

January 22, 2024

**Report to:**

John Terry  
New Elk Coal Co. , LLC  
5174 Highway 133  
Somerset, CO 81434

**Bill to:**

Accounts Payable  
New Elk Coal Co. , LLC  
12250 Highway 12  
Weston, CO 81091

cc: Ron Thompson, Nick Mason

**Project ID:**

ACZ Project ID: L85287

John Terry:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on December 21, 2023. This project has been assigned to ACZ's project number, L85287. 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 L85287. 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 February 21, 2024. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/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 raw data reports for ten years.

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



Sue Webber has reviewed and  
approved this report.



**New Elk Coal Co. , LLC**

Project ID:

Sample ID: PAW 8

ACZ Sample ID: **L85287-01**

Date Sampled: 12/20/23 13:54

Date Received: 12/21/23

Sample Matrix: Groundwater

## Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acidify and filter (Potentially Dissolved)	Colorado 5 CCR 1002-31.5.31 (2009)								12/23/23 9:47	ssr
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								12/29/23 11:30	mlh
Total Hot Plate Digestion	M200.2 ICP								01/03/24 17:00	smw
Total Recoverable Digestion	M200.2 ICP								01/04/24 13:00	smw
Total Recoverable Digestion	M200.2 ICP-MS								01/10/24 10:46	scp

## Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, total recoverable	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	01/18/24 19:07	aps
Boron, total	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	01/10/24 15:29	aeH
Cadmium, potentially dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.025	01/05/24 12:16	wtc
Calcium, dissolved	M200.7 ICP	1	95.6			mg/L	0.1	0.5	01/12/24 0:56	aeH
Chromium, total recoverable	M200.8 ICP-MS	1	0.00150	B		mg/L	0.0005	0.002	01/18/24 19:07	aps
Copper, potentially dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	12/29/23 5:29	wtc
Iron, dissolved	M200.7 ICP	1	0.342			mg/L	0.06	0.15	01/12/24 0:56	aeH
Iron, total	M200.7 ICP	1	1.58			mg/L	0.06	0.15	01/10/24 1:31	aeH
Iron, total recoverable	M200.7 ICP	1	1.70			mg/L	0.06	0.15	01/09/24 11:02	aeH
Magnesium, dissolved	M200.7 ICP	1	23.0			mg/L	0.2	1	01/12/24 0:56	aeH
Manganese, dissolved	M200.7 ICP	1	0.056			mg/L	0.01	0.05	01/12/24 0:56	aeH
Manganese, potentially dissolved	M200.7 ICP	1	0.253			mg/L	0.01	0.05	01/05/24 12:16	wtc
Manganese, total	M200.7 ICP	1	0.247			mg/L	0.01	0.05	01/10/24 1:31	aeH
Mercury, total	M245.1 CVAA	1	<0.0002	U	*	mg/L	0.0002	0.001	01/02/24 15:26	mlh
Potassium, dissolved	M200.7 ICP	1	1.73			mg/L	0.5	1	01/12/24 0:56	aeH
Sodium, dissolved	M200.7 ICP	1	138			mg/L	0.2	1	01/12/24 0:56	aeH
Zinc, potentially dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	01/05/24 12:16	wtc

**New Elk Coal Co. , LLC**

Project ID:

Sample ID: PAW 8

ACZ Sample ID: **L85287-01**

Date Sampled: 12/20/23 13:54

Date Received: 12/21/23

Sample Matrix: Groundwater

## Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO <sub>3</sub>	SM2320B - Titration									
Bicarbonate as CaCO <sub>3</sub>		1	500			mg/L	2	20	01/03/24 0:00	emk
Carbonate as CaCO <sub>3</sub>		1	<2	U		mg/L	2	20	01/03/24 0:00	emk
Hydroxide as CaCO <sub>3</sub>		1	<2	U		mg/L	2	20	01/03/24 0:00	emk
Total Alkalinity		1	500			mg/L	2	20	01/03/24 0:00	emk
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			01/22/24 0:00	calc
Sum of Anions			13			meq/L			01/22/24 0:00	calc
Sum of Cations			13			meq/L			01/22/24 0:00	calc
Chloride	SM4500Cl-E	1	28.8	H	*	mg/L	1	2	01/18/24 9:19	cbp
Hardness as CaCO <sub>3</sub> (dissolved)	SM2340B - Calculation		333			mg/L	0.2	5	01/22/24 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							01/09/24 12:20	asn
Residue, Filterable (TDS) @180C	SM2540C	1	236	H	*	mg/L	20	40	01/10/24 2:28	trt
Residue, Non-Filterable (TSS) @105C	SM2540D	1	11.0	B	*	mg/L	5	20	12/22/23 14:14	asn
Sodium Adsorption Ratio in Water	USGS - 11738-78		3.3						01/22/24 0:00	calc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	112		*	mg/L	5	25	01/11/24 14:36	jqr/bls

