



B25071646_Schwartzwalder Mine

1 message

Stacie M. Helms <SHelms@energylab.com>

Mon, Aug 11, 2025 at 9:13 AM

To: "Adam.billin@linkan.com" <Adam.billin@linkan.com>, "Alex.schwiebert@linkan.com" <Alex.schwiebert@linkan.com>, "ap@linkan.com" <ap@linkan.com>, "chris.prosper@linkan.com" <chris.prosper@linkan.com>, "Peter.hays@state.co.us" <Peter.hays@state.co.us>

Thank you for choosing Energy Laboratories Inc. for your analytical testing needs. Your final report for the samples received has been attached to this message. A hard copy will only be mailed if previously requested.

If you have questions about your results, our Project Management team is happy to help. You can reach them at billingspm@energylab.com or **406-252-6325**.

We're always working to improve—and your input matters.

Please take 30 seconds to share your feedback by clicking the link or scanning the QR code below:

👉 [\[Give Feedback\]](#)



Your feedback goes directly to our leadership team to ensure we meet your expectations.

Please do not reply to this email.

Sincerely,

Energy Laboratories, Inc.

Trust our People. Trust our Data.

Stacie Helms | Administrative Assistant | Billings, MT

O: 406-869-6295 | shelms@energylab.com | www.energylab.com

2 attachments

 **B25071646-EDD-ELICSV-with header-1.CSV**
9K



B25071646-FINAL REPORT-1.PDF

2248K



ANALYTICAL SUMMARY REPORT

August 11, 2025

Linkan Engineering
2720 Ruby Vista Dr Ste 101
Elko, NV 89801-4943

Work Order: B25071646 Quote ID: B17287

Project Name: Schwartzwalder Mine

Energy Laboratories Inc Billings MT received the following 1 sample for Linkan Engineering on 7/18/2025 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B25071646-001	Outfall 001A	07/15/25 14:30	07/18/25	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Potentially Dissolved Metals by ICP/ICPMS, Total Recoverable Cyanide, Weak Acid Dissociable Chromium, Hexavalent Chromium, Total Recoverable Trivalent Mercury, Total Anions by Ion Chromatography Metals Digestion by E200.2 Preparation, Potentially Dissolved Filtration Mercury Digestion by E245.1 Radium 226 + Radium 228 Radium 226, Dissolved Radium 226, Total Radium 228, Total Sulfide, Methylene Blue Colorimetric

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 So. 27th Street, Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

Energy Laboratories, Inc. verifies the reported results for the analysis has been technically reviewed and approved for release.

If you have any questions regarding these test results, please contact your Project Manager.



CLIENT: Linkan Engineering
Project: Schwartzwalder Mine
Work Order: B25071646

Report Date: 08/11/25

CASE NARRATIVE

Tests associated with analyst identified as ELI-CA were subcontracted to Energy Laboratories, PO Box 247, Casper, WY, EPA Number WY00002.



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Linkan Engineering
Project: Schwartzwalder Mine
Lab ID: B25071646-001
Client Sample ID: Outfall 001A

