			
WG304219LFB2	LFB	06/25/11 14:21	WI110322-5	2		1.934	mg/L	96.7	90	110			
L88571-02AS	AS	06/25/11 14:24	WI110322-5	2	U	1.926	mg/L	96.3	90	110			
L88571-03DUP	DUP	06/25/11 14:29			.1	.1	mg/L				0	20	RA
L88465-04AS	AS	06/25/11 14:43	WI110322-5	1000	250	1235	mg/L	98.5	90	110			
L88472-01DUP	DUP	06/25/11 14:45			.35	.329	mg/L				6.2	20	

Nitrogen, ammonia

M350.1 - Automated Phenate

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303834													
WG303834ICV	ICV	06/21/11 11:04	WI101121-1	1.004		.985	mg/L	98.1	90	110			
WG303834ICB	ICB	06/21/11 11:05				U	mg/L		-0.15	0.15			
WG303834LFB1	LFB	06/21/11 11:06	WI110211-5	1		.999	mg/L	99.9	90	110			
L88457-01AS	AS	06/21/11 11:09	WI110211-5	1	U	1.005	mg/L	100.5	90	110			
L88457-02DUP	DUP	06/21/11 11:11			U	U	mg/L				0	20	RA
WG303834LFB2	LFB	06/21/11 11:39	WI110211-5	1		1.018	mg/L	101.8	90	110			

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Phosphorus, total M365.1 - Auto Ascorbic Acid (digest)

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303967													
WG303967ICV	ICV	06/22/11 14:20	WI110511-3	.65228		.641	mg/L	98.3	90	110			
WG303967ICB	ICB	06/22/11 14:23				U	mg/L		-0.03	0.03			
WG303984													
WG303869LRB	LRB	06/22/11 16:00				U	mg/L		-0.03	0.03			
WG303869LFB	LFB	06/22/11 16:01	WI110609-2	.5		.474	mg/L	94.8	90	110			
L88561-01LFM	LFM	06/22/11 16:19	WI110609-2	.5	.01	.489	mg/L	95.8	90	110			
L88571-01DUP	DUP	06/22/11 16:21			.01	.014	mg/L				33.3	20	RA

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303587													
WG303587PBW	PBW	06/16/11 16:22				U	mg/L		-20	20			
WG303587LCSW	LCSW	06/16/11 16:23	PCN37132	260		262	mg/L	100.8	80	120			
L88571-03DUP	DUP	06/16/11 16:49			510	506	mg/L				0.8	20	

Selenium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304107													
WG304107ICV	ICV	06/24/11 15:53	MS110414-1	.05		.05341	mg/L	106.8	90	110			
WG304107ICB	ICB	06/24/11 15:56				.00014	mg/L		-0.00022	0.00022			
WG304107LFB	LFB	06/24/11 15:59	MS110523-2	.05005		.05045	mg/L	100.8	85	115			
L88532-01AS	AS	06/24/11 16:06	MS110523-2	.05005	U	.05375	mg/L	107.4	70	130			
L88532-01ASD	ASD	06/24/11 16:09	MS110523-2	.05005	U	.05431	mg/L	108.5	70	130	1.04	20	
L88571-03AS	AS	06/24/11 16:51	MS110523-2	.05005	U	.05326	mg/L	106.4	70	130			
L88571-03ASD	ASD	06/24/11 16:54	MS110523-2	.05005	U	.05102	mg/L	101.9	70	130	4.3	20	

Silver, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304107													
WG304107ICV	ICV	06/24/11 15:53	MS110414-1	.01996		.02049	mg/L	102.7	90	110			
WG304107ICB	ICB	06/24/11 15:56				U	mg/L		-0.00011	0.00011			
WG304107LFB	LFB	06/24/11 15:59	MS110523-2	.01002		.0107	mg/L	106.8	85	115			
L88532-01AS	AS	06/24/11 16:06	MS110523-2	.01002	U	.01074	mg/L	107.2	70	130			
L88532-01ASD	ASD	06/24/11 16:09	MS110523-2	.01002	U	.01117	mg/L	111.5	70	130	3.93	20	
L88571-03AS	AS	06/24/11 16:51	MS110523-2	.01002	U	.009943	mg/L	99.2	70	130			
L88571-03ASD	ASD	06/24/11 16:54	MS110523-2	.01002	U	.0098	mg/L	97.8	70	130	1.45	20	

Sodium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303727													
WG303727ICV	ICV	06/21/11 12:05	II110104-1	100		100.2	mg/L	100.2	95	105			
WG303727ICB	ICB	06/21/11 12:11				U	mg/L		-0.9	0.9			
WG303727LFB	LFB	06/21/11 12:24	II110617-2	100.018		112.1	mg/L	112.1	85	115			
L88571-03AS	AS	06/21/11 12:36	II110617-2	100.018	112	215.5	mg/L	103.5	85	115			
L88571-03ASD	ASD	06/21/11 12:40	II110617-2	100.018	112	215.5	mg/L	103.5	85	115	0	20	

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Strontium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303727													
WG303727ICV	ICV	06/21/11 12:05	II110104-1	2		1.951	mg/L	97.6	95	105			
WG303727ICB	ICB	06/21/11 12:11				U	mg/L		-0.03	0.03			
WG303727LFB	LFB	06/21/11 12:24	II110617-2	.5		.571	mg/L	114.2	85	115			
L88571-03AS	AS	06/21/11 12:36	II110617-2	.5	1.37	1.907	mg/L	107.4	85	115			
L88571-03ASD	ASD	06/21/11 12:40	II110617-2	.5	1.37	1.881	mg/L	102.2	85	115	1.37	20	

Thallium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304107													
WG304107ICV	ICV	06/24/11 15:53	MS110414-1	.05		.05016	mg/L	100.3	90	110			
WG304107ICB	ICB	06/24/11 15:56				U	mg/L		-0.00022	0.00022			
WG304107LFB	LFB	06/24/11 15:59	MS110523-2	.0501		.04951	mg/L	98.8	85	115			
L88532-01AS	AS	06/24/11 16:06	MS110523-2	.0501	U	.04976	mg/L	99.3	70	130			
L88532-01ASD	ASD	06/24/11 16:09	MS110523-2	.0501	U	.05146	mg/L	102.7	70	130	3.36	20	
L88571-03AS	AS	06/24/11 16:51	MS110523-2	.0501	.0002	.049	mg/L	97.4	70	130			
L88571-03ASD	ASD	06/24/11 16:54	MS110523-2	.0501	.0002	.04851	mg/L	96.4	70	130	1.01	20	

Titanium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303727													
WG303727ICV	ICV	06/21/11 12:05	II110104-1	2		1.96	mg/L	98	95	105			
WG303727ICB	ICB	06/21/11 12:11				U	mg/L		-0.015	0.015			
WG303727LFB	LFB	06/21/11 12:24	II110617-2	1		1.098	mg/L	109.8	85	115			
L88571-03AS	AS	06/21/11 12:36	II110617-2	1	U	1.064	mg/L	106.4	85	115			
L88571-03ASD	ASD	06/21/11 12:40	II110617-2	1	U	1.035	mg/L	103.5	85	115	2.76	20	

Uranium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304107													
WG304107ICV	ICV	06/24/11 15:53	MS110414-1	.05		.04783	mg/L	95.7	90	110			
WG304107ICB	ICB	06/24/11 15:56				U	mg/L		-0.00022	0.00022			
WG304107LFB	LFB	06/24/11 15:59	MS110523-2	.05		.0491	mg/L	98.2	85	115			
L88532-01AS	AS	06/24/11 16:06	MS110523-2	.05	.0002	.04946	mg/L	98.5	70	130			
L88532-01ASD	ASD	06/24/11 16:09	MS110523-2	.05	.0002	.05135	mg/L	102.3	70	130	3.75	20	
L88571-03AS	AS	06/24/11 16:51	MS110523-2	.05	.0016	.05347	mg/L	103.7	70	130			
L88571-03ASD	ASD	06/24/11 16:54	MS110523-2	.05	.0016	.05227	mg/L	101.3	70	130	2.27	20	

Vanadium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303727													
WG303727ICV	ICV	06/21/11 12:05	II110104-1	2		1.985	mg/L	99.3	95	105			
WG303727ICB	ICB	06/21/11 12:11				U	mg/L		-0.015	0.015			
WG303727LFB	LFB	06/21/11 12:24	II110617-2	.5		.5675	mg/L	113.5	85	115			
L88571-03AS	AS	06/21/11 12:36	II110617-2	.5	U	.5507	mg/L	110.1	85	115			
L88571-03ASD	ASD	06/21/11 12:40	II110617-2	.5	U	.5356	mg/L	107.1	85	115	2.78	20	

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L88571**

Project ID: 11-103-LK-(L)

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG303727													
WG303727ICV	ICV	06/21/11 12:05	II110104-1	2		1.95	mg/L	97.5	95	105			
WG303727ICB	ICB	06/21/11 12:11				U	mg/L		-0.03	0.03			
WG303727LFB	LFB	06/21/11 12:24	II110617-2	.5		.559	mg/L	111.8	85	115			
L88571-03AS	AS	06/21/11 12:36	II110617-2	.5	.04	.564	mg/L	104.8	85	115			
L88571-03ASD	ASD	06/21/11 12:40	II110617-2	.5	.04	.601	mg/L	112.2	85	115	6.35	20	

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ACZ Project ID: **L88571**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L88571-01	WG304011	Bromide	M300.0 - Ion Chromatography	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
		Chloride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG304509	Fluoride	M300.0 - Ion Chromatography	D1	Sample required dilution due to matrix.
	WG303834	Nitrogen, ammonia	M350.1 - Automated Phenate	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG303984	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L88571-02	WG304509	Bromide	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
		Chloride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG304219	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG303834	Nitrogen, ammonia	M350.1 - Automated Phenate	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG303984	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L88571-03	WG304107	Selenium, dissolved	M200.8 ICP-MS	IA	Internal standard recovery exceeded the acceptance limits. Concentration of associated target analyte(s) in the sample is < MDL.
	WG304509	Bromide	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
		Chloride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG304219	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG303834	Nitrogen, ammonia	M350.1 - Automated Phenate	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG303984	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L88571**

No certification qualifiers associated with this analysis

Nye County Natural Res & Fed Facilities
 11-103-LK-(L)

ACZ Project ID: L88571
 Date Received: 06/16/2011 10:02
 Received By: ksj
 Date Printed: 6/17/2011

Receipt Verification

	YES	NO	NA
1) Does this project require special handling procedures such as CLP protocol?			X
2) Are the custody seals on the cooler intact?			X
3) Are the custody seals on the sample containers intact?			X
4) Is there a Chain of Custody or other directive shipping papers present?	X		
5) Is the Chain of Custody complete?	X		
6) Is the Chain of Custody in agreement with the samples received?	X		
7) Is there enough sample for all requested analyses?	X		
8) Are all samples within holding times for requested analyses?	X		
9) Were all sample containers received intact?	X		
10) Are the temperature blanks present?			X
11) Are the trip blanks (VOA and/or Cyanide) present?			X
12) Are samples requiring no headspace, headspace free?			X
13) Do the samples that require a Foreign Soils Permit have one?			X

Exceptions: If you answered no to any of the above questions, please describe

N/A

Contact (For any discrepancies, the client must be contacted)

N/A

Shipping Containers

Cooler Id		Temp (°C)	Rad (µR/hr)
NA13205		11	13

Client must contact ACZ Project Manager if analysis should not proceed for samples received outside of thermal preservation acceptance criteria.

Notes

Nye County Natural Res & Fed Facilities
11-103-LK-(L)

ACZ Project ID: L88571
Date Received: 06/16/2011 10:02
Received By: ksj
Date Printed: 6/17/2011

Sample Container Preservation

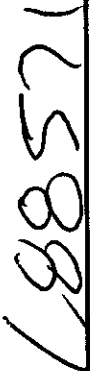
SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y < 2	YG < 2	B < 2	O < 2	T > 12	N/A	RAD	ID
L88571-01	AM-0501(GF-1)		Y		Y							<input type="checkbox"/>
L88571-02	NC-AM-1B		Y		Y							<input type="checkbox"/>
L88571-03	NC-AM-D1		Y		Y							<input type="checkbox"/>

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
B	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
O	Raw/Sulfuric	ORANGE	pH must be < 2
P	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Y	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 µR/hr

* pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By: ksj



Idaho County Nuclear Waste Repository Project Office

Form TP 11.1-1 Rev 0

Water Sample Chain of Custody Form

Sample Number	Well Name or Location	Date Collected	Date Shipped	Analysis	Number of Containers
GW50286	AM-0501 (GF-1)	6/9/2011	6/15/2011	Raw, Wet Chemistry	1 - 500 ml
				H2SO4, N-NH3, NO3-NO2, Total P	1 - 250 ml
				Filtered, Wet Chemistry	1 - 250 ml
				Filtered, HNO3, Metals	1 - 250 ml
GW50287	NC-AM-1B	6/9/2011	6/15/2011	Raw, Wet Chemistry	1 - 500 ml
				H2SO4, N-NH3, NO3-NO2, Total P	1 - 250 ml
				Filtered, Wet Chemistry	1 - 250 ml
				Filtered, HNO3, Metals	1 - 250 ml
GW50288	NC-AM-D1	6/9/2011	6/15/2011	Raw, Wet Chemistry	1 - 500 ml
				H2SO4, N-NH3, NO3-NO2, Total P	1 - 250 ml
				Filtered, Wet Chemistry	1 - 250 ml
				Filtered, HNO3, Metals	1 - 250 ml

Lab Name:	ACZ
Recipient:	Tony Antalek
Telephone	800-334-5493
Address	2773 Downhill Drive Steamboat Springs, CO 80487

Person Releasing Custody for Nye County :

Date/Time: 6/15/11 1000

Date: _____

Checked By

Bill Lane

From: Tony Antalek
Sent: Thursday, June 16, 2011 2:25 PM
To: Sample Receiving
Subject: FW: Quote
Attachments: image001.png

Bill,

See below in RED.