**New Elk Coal Co. , LLC**

Project ID:

Sample ID: NEW 2

ACZ Sample ID: **L85287-02**

Date Sampled: 12/20/23 12:00

Date Received: 12/21/23

Sample Matrix: Groundwater

## Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acidify and filter (Potentially Dissolved)	Colorado 5 CCR 1002-31.5.31 (2009)								12/23/23 9:51	ssr
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								12/29/23 11:30	mlh
Total Hot Plate Digestion	M200.2 ICP								01/03/24 11:24	smw
Total Recoverable Digestion	M200.2 ICP-MS								01/10/24 11:09	scp
Total Recoverable Digestion	M200.2 ICP								01/04/24 13:16	smw

## Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00116			mg/L	0.0002	0.001	01/18/24 19:09	aps
Boron, total	M200.7 ICP	1	0.092	B		mg/L	0.03	0.1	01/12/24 23:57	aeH
Cadmium, potentially dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.025	01/05/24 12:32	wtc
Calcium, dissolved	M200.7 ICP	1	9.22			mg/L	0.1	0.5	01/12/24 0:59	aeH
Chromium, total recoverable	M200.8 ICP-MS	1	0.00321			mg/L	0.0005	0.002	01/18/24 19:09	aps
Copper, potentially dissolved	M200.7 ICP	1	0.404			mg/L	0.01	0.05	12/29/23 5:38	wtc
Iron, dissolved	M200.7 ICP	1	1.29			mg/L	0.06	0.15	01/12/24 0:59	aeH
Iron, total	M200.7 ICP	1	9.33			mg/L	0.06	0.15	01/12/24 23:57	aeH
Iron, total recoverable	M200.7 ICP	1	10.5			mg/L	0.06	0.15	01/09/24 11:05	aeH
Magnesium, dissolved	M200.7 ICP	1	4.17			mg/L	0.2	1	01/12/24 0:59	aeH
Manganese, dissolved	M200.7 ICP	1	0.024	B		mg/L	0.01	0.05	01/12/24 0:59	aeH
Manganese, potentially dissolved	M200.7 ICP	1	0.102			mg/L	0.01	0.05	01/05/24 12:32	wtc
Manganese, total	M200.7 ICP	1	0.114			mg/L	0.01	0.05	01/12/24 23:57	aeH
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	01/02/24 15:27	mlh
Potassium, dissolved	M200.7 ICP	1	6.77			mg/L	0.5	1	01/12/24 0:59	aeH
Sodium, dissolved	M200.7 ICP	1	496			mg/L	0.2	1	01/12/24 0:59	aeH
Zinc, potentially dissolved	M200.7 ICP	1	0.424			mg/L	0.02	0.05	01/05/24 12:32	wtc

**New Elk Coal Co. , LLC**

Project ID:

Sample ID: NEW 2

ACZ Sample ID: **L85287-02**

Date Sampled: 12/20/23 12:00

Date Received: 12/21/23

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO <sub>3</sub>	SM2320B - Titration									
Bicarbonate as CaCO <sub>3</sub>		1	1060			mg/L	2	20	01/03/24 0:00	emk
Carbonate as CaCO <sub>3</sub>		1	48.7			mg/L	2	20	01/03/24 0:00	emk
Hydroxide as CaCO <sub>3</sub>		1	<2	U		mg/L	2	20	01/03/24 0:00	emk
Total Alkalinity		1	1110			mg/L	2	20	01/03/24 0:00	emk
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-4.2			%			01/22/24 0:00	calc
Sum of Anions			25			meq/L			01/22/24 0:00	calc
Sum of Cations			23			meq/L			01/22/24 0:00	calc
Chloride	SM4500Cl-E	1	9.14	H	*	mg/L	1	2	01/18/24 9:20	cbp
Hardness as CaCO <sub>3</sub> (dissolved)	SM2340B - Calculation		40			mg/L	0.2	5	01/22/24 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							01/09/24 12:25	asn
Residue, Filterable (TDS) @180C	SM2540C	1	1240			mg/L	20	40	12/22/23 16:34	trt
Residue, Non-Filterable (TSS) @105C	SM2540D	1	32.0		*	mg/L	5	20	12/22/23 14:16	asn
Sodium Adsorption Ratio in Water	USGS - 11738-78		34						01/22/24 0:00	calc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	96.4		*	mg/L	5	25	01/11/24 14:36	jqr/bls