Report Date: 08/11/25
Collection Date: 07/15/25 14:30
Date Received: 07/18/25
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
INORGANICS							
Chloride	1	mg/L		1		E300.0	07/19/25 00:56 / caa
Sulfate	8	mg/L		1		E300.0	07/19/25 00:56 / caa
Fluoride	0.02	mg/L	J	0.1		E300.0	07/19/25 00:56 / caa
Cyanide, Weak Acid Dissociable	ND	ug/L		1		Kelada-01	07/18/25 13:30 / fap
Sulfide	ND	mg/L		0.04		A4500-S D	07/21/25 16:59 / pmw
METALS, DISSOLVED							
Chromium, Hexavalent	ND	ug/L	H	10		A3500-Cr B	07/18/25 15:29 / mjb
Iron	10	ug/L	J	20		E200.8	07/22/25 18:52 / aem
Manganese	1	ug/L		1		E200.8	07/22/25 18:52 / aem
METALS, POTENTIALLY DISSOLVED							
Cadmium	ND	ug/L		1		E200.8	07/22/25 21:13 / aem
Copper	0.1	ug/L	JL	0.5		E200.8	07/23/25 17:19 / aem
Nickel	0.2	ug/L	J	5		E200.8	07/22/25 21:13 / aem
Selenium	ND	ug/L		1		E200.8	07/22/25 21:13 / aem
Silver	ND	ug/L	L	0.04		E200.8	07/22/25 21:13 / aem
Zinc	5	ug/L	J	10		E200.8	07/22/25 21:13 / aem
METALS, TOTAL RECOVERABLE							
Arsenic	6	ug/L		1		E200.8	07/26/25 10:25 / jks
Chromium	ND	ug/L		5		E200.8	07/26/25 10:25 / jks
Chromium, Trivalent	ND	ug/L		10		0	07/28/25 08:24 / bap
Iron	20	ug/L		20		E200.8	07/26/25 10:25 / jks
Uranium	9	ug/L		0.3		E200.8	07/26/25 10:25 / jks
METALS, TOTAL							
Antimony	ND	ug/L		1		E200.8	07/26/25 10:25 / jks
Boron	180	ug/L		50		E200.7	07/23/25 15:31 / jaw
Mercury	ND	ug/L		0.1		E245.1	07/21/25 16:39 / mjb
Thallium	ND	ug/L		0.5		E200.8	07/26/25 10:25 / jks
RADIONUCLIDES - DISSOLVED							
Radium 226	0.1	pCi/L	U			E903.0	08/07/25 13:18 / eli-ca
Radium 226 precision (±)	0.1	pCi/L				E903.0	08/07/25 13:18 / eli-ca
Radium 226 MDC	0.2	pCi/L				E903.0	08/07/25 13:18 / eli-ca
RADIONUCLIDES - TOTAL							
Radium 226	0.1	pCi/L	U			E903.0	08/06/25 17:15 / eli-ca
Radium 226 precision (±)	0.1	pCi/L				E903.0	08/06/25 17:15 / eli-ca
Radium 226 MDC	0.2	pCi/L				E903.0	08/06/25 17:15 / eli-ca
Radium 228	0.4	pCi/L	U			RA-05	07/30/25 16:02 / eli-ca
Radium 228 precision (±)	0.5	pCi/L				RA-05	07/30/25 16:02 / eli-ca
Radium 228 MDC	0.9	pCi/L				RA-05	07/30/25 16:02 / eli-ca
Radium 226 + Radium 228	0.5	pCi/L	U			A7500-RA	08/07/25 10:47 / eli-ca

Report Definitions:
 RL - Analyte Reporting Limit
 QCL - Quality Control Limit
 H - Analysis performed past the method holding time
 L - Lowest available reporting limit for the analytical method used and/or volume submitted

MCL - Maximum Contaminant Level
 ND - Not detected at the Reporting Limit (RL)
 J - Estimated value - analyte was present but less than the Reporting Limit (RL)
 U - Not detected



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Linkan Engineering
Project: Schwartzwalder Mine
Lab ID: B25071646-001
Client Sample ID: Outfall 001A

Report Date: 08/11/25
Collection Date: 07/15/25 14:30
Date Received: 07/18/25
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Radium 226 + Radium 228 precision ($\pm$)	0.6	pCi/L				A7500-RA	08/07/25 10:47 / eli-ca
Radium 226 + Radium 228 MDC	0.9	pCi/L				A7500-RA	08/07/25 10:47 / eli-ca