Thanks,

Tony

From: Roger McRae [mailto:rmcrae@co.nye.nv.us]
Sent: Thursday, June 16, 2011 2:24 PM
To: Tony Antalek
Cc: Celeste Sandoval
Subject: Quote

Hi, Tony. The quote that we want to use for the testing is NC-GWE-Wells-2010. We are going to change to the other quote at a later date. The new quote # was inadvertently placed into the cover letter prematurely.

Thanks,

Roger A. McRae, PG, CEM
Geoscientist III
Nye County
2101 E. Calvada Blvd. Suite 100
Pahrump, NV 89048
Office Main: 775-727-7727
Direct Line: 775-727-3491
Fax: 775-727-7919
email: rmcrae@co.nye.nv.us



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Nye County
Nuclear Waste Repository Project Office
2101 E. Calvada Blvd. Ste. #100 · Pahrump, Nevada 89060
(775) 727-7727 · Fax (775) 727-7919

11-103-LK-(L)

June 15, 2011

ACZ Laboratories
Tony Antalek
2773 Downhill Drive
Steamboat Springs, CO 80487

Water Sample Analyses for the Nye County Groundwater Evaluation Program

Dear Mr. Antalek:

Enclosed are the ground water samples collected at Nye County wells AM-0501 (GF-1), NC-AM-1B and -AM-D1. These samples are to be analyzed under quotation "NC-GWE-WELLS-2011-B". This is the only shipment under this letter.

Please sign and date the attached Chain of Custody form and return to my attention at the address listed above. When the analyses have been completed, please send a copy of the final report to the same address.

If you have any questions regarding the samples or analyses, please contact me by phone at (775) 727-7727, fax at (775) 727-7919, or email at lkryder@co.nye.nv.us.

Respectfully,
NYE COUNTY, NEVADA

A handwritten signature in black ink, appearing to read "Levi Kryder", is written over a horizontal line.

Levi Kryder
Geoscience Manager

Enclosures: as stated

LK/cs

July 14, 2011

Report to:

Levi Kryder

Nye County Natural Res & Fed Facilities

2101 E. Calvada Blvd. Suite 100

Pahrump, NV 89048

Bill to:

Levi Kryder

Nye County Natural Res & Fed Facilities

2101 E. Calvada Blvd. Suite 100

Pahrump, NV 89048

Project ID: 11-108-LK-(L)

ACZ Project ID: L88756

Levi Kryder:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on June 23, 2011. This project has been assigned to ACZ's project number, L88756. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L88756. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after August 14, 2011. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than \$10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.



Tony Antalek has reviewed and
approved this report.



Nye County Natural Res & Fed Facilities

Project ID: 11-108-LK-(L)

Sample ID: INYO-BLM#1

ACZ Sample ID: **L88756-01**

Date Sampled: 06/21/11 00:00

Date Received: 06/23/11

Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							06/27/11 12:19	tcd

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP		U		mg/L	0.03	0.2	06/28/11 14:37	jjc
Antimony, dissolved	M200.8 ICP-MS		U		mg/L	0.0004	0.002	06/29/11 7:25	pmc
Arsenic, dissolved	M200.8 ICP-MS	0.0352			mg/L	0.0005	0.002	06/29/11 7:25	pmc
Barium, dissolved	M200.7 ICP	0.089			mg/L	0.003	0.02	06/27/11 21:48	aeb
Beryllium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/27/11 21:48	aeb
Boron, dissolved	M200.7 ICP	2.02			mg/L	0.01	0.05	06/28/11 14:37	jjc
Cadmium, dissolved	M200.7 ICP		U		mg/L	0.005	0.02	06/27/11 21:48	aeb
Chromium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/27/11 21:48	aeb
Cobalt, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/27/11 21:48	aeb
Copper, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/28/11 14:37	jjc
Iron, dissolved	M200.7 ICP	1.15		*	mg/L	0.02	0.05	06/27/11 21:48	aeb
Lead, dissolved	M200.8 ICP-MS	0.0020			mg/L	0.0001	0.0005	06/29/11 7:25	pmc
Lithium, dissolved	M200.7 ICP	0.23			mg/L	0.02	0.1	06/27/11 21:48	aeb
Manganese, dissolved	M200.7 ICP	0.009	B	*	mg/L	0.005	0.03	06/27/11 21:48	aeb
Molybdenum, dissolved	M200.7 ICP	0.01	B		mg/L	0.01	0.05	06/27/11 21:48	aeb
Nickel, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/28/11 14:37	jjc
Selenium, dissolved	M200.8 ICP-MS		U	*	mg/L	0.0001	0.0003	06/29/11 7:25	pmc
Silver, dissolved	M200.8 ICP-MS		U		mg/L	0.00005	0.0003	06/30/11 7:51	pmc
Sodium, dissolved	M200.7 ICP	214			mg/L	0.3	2	06/27/11 21:48	aeb
Strontium, dissolved	M200.7 ICP	1.32			mg/L	0.01	0.05	06/27/11 21:48	aeb
Thallium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	06/29/11 7:25	pmc
Titanium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	06/27/11 21:48	aeb
Uranium, dissolved	M200.8 ICP-MS	0.0002	B		mg/L	0.0001	0.0005	06/29/11 7:25	pmc
Vanadium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	06/27/11 21:48	aeb
Zinc, dissolved	M200.7 ICP	0.11		*	mg/L	0.01	0.05	06/27/11 21:48	aeb

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Bromide	M300.0 - Ion Chromatography	0.13	B	*	mg/L	0.03	0.2	07/12/11 8:31	ccp
Chloride	M300.0 - Ion Chromatography	39		*	mg/L	2	8	07/12/11 8:31	ccp
Fluoride	M300.0 - Ion Chromatography	3.8		*	mg/L	0.3	2	07/12/11 8:31	ccp
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved		U	*	mg/L	0.02	0.1	06/30/11 23:34	pjb
Nitrogen, ammonia	M350.1 - Automated Phenate		U	*	mg/L	0.05	0.5	06/30/11 13:10	lhb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.02	B		mg/L	0.01	0.05	06/28/11 11:58	lhb
Residue, Filterable (TDS) @180C	SM2540C	790			mg/L	10	20	06/25/11 13:38	las

Nye County Natural Res & Fed Facilities

Project ID: 11-108-LK-(L)

Sample ID: NC-GWE-55D

ACZ Sample ID: **L88756-02**

Date Sampled: 06/21/11 00:00

Date Received: 06/23/11

Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							06/27/11 12:19	tcd

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP		U		mg/L	0.03	0.2	06/28/11 14:41	jjc
Antimony, dissolved	M200.8 ICP-MS	0.0005	B		mg/L	0.0004	0.002	06/29/11 7:34	pmc
Arsenic, dissolved	M200.8 ICP-MS	0.0348			mg/L	0.0005	0.002	06/29/11 7:34	pmc
Barium, dissolved	M200.7 ICP	0.090			mg/L	0.003	0.02	06/27/11 21:51	aeb
Beryllium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/27/11 21:51	aeb
Boron, dissolved	M200.7 ICP	2.06			mg/L	0.01	0.05	06/28/11 14:41	jjc
Cadmium, dissolved	M200.7 ICP		U		mg/L	0.005	0.02	06/27/11 21:51	aeb
Chromium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/27/11 21:51	aeb
Cobalt, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/27/11 21:51	aeb
Copper, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/28/11 14:41	jjc
Iron, dissolved	M200.7 ICP	1.14		*	mg/L	0.02	0.05	06/27/11 21:51	aeb
Lead, dissolved	M200.8 ICP-MS	0.0018			mg/L	0.0001	0.0005	06/29/11 7:34	pmc
Lithium, dissolved	M200.7 ICP	0.24			mg/L	0.02	0.1	06/27/11 21:51	aeb
Manganese, dissolved	M200.7 ICP	0.009	B	*	mg/L	0.005	0.03	06/27/11 21:51	aeb
Molybdenum, dissolved	M200.7 ICP	0.01	B		mg/L	0.01	0.05	06/27/11 21:51	aeb
Nickel, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/28/11 14:41	jjc
Selenium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0003	07/01/11 9:38	pmc
Silver, dissolved	M200.8 ICP-MS		U		mg/L	0.00005	0.0003	06/30/11 7:54	pmc
Sodium, dissolved	M200.7 ICP	216			mg/L	0.3	2	06/27/11 21:51	aeb
Strontium, dissolved	M200.7 ICP	1.33			mg/L	0.01	0.05	06/27/11 21:51	aeb
Thallium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	06/29/11 7:34	pmc
Titanium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	06/27/11 21:51	aeb
Uranium, dissolved	M200.8 ICP-MS	0.0003	B		mg/L	0.0001	0.0005	06/29/11 7:34	pmc
Vanadium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	06/27/11 21:51	aeb
Zinc, dissolved	M200.7 ICP	0.11		*	mg/L	0.01	0.05	06/27/11 21:51	aeb

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Bromide	M300.0 - Ion Chromatography	0.13	B	*	mg/L	0.03	0.2	07/12/11 8:52	ccp
Chloride	M300.0 - Ion Chromatography	39		*	mg/L	2	8	07/12/11 8:52	ccp
Fluoride	M300.0 - Ion Chromatography	3.9		*	mg/L	0.3	2	07/12/11 8:52	ccp
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved		U	*	mg/L	0.02	0.1	06/30/11 23:35	pjb
Nitrogen, ammonia	M350.1 - Automated Phenate		U	*	mg/L	0.05	0.5	06/30/11 13:11	lhb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.02	B		mg/L	0.01	0.05	06/28/11 11:59	lhb
Residue, Filterable (TDS) @180C	SM2540C	790			mg/L	10	20	06/25/11 13:38	las

Nye County Natural Res & Fed Facilities

Project ID: 11-108-LK-(L)

Sample ID: NC-GWE-B29

ACZ Sample ID: **L88756-03**

Date Sampled: 06/21/11 00:00

Date Received: 06/23/11

Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							06/27/11 12:20	tcd

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	0.07	B		mg/L	0.03	0.2	06/28/11 14:44	jjc
Antimony, dissolved	M200.8 ICP-MS		U		mg/L	0.0004	0.002	06/29/11 7:38	pmc
Arsenic, dissolved	M200.8 ICP-MS		U		mg/L	0.0005	0.002	06/29/11 7:38	pmc
Barium, dissolved	M200.7 ICP	0.004	B		mg/L	0.003	0.02	06/27/11 21:54	aeb
Beryllium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/27/11 21:54	aeb
Boron, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/28/11 14:44	jjc
Cadmium, dissolved	M200.7 ICP		U		mg/L	0.005	0.02	06/27/11 21:54	aeb
Chromium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/27/11 21:54	aeb
Cobalt, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/27/11 21:54	aeb
Copper, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/28/11 14:44	jjc
Iron, dissolved	M200.7 ICP		U	*	mg/L	0.02	0.05	06/27/11 21:54	aeb
Lead, dissolved	M200.8 ICP-MS	0.0003	B		mg/L	0.0001	0.0005	06/29/11 7:38	pmc
Lithium, dissolved	M200.7 ICP		U		mg/L	0.02	0.1	06/27/11 21:54	aeb
Manganese, dissolved	M200.7 ICP		U	*	mg/L	0.005	0.03	06/27/11 21:54	aeb
Molybdenum, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/27/11 21:54	aeb
Nickel, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/28/11 14:44	jjc
Selenium, dissolved	M200.8 ICP-MS		U	*	mg/L	0.0001	0.0003	06/29/11 7:38	pmc
Silver, dissolved	M200.8 ICP-MS		U		mg/L	0.00005	0.0003	06/30/11 7:58	pmc
Sodium, dissolved	M200.7 ICP	1.3	B		mg/L	0.3	2	06/27/11 21:54	aeb
Strontium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	06/27/11 21:54	aeb
Thallium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	06/29/11 7:38	pmc
Titanium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	06/27/11 21:54	aeb
Uranium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	06/29/11 7:38	pmc
Vanadium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	06/27/11 21:54	aeb
Zinc, dissolved	M200.7 ICP		U	*	mg/L	0.01	0.05	06/27/11 21:54	aeb

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Bromide	M300.0 - Ion Chromatography		U	*	mg/L	0.01	0.05	07/12/11 9:14	ccp
Chloride	M300.0 - Ion Chromatography		U	*	mg/L	0.5	3	07/12/11 9:14	ccp
Fluoride	M300.0 - Ion Chromatography		U	*	mg/L	0.1	0.5	07/12/11 9:14	ccp
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved		U	*	mg/L	0.02	0.1	06/30/11 23:36	pjb
Nitrogen, ammonia	M350.1 - Automated Phenate		U	*	mg/L	0.05	0.5	06/30/11 13:12	lhb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.01	B		mg/L	0.01	0.05	06/28/11 12:00	lhb
Residue, Filterable (TDS) @180C	SM2540C	20	B		mg/L	10	20	06/25/11 13:38	las

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit, typically 5 times the MDL.
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	LCSWD	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	LFB	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	LFM	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	LFMD	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	LRB	Laboratory Reagent Blank
ICB	Initial Calibration Blank	MS	Matrix Spike
ICV	Initial Calibration Verification standard	MSD	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	PBS	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	PBW	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	PQV	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	SDL	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

- (1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
- (2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
- (3) EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
- (5) EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December 1996.
- (6) Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995 & 20th edition (1998).