**New Elk Coal Co. , LLC**

Project ID:

Sample ID: PAW 1

ACZ Sample ID: **L85287-03**

Date Sampled: 12/20/23 14:00

Date Received: 12/21/23

Sample Matrix: Groundwater

## Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acidify and filter (Potentially Dissolved)	Colorado 5 CCR 1002-31.5.31 (2009)								12/23/23 9:56	ssr
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								12/29/23 11:30	mlh
Total Hot Plate Digestion	M200.2 ICP								01/03/24 11:38	smw
Total Recoverable Digestion	M200.2 ICP-MS								01/10/24 11:32	scp
Total Recoverable Digestion	M200.2 ICP								01/04/24 13:33	smw

## Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00023	B		mg/L	0.0002	0.001	01/18/24 19:11	aps
Boron, total	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	01/13/24 0:00	aeH
Cadmium, potentially dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.025	01/05/24 12:35	wtc
Calcium, dissolved	M200.7 ICP	1	21.6			mg/L	0.1	0.5	01/12/24 1:03	aeH
Chromium, total recoverable	M200.8 ICP-MS	1	0.00066	B		mg/L	0.0005	0.002	01/18/24 19:11	aps
Copper, potentially dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	12/29/23 5:42	wtc
Iron, dissolved	M200.7 ICP	1	0.295			mg/L	0.06	0.15	01/12/24 1:03	aeH
Iron, total	M200.7 ICP	1	5.68			mg/L	0.06	0.15	01/13/24 0:00	aeH
Iron, total recoverable	M200.7 ICP	1	5.06			mg/L	0.06	0.15	01/09/24 11:08	aeH
Magnesium, dissolved	M200.7 ICP	1	11.0			mg/L	0.2	1	01/12/24 1:03	aeH
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/12/24 1:03	aeH
Manganese, potentially dissolved	M200.7 ICP	1	0.029	B		mg/L	0.01	0.05	01/05/24 12:35	wtc
Manganese, total	M200.7 ICP	1	0.050	B		mg/L	0.01	0.05	01/13/24 0:00	aeH
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	01/02/24 15:27	mlh
Potassium, dissolved	M200.7 ICP	1	1.71			mg/L	0.5	1	01/12/24 1:03	aeH
Sodium, dissolved	M200.7 ICP	1	25.5			mg/L	0.2	1	01/12/24 1:03	aeH
Zinc, potentially dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	01/05/24 12:35	wtc

**New Elk Coal Co. , LLC**

Project ID:

Sample ID: PAW 1

ACZ Sample ID: **L85287-03**

Date Sampled: 12/20/23 14:00

Date Received: 12/21/23

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO <sub>3</sub>	SM2320B - Titration									
Bicarbonate as CaCO <sub>3</sub>		1	131			mg/L	2	20	01/03/24 0:00	emk
Carbonate as CaCO <sub>3</sub>		1	6.2	B		mg/L	2	20	01/03/24 0:00	emk
Hydroxide as CaCO <sub>3</sub>		1	<2	U		mg/L	2	20	01/03/24 0:00	emk
Total Alkalinity		1	137			mg/L	2	20	01/03/24 0:00	emk
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			01/22/24 0:00	calc
Sum of Anions			3.2			meq/L			01/22/24 0:00	calc
Sum of Cations			3.2			meq/L			01/22/24 0:00	calc
Chloride	SM4500Cl-E	1	17.0	H	*	mg/L	1	2	01/18/24 9:20	cbp
Hardness as CaCO <sub>3</sub> (dissolved)	SM2340B - Calculation		99			mg/L	0.2	5	01/22/24 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							01/09/24 12:30	asn
Residue, Filterable (TDS) @180C	SM2540C	1	136			mg/L	20	40	12/22/23 16:36	trt
Residue, Non-Filterable (TSS) @105C	SM2540D	1	8.0	B	*	mg/L	5	20	12/22/23 14:19	asn
Sodium Adsorption Ratio in Water	USGS - 11738-78		1.1						01/22/24 0:00	calc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	1.0	B	*	mg/L	1	5	01/11/24 14:29	jqr/bls