Report
Definitions: RL - Analyte Reporting Limit
QCL - Quality Control Limit

MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071646

Report Date: 07/28/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3500-Cr B										
Analytical Run: SPEC3_250718A										
Lab ID: CCV	Continuing Calibration Verification Standard									
Chromium, Hexavalent		0.0990	mg/L	0.010	99	90	110			07/18/25 11:28
Method: A3500-Cr B										
Batch: R446058										
Lab ID: MBLK	Method Blank									
Chromium, Hexavalent		ND	mg/L	0.003						07/18/25 11:28
Run: SPEC3_250718A										
Lab ID: LCS	Laboratory Control Sample									
Chromium, Hexavalent		0.0962	mg/L	0.010	96	90	110			07/18/25 11:28
Run: SPEC3_250718A										
Lab ID: B25071621-001AMS	Sample Matrix Spike									
Chromium, Hexavalent		0.0934	mg/L	0.010	93	80	120			07/18/25 11:28
Run: SPEC3_250718A										
Lab ID: B25071621-001AMSD	Sample Matrix Spike Duplicate									
Chromium, Hexavalent		0.0911	mg/L	0.010	91	80	120	2.5	20	07/18/25 11:28

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071646

Report Date: 07/28/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-S D										Batch: R446162
Lab ID: MBLK		Method Blank					Run: SPEC3_250721A			07/21/25 16:59
Sulfide		ND	mg/L	0.01						
Lab ID: LCS										07/21/25 16:59
Sulfide		Laboratory Control Sample					Run: SPEC3_250721A			
		0.191	mg/L	0.040	99	85	115			
Lab ID: B25071655-001HMS										07/21/25 16:59
Sulfide		Sample Matrix Spike					Run: SPEC3_250721A			
		0.365	mg/L	0.040	95	70	130			
Lab ID: B25071655-001HMSD										07/21/25 16:59
Sulfide		Sample Matrix Spike Duplicate					Run: SPEC3_250721A			
		0.367	mg/L	0.040	95	70	130	0.5	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071646

Report Date: 07/28/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										
Analytical Run: ICP205-B_250723A										
Lab ID: ICV	Continuing Calibration Verification Standard									
Boron		2.49	mg/L	0.10	100	95	105			07/23/25 13:20
Lab ID: CCV										
Continuing Calibration Verification Standard										
Boron		2.50	mg/L	0.10	100	90	110			07/23/25 15:21
Method: E200.7										
Batch: 201686										
Lab ID: MB-201686	Method Blank									
Boron		ND	mg/L	0.008						Run: ICP205-B_250723A 07/23/25 15:16
Lab ID: LCS3-201686	Laboratory Control Sample									
Boron		1.04	mg/L	0.050	104	85	115			Run: ICP205-B_250723A 07/23/25 15:17
Lab ID: B25071614-001BMS3	Sample Matrix Spike									
Boron		2.13	mg/L	0.10	106	70	130			Run: ICP205-B_250723A 07/23/25 15:25
Lab ID: B25071614-001BMSD3	Sample Matrix Spike Duplicate									
Boron		2.14	mg/L	0.10	107	70	130	0.8	20	Run: ICP205-B_250723A 07/23/25 15:26