Comments

- (1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
- (3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click:

<http://www.acz.com/public/extquallist.pdf>

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L88756**

Project ID: 11-108-LK-(L)

Aluminum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304377													
WG304377ICV	ICV	06/28/11 14:09	II110104-1	2		1.902	mg/L	95.1	95	105			
WG304377ICB	ICB	06/28/11 14:13				U	mg/L		-0.09	0.09			
WG304377LFB	LFB	06/28/11 14:25	II110617-2	1		1.03	mg/L	103	85	115			
L88705-01AS	AS	06/28/11 14:31	II110617-2	1	.15	1.166	mg/L	101.6	85	115			
L88705-01ASD	ASD	06/28/11 14:34	II110617-2	1	.15	1.208	mg/L	105.8	85	115	3.54	20	

Antimony, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304465													
WG304465ICV	ICV	06/29/11 6:01	MS110414-1	.02		.02097	mg/L	104.9	90	110			
WG304465ICB	ICB	06/29/11 6:04				.00054	mg/L		-0.00088	0.00088			
WG304465LFB	LFB	06/29/11 6:07	MS110523-2	.01		.00937	mg/L	93.7	85	115			
L88756-01AS	AS	06/29/11 7:28	MS110523-2	.01	U	.00925	mg/L	92.5	70	130			
L88756-01ASD	ASD	06/29/11 7:31	MS110523-2	.01	U	.00951	mg/L	95.1	70	130	2.77	20	

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304465													
WG304465ICV	ICV	06/29/11 6:01	MS110414-1	.05		.05201	mg/L	104	90	110			
WG304465ICB	ICB	06/29/11 6:04				U	mg/L		-0.0011	0.0011			
WG304465LFB	LFB	06/29/11 6:07	MS110523-2	.05005		.04767	mg/L	95.2	85	115			
L88756-01AS	AS	06/29/11 7:28	MS110523-2	.05005	.0352	.08398	mg/L	97.5	70	130			
L88756-01ASD	ASD	06/29/11 7:31	MS110523-2	.05005	.0352	.08801	mg/L	105.5	70	130	4.69	20	

Barium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304265													
WG304265ICV	ICV	06/27/11 20:13	II110104-1	2		2.0077	mg/L	100.4	95	105			
WG304265ICB	ICB	06/27/11 20:17				U	mg/L		-0.009	0.009			
WG304265LFB	LFB	06/27/11 20:29	II110617-2	.5		.5023	mg/L	100.5	85	115			
L88710-06AS	AS	06/27/11 21:17	II110617-2	.5	.019	.5269	mg/L	101.6	85	115			
L88710-06ASD	ASD	06/27/11 21:20	II110617-2	.5	.019	.5232	mg/L	100.8	85	115	0.7	20	

Beryllium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304265													
WG304265ICV	ICV	06/27/11 20:13	II110104-1	2		1.985	mg/L	99.3	95	105			
WG304265ICB	ICB	06/27/11 20:17				U	mg/L		-0.03	0.03			
WG304265LFB	LFB	06/27/11 20:29	II110617-2	.5		.501	mg/L	100.2	85	115			
L88710-06AS	AS	06/27/11 21:17	II110617-2	.5	U	.478	mg/L	95.6	85	115			
L88710-06ASD	ASD	06/27/11 21:20	II110617-2	.5	U	.473	mg/L	94.6	85	115	1.05	20	

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ACZ Project ID: **L88756**

Boron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304377													
WG304377ICV	ICV	06/28/11 14:09	II110104-1	2		2.056	mg/L	102.8	95	105			
WG304377ICB	ICB	06/28/11 14:13				U	mg/L		-0.03	0.03			
WG304377LFB	LFB	06/28/11 14:25	II110617-2	.5005		.551	mg/L	110.1	85	115			
L88705-01AS	AS	06/28/11 14:31	II110617-2	.5005	U	.554	mg/L	110.7	85	115			
L88705-01ASD	ASD	06/28/11 14:34	II110617-2	.5005	U	.551	mg/L	110.1	85	115	0.54	20	

Bromide

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304800													
WG304800ICV	ICV	07/05/11 14:43	WI110518-1	4.012		4.031	mg/L	100.5	90	110			
WG304800ICB	ICB	07/05/11 15:04				U	mg/L		-0.03	0.03			
WG305141													
WG305141LFB	LFB	07/11/11 23:23	WI110218-1	1.5		1.409	mg/L	93.9	90	110			
L88642-18DUP	DUP	07/12/11 5:00			U	U	mg/L				0	20	RA
L88642-19AS	AS	07/12/11 5:43	WI110218-1	1.5	U	1.352	mg/L	90.1	90	110			

Cadmium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304265													
WG304265ICV	ICV	06/27/11 20:13	II110104-1	2		1.9763	mg/L	98.8	95	105			
WG304265ICB	ICB	06/27/11 20:17				U	mg/L		-0.015	0.015			
WG304265LFB	LFB	06/27/11 20:29	II110617-2	.5		.5052	mg/L	101	85	115			
L88710-06AS	AS	06/27/11 21:17	II110617-2	.5	U	.4972	mg/L	99.4	85	115			
L88710-06ASD	ASD	06/27/11 21:20	II110617-2	.5	U	.4928	mg/L	98.6	85	115	0.89	20	

Chloride

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304800													
WG304800ICV	ICV	07/05/11 14:43	WI110518-1	20.06		20.1	mg/L	100.2	90	110			
WG304800ICB	ICB	07/05/11 15:04				U	mg/L		-1.5	1.5			
WG305141													
WG305141LFB	LFB	07/11/11 23:23	WI110218-1	30		30.29	mg/L	101	90	110			
L88642-18DUP	DUP	07/12/11 5:00			3.9	3.93	mg/L				0.8	20	RA
L88642-19AS	AS	07/12/11 5:43	WI110218-1	30	5	35.18	mg/L	100.6	90	110			

Chromium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304265													
WG304265ICV	ICV	06/27/11 20:13	II110104-1	2		2.031	mg/L	101.6	95	105			
WG304265ICB	ICB	06/27/11 20:17				U	mg/L		-0.03	0.03			
WG304265LFB	LFB	06/27/11 20:29	II110617-2	.5		.522	mg/L	104.4	85	115			
L88710-06AS	AS	06/27/11 21:17	II110617-2	.5	U	.527	mg/L	105.4	85	115			
L88710-06ASD	ASD	06/27/11 21:20	II110617-2	.5	U	.521	mg/L	104.2	85	115	1.15	20	

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ACZ Project ID: **L88756**

Cobalt, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304265													
WG304265ICV	ICV	06/27/11 20:13	II110104-1	2		1.949	mg/L	97.5	95	105			
WG304265ICB	ICB	06/27/11 20:17				U	mg/L		-0.03	0.03			
WG304265LFB	LFB	06/27/11 20:29	II110617-2	.5		.494	mg/L	98.8	85	115			
L88710-06AS	AS	06/27/11 21:17	II110617-2	.5	.05	.541	mg/L	98.2	85	115			
L88710-06ASD	ASD	06/27/11 21:20	II110617-2	.5	.05	.535	mg/L	97	85	115	1.12	20	

Copper, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304377													
WG304377ICV	ICV	06/28/11 14:09	II110104-1	2		1.941	mg/L	97.1	95	105			
WG304377ICB	ICB	06/28/11 14:13				U	mg/L		-0.03	0.03			
WG304377LFB	LFB	06/28/11 14:25	II110617-2	.5		.525	mg/L	105	85	115			
L88705-01AS	AS	06/28/11 14:31	II110617-2	.5	.01	.539	mg/L	105.8	85	115			
L88705-01ASD	ASD	06/28/11 14:34	II110617-2	.5	.01	.537	mg/L	105.4	85	115	0.37	20	

Fluoride

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304800													
WG304800ICV	ICV	07/05/11 14:43	WI110518-1	4		4.08	mg/L	102	90	110			
WG304800ICB	ICB	07/05/11 15:04				U	mg/L		-0.3	0.3			
WG305141													
WG305141LFB	LFB	07/11/11 23:23	WI110218-1	1.5		1.54	mg/L	102.7	90	110			
L88642-18DUP	DUP	07/12/11 5:00			U	U	mg/L				0	20	RA
L88642-19AS	AS	07/12/11 5:43	WI110218-1	1.5	U	1.6	mg/L	106.7	90	110			

Iron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304265													
WG304265ICV	ICV	06/27/11 20:13	II110104-1	2		2.005	mg/L	100.3	95	105			
WG304265ICB	ICB	06/27/11 20:17				U	mg/L		-0.06	0.06			
WG304265LFB	LFB	06/27/11 20:29	II110617-2	1		1.039	mg/L	103.9	85	115			
L88710-06AS	AS	06/27/11 21:17	II110617-2	1	8.77	9.246	mg/L	47.6	85	115			M3
L88710-06ASD	ASD	06/27/11 21:20	II110617-2	1	8.77	9.197	mg/L	42.7	85	115	0.53	20	M3

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304465													
WG304465ICV	ICV	06/29/11 6:01	MS110414-1	.05		.04888	mg/L	97.8	90	110			
WG304465ICB	ICB	06/29/11 6:04				U	mg/L		-0.00022	0.00022			
WG304465LFB	LFB	06/29/11 6:07	MS110523-2	.05005		.0459	mg/L	91.7	85	115			
L88756-01AS	AS	06/29/11 7:28	MS110523-2	.05005	.002	.0492	mg/L	94.3	70	130			
L88756-01ASD	ASD	06/29/11 7:31	MS110523-2	.05005	.002	.0508	mg/L	97.5	70	130	3.2	20	

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L88756**

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Lithium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304265													
WG304265ICV	ICV	06/27/11 20:13	II110104-1	2		1.931	mg/L	96.6	95	105			
WG304265ICB	ICB	06/27/11 20:17				U	mg/L		-0.06	0.06			
WG304265LFB	LFB	06/27/11 20:29	II110617-2	1		.961	mg/L	96.1	85	115			
L88710-06AS	AS	06/27/11 21:17	II110617-2	1	.02	.975	mg/L	95.5	85	115			
L88710-06ASD	ASD	06/27/11 21:20	II110617-2	1	.02	.979	mg/L	95.9	85	115	0.41	20	

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304265													
WG304265ICV	ICV	06/27/11 20:13	II110104-1	2		1.9403	mg/L	97	95	105			
WG304265ICB	ICB	06/27/11 20:17				U	mg/L		-0.015	0.015			
WG304265LFB	LFB	06/27/11 20:29	II110617-2	.5		.5228	mg/L	104.6	85	115			
L88710-06AS	AS	06/27/11 21:17	II110617-2	.5	15.3	14.9256	mg/L	-74.9	85	115			M3
L88710-06ASD	ASD	06/27/11 21:20	II110617-2	.5	15.3	14.8235	mg/L	-95.3	85	115	0.69	20	M3

Molybdenum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304265													
WG304265ICV	ICV	06/27/11 20:13	II110104-1	2		2.016	mg/L	100.8	95	105			
WG304265ICB	ICB	06/27/11 20:17				U	mg/L		-0.03	0.03			
WG304265LFB	LFB	06/27/11 20:29	II110617-2	.5		.504	mg/L	100.8	85	115			
L88710-06AS	AS	06/27/11 21:17	II110617-2	.5	U	.487	mg/L	97.4	85	115			
L88710-06ASD	ASD	06/27/11 21:20	II110617-2	.5	U	.486	mg/L	97.2	85	115	0.21	20	

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304377													
WG304377ICV	ICV	06/28/11 14:09	II110104-1	2.002		2.002	mg/L	100	95	105			
WG304377ICB	ICB	06/28/11 14:13				U	mg/L		-0.03	0.03			
WG304377LFB	LFB	06/28/11 14:25	II110617-2	.5		.536	mg/L	107.2	85	115			
L88705-01AS	AS	06/28/11 14:31	II110617-2	.5	U	.549	mg/L	109.8	85	115			
L88705-01ASD	ASD	06/28/11 14:34	II110617-2	.5	U	.536	mg/L	107.2	85	115	2.4	20	

Nitrate/Nitrite as N

M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304644													
WG304644ICV	ICV	06/30/11 20:00	WI110330-1	2.416		2.331	mg/L	96.5	90	110			
WG304644ICB	ICB	06/30/11 20:01				U	mg/L		-0.06	0.06			
WG304655													
WG304655LFB1	LFB	06/30/11 23:11	WI110322-5	2		2.023	mg/L	101.2	90	110			
L88622-09AS	AS	06/30/11 23:30	WI110322-5	2	.04	2.026	mg/L	99.3	90	110			
L88622-10DUP	DUP	06/30/11 23:33			U	U	mg/L				0	20	RA
WG304655LFB2	LFB	06/30/11 23:46	WI110322-5	2		2.021	mg/L	101.1	90	110			

Nye County Natural Res & Fed Facilities
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ACZ Project ID: **L88756**

Nitrogen, ammonia

M350.1 - Automated Phenate

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304607													
WG304607ICV	ICV	06/30/11 12:21	WI101121-1	1.004		1.01	mg/L	100.6	90	110			
WG304607ICB	ICB	06/30/11 12:23				U	mg/L		-0.15	0.15			
WG304607LFB1	LFB	06/30/11 12:24	WI110211-5	1		.998	mg/L	99.8	90	110			
WG304607LFB2	LFB	06/30/11 12:56	WI110211-5	1		.991	mg/L	99.1	90	110			
L88634-06AS	AS	06/30/11 12:59	WI110211-5	1	U	1.028	mg/L	102.8	90	110			
L88634-07DUP	DUP	06/30/11 13:01			.1	.099	mg/L				1	20	RA

Phosphorus, total

M365.1 - Auto Ascorbic Acid (digest)

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304360													
WG304360ICV	ICV	06/28/11 10:30	WI110511-3	.65228		.639	mg/L	98	90	110			
WG304360ICB	ICB	06/28/11 10:33				U	mg/L		-0.03	0.03			
WG304382													
WG304261LRB	LRB	06/28/11 11:27				.012	mg/L		-0.03	0.03			
WG304261LFB	LFB	06/28/11 11:28	WI110627-1	.5		.483	mg/L	96.6	90	110			
L88634-03LFM	LFM	06/28/11 11:46	WI110627-1	.5	.06	.55	mg/L	98	90	110			
L88634-04DUP	DUP	06/28/11 11:49			.35	.36	mg/L				2.8	20	

Residue, Filterable (TDS) @180C

SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304221													
WG304221PBW	PBW	06/25/11 13:35				U	mg/L		-20	20			
WG304221LCSW	LCSW	06/25/11 13:35	PCN37129	260		266	mg/L	102.3	80	120			
L88777-02DUP	DUP	06/25/11 13:40			210	212	mg/L				0.9	20	