**Report Header Explanations**

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>Lower</i>	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
<i>MDL</i>	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
<i>PCN/SCN</i>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<i>PQL</i>	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>Upper</i>	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
<i>Sample</i>	Value of the Sample of interest

**QC Sample Types**

<i>AS</i>	Analytical Spike (Post Digestion)	<i>LCSWD</i>	Laboratory Control Sample - Water Duplicate
<i>ASD</i>	Analytical Spike (Post Digestion) Duplicate	<i>LFB</i>	Laboratory Fortified Blank
<i>CCB</i>	Continuing Calibration Blank	<i>LFM</i>	Laboratory Fortified Matrix
<i>CCV</i>	Continuing Calibration Verification standard	<i>LFMD</i>	Laboratory Fortified Matrix Duplicate
<i>DUP</i>	Sample Duplicate	<i>LRB</i>	Laboratory Reagent Blank
<i>ICB</i>	Initial Calibration Blank	<i>MS</i>	Matrix Spike
<i>ICV</i>	Initial Calibration Verification standard	<i>MSD</i>	Matrix Spike Duplicate
<i>ICSAB</i>	Inter-element Correction Standard - A plus B solutions	<i>PBS</i>	Prep Blank - Soil
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBW</i>	Prep Blank - Water
<i>LCSSD</i>	Laboratory Control Sample - Soil Duplicate	<i>PQV</i>	Practical Quantitation Verification standard
<i>LCSW</i>	Laboratory Control Sample - Water	<i>SDL</i>	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.
L	Target analyte response was below the laboratory defined negative threshold.
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.
(4)	EPA SW-846. Test Methods for Evaluating Solid Waste.
(5)	Standard Methods for the Examination of Water and Wastewater.

**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.
(5)	If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

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

<https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf>



New Elk Coal Co. , LLC

ACZ Project ID: **L85287**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L85287-01	WG582475	Chloride	SM4500CI-E	HC	Initial analysis within holding time. Reanalysis was past holding time, which was required due to a QC failure during the initial analysis.
			SM4500CI-E	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.
	WG581457	Mercury, total	M245.1 CVAA	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG581900	Residue, Filterable (TDS) @180C	SM2540C	B4	Target analyte detected in blank at or above the acceptance criteria.
			SM2540C	HC	Initial analysis within holding time. Reanalysis was past holding time, which was required due to a QC failure during the initial analysis.
	WG581109	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
	WG582081	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	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.
L85287-02	WG582475	Chloride	SM4500CI-E	HC	Initial analysis within holding time. Reanalysis was past holding time, which was required due to a QC failure during the initial analysis.
			SM4500CI-E	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.
	WG581109	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG582081	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	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.
L85287-03	WG582475	Chloride	SM4500CI-E	HC	Initial analysis within holding time. Reanalysis was past holding time, which was required due to a QC failure during the initial analysis.
			SM4500CI-E	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.
	WG581109	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
	WG582081	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	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.

New Elk Coal Co. , LLC

ACZ Project ID: **L85287**

No certification qualifiers associated with this analysis

New Elk Coal Co. , LLC

ACZ Project ID: L85287

Date Received: 12/21/2023 11:34

Received By:

Date Printed: 12/22/2023

### Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2) Is the Chain of Custody form or other directive shipping papers present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3) Does this project require special handling procedures such as CLP protocol?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4) Are any samples NRC licensable material?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5) If samples are received past hold time, proceed with requested short hold time analyses?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6) Is the Chain of Custody form complete and accurate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9) Are all labels on containers and are they intact and legible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11) For preserved bottle types, was the pH checked and within limits? <sup>1</sup> L85287-02 Container B2813352 (GREEN PD): Added 1 mls nitric acid to the sub-sample to adjust the pH to the appropriate range.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12) Is there sufficient sample volume to perform all requested work?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13) Is the custody seal intact on all containers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14) Are samples that require zero headspace acceptable?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15) Are all sample containers appropriate for analytical requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16) Is there an Hg-1631 trip blank present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
17) Is there a VOA trip blank present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
18) Were all samples received within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

NA indicates Not Applicable

### Chain of Custody Related Remarks

### Client Contact Remarks

### Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
5063	1.5	<=6.0	15	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

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

New Elk Coal Co. , LLC

ACZ Project ID: L85287

Date Received: 12/21/2023 11:34

Received By:

Date Printed: 12/22/2023

<sup>1</sup> The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