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071646

Report Date: 07/28/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8		Analytical Run: ICPMS207-B_250721A								
Lab ID: QCS	7	Initial Calibration Verification Standard								07/22/25 18:11
Cadmium		0.0195	mg/L	0.0010	97	90	110			
Iron		0.190	mg/L	0.020	95	90	110			
Manganese		0.191	mg/L	0.0050	96	90	110			
Nickel		0.0376	mg/L	0.0050	94	90	110			
Selenium		0.0383	mg/L	0.0050	96	90	110			
Silver		0.0188	mg/L	0.0050	94	90	110			
Zinc		0.0378	mg/L	0.0050	95	90	110			
Lab ID: CCV	7	Continuing Calibration Verification Standard								07/22/25 18:17
Cadmium		0.0488	mg/L	0.0010	98	90	110			
Iron		1.23	mg/L	0.020	95	90	110			
Manganese		0.0486	mg/L	0.0050	97	90	110			
Nickel		0.0473	mg/L	0.0050	95	90	110			
Selenium		0.0487	mg/L	0.0050	97	90	110			
Silver		0.0196	mg/L	0.0050	98	90	110			
Zinc		0.0477	mg/L	0.0050	95	90	110			
Lab ID: CCV	7	Continuing Calibration Verification Standard								07/22/25 20:55
Cadmium		0.0490	mg/L	0.0010	98	90	110			
Iron		1.27	mg/L	0.020	98	90	110			
Manganese		0.0486	mg/L	0.0050	97	90	110			
Nickel		0.0476	mg/L	0.0050	95	90	110			
Selenium		0.0503	mg/L	0.0050	101	90	110			
Silver		0.0202	mg/L	0.0050	101	90	110			
Zinc		0.0471	mg/L	0.0050	94	90	110			
Method: E200.8		Batch: R446131								
Lab ID: LRB	7	Method Blank								Run: ICPMS207-B_250721A 07/21/25 11:33
Cadmium		ND	mg/L	3E-6						
Iron		ND	mg/L	0.001						
Manganese		ND	mg/L	0.00003						
Nickel		ND	mg/L	0.0001						
Selenium		0.00008	mg/L	0.00003						
Silver		ND	mg/L	3E-6						
Zinc		ND	mg/L	0.001						
Lab ID: LFB	7	Laboratory Fortified Blank								Run: ICPMS207-B_250721A 07/21/25 11:57
Cadmium		0.0476	mg/L	0.0010	95	85	115			
Iron		5.21	mg/L	0.020	104	85	115			
Manganese		0.0516	mg/L	0.0050	103	85	115			
Nickel		0.0487	mg/L	0.0050	97	85	115			
Selenium		0.0496	mg/L	0.0050	99	85	115			
Silver		0.0193	mg/L	0.0050	96	85	115			
Zinc		0.0502	mg/L	0.0050	100	85	115			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071646

Report Date: 07/28/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R446131
Lab ID: B25071646-001BMS	7	Sample Matrix Spike			Run: ICPMS207-B_250721A				07/22/25 18:58	
Cadmium		0.0481	mg/L	0.0010	96	70	130			
Iron		4.88	mg/L	0.020	97	70	130			
Manganese		0.0496	mg/L	0.0010	97	70	130			
Nickel		0.0462	mg/L	0.0050	92	70	130			
Selenium		0.0479	mg/L	0.0010	96	70	130			
Silver		0.0190	mg/L	0.0010	95	70	130			
Zinc		0.0473	mg/L	0.010	91	70	130			
Lab ID: B25071646-001BMSD	7	Sample Matrix Spike Duplicate			Run: ICPMS207-B_250721A				07/22/25 19:04	
Cadmium		0.0498	mg/L	0.0010	100	70	130	3.5	20	
Iron		5.01	mg/L	0.020	100	70	130	2.6	20	
Manganese		0.0514	mg/L	0.0010	101	70	130	3.6	20	
Nickel		0.0475	mg/L	0.0050	95	70	130	2.8	20	
Selenium		0.0498	mg/L	0.0010	100	70	130	3.9	20	
Silver		0.0197	mg/L	0.0010	98	70	130	3.3	20	
Zinc		0.0486	mg/L	0.010	94	70	130	2.7	20	
Lab ID: MB-201683	7	Method Blank			Run: ICPMS207-B_250721A				07/22/25 21:07	
Cadmium		ND	mg/L	9E-6						
Iron		0.004	mg/L	0.001						
Manganese		ND	mg/L	0.00003						
Nickel		0.0001	mg/L	0.0001						
Selenium		ND	mg/L	0.00003						
Silver		ND	mg/L	3E-6						
Zinc		0.001	mg/L	0.001						
Method: E200.8										Analytical Run: ICPMS208-B_250725A
Lab ID: QCS	6	Initial Calibration Verification Standard							07/26/25 03:42	
Antimony		0.0385	mg/L	0.0050	96	90	110			
Arsenic		0.0384	mg/L	0.0050	96	90	110			
Chromium		0.0380	mg/L	0.010	95	90	110			
Iron		0.203	mg/L	0.020	102	90	110			
Thallium		0.0395	mg/L	0.0050	99	90	110			
Uranium		0.0368	mg/L	0.00030	92	90	110			
Lab ID: CCV	6	Continuing Calibration Verification Standard							07/26/25 09:56	
Antimony		0.0495	mg/L	0.0050	99	90	110			
Arsenic		0.0472	mg/L	0.0050	94	90	110			
Chromium		0.0465	mg/L	0.010	93	90	110			
Iron		1.31	mg/L	0.020	101	90	110			
Thallium		0.0456	mg/L	0.0050	91	90	110			
Uranium		0.0474	mg/L	0.00030	95	90	110			