Selenium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304465													
WG304465ICV	ICV	06/29/11 6:01	MS110414-1	.05		.05484	mg/L	109.7	90	110			
WG304465ICB	ICB	06/29/11 6:04				.00011	mg/L		-0.00022	0.00022			
WG304465LFB	LFB	06/29/11 6:07	MS110523-2	.05005		.0475	mg/L	94.9	85	115			
L88756-01AS	AS	06/29/11 7:28	MS110523-2	.05005	U	.0596	mg/L	119.1	70	130			
L88756-01ASD	ASD	06/29/11 7:31	MS110523-2	.05005	U	.05836	mg/L	116.6	70	130	2.1	20	
WG304653													
WG304653ICV	ICV	07/01/11 8:04	MS110414-1	.05		.05456	mg/L	109.1	90	110			
WG304653ICB	ICB	07/01/11 8:07				U	mg/L		-0.00022	0.00022			
WG304653LFB	LFB	07/01/11 8:11	MS110523-2	.05005		.05149	mg/L	102.9	85	115			
L88597-03AS	AS	07/01/11 9:05	MS110523-2	.05005	U	.05601	mg/L	111.9	70	130			
L88597-03ASD	ASD	07/01/11 9:08	MS110523-2	.05005	U	.05641	mg/L	112.7	70	130	0.71	20	

Nye County Natural Res & Fed Facilities
 Project ID: 11-108-LK-(L)

ACZ Project ID: **L88756**

Silver, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304571													
WG304571ICV	ICV	06/30/11 6:28	MS110414-1	.01996		.02128	mg/L	106.6	90	110			
WG304571ICB	ICB	06/30/11 6:31				U	mg/L		-0.00011	0.00011			
WG304571LFB	LFB	06/30/11 6:35	MS110523-2	.01002		.01061	mg/L	105.9	85	115			
L88756-03AS	AS	06/30/11 8:01	MS110523-2	.01002	U	.01012	mg/L	101	70	130			
L88756-03ASD	ASD	06/30/11 8:04	MS110523-2	.01002	U	.01018	mg/L	101.6	70	130	0.59	20	

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304265													
WG304265ICV	ICV	06/27/11 20:13	II110104-1	100		100.92	mg/L	100.9	95	105			
WG304265ICB	ICB	06/27/11 20:17				U	mg/L		-0.9	0.9			
WG304265LFB	LFB	06/27/11 20:29	II110617-2	100.018		101.53	mg/L	101.5	85	115			
L88710-06AS	AS	06/27/11 21:17	II110617-2	100.018	4.4	106.42	mg/L	102	85	115			
L88710-06ASD	ASD	06/27/11 21:20	II110617-2	100.018	4.4	105.09	mg/L	100.7	85	115	1.26	20	

Strontium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304265													
WG304265ICV	ICV	06/27/11 20:13	II110104-1	2		1.988	mg/L	99.4	95	105			
WG304265ICB	ICB	06/27/11 20:17				U	mg/L		-0.03	0.03			
WG304265LFB	LFB	06/27/11 20:29	II110617-2	.5		.527	mg/L	105.4	85	115			
L88710-06AS	AS	06/27/11 21:17	II110617-2	.5	1.23	1.716	mg/L	97.2	85	115			
L88710-06ASD	ASD	06/27/11 21:20	II110617-2	.5	1.23	1.706	mg/L	95.2	85	115	0.58	20	

Thallium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304465													
WG304465ICV	ICV	06/29/11 6:01	MS110414-1	.05		.05469	mg/L	109.4	90	110			
WG304465ICB	ICB	06/29/11 6:04				U	mg/L		-0.00022	0.00022			
WG304465LFB	LFB	06/29/11 6:07	MS110523-2	.0501		.04729	mg/L	94.4	85	115			
L88756-01AS	AS	06/29/11 7:28	MS110523-2	.0501	U	.0519	mg/L	103.6	70	130			
L88756-01ASD	ASD	06/29/11 7:31	MS110523-2	.0501	U	.05308	mg/L	105.9	70	130	2.25	20	

Titanium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304265													
WG304265ICV	ICV	06/27/11 20:13	II110104-1	2		1.9906	mg/L	99.5	95	105			
WG304265ICB	ICB	06/27/11 20:17				U	mg/L		-0.015	0.015			
WG304265LFB	LFB	06/27/11 20:29	II110617-2	1		.9965	mg/L	99.7	85	115			
L88710-06AS	AS	06/27/11 21:17	II110617-2	1	U	.9807	mg/L	98.1	85	115			
L88710-06ASD	ASD	06/27/11 21:20	II110617-2	1	U	.9809	mg/L	98.1	85	115	0.02	20	

Nye County Natural Res & Fed Facilities
 Project ID: 11-108-LK-(L)

ACZ Project ID: **L88756**

Uranium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304465													
WG304465ICV	ICV	06/29/11 6:01	MS110414-1	.05		.05345	mg/L	106.9	90	110			
WG304465ICB	ICB	06/29/11 6:04				U	mg/L		-0.00022	0.00022			
WG304465LFB	LFB	06/29/11 6:07	MS110523-2	.05		.04381	mg/L	87.6	85	115			
L88756-01AS	AS	06/29/11 7:28	MS110523-2	.05	.0002	.05532	mg/L	110.2	70	130			
L88756-01ASD	ASD	06/29/11 7:31	MS110523-2	.05	.0002	.05766	mg/L	114.9	70	130	4.14	20	

Vanadium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304265													
WG304265ICV	ICV	06/27/11 20:13	II110104-1	2		2.1042	mg/L	105.2	95	105			
WG304265ICB	ICB	06/27/11 20:17				U	mg/L		-0.015	0.015			
WG304265LFB	LFB	06/27/11 20:29	II110617-2	.5		.5316	mg/L	106.3	85	115			
L88710-06AS	AS	06/27/11 21:17	II110617-2	.5	U	.5359	mg/L	107.2	85	115			
L88710-06ASD	ASD	06/27/11 21:20	II110617-2	.5	U	.5259	mg/L	105.2	85	115	1.88	20	

Zinc, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG304265													
WG304265ICV	ICV	06/27/11 20:13	II110104-1	2		1.949	mg/L	97.5	95	105			
WG304265ICB	ICB	06/27/11 20:17				U	mg/L		-0.03	0.03			
WG304265LFB	LFB	06/27/11 20:29	II110617-2	.5		.508	mg/L	101.6	85	115			
L88710-06AS	AS	06/27/11 21:17	II110617-2	.5	5.19	5.296	mg/L	21.2	85	115			M3
L88710-06ASD	ASD	06/27/11 21:20	II110617-2	.5	5.19	5.275	mg/L	17	85	115	0.4	20	M3

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L88756**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L88756-01	WG304265	Iron, dissolved	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
		Manganese, dissolved	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG304465	Selenium, dissolved	M200.8 ICP-MS	BE	Target analyte in continuing calibration blank (CCB) at or above the acceptance criteria. Target analyte was not detected in the sample [$< \text{MDL}$].
	WG304265	Zinc, dissolved	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG305141	Bromide	M300.0 - Ion Chromatography	DH	Sample required dilution due to high TDS and/or EC value.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation ($< 10\text{x MDL}$).
		Chloride	M300.0 - Ion Chromatography	DH	Sample required dilution due to high TDS and/or EC value.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation ($< 10\text{x MDL}$).
		Fluoride	M300.0 - Ion Chromatography	DH	Sample required dilution due to high TDS and/or EC value.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation ($< 10\text{x MDL}$).
	WG304655	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation ($< 10\text{x MDL}$).
	WG304607	Nitrogen, ammonia	M350.1 - Automated Phenate	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation ($< 10\text{x MDL}$).
L88756-02	WG304265	Iron, dissolved	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
		Manganese, dissolved	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
		Zinc, dissolved	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG305141	Bromide	M300.0 - Ion Chromatography	DH	Sample required dilution due to high TDS and/or EC value.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation ($< 10\text{x MDL}$).
		Chloride	M300.0 - Ion Chromatography	DH	Sample required dilution due to high TDS and/or EC value.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation ($< 10\text{x MDL}$).
		Fluoride	M300.0 - Ion Chromatography	DH	Sample required dilution due to high TDS and/or EC value.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation ($< 10\text{x MDL}$).
	WG304655	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation ($< 10\text{x MDL}$).
	WG304607	Nitrogen, ammonia	M350.1 - Automated Phenate	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation ($< 10\text{x MDL}$).

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L88756**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L88756-03	WG304265	Iron, dissolved	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
		Manganese, dissolved	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG304465	Selenium, dissolved	M200.8 ICP-MS	BE	Target analyte in continuing calibration blank (CCB) at or above the acceptance criteria. Target analyte was not detected in the sample [$< \text{MDL}$].
	WG304265	Zinc, dissolved	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG305141	Bromide	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation ($< 10 \times \text{MDL}$).
		Chloride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation ($< 10 \times \text{MDL}$).
		Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation ($< 10 \times \text{MDL}$).
	WG304655	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation ($< 10 \times \text{MDL}$).
	WG304607	Nitrogen, ammonia	M350.1 - Automated Phenate	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation ($< 10 \times \text{MDL}$).

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L88756**

No certification qualifiers associated with this analysis

Nye County Natural Res & Fed Facilities
11-108-LK-(L)

ACZ Project ID: L88756
Date Received: 06/23/2011 09:56
Received By: gac
Date Printed: 6/24/2011

Receipt Verification

	YES	NO	NA
1) Does this project require special handling procedures such as CLP protocol?			X
2) Are the custody seals on the cooler intact?			X
3) Are the custody seals on the sample containers intact?			X
4) Is there a Chain of Custody or other directive shipping papers present?	X		
5) Is the Chain of Custody complete?	X		
6) Is the Chain of Custody in agreement with the samples received?	X		
7) Is there enough sample for all requested analyses?	X		
8) Are all samples within holding times for requested analyses?	X		
9) Were all sample containers received intact?	X		
10) Are the temperature blanks present?			X
11) Are the trip blanks (VOA and/or Cyanide) present?			X
12) Are samples requiring no headspace, headspace free?			X
13) Do the samples that require a Foreign Soils Permit have one?			X

Exceptions: If you answered no to any of the above questions, please describe

N/A

Contact (For any discrepancies, the client must be contacted)

N/A

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/hr)
Na13282	6.5	15

Client must contact ACZ Project Manager if analysis should not proceed for samples received outside of thermal preservation acceptance criteria.

Notes

Nye County Natural Res & Fed Facilities
11-108-LK-(L)

ACZ Project ID: L88756
Date Received: 06/23/2011 09:56
Received By: gac
Date Printed: 6/24/2011

Sample Container Preservation

SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y < 2	YG < 2	B < 2	O < 2	T > 12	N/A	RAD	ID
L88756-01	INYO-BLM#1		Y		Y							<input type="checkbox"/>
L88756-02	NC-GWE-55D		Y		Y							<input type="checkbox"/>
L88756-03	NC-GWE-B29		Y		Y							<input type="checkbox"/>

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
B	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
O	Raw/Sulfuric	ORANGE	pH must be < 2
P	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Y	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 µR/hr

* pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By: gac



Nye County Nuclear Waste Repository Project Office

Form TP 11.1-1 Rev 0

Lab Name:	ACZ
Recipient:	Tony Antalek
Telephone	800-334-5493
Address	2773 Downhill Drive Steamboat Springs, CO 80487
Person Accepting Custody:	WCS
Date/Time:	6/13/11 09:50

Recipient: Please acknowledge receipt of this shipment and return completed within 10 working days to:
Nye County Nuclear Waste Repository Project Office
Quality Assurance Records Center (QARC)
2101 E. Calvada Blvd, Suite 100
Pahrump, NV 89048
775-727-7727

Person Releasing Custody for Nye County : *[Signature]*

Date/Time: 6/22/11 10:15

Recipient: Please acknowledge receipt of this shipment and return completed within 10 working days to:

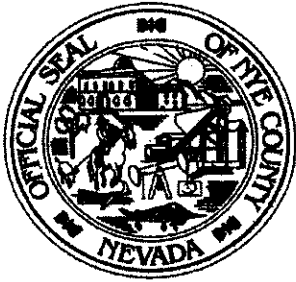
Nye County Nuclear Waste Repository Project Office
Quality Assurance Records Center (QARC)
2101 E. Calvada Blvd, Suite 100
Pahrump, NV 89048
775-727-7727

Person Releasing Custody for Nye County :

Date/Time: 6/22/11 10:15

Date:

Checked By



Nye County
Nuclear Waste Repository Project Office
2101 E. Calvada Blvd. Ste. #100 · Pahrump, Nevada 89060
(775) 727-7727 · Fax (775) 727-7919

11-108-LK-(L)

June 22, 2011

ACZ Laboratories
Tony Antalek
2773 Downhill Drive
Steamboat Springs, CO 80487

Water Sample Analyses for the Nye County Groundwater Evaluation Program

Dear Mr. Antalek:

Enclosed are the ground water samples collected at Wells Inyo BLM #1, NC-GWE-55D, and NC-GWE-B29. These samples are to be analyzed under quotation "NC-GWE-WELLS-2010". This is the only shipment under this letter.

Please sign and date the attached Chain of Custody form and return to my attention at the address listed above. When the analyses have been completed, please send a copy of the final report to the same address.

If you have any questions regarding the samples or analyses, please contact me by phone at (775) 727-7727, fax at (775) 727-7919, or email at lkryder@co.nye.nv.us.

Respectfully,
NYE COUNTY, NEVADA

A handwritten signature in black ink, appearing to read "Levi Kryder", is written over a horizontal line.

Levi Kryder
Geoscience Manager

Enclosures: as stated

LK/cs

April 04, 2011

Report to:

Roger Mcrae
Nye County Natural Res & Fed Facilities
2101 E. Calvada Blvd. Suite 100
Pahrump, NV 89048

Bill to:

Levi Kryder
Nye County Natural Res & Fed Facilities
2101 E. Calvada Blvd. Suite 100
Pahrump, NV 89048

cc: Levi Kryder

Project ID: 11-034-LK-(L)

ACZ Project ID: L87105

Roger Mcrae:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on March 24, 2011. This project has been assigned to ACZ's project number, L87105. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L87105. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after May 04, 2011. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than \$10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.



Tony Antalek has reviewed and
approved this report.



Nye County Natural Res & Fed Facilities

Project ID: 11-034-LK-(L)

Sample ID: NC-GWE-OV-1

ACZ Sample ID: **L87105-01**

Date Sampled: 03/21/11 00:00

Date Received: 03/24/11

Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							03/29/11 16:35	mpb

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP		U		mg/L	0.03	0.2	03/25/11 22:39	jjc
Antimony, dissolved	M200.8 ICP-MS		U		mg/L	0.0004	0.002	03/29/11 23:13	msh
Arsenic, dissolved	M200.8 ICP-MS	0.0210			mg/L	0.0005	0.002	03/29/11 23:13	msh
Barium, dissolved	M200.7 ICP	0.031			mg/L	0.003	0.02	03/25/11 22:39	jjc
Beryllium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/25/11 22:39	jjc
Boron, dissolved	M200.7 ICP	0.72			mg/L	0.01	0.05	03/25/11 22:39	jjc
Cadmium, dissolved	M200.7 ICP		U		mg/L	0.005	0.02	03/25/11 22:39	jjc
Calcium, dissolved	M200.7 ICP	55.1			mg/L	0.2	1	03/25/11 22:39	jjc
Chromium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/25/11 22:39	jjc
Cobalt, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/25/11 22:39	jjc
Copper, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/25/11 22:39	jjc
Iron, dissolved	M200.7 ICP	0.11			mg/L	0.02	0.05	03/25/11 22:39	jjc
Lead, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	03/29/11 23:13	msh
Lithium, dissolved	M200.7 ICP	0.26			mg/L	0.02	0.1	03/25/11 22:39	jjc
Magnesium, dissolved	M200.7 ICP	8.9			mg/L	0.2	1	03/25/11 22:39	jjc
Manganese, dissolved	M200.7 ICP	0.626			mg/L	0.005	0.03	03/25/11 22:39	jjc
Molybdenum, dissolved	M200.7 ICP	0.02	B		mg/L	0.01	0.05	03/25/11 22:39	jjc
Nickel, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/25/11 22:39	jjc
Potassium, dissolved	M200.7 ICP	11.7			mg/L	0.3	2	03/25/11 22:39	jjc
Selenium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0003	03/29/11 23:13	msh
Silica, dissolved	M200.7 ICP	60.5			mg/L	0.4	2	03/25/11 22:39	jjc
Silver, dissolved	M200.8 ICP-MS		U		mg/L	0.00005	0.0003	03/29/11 23:13	msh
Sodium, dissolved	M200.7 ICP	346			mg/L	0.3	2	03/25/11 22:39	jjc
Strontium, dissolved	M200.7 ICP	0.48			mg/L	0.01	0.05	03/25/11 22:39	jjc
Thallium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	03/29/11 23:13	msh
Titanium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	03/25/11 22:39	jjc
Uranium, dissolved	M200.8 ICP-MS	0.0085			mg/L	0.0001	0.0005	03/29/11 23:13	msh
Vanadium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	03/25/11 22:39	jjc
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/25/11 22:39	jjc

Nye County Natural Res & Fed Facilities

Project ID: 11-034-LK-(L)

Sample ID: NC-GWE-OV-1

ACZ Sample ID: **L87105-01**

Date Sampled: 03/21/11 00:00

Date Received: 03/24/11

Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration								
Bicarbonate as CaCO ₃		451			mg/L	2	20	04/02/11 0:00	las
Carbonate as CaCO ₃			U		mg/L	2	20	04/02/11 0:00	las
Hydroxide as CaCO ₃			U		mg/L	2	20	04/02/11 0:00	las
Total Alkalinity		451			mg/L	2	20	04/02/11 0:00	las
Bromide	M300.0 - Ion Chromatography	0.6		*	mg/L	0.1	0.5	03/29/11 14:45	ccp
Chloride	M300.0 - Ion Chromatography	156		*	mg/L	5	30	03/29/11 14:45	ccp
Fluoride	M300.0 - Ion Chromatography	6		*	mg/L	1	5	03/29/11 14:45	ccp
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved		U	*	mg/L	0.02	0.1	03/31/11 23:50	pjb
Nitrogen, ammonia	M350.1 - Automated Phenate	0.07	B	*	mg/L	0.05	0.5	04/02/11 15:05	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.07		*	mg/L	0.01	0.05	03/29/11 21:38	itk
Residue, Filterable (TDS) @180C	SM2540C	1180			mg/L	10	20	03/24/11 15:41	abm
Sulfate	M300.0 - Ion Chromatography	239			mg/L	5	30	03/29/11 14:45	ccp

Nye County Natural Res & Fed Facilities

Project ID: 11-034-LK-(L)

Sample ID: NC-GF1-D

ACZ Sample ID: **L87105-02**

Date Sampled: 03/21/11 00:00

Date Received: 03/24/11

Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							03/29/11 16:39	mpb

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP		U		mg/L	0.03	0.2	03/25/11 22:43	jjc
Antimony, dissolved	M200.8 ICP-MS		U		mg/L	0.0004	0.002	03/29/11 23:16	msh
Arsenic, dissolved	M200.8 ICP-MS	0.0209			mg/L	0.0005	0.002	03/29/11 23:16	msh
Barium, dissolved	M200.7 ICP	0.031			mg/L	0.003	0.02	03/25/11 22:43	jjc
Beryllium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/25/11 22:43	jjc
Boron, dissolved	M200.7 ICP	0.73			mg/L	0.01	0.05	03/25/11 22:43	jjc
Cadmium, dissolved	M200.7 ICP		U		mg/L	0.005	0.02	03/25/11 22:43	jjc
Calcium, dissolved	M200.7 ICP	55.3			mg/L	0.2	1	03/25/11 22:43	jjc
Chromium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/25/11 22:43	jjc
Cobalt, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/25/11 22:43	jjc
Copper, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/25/11 22:43	jjc
Iron, dissolved	M200.7 ICP	0.10			mg/L	0.02	0.05	03/25/11 22:43	jjc
Lead, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	03/29/11 23:16	msh
Lithium, dissolved	M200.7 ICP	0.26			mg/L	0.02	0.1	03/25/11 22:43	jjc
Magnesium, dissolved	M200.7 ICP	8.9			mg/L	0.2	1	03/25/11 22:43	jjc
Manganese, dissolved	M200.7 ICP	0.636			mg/L	0.005	0.03	03/25/11 22:43	jjc
Molybdenum, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/25/11 22:43	jjc
Nickel, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/25/11 22:43	jjc
Potassium, dissolved	M200.7 ICP	11.8			mg/L	0.3	2	03/25/11 22:43	jjc
Selenium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0003	03/29/11 23:16	msh
Silica, dissolved	M200.7 ICP	61.2			mg/L	0.4	2	03/25/11 22:43	jjc
Silver, dissolved	M200.8 ICP-MS		U		mg/L	0.00005	0.0003	03/29/11 23:16	msh
Sodium, dissolved	M200.7 ICP	351			mg/L	0.3	2	03/25/11 22:43	jjc
Strontium, dissolved	M200.7 ICP	0.49			mg/L	0.01	0.05	03/25/11 22:43	jjc
Thallium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	03/29/11 23:16	msh
Titanium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	03/25/11 22:43	jjc
Uranium, dissolved	M200.8 ICP-MS	0.0088			mg/L	0.0001	0.0005	03/29/11 23:16	msh
Vanadium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	03/25/11 22:43	jjc
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/25/11 22:43	jjc

Nye County Natural Res & Fed Facilities

Project ID: 11-034-LK-(L)

Sample ID: NC-GF1-D

ACZ Sample ID: **L87105-02**

Date Sampled: 03/21/11 00:00

Date Received: 03/24/11

Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration								
Bicarbonate as CaCO ₃		451			mg/L	2	20	04/02/11 0:00	las
Carbonate as CaCO ₃			U		mg/L	2	20	04/02/11 0:00	las
Hydroxide as CaCO ₃			U		mg/L	2	20	04/02/11 0:00	las
Total Alkalinity		451			mg/L	2	20	04/02/11 0:00	las
Bromide	M300.0 - Ion Chromatography	0.6		*	mg/L	0.1	0.5	03/29/11 15:28	ccp
Chloride	M300.0 - Ion Chromatography	155		*	mg/L	5	30	03/29/11 15:28	ccp
Fluoride	M300.0 - Ion Chromatography	6		*	mg/L	1	5	03/29/11 15:28	ccp
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved		U	*	mg/L	0.02	0.1	03/31/11 23:52	pjb
Nitrogen, ammonia	M350.1 - Automated Phenate	0.05	B	*	mg/L	0.05	0.5	04/02/11 15:07	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.07		*	mg/L	0.01	0.05	03/29/11 21:39	itk
Residue, Filterable (TDS) @180C	SM2540C	1170			mg/L	10	20	03/24/11 15:41	abm
Sulfate	M300.0 - Ion Chromatography	238			mg/L	5	30	03/29/11 15:28	ccp

Nye County Natural Res & Fed Facilities

Project ID: 11-034-LK-(L)

Sample ID: OV-SOUTH SPRING

ACZ Sample ID: **L87105-03**

Date Sampled: 03/21/11 00:00

Date Received: 03/24/11

Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							03/29/11 16:43	mpb

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP		U		mg/L	0.03	0.2	03/25/11 22:46	jjc
Antimony, dissolved	M200.8 ICP-MS		U		mg/L	0.0004	0.002	03/29/11 23:19	msh
Arsenic, dissolved	M200.8 ICP-MS	0.0239			mg/L	0.0005	0.002	03/29/11 23:19	msh
Barium, dissolved	M200.7 ICP	0.049			mg/L	0.003	0.02	03/25/11 22:46	jjc
Beryllium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/25/11 22:46	jjc
Boron, dissolved	M200.7 ICP	0.77			mg/L	0.01	0.05	03/25/11 22:46	jjc
Cadmium, dissolved	M200.7 ICP		U		mg/L	0.005	0.02	03/25/11 22:46	jjc
Calcium, dissolved	M200.7 ICP	63.9			mg/L	0.2	1	03/25/11 22:46	jjc
Chromium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/25/11 22:46	jjc
Cobalt, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/25/11 22:46	jjc
Copper, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/25/11 22:46	jjc
Iron, dissolved	M200.7 ICP	0.25			mg/L	0.02	0.05	03/25/11 22:46	jjc
Lead, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	03/29/11 23:19	msh
Lithium, dissolved	M200.7 ICP	0.29			mg/L	0.02	0.1	03/25/11 22:46	jjc
Magnesium, dissolved	M200.7 ICP	11.1			mg/L	0.2	1	03/25/11 22:46	jjc
Manganese, dissolved	M200.7 ICP	1.230			mg/L	0.005	0.03	03/25/11 22:46	jjc
Molybdenum, dissolved	M200.7 ICP	0.02	B		mg/L	0.01	0.05	03/25/11 22:46	jjc
Nickel, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/25/11 22:46	jjc
Potassium, dissolved	M200.7 ICP	12.4			mg/L	0.3	2	03/25/11 22:46	jjc
Selenium, dissolved	M200.8 ICP-MS	0.0005			mg/L	0.0001	0.0003	03/29/11 23:19	msh
Silica, dissolved	M200.7 ICP	62.0			mg/L	0.4	2	03/25/11 22:46	jjc
Silver, dissolved	M200.8 ICP-MS		U		mg/L	0.00005	0.0003	03/29/11 23:19	msh
Sodium, dissolved	M200.7 ICP	367			mg/L	0.3	2	03/25/11 22:46	jjc
Strontium, dissolved	M200.7 ICP	0.57			mg/L	0.01	0.05	03/25/11 22:46	jjc
Thallium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	03/29/11 23:19	msh
Titanium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	03/25/11 22:46	jjc
Uranium, dissolved	M200.8 ICP-MS	0.0117			mg/L	0.0001	0.0005	03/29/11 23:19	msh
Vanadium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	03/25/11 22:46	jjc
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/25/11 22:46	jjc

Nye County Natural Res & Fed Facilities

Project ID: 11-034-LK-(L)

Sample ID: OV-SOUTH SPRING

ACZ Sample ID: **L87105-03**

Date Sampled: 03/21/11 00:00

Date Received: 03/24/11

Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration								
Bicarbonate as CaCO ₃		485			mg/L	2	20	04/02/11 0:00	las
Carbonate as CaCO ₃			U		mg/L	2	20	04/02/11 0:00	las
Hydroxide as CaCO ₃			U		mg/L	2	20	04/02/11 0:00	las
Total Alkalinity		485			mg/L	2	20	04/02/11 0:00	las
Bromide	M300.0 - Ion Chromatography	0.6		*	mg/L	0.1	0.5	03/29/11 16:10	ccp
Chloride	M300.0 - Ion Chromatography	165		*	mg/L	5	30	03/29/11 16:10	ccp
Fluoride	M300.0 - Ion Chromatography	7		*	mg/L	1	5	03/29/11 16:10	ccp
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved		U	*	mg/L	0.02	0.1	03/31/11 23:53	pjb
Nitrogen, ammonia	M350.1 - Automated Phenate	0.07	B	*	mg/L	0.05	0.5	04/02/11 15:09	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.07		*	mg/L	0.01	0.05	03/29/11 21:43	itk
Residue, Filterable (TDS) @180C	SM2540C	1240			mg/L	10	20	03/24/11 15:42	abm
Sulfate	M300.0 - Ion Chromatography	265			mg/L	5	30	03/29/11 16:10	ccp

Nye County Natural Res & Fed Facilities

Project ID: 11-034-LK-(L)