Qualifiers:

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ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071646

Report Date: 07/28/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Analytical Run: ICPMS209-B_250723A
Lab ID: QCS	Initial Calibration Verification Standard									07/23/25 16:34
Copper		0.0365	mg/L	0.010	91	90	110			
Lab ID: CCV	Continuing Calibration Verification Standard									07/23/25 16:39
Copper		0.0467	mg/L	0.010	93	90	110			
Method: E200.8										Batch: 201686
Lab ID: MB-201686	6	Method Blank				Run: ICPMS209-B_250723A			07/25/25 03:10	
Antimony		ND	mg/L	0.00002						
Arsenic		ND	mg/L	0.00003						
Chromium		ND	mg/L	0.0003						
Iron		ND	mg/L	0.004						
Thallium		ND	mg/L	0.00008						
Uranium		ND	mg/L	0.00001						
Lab ID: LCS4-201686	6	Laboratory Control Sample				Run: ICPMS209-B_250723A			07/25/25 03:15	
Antimony		0.0985	mg/L	0.0050	99	85	115			
Arsenic		0.0912	mg/L	0.0010	91	85	115			
Chromium		0.0900	mg/L	0.0010	90	85	115			
Iron		0.489	mg/L	0.010	98	85	115			
Thallium		0.0947	mg/L	0.0010	95	85	115			
Uranium		0.0921	mg/L	0.00030	92	85	115			
Lab ID: B25071606-002EMS4	6	Sample Matrix Spike				Run: ICPMS209-B_250723A			07/25/25 06:15	
Antimony		0.107	mg/L	0.0010	107	70	130			
Arsenic		0.0915	mg/L	0.0010	91	70	130			
Chromium		0.0901	mg/L	0.0050	90	70	130			
Iron		0.491	mg/L	0.020	96	70	130			
Thallium		0.0998	mg/L	0.00050	100	70	130			
Uranium		0.0972	mg/L	0.00030	97	70	130			
Lab ID: B25071606-002EMSD4	6	Sample Matrix Spike Duplicate				Run: ICPMS209-B_250723A			07/25/25 06:20	
Antimony		0.103	mg/L	0.0010	103	70	130	3.6	20	
Arsenic		0.0912	mg/L	0.0010	91	70	130	0.3	20	
Chromium		0.0901	mg/L	0.0050	90	70	130	0.0	20	
Iron		0.493	mg/L	0.020	97	70	130	0.3	20	
Thallium		0.0975	mg/L	0.00050	98	70	130	2.3	20	
Uranium		0.0975	mg/L	0.00030	97	70	130	0.3	20	
Method: E200.8										Batch: R446300
Lab ID: LRB	Method Blank									Run: ICPMS209-B_250723A 07/23/25 11:27
Copper		ND	mg/L	0.00005						
Lab ID: LFB	Laboratory Fortified Blank									Run: ICPMS209-B_250723A 07/23/25 11:44
Copper		0.0459	mg/L	0.010	92	85	115			
Lab ID: MB-201683	Method Blank									Run: ICPMS209-B_250723A 07/23/25 17:14
Copper		0.0009	mg/L	0.00005						

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071646

Report Date: 07/28/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R446300
Lab ID: B25071646-001DMS		Sample Matrix Spike				Run: ICPMS209-B_250723A				07/23/25 17:25
Copper		0.0448	mg/L	0.0050	89	70	130			
Lab ID: B25071646-001DMSD		Sample Matrix Spike Duplicate				Run: ICPMS209-B_250723A				07/23/25 17:30
Copper		0.0455	mg/L	0.0050	91	70	130	1.5	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071646