Sample ID: OV-NORTH SPRING

ACZ Sample ID: **L87105-04**

Date Sampled: 03/21/11 00:00

Date Received: 03/24/11

Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							03/29/11 16:47	mpb

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP		U		mg/L	0.03	0.2	03/25/11 22:49	jjc
Antimony, dissolved	M200.8 ICP-MS		U		mg/L	0.0004	0.002	03/29/11 23:22	msh
Arsenic, dissolved	M200.8 ICP-MS	0.0246			mg/L	0.0005	0.002	03/29/11 23:22	msh
Barium, dissolved	M200.7 ICP	0.023			mg/L	0.003	0.02	03/25/11 22:49	jjc
Beryllium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/25/11 22:49	jjc
Boron, dissolved	M200.7 ICP	1.00			mg/L	0.01	0.05	03/25/11 22:49	jjc
Cadmium, dissolved	M200.7 ICP		U		mg/L	0.005	0.02	03/25/11 22:49	jjc
Calcium, dissolved	M200.7 ICP	65.2			mg/L	0.2	1	03/25/11 22:49	jjc
Chromium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/25/11 22:49	jjc
Cobalt, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/25/11 22:49	jjc
Copper, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/25/11 22:49	jjc
Iron, dissolved	M200.7 ICP	0.06			mg/L	0.02	0.05	03/25/11 22:49	jjc
Lead, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	03/29/11 23:22	msh
Lithium, dissolved	M200.7 ICP	0.39			mg/L	0.02	0.1	03/25/11 22:49	jjc
Magnesium, dissolved	M200.7 ICP	12.1			mg/L	0.2	1	03/25/11 22:49	jjc
Manganese, dissolved	M200.7 ICP	0.143			mg/L	0.005	0.03	03/25/11 22:49	jjc
Molybdenum, dissolved	M200.7 ICP	0.02	B		mg/L	0.01	0.05	03/25/11 22:49	jjc
Nickel, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/25/11 22:49	jjc
Potassium, dissolved	M200.7 ICP	19.6			mg/L	0.3	2	03/25/11 22:49	jjc
Selenium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0003	03/29/11 23:22	msh
Silica, dissolved	M200.7 ICP	57.6			mg/L	0.4	2	03/25/11 22:49	jjc
Silver, dissolved	M200.8 ICP-MS		U		mg/L	0.00005	0.0003	03/29/11 23:22	msh
Sodium, dissolved	M200.7 ICP	533			mg/L	0.3	2	03/25/11 22:49	jjc
Strontium, dissolved	M200.7 ICP	0.62			mg/L	0.01	0.05	03/25/11 22:49	jjc
Thallium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	03/29/11 23:22	msh
Titanium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	03/25/11 22:49	jjc
Uranium, dissolved	M200.8 ICP-MS	0.0102			mg/L	0.0001	0.0005	03/29/11 23:22	msh
Vanadium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	03/25/11 22:49	jjc
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/25/11 22:49	jjc

Nye County Natural Res & Fed Facilities

Project ID: 11-034-LK-(L)

Sample ID: OV-NORTH SPRING

ACZ Sample ID: **L87105-04**

Date Sampled: 03/21/11 00:00

Date Received: 03/24/11

Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration								
Bicarbonate as CaCO ₃		600			mg/L	2	20	04/02/11 0:00	las
Carbonate as CaCO ₃		33			mg/L	2	20	04/02/11 0:00	las
Hydroxide as CaCO ₃			U		mg/L	2	20	04/02/11 0:00	las
Total Alkalinity		634			mg/L	2	20	04/02/11 0:00	las
Bromide	M300.0 - Ion Chromatography	0.6		*	mg/L	0.1	0.5	03/28/11 17:36	ccp
Chloride	M300.0 - Ion Chromatography	134		*	mg/L	5	30	03/28/11 17:36	ccp
Fluoride	M300.0 - Ion Chromatography	5	B	*	mg/L	1	5	03/28/11 17:36	ccp
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved		U	*	mg/L	0.02	0.1	03/31/11 23:55	pjb
Nitrogen, ammonia	M350.1 - Automated Phenate		U	*	mg/L	0.05	0.5	04/02/11 15:10	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.06		*	mg/L	0.01	0.05	03/29/11 21:44	itk
Residue, Filterable (TDS) @180C	SM2540C	1960			mg/L	10	20	03/24/11 15:43	abm
Sulfate	M300.0 - Ion Chromatography	212		*	mg/L	5	30	03/28/11 17:36	ccp

Nye County Natural Res & Fed Facilities

Project ID: 11-034-LK-(L)

Sample ID: NC-GF1-B

ACZ Sample ID: **L87105-05**

Date Sampled: 03/21/11 00:00

Date Received: 03/24/11

Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion							03/29/11 16:51	mpb

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	0.12	B		mg/L	0.03	0.2	03/25/11 23:00	jjc
Antimony, dissolved	M200.8 ICP-MS		U		mg/L	0.0004	0.002	03/29/11 23:25	msh
Arsenic, dissolved	M200.8 ICP-MS		U		mg/L	0.0005	0.002	03/29/11 23:25	msh
Barium, dissolved	M200.7 ICP		U		mg/L	0.003	0.02	03/25/11 23:00	jjc
Beryllium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/25/11 23:00	jjc
Boron, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/25/11 23:00	jjc
Cadmium, dissolved	M200.7 ICP		U		mg/L	0.005	0.02	03/25/11 23:00	jjc
Calcium, dissolved	M200.7 ICP	1.2			mg/L	0.2	1	03/25/11 23:00	jjc
Chromium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/25/11 23:00	jjc
Cobalt, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/25/11 23:00	jjc
Copper, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/25/11 23:00	jjc
Iron, dissolved	M200.7 ICP	0.11			mg/L	0.02	0.05	03/25/11 23:00	jjc
Lead, dissolved	M200.8 ICP-MS	0.0001	B		mg/L	0.0001	0.0005	03/29/11 23:25	msh
Lithium, dissolved	M200.7 ICP		U		mg/L	0.02	0.1	03/25/11 23:00	jjc
Magnesium, dissolved	M200.7 ICP		U		mg/L	0.2	1	03/25/11 23:00	jjc
Manganese, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	03/25/11 23:00	jjc
Molybdenum, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/25/11 23:00	jjc
Nickel, dissolved	M200.7 ICP		U	*	mg/L	0.01	0.05	03/25/11 23:00	jjc
Potassium, dissolved	M200.7 ICP		U		mg/L	0.3	2	03/25/11 23:00	jjc
Selenium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0003	03/29/11 23:25	msh
Silica, dissolved	M200.7 ICP	11.3			mg/L	0.4	2	03/25/11 23:00	jjc
Silver, dissolved	M200.8 ICP-MS		U		mg/L	0.00005	0.0003	03/29/11 23:25	msh
Sodium, dissolved	M200.7 ICP	2.6			mg/L	0.3	2	03/25/11 23:00	jjc
Strontium, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/25/11 23:00	jjc
Thallium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	03/29/11 23:25	msh
Titanium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	03/25/11 23:00	jjc
Uranium, dissolved	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	03/29/11 23:25	msh
Vanadium, dissolved	M200.7 ICP		U		mg/L	0.005	0.03	03/25/11 23:00	jjc
Zinc, dissolved	M200.7 ICP		U		mg/L	0.01	0.05	03/26/11 15:17	jjc

Nye County Natural Res & Fed Facilities

Project ID: 11-034-LK-(L)

Sample ID: NC-GF1-B

ACZ Sample ID: **L87105-05**

Date Sampled: 03/21/11 00:00

Date Received: 03/24/11

Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration								
Bicarbonate as CaCO ₃		15	B		mg/L	2	20	04/02/11 0:00	las
Carbonate as CaCO ₃		8	B		mg/L	2	20	04/02/11 0:00	las
Hydroxide as CaCO ₃			U		mg/L	2	20	04/02/11 0:00	las
Total Alkalinity		23			mg/L	2	20	04/02/11 0:00	las
Bromide	M300.0 - Ion Chromatography		U	*	mg/L	0.01	0.05	03/28/11 17:57	ccp
Chloride	M300.0 - Ion Chromatography		U	*	mg/L	0.5	3	03/28/11 17:57	ccp
Fluoride	M300.0 - Ion Chromatography		U	*	mg/L	0.1	0.5	03/28/11 17:57	ccp
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved		U	*	mg/L	0.02	0.1	03/31/11 23:57	pjb
Nitrogen, ammonia	M350.1 - Automated Phenate		U	*	mg/L	0.05	0.5	04/02/11 15:11	pjb
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)		U	*	mg/L	0.01	0.05	03/29/11 21:45	itk
Residue, Filterable (TDS) @180C	SM2540C	20	B		mg/L	10	20	03/24/11 15:43	abm
Sulfate	M300.0 - Ion Chromatography		U		mg/L	0.5	3	03/28/11 17:57	ccp

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit, typically 5 times the MDL.
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	LCSWD	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	LFB	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	LFM	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	LFMD	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	LRB	Laboratory Reagent Blank
ICB	Initial Calibration Blank	MS	Matrix Spike
ICV	Initial Calibration Verification standard	MSD	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	PBS	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	PBW	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	PQV	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	SDL	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

- (1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
- (2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
- (3) EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
- (5) EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December 1996.
- (6) Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995 & 20th edition (1998).

Comments

- (1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
- (3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click:

<http://www.acz.com/public/extquallist.pdf>

Nye County Natural Res & Fed Facilities
 Project ID: 11-034-LK-(L)

ACZ Project ID: **L87105**

Alkalinity as CaCO3 SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG299304													
WG299304PBW1	PBW	04/02/11 11:46				U	mg/L		-20	20			
WG299304LCSW2	LCSW	04/02/11 11:59	WC110401-1	820.0001		768	mg/L	93.7	98	110			
L87105-02DUP	DUP	04/02/11 13:58			451	447	mg/L				0.9	20	
L87174-01DUP	DUP	04/02/11 15:34			401	401.6	mg/L				0.1	20	
WG299304PBW2	PBW	04/02/11 15:39				U	mg/L		-20	20			
WG299304LCSW5	LCSW	04/02/11 15:52	WC110401-1	820.0001		779.5	mg/L	95.1	98	110			
WG299304PBW3	PBW	04/02/11 18:49				U	mg/L		-20	20			
WG299304LCSW8	LCSW	04/02/11 19:03	WC110401-1	820.0001		778.5	mg/L	94.9	98	110			
WG299304PBW4	PBW	04/03/11 0:03				U	mg/L		-20	20			
WG299304LCSW11	LCSW	04/03/11 0:17	WC110401-1	820.0001		786.8	mg/L	96	98	110			
WG299304LCSW14	LCSW	04/03/11 2:08	WC110401-1	820.0001		790.6	mg/L	96.4	98	110			

Aluminum, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG298976													
WG298976ICV	ICV	03/25/11 21:21	II110104-1	2		1.974	mg/L	98.7	95	105			
WG298976ICB	ICB	03/25/11 21:25				U	mg/L		-0.09	0.09			
WG298976LFB	LFB	03/25/11 21:38	II110321-2	1		1.056	mg/L	105.6	85	115			
L87099-03AS	AS	03/25/11 22:32	II110321-2	1	U	1.014	mg/L	101.4	85	115			
L87099-03ASD	ASD	03/25/11 22:36	II110321-2	1	U	.974	mg/L	97.4	85	115	4.02	20	

Antimony, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG299126													
WG299126ICV	ICV	03/29/11 21:53	MS110128-1	.02		.02077	mg/L	103.9	90	110			
WG299126ICB	ICB	03/29/11 21:56				U	mg/L		-0.00088	0.00088			
WG299126LFB	LFB	03/29/11 22:02	MS110315-3	.01		.01021	mg/L	102.1	85	115			
L87082-05AS	AS	03/29/11 22:49	MS110315-3	.01	.0008	.01061	mg/L	98.1	70	130			
L87082-05ASD	ASD	03/29/11 22:52	MS110315-3	.01	.0008	.01086	mg/L	100.6	70	130	2.33	20	

Arsenic, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG299126													
WG299126ICV	ICV	03/29/11 21:53	MS110128-1	.05		.0518	mg/L	103.6	90	110			
WG299126ICB	ICB	03/29/11 21:56				U	mg/L		-0.0011	0.0011			
WG299126LFB	LFB	03/29/11 22:02	MS110315-3	.05005		.04929	mg/L	98.5	85	115			
L87082-05AS	AS	03/29/11 22:49	MS110315-3	.05005	.0008	.05289	mg/L	104.1	70	130			
L87082-05ASD	ASD	03/29/11 22:52	MS110315-3	.05005	.0008	.05332	mg/L	104.9	70	130	0.81	20	

Barium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG298976													
WG298976ICV	ICV	03/25/11 21:21	II110104-1	2		2.0097	mg/L	100.5	95	105			
WG298976ICB	ICB	03/25/11 21:25				U	mg/L		-0.009	0.009			
WG298976LFB	LFB	03/25/11 21:38	II110321-2	.5		.4968	mg/L	99.4	85	115			
L87099-03AS	AS	03/25/11 22:32	II110321-2	.5	.021	.5179	mg/L	99.4	85	115			
L87099-03ASD	ASD	03/25/11 22:36	II110321-2	.5	.021	.5241	mg/L	100.6	85	115	1.19	20	

Nye County Natural Res & Fed Facilities
 Project ID: 11-034-LK-(L)

ACZ Project ID: **L87105**

Beryllium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG298976													
WG298976ICV	ICV	03/25/11 21:21	II110104-1	2		2.016	mg/L	100.8	95	105			
WG298976ICB	ICB	03/25/11 21:25				U	mg/L		-0.03	0.03			
WG298976LFB	LFB	03/25/11 21:38	II110321-2	.5		.518	mg/L	103.6	85	115			
L87099-03AS	AS	03/25/11 22:32	II110321-2	.5	U	.524	mg/L	104.8	85	115			
L87099-03ASD	ASD	03/25/11 22:36	II110321-2	.5	U	.534	mg/L	106.8	85	115	1.89	20	

Boron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG298976													
WG298976ICV	ICV	03/25/11 21:21	II110104-1	2		2.081	mg/L	104.1	95	105			
WG298976ICB	ICB	03/25/11 21:25				U	mg/L		-0.03	0.03			
WG298976LFB	LFB	03/25/11 21:38	II110321-2	.5005		.515	mg/L	102.9	85	115			
L87099-03AS	AS	03/25/11 22:32	II110321-2	.5005	.1	.626	mg/L	105.1	85	115			
L87099-03ASD	ASD	03/25/11 22:36	II110321-2	.5005	.1	.642	mg/L	108.3	85	115	2.52	20	

Bromide

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG298323													
WG298323ICV	ICV	03/16/11 14:46	WI110217-4	4.012		4.075	mg/L	101.6	90	110			
WG298323ICB	ICB	03/16/11 15:07				U	mg/L		-0.03	0.03			
WG299026													
WG299026LFB	LFB	03/28/11 13:22	WI110218-1	1.5		1.456	mg/L	97.1	90	110			
L87098-01DUP	DUP	03/28/11 14:04			U	U	mg/L				0	20	RA
L87098-02AS	AS	03/29/11 14:24	WI110218-1	30	U	28.14	mg/L	93.8	90	110			

Cadmium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG298976													
WG298976ICV	ICV	03/25/11 21:21	II110104-1	2		2.0008	mg/L	100	95	105			
WG298976ICB	ICB	03/25/11 21:25				U	mg/L		-0.015	0.015			
WG298976LFB	LFB	03/25/11 21:38	II110321-2	.5		.5131	mg/L	102.6	85	115			
L87099-03AS	AS	03/25/11 22:32	II110321-2	.5	U	.5257	mg/L	105.1	85	115			
L87099-03ASD	ASD	03/25/11 22:36	II110321-2	.5	U	.536	mg/L	107.2	85	115	1.94	20	

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG298976													
WG298976ICV	ICV	03/25/11 21:21	II110104-1	100		101.7	mg/L	101.7	95	105			
WG298976ICB	ICB	03/25/11 21:25				U	mg/L		-0.6	0.6			
WG298976LFB	LFB	03/25/11 21:38	II110321-2	67.99898		72.04	mg/L	105.9	85	115			
L87099-03AS	AS	03/25/11 22:32	II110321-2	67.99898	107	175.32	mg/L	100.5	85	115			
L87099-03ASD	ASD	03/25/11 22:36	II110321-2	67.99898	107	176.6	mg/L	102.4	85	115	0.73	20	

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L87105**

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Chloride

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG298323													
WG298323ICV	ICV	03/16/11 14:46	WI110217-4	20.06		20.1	mg/L	100.2	90	110			
WG298323ICB	ICB	03/16/11 15:07				U	mg/L		-1.5	1.5			
WG299026													
WG299026LFB	LFB	03/28/11 13:22	WI110218-1	30		30.25	mg/L	100.8	90	110			
L87098-01DUP	DUP	03/28/11 14:04			U	U	mg/L				0	20	RA
L87098-02AS	AS	03/28/11 14:47	WI110218-1	30	.7	30.74	mg/L	100.1	90	110			
L87107-01DUP	DUP	03/28/11 18:39			340	334	mg/L				1.8	20	RA
L87107-02AS	AS	03/28/11 19:21	WI110218-1	30	12.3	42.19	mg/L	99.6	90	110			

Chromium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG298976													
WG298976ICV	ICV	03/25/11 21:21	II110104-1	2		2.059	mg/L	103	95	105			
WG298976ICB	ICB	03/25/11 21:25				U	mg/L		-0.03	0.03			
WG298976LFB	LFB	03/25/11 21:38	II110321-2	.5		.515	mg/L	103	85	115			
L87099-03AS	AS	03/25/11 22:32	II110321-2	.5	U	.528	mg/L	105.6	85	115			
L87099-03ASD	ASD	03/25/11 22:36	II110321-2	.5	U	.543	mg/L	108.6	85	115	2.8	20	

Cobalt, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG298976													
WG298976ICV	ICV	03/25/11 21:21	II110104-1	2		1.993	mg/L	99.7	95	105			
WG298976ICB	ICB	03/25/11 21:25				U	mg/L		-0.03	0.03			
WG298976LFB	LFB	03/25/11 21:38	II110321-2	.5		.498	mg/L	99.6	85	115			
L87099-03AS	AS	03/25/11 22:32	II110321-2	.5	U	.511	mg/L	102.2	85	115			
L87099-03ASD	ASD	03/25/11 22:36	II110321-2	.5	U	.52	mg/L	104	85	115	1.75	20	

Copper, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG298976													
WG298976ICV	ICV	03/25/11 21:21	II110104-1	2		1.922	mg/L	96.1	95	105			
WG298976ICB	ICB	03/25/11 21:25				U	mg/L		-0.03	0.03			
WG298976LFB	LFB	03/25/11 21:38	II110321-2	.5		.507	mg/L	101.4	85	115			
L87099-03AS	AS	03/25/11 22:32	II110321-2	.5	U	.487	mg/L	97.4	85	115			
L87099-03ASD	ASD	03/25/11 22:36	II110321-2	.5	U	.499	mg/L	99.8	85	115	2.43	20	

Fluoride

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG298323													
WG298323ICV	ICV	03/16/11 14:46	WI110217-4	4		4.15	mg/L	103.8	90	110			
WG298323ICB	ICB	03/16/11 15:07				U	mg/L		-0.3	0.3			
WG299026													
WG299026LFB	LFB	03/28/11 13:22	WI110218-1	1.5		1.55	mg/L	103.3	90	110			
L87098-01DUP	DUP	03/28/11 14:04			U	U	mg/L				0	20	RA
L87098-02AS	AS	03/28/11 14:47	WI110218-1	1.5	.1	1.6	mg/L	100	90	110			
L87107-02AS	AS	03/28/11 19:21	WI110218-1	1.5	17.9	18.72	mg/L		90	110			

Nye County Natural Res & Fed Facilities
 Project ID: 11-034-LK-(L)

ACZ Project ID: **L87105**

Iron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG298976													
WG298976ICV	ICV	03/25/11 21:21	II110104-1	2		2.002	mg/L	100.1	95	105			
WG298976ICB	ICB	03/25/11 21:25				U	mg/L		-0.06	0.06			
WG298976LFB	LFB	03/25/11 21:38	II110321-2	1		1.046	mg/L	104.6	85	115			
L87099-03AS	AS	03/25/11 22:32	II110321-2	1	.11	1.145	mg/L	103.5	85	115			
L87099-03ASD	ASD	03/25/11 22:36	II110321-2	1	.11	1.16	mg/L	105	85	115	1.3	20	

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG299126													
WG299126ICV	ICV	03/29/11 21:53	MS110128-1	.05		.0509	mg/L	101.8	90	110			
WG299126ICB	ICB	03/29/11 21:56				.00016	mg/L		-0.00022	0.00022			
WG299126LFB	LFB	03/29/11 22:02	MS110315-3	.05005		.04952	mg/L	98.9	85	115			
L87082-05AS	AS	03/29/11 22:49	MS110315-3	.05005	.0011	.05132	mg/L	100.3	70	130			
L87082-05ASD	ASD	03/29/11 22:52	MS110315-3	.05005	.0011	.05216	mg/L	102	70	130	1.62	20	

Lithium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG298976													
WG298976ICV	ICV	03/25/11 21:21	II110104-1	2		1.961	mg/L	98.1	95	105			
WG298976ICB	ICB	03/25/11 21:25				U	mg/L		-0.06	0.06			
WG298976LFB	LFB	03/25/11 21:38	II110321-2	1		.969	mg/L	96.9	85	115			
L87099-03AS	AS	03/25/11 22:32	II110321-2	1	.02	.985	mg/L	96.5	85	115			
L87099-03ASD	ASD	03/25/11 22:36	II110321-2	1	.02	.984	mg/L	96.4	85	115	0.1	20	

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG298976													
WG298976ICV	ICV	03/25/11 21:21	II110104-1	100		102.99	mg/L	103	95	105			
WG298976ICB	ICB	03/25/11 21:25				U	mg/L		-0.6	0.6			
WG298976LFB	LFB	03/25/11 21:38	II110321-2	49.99771		52.37	mg/L	104.7	85	115			
L87099-03AS	AS	03/25/11 22:32	II110321-2	49.99771	73.6	127.47	mg/L	107.7	85	115			
L87099-03ASD	ASD	03/25/11 22:36	II110321-2	49.99771	73.6	128.5	mg/L	109.8	85	115	0.8	20	

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG298976													
WG298976ICV	ICV	03/25/11 21:21	II110104-1	2		1.9802	mg/L	99	95	105			
WG298976ICB	ICB	03/25/11 21:25				U	mg/L		-0.015	0.015			
WG298976LFB	LFB	03/25/11 21:38	II110321-2	.5		.5317	mg/L	106.3	85	115			
L87099-03AS	AS	03/25/11 22:32	II110321-2	.5	.011	.5453	mg/L	106.9	85	115			
L87099-03ASD	ASD	03/25/11 22:36	II110321-2	.5	.011	.5528	mg/L	108.4	85	115	1.37	20	

Nye County Natural Res & Fed Facilities
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ACZ Project ID: **L87105**

Molybdenum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG298976													
WG298976ICV	ICV	03/25/11 21:21	II110104-1	2		2.031	mg/L	101.6	95	105			
WG298976ICB	ICB	03/25/11 21:25				U	mg/L		-0.03	0.03			
WG298976LFB	LFB	03/25/11 21:38	II110321-2	.5		.521	mg/L	104.2	85	115			
L87099-03AS	AS	03/25/11 22:32	II110321-2	.5	.04	.558	mg/L	103.6	85	115			
L87099-03ASD	ASD	03/25/11 22:36	II110321-2	.5	.04	.55	mg/L	102	85	115	1.44	20	

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG298976													
WG298976ICV	ICV	03/25/11 21:21	II110104-1	2.002		2.026	mg/L	101.2	95	105			
WG298976ICB	ICB	03/25/11 21:25				U	mg/L		-0.03	0.03			
WG298976LFB	LFB	03/25/11 21:38	II110321-2	.5		.517	mg/L	103.4	85	115			
L87099-03AS	AS	03/25/11 22:32	II110321-2	.5	U	.51	mg/L	102	85	115			
L87099-03ASD	ASD	03/25/11 22:36	II110321-2	.5	U	.524	mg/L	104.8	85	115	2.71	20	

Nitrate/Nitrite as N

M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG299261													
WG299261ICV	ICV	03/31/11 22:22	WI110330-1	2.416		2.418	mg/L	100.1	90	110			
WG299261ICB	ICB	03/31/11 22:23				U	mg/L		-0.06	0.06			
WG299264													
WG299264LFB1	LFB	03/31/11 23:19	WI110322-5	2		2.153	mg/L	107.7	90	110			
L87079-03AS	AS	03/31/11 23:38	WI110322-5	2	U	2.163	mg/L	108.2	90	110			
L87079-04DUP	DUP	03/31/11 23:41			U	U	mg/L				0	20	RA
WG299264LFB2	LFB	03/31/11 23:54	WI110322-5	2		1.98	mg/L	99	90	110			
L87105-04AS	AS	03/31/11 23:56	WI110322-5	2	U	2.179	mg/L	109	90	110			
L87105-05DUP	DUP	03/31/11 23:59			U	U	mg/L				0	20	RA

Nitrogen, ammonia

M350.1 - Automated Phenate

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG299314													
WG299314ICV	ICV	04/02/11 15:01	WI101121-1	1.004		1.021	mg/L	101.7	90	110			
WG299314ICB	ICB	04/02/11 15:02				U	mg/L		-0.15	0.15			
WG299314LFB	LFB	04/02/11 15:03	WI110211-5	1		1.04	mg/L	104	90	110			
L87105-01AS	AS	04/02/11 15:06	WI110211-5	1	.07	1.075	mg/L	100.5	90	110			
L87105-02DUP	DUP	04/02/11 15:08			.05	.056	mg/L				11.3	20	RA

Nye County Natural Res & Fed Facilities
 Project ID: 11-034-LK-(L)

ACZ Project ID: **L87105**

Phosphorus, total M365.1 - Auto Ascorbic Acid (digest)

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG299141													
WG299141ICV	ICV	03/29/11 18:15	WI110315-3	.65228		.658	mg/L	100.9	90	110			
WG299141ICB	ICB	03/29/11 18:17				U	mg/L		-0.03	0.03			
WG299144													
WG299128LRB	LRB	03/29/11 21:29				U	mg/L		-0.03	0.03			
WG299128LFB	LFB	03/29/11 21:30	WI110315-2	.5		.517	mg/L	103.4	90	110			
L87100-03LFM	LFM	03/29/11 21:32	WI110315-2	.5	U	.508	mg/L	101.6	90	110			
L87100-04DUP	DUP	03/29/11 21:35			U	U	mg/L				0	20	RA

Potassium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG298976													
WG298976ICV	ICV	03/25/11 21:21	II110104-1	20		20.09	mg/L	100.5	95	105			
WG298976ICB	ICB	03/25/11 21:25				U	mg/L		-0.9	0.9			
WG298976LFB	LFB	03/25/11 21:38	II110321-2	99.95064		103.71	mg/L	103.8	85	115			
L87099-03AS	AS	03/25/11 22:32	II110321-2	99.95064	.9	105.88	mg/L	105	85	115			
L87099-03ASD	ASD	03/25/11 22:36	II110321-2	99.95064	.9	104.08	mg/L	103.2	85	115	1.71	20	

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG298931													
WG298931PBW	PBW	03/24/11 15:30				U	mg/L		-20	20			
WG298931LCSW	LCSW	03/24/11 15:30	PCN36279	260		264	mg/L	101.5	80	120			
L87111-01DUP	DUP	03/24/11 15:44			900	934	mg/L				3.7	20	

Selenium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG299126													
WG299126ICV	ICV	03/29/11 21:53	MS110128-1	.05		.05295	mg/L	105.9	90	110			
WG299126ICB	ICB	03/29/11 21:56				U	mg/L		-0.00022	0.00022			
WG299126LFB	LFB	03/29/11 22:02	MS110315-3	.05005		.04803	mg/L	96	85	115			
L87082-05AS	AS	03/29/11 22:49	MS110315-3	.05005	.0002	.05054	mg/L	100.6	70	130			
L87082-05ASD	ASD	03/29/11 22:52	MS110315-3	.05005	.0002	.05105	mg/L	101.6	70	130	1	20	

Silica, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG298976													
WG298976ICV	ICV	03/25/11 21:21	II110104-1	42.8		43.71	mg/L	102.1	95	105			
WG298976ICB	ICB	03/25/11 21:25				U	mg/L		-1.2	1.2			
WG298976LFB	LFB	03/25/11 21:38	II110321-2	21.4		21.86	mg/L	102.1	85	115			
L87099-03AS	AS	03/25/11 22:32	II110321-2	21.4	20.7	41.92	mg/L	99.2	85	115			
L87099-03ASD	ASD	03/25/11 22:36	II110321-2	21.4	20.7	42.41	mg/L	101.4	85	115	1.16	20	

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L87105**

Project ID: 11-034-LK-(L)