Report Date: 07/28/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1										
Analytical Run: HGCV203-B_250721A										
Lab ID: ICV-201625	Initial Calibration Verification Standard									
Mercury		0.00211	mg/L	0.00010	106	90	110			07/21/25 15:09
Lab ID: CCV1	Continuing Calibration Verification Standard									
Mercury		0.00253	mg/L	0.00010	101	95	105			07/21/25 15:10
Lab ID: CCV	Continuing Calibration Verification Standard									
Mercury		0.00251	mg/L	0.00010	100	90	110			07/21/25 16:34
Method: E245.1										
Batch: 201655										
Lab ID: MB-201655	Method Blank									
Mercury		ND	mg/L	0.00006						Run: HGCV203-B_250721A 07/21/25 16:12
Lab ID: LCS-201655	Laboratory Control Sample									
Mercury		0.00212	mg/L	0.00010	106	85	115			Run: HGCV203-B_250721A 07/21/25 16:13
Lab ID: B25071652-003BMS	Sample Matrix Spike									
Mercury		0.00212	mg/L	0.00010	106	70	130			Run: HGCV203-B_250721A 07/21/25 16:45
Lab ID: B25071652-003BMSD	Sample Matrix Spike Duplicate									
Mercury		0.00210	mg/L	0.00010	105	70	130	0.8	30	Run: HGCV203-B_250721A 07/21/25 16:46

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071646

Report Date: 07/28/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0						Analytical Run: IC METROHM 1_250717A				
Lab ID: ICV	3	Initial Calibration Verification Standard								07/17/25 11:39
Chloride		25.6	mg/L	1.0	103	90	110			
Sulfate		103	mg/L	1.0	103	90	110			
Fluoride		1.24	mg/L	0.10	100	90	110			
Lab ID: CCV	3	Continuing Calibration Verification Standard								07/18/25 23:17
Chloride		26.4	mg/L	1.0	106	90	110			
Sulfate		107	mg/L	1.0	107	90	110			
Fluoride		1.29	mg/L	0.10	103	90	110			
Method: E300.0						Batch: R446054				
Lab ID: ICB	3	Method Blank								Run: IC METROHM 1_250717A 07/17/25 11:56
Chloride		ND	mg/L	0.1						
Sulfate		ND	mg/L	0.7						
Fluoride		ND	mg/L	0.009						
Lab ID: LFB	3	Laboratory Fortified Blank								Run: IC METROHM 1_250717A 07/17/25 12:12
Chloride		25.8	mg/L	1.0	103	90	110			
Sulfate		105	mg/L	1.1	105	90	110			
Fluoride		1.28	mg/L	0.10	102	90	110			
Lab ID: B25071563-003AMS	3	Sample Matrix Spike								Run: IC METROHM 1_250717A 07/18/25 23:50
Chloride		51.0	mg/L	1.0	94	90	110			
Sulfate		215	mg/L	1.0	94	90	110			
Fluoride		1.19	mg/L	0.10	94	90	110			
Lab ID: B25071563-003AMSD	3	Sample Matrix Spike Duplicate								Run: IC METROHM 1_250717A 07/19/25 00:06
Chloride		51.2	mg/L	1.0	95	90	110	0.4	20	
Sulfate		216	mg/L	1.0	94	90	110	0.3	20	
Fluoride		1.20	mg/L	0.10	94	90	110	0.6	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071646

Report Date: 07/28/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: Kelada-01								Analytical Run: SFA-202-B_250718A			
Lab ID: ICV	Initial Calibration Verification Standard										
Cyanide, Weak Acid Dissociable		0.0101	mg/L	0.0010	101	90	110			07/18/25 11:36	
Continuing Calibration Verification Standard											
Lab ID: CCV											07/18/25 12:25
Cyanide, Weak Acid Dissociable		0.0104	mg/L	0.0010	104	90	110				
Method: Kelada-01								Batch: R446065			
Lab ID: ICB	Method Blank										07/18/25 11:37
Cyanide, Weak Acid Dissociable		ND	mg/L	0.0007				Run: SFA-202-B_250718A			
Lab ID: LFB	Laboratory Fortified Blank										07/18/25 11:39
Cyanide, Weak Acid Dissociable		0.0102	mg/L	0.0010	102	90	110	Run: SFA-202-B_250718A			
Lab ID: LCS1-ZnCN	Laboratory Control Sample										07/18/25 11:41
Cyanide, Weak Acid Dissociable		0.00989	mg/L	0.0010	99	90	110	Run: SFA-202-B_250718A			
Lab ID: B25071478-001EMS	Sample Matrix Spike										07/18/25 12:05
Cyanide, Weak Acid Dissociable		0.0112	mg/L	0.0010	112	80	120	Run: SFA-202-B_250718A			
Lab ID: B25071478-001EMSD	Sample Matrix Spike Duplicate										07/18/25 12:09
Cyanide, Weak Acid Dissociable		0.0112	mg/L	0.0010	112	80	120	0.2	10		

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Casper, WY Branch

Work Order: B25071646

Report Date: 08/08/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: RA226-11760
Lab ID: LCS-RA226-11760	3	Laboratory Control Sample				Run: TENNELEC-3_250728A				08/07/25 13:18
Radium 226		8.8	pCi/L	88		70	130			
Radium 226 precision (±)		1.4	pCi/L							
Radium 226 MDC		0.19	pCi/L							
Lab ID: MB-RA226-11760	3	Method Blank				Run: TENNELEC-3_250728A				08/07/25 13:18
Radium 226		-0.01	pCi/L							U
Radium 226 precision (±)		0.09	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Lab ID: C25070854-002DDUP	3	Sample Duplicate				Run: TENNELEC-3_250728A				08/07/25 15:40
Radium 226		0.033	pCi/L					26	30	U
Radium 226 precision (±)		0.099	pCi/L							
Radium 226 MDC		0.16	pCi/L							
- The RER result is 0.06.										
Method: E903.0										Batch: RA226-11758
Lab ID: LCS-RA226-11758	3	Laboratory Control Sample				Run: TENNELEC-4_250723D				08/06/25 16:47
Radium 226		10	pCi/L	105		70	130			
Radium 226 precision (±)		1.7	pCi/L							
Radium 226 MDC		0.15	pCi/L							
Lab ID: MB-RA226-11758	3	Method Blank				Run: TENNELEC-4_250723D				08/06/25 16:47
Radium 226		-0.04	pCi/L							U
Radium 226 precision (±)		0.08	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Lab ID: C25070583-002EDUP	3	Sample Duplicate				Run: TENNELEC-4_250723D				08/06/25 16:47
Radium 226		1.6	pCi/L					8.1	30	
Radium 226 precision (±)		0.35	pCi/L							
Radium 226 MDC		0.26	pCi/L							
- The RER result is 0.26.										

Qualifiers:

RL - Analyte Reporting Limit
U - Not detected

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Casper, WY Branch

Work Order: B25071646

Report Date: 08/08/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-7721R
Lab ID: LCS-228-RA226-11758	3	Laboratory Control Sample			Run: TENNELEC-4_250723B					07/30/25 16:02
Radium 228		7.2	pCi/L	78		70	130			
Radium 228 precision (±)		1.9	pCi/L							
Radium 228 MDC		0.74	pCi/L							
Lab ID: MB-RA226-11758	3	Method Blank			Run: TENNELEC-4_250723B					07/30/25 16:02
Radium 228		0.4	pCi/L							U
Radium 228 precision (±)		0.5	pCi/L							
Radium 228 MDC		0.8	pCi/L							
Lab ID: C25070583-002EDUP	3	Sample Duplicate			Run: TENNELEC-4_250723B					07/30/25 16:02
Radium 228		4.0	pCi/L					11	30	
Radium 228 precision (±)		1.3	pCi/L							
Radium 228 MDC		1.0	pCi/L							
- The RER result is 0.26.										