Silver, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG299126													
WG299126ICV	ICV	03/29/11 21:53	MS110128-1	.02002		.019	mg/L	94.9	90	110			
WG299126ICB	ICB	03/29/11 21:56				U	mg/L		-0.00011	0.00011			
WG299126LFB	LFB	03/29/11 22:02	MS110315-3	.01002		.009269	mg/L	92.5	85	115			
L87082-05AS	AS	03/29/11 22:49	MS110315-3	.01002	U	.009122	mg/L	91	70	130			
L87082-05ASD	ASD	03/29/11 22:52	MS110315-3	.01002	U	.009024	mg/L	90.1	70	130	1.08	20	

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG298976													
WG298976ICV	ICV	03/25/11 21:21	II110104-1	100		100.22	mg/L	100.2	95	105			
WG298976ICB	ICB	03/25/11 21:25				U	mg/L		-0.9	0.9			
WG298976LFB	LFB	03/25/11 21:38	II110321-2	100.0117		103.16	mg/L	103.1	85	115			
L87099-03AS	AS	03/25/11 22:32	II110321-2	100.0117	115	210.11	mg/L	95.1	85	115			
L87099-03ASD	ASD	03/25/11 22:36	II110321-2	100.0117	115	209.52	mg/L	94.5	85	115	0.28	20	

Strontium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG298976													
WG298976ICV	ICV	03/25/11 21:21	II110104-1	2		1.987	mg/L	99.4	95	105			
WG298976ICB	ICB	03/25/11 21:25				U	mg/L		-0.03	0.03			
WG298976LFB	LFB	03/25/11 21:38	II110321-2	.5		.536	mg/L	107.2	85	115			
L87099-03AS	AS	03/25/11 22:32	II110321-2	.5	1.96	2.404	mg/L	88.8	85	115			
L87099-03ASD	ASD	03/25/11 22:36	II110321-2	.5	1.96	2.407	mg/L	89.4	85	115	0.12	20	

Sulfate

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG298323													
WG298323ICV	ICV	03/16/11 14:46	WI110217-4	50		50.45	mg/L	100.9	90	110			
WG298323ICB	ICB	03/16/11 15:07				U	mg/L		-1.5	1.5			
WG299026													
WG299026LFB	LFB	03/28/11 13:22	WI110218-1	30		30.43	mg/L	101.4	90	110			
L87098-01DUP	DUP	03/28/11 14:04			340	343	mg/L				0.9	20	
L87098-02AS	AS	03/29/11 14:24	WI110218-1	600	670	1253	mg/L	97.2	90	110			
L87105-02AS	AS	03/29/11 15:49	WI110218-1					98.8	90	110			

Thallium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG299126													
WG299126ICV	ICV	03/29/11 21:53	MS110128-1	.05		.05432	mg/L	108.6	90	110			
WG299126ICB	ICB	03/29/11 21:56				U	mg/L		-0.00022	0.00022			
WG299126LFB	LFB	03/29/11 22:02	MS110315-3	.0501		.05055	mg/L	100.9	85	115			
L87082-05AS	AS	03/29/11 22:49	MS110315-3	.0501	U	.05144	mg/L	102.7	70	130			
L87082-05ASD	ASD	03/29/11 22:52	MS110315-3	.0501	U	.05174	mg/L	103.3	70	130	0.58	20	

Nye County Natural Res & Fed Facilities
 Project ID: 11-034-LK-(L)

ACZ Project ID: **L87105**

Titanium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG298976													
WG298976ICV	ICV	03/25/11 21:21	II110104-1	2		2.034	mg/L	101.7	95	105			
WG298976ICB	ICB	03/25/11 21:25				U	mg/L		-0.015	0.015			
WG298976LFB	LFB	03/25/11 21:38	II110321-2	1		1.0287	mg/L	102.9	85	115			
L87099-03AS	AS	03/25/11 22:32	II110321-2	1	U	1.0297	mg/L	103	85	115			
L87099-03ASD	ASD	03/25/11 22:36	II110321-2	1	U	1.0332	mg/L	103.3	85	115	0.34	20	

Uranium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG299126													
WG299126ICV	ICV	03/29/11 21:53	MS110128-1	.05		.05203	mg/L	104.1	90	110			
WG299126ICB	ICB	03/29/11 21:56				U	mg/L		-0.00022	0.00022			
WG299126LFB	LFB	03/29/11 22:02	MS110315-3	.05		.04975	mg/L	99.5	85	115			
L87082-05AS	AS	03/29/11 22:49	MS110315-3	.05	.0258	.07694	mg/L	102.3	70	130			
L87082-05ASD	ASD	03/29/11 22:52	MS110315-3	.05	.0258	.07721	mg/L	102.8	70	130	0.35	20	

Vanadium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG298976													
WG298976ICV	ICV	03/25/11 21:21	II110104-1	2		2.1077	mg/L	105.4	95	105			
WG298976ICB	ICB	03/25/11 21:25				U	mg/L		-0.015	0.015			
WG298976LFB	LFB	03/25/11 21:38	II110321-2	.5		.5413	mg/L	108.3	85	115			
L87099-03AS	AS	03/25/11 22:32	II110321-2	.5	U	.545	mg/L	109	85	115			
L87099-03ASD	ASD	03/25/11 22:36	II110321-2	.5	U	.5327	mg/L	106.5	85	115	2.28	20	

Zinc, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG298976													
WG298976ICV	ICV	03/25/11 21:21	II110104-1	2		1.957	mg/L	97.9	95	105			
WG298976ICB	ICB	03/25/11 21:25				U	mg/L		-0.03	0.03			
WG298976LFB	LFB	03/25/11 21:38	II110321-2	.5		.551	mg/L	110.2	85	115			
L87099-03AS	AS	03/25/11 22:32	II110321-2	.5	U	.528	mg/L	105.6	85	115			
L87099-03ASD	ASD	03/25/11 22:36	II110321-2	.5	U	.522	mg/L	104.4	85	115	1.14	20	
WG299007													
WG299007ICV	ICV	03/26/11 14:12	II110104-1	2		1.929	mg/L	96.5	95	105			
WG299007ICB	ICB	03/26/11 14:16				U	mg/L		-0.03	0.03			
WG299007LFB	LFB	03/26/11 14:30	II110321-2	.5		.562	mg/L	112.4	85	115			
L87079-01AS	AS	03/26/11 14:37	II110321-2	.5	U	.551	mg/L	110.2	85	115			
L87079-01ASD	ASD	03/26/11 14:40	II110321-2	.5	U	.552	mg/L	110.4	85	115	0.18	20	
L87105-05AS	AS	03/26/11 15:21	II110321-2	.5	U	.547	mg/L	109.4	85	115			
L87105-05ASD	ASD	03/26/11 15:24	II110321-2	.5	U	.545	mg/L	109	85	115	0.37	20	

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L87105**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L87105-01	WG299026	Bromide	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
		Chloride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
		Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG299264	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG299314	Nitrogen, ammonia	M350.1 - Automated Phenate	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG299144	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L87105-02	WG299026	Bromide	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
		Chloride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
		Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG299264	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG299314	Nitrogen, ammonia	M350.1 - Automated Phenate	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG299144	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L87105-03	WG299026	Bromide	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
		Chloride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
		Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG299264	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG299314	Nitrogen, ammonia	M350.1 - Automated Phenate	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG299144	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L87105**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L87105-04	WG299026	Bromide	M300.0 - Ion Chromatography	DD	Sample required dilution due to matrix color or odor.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
		Chloride	M300.0 - Ion Chromatography	DD	Sample required dilution due to matrix color or odor.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
		Fluoride	M300.0 - Ion Chromatography	DD	Sample required dilution due to matrix color or odor.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG299264	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG299314	Nitrogen, ammonia	M350.1 - Automated Phenate	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG299144	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG299026	Sulfate	M300.0 - Ion Chromatography	DD	Sample required dilution due to matrix color or odor.
L87105-05	WG298976	Nickel, dissolved	M200.7 ICP	VC	CCV recovery was above the acceptance limits. Target analyte was not detected in the sample [< MDL].
	WG299026	Bromide	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
		Chloride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
		Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG299264	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG299314	Nitrogen, ammonia	M350.1 - Automated Phenate	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG299144	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

Nye County Natural Res & Fed Facilities

ACZ Project ID: **L87105**

No certification qualifiers associated with this analysis

Nye County Natural Res & Fed Facilities
 11-034-LK-(L)

ACZ Project ID: L87105
 Date Received: 03/24/2011 10:14
 Received By: gac
 Date Printed: 3/24/2011

Receipt Verification

	YES	NO	NA
1) Does this project require special handling procedures such as CLP protocol?			X
2) Are the custody seals on the cooler intact?			X
3) Are the custody seals on the sample containers intact?			X
4) Is there a Chain of Custody or other directive shipping papers present?	X		
5) Is the Chain of Custody complete?	X		
6) Is the Chain of Custody in agreement with the samples received?	X		
7) Is there enough sample for all requested analyses?	X		
8) Are all samples within holding times for requested analyses?	X		
9) Were all sample containers received intact?	X		
10) Are the temperature blanks present?			X
11) Are the trip blanks (VOA and/or Cyanide) present?			X
12) Are samples requiring no headspace, headspace free?			X
13) Do the samples that require a Foreign Soils Permit have one?			X

Exceptions: If you answered no to any of the above questions, please describe

N/A

Contact (For any discrepancies, the client must be contacted)

N/A

Shipping Containers

Cooler Id		Temp (°C)	Rad (µR/hr)
2634		2	23

Client must contact ACZ Project Manager if analysis should not proceed for samples received outside of thermal preservation acceptance criteria.

Notes

Nye County Natural Res & Fed Facilities
11-034-LK-(L)

ACZ Project ID: L87105
Date Received: 03/24/2011 10:14
Received By: gac
Date Printed: 3/24/2011

Sample Container Preservation

SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y < 2	YG < 2	B < 2	O < 2	T > 12	N/A	RAD	ID
L87105-01	NC-GWE-OV-1		Y		Y							<input type="checkbox"/>
L87105-02	NC-GF1-D		Y		Y							<input type="checkbox"/>
L87105-03	OV-SOUTH SPRING		Y		Y							<input type="checkbox"/>
L87105-04	OV-NORTH SPRING		Y		Y							<input type="checkbox"/>
L87105-05	NC-GF1-B		Y		Y							<input type="checkbox"/>

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
B	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
O	Raw/Sulfuric	ORANGE	pH must be < 2
P	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Y	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 µR/hr

* pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By: gac



Attachment A
Chain of Custody Form

L87105

Nye County Nuclear Waste Repository Project Office

Form TP 11.1-1 Rev 0

Water Sample Chain of Custody Form

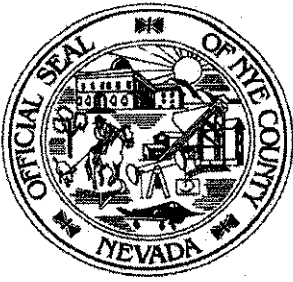
Sample Number	Well Name or Location	Date Collected	Date Shipped	Analysis	Number of Containers
GWS0263	NC-GWE-OV-1	3/21/2011	3/23/2011	Raw, Wet Chemistry	1 - 500 ml
				Filtered, Wet Chemistry	1 - 250 ml
				Filtered, HNO3, Metals	1 - 250 ml
GWS0264	NC-GF1-D	3/21/2011	3/23/2011	H2SO4, N-NH3, NO3-NO2, Total P	1 - 250 ml
				Raw, Wet Chemistry	1 - 500 ml
				Filtered, Wet Chemistry	1 - 250 ml
				Filtered, HNO3, Metals	1 - 250 ml
GWS0265	OV-South Spring	3/21/2011	3/23/2011	H2SO4, N-NH3, NO3-NO2, Total P	1 - 250 ml
				Raw, Wet Chemistry	1 - 500 ml
				Filtered, Wet Chemistry	1 - 250 ml
				Filtered, HNO3, Metals	1 - 250 ml
GWS0266	OV-North Spring	3/21/2011	3/23/2011	H2SO4, N-NH3, NO3-NO2, Total P	1 - 250 ml
				Raw, Wet Chemistry	1 - 500 ml
				Filtered, Wet Chemistry	1 - 250 ml
				Filtered, HNO3, Metals	1 - 250 ml
GWS0267	NC-GF1-B	3/21/2011	3/23/2011	H2SO4, N-NH3, NO3-NO2, Total P	1 - 250 ml
				Raw, Wet Chemistry	1 - 500 ml
				Filtered, Wet Chemistry	1 - 250 ml
				Filtered, HNO3, Metals	1 - 250 ml

Lab Name:	ACZ
Recipient:	Tony Antalek
Telephone	800-334-5493
Address	2773 Downhill Drive Steamboat Springs, Co 80487

Person Accepting Custody:	NCCW
Date/Time:	3/24/11 10:14

Recipient: Please acknowledge receipt of this shipment and return completed within 10 working days to:
Nye County Nuclear Waste Repository Project Office Quality Assurance Records Center (QARC) 2101 E. Calvada Blvd, Suite 100 Pahrump, NV 89048 775-727-7727
Person Releasing Custody for Nye County:
Date/Time: 3/23/11 1030

Checked By	Date:
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Nye County

Nuclear Waste Repository Project Office

2101 E. Calvada Blvd. Ste. #100 • Pahrump, Nevada 89060
(775) 727-7727 • Fax (775) 727-7919

11-034-LK-(L)

March 23, 2011

ACZ Laboratories
Tony Antalek
2773 Downhill Drive
Steamboat Springs, CO 80487

Water Sample Analyses for the Groundwater Evaluation Program


Dear Mr. Antalek:

Enclosed are the ground water samples for analyses for Nye County GWE wells NC-GWE-OV-1, NC-GF1-D, OV-North Spring, OV-South Spring, and NC-GF1-B. This is the only shipment under this letter.

Please sign and date the Chain of Custody forms and return a copy to my attention at the address listed above.

If you have any questions or comments regarding the testing, please contact me by phone at (775) 727-7727, fax at (775) 727-7919, or email at lkryder@co.nye.nv.us.

Respectfully,
NYE COUNTY, NEVADA



Levi Kryder
Geoscience Manager

Enclosures: as stated

LK/cs