Qualifiers:

RL - Analyte Reporting Limit
U - Not detected

ND - Not detected at the Reporting Limit (RL)



Work Order Receipt Checklist

Linkan Engineering

B25071646

Login completed by: Crystal M. Jones

Date Received: 7/18/2025

Reviewed by: mstephens

Received by: TAR

Reviewed Date: 7/21/2025

Carrier name: Return-FedEx NDA

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☐	No ☒	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☒	No ☐	Not Applicable ☐
Container/Temp Blank temperature:	11.9°C Melted Ice		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes ☐	No ☐	No VOA vials submitted ☒
Water - pH acceptable upon receipt?	Yes ☒	No ☐	Not Applicable ☐

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as -dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Trip Blanks and/or Blind Duplicate samples are assigned the earliest collection time for the associated requested analysis in order to evaluate the holding time unless specifically indicated.

Contact and Corrective Action Comments:

The sample for potentially dissolved metals analysis was subsampled and filtered in the laboratory. According to the Code of Colorado Regulation these samples should be filtered within 8 to 96 hours of preservation with nitric acid to a



Work Order Receipt Checklist - Continued

Linkan Engineering

B25071646

pH < 2.

The sample for hexavalent chromium was received past the 24-hour hold time. Proceed with analysis past hold per phone conversation with Chris Prosper on 07/18/25. CMJ 07/18/25

Laboratory Certifications and Accreditations

Current certificates are available at www.energylab.com website:

	Agency	Number
Billings, MT  	Alaska	17-023
	California	3087
	Colorado	MT00005
	Department of Defense (DoD)/ISO17025	ADE-2588
	Florida (Primary NELAP)	E87668
	Idaho	MT00005
	Louisiana	05079
	Montana	CERT0044
	Nebraska	NE-OS-13-04
	Nevada	NV-C24-00250
	North Dakota	R-007
	National Radon Proficiency	109383-RMP
	Oregon	4184
	South Dakota	ARSD 74:04:07
	Texas	TX-C24-00302
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00170
	Washington	C1039
Casper, WY 	Alaska	20-006
	California	3021
	Colorado	WY00002
	Florida (Primary NELAP)	E87641
	Idaho	WY00002
	Louisiana	05083
	Montana	CERT0002
	Nebraska	NE-OS-08-04
	Nevada	NV-C24-00245
	North Dakota	R-125
	Oregon	WY200001
	South Dakota	WY00002
	Texas	T104704181-23-21
	US EPA Region VIII	WY00002
	USNRC License	49-26846-01
	Washington	C1012
Gillette, WY	US EPA Region VIII	WY00006
Helena, MT	Colorado	MT00945
	Montana	CERT0079
	Nevada	NV-C24-00119
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00090



Chain of Custody & Analytical Request Record

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Account Information (Billing information)

Company/Name	Linkan
Contact	Chris Prosper
Phone	775-777-8003
Mailing Address	2720 Ruby Vista Dr
City, State, Zip	Elko, NV 89801
Email	AP@linkan.com
Receive Invoice	☐ Hard Copy ☒ Email
Purchase Order	Quote 117287
25-0152	193741

Report Information (if different than Account Information)

Company/Name	Linkan
Contact	Alex Schwiebert
Phone	775-397-6779
Mailing Address	2720 Ruby Vista Dr
City, State, Zip	Elko, NV 89801
Email	see comments
Receive Report	☐ Hard Copy ☒ Email
Special Report/Forms:	☐ LEVEL IV ☐ NELAC ☒ EDD/EDT (contact laboratory) ☐ Other

Comments

Outfall 001A - Bi-Weekly Sample

Please email Report and EDD results to:
chris.prosper@linkan.com
adam.billin@linkan.com
alex.schwiebert@linkan.com
peter.hays@state.co.us

Project Information

Project Name, PWSID, Permit, etc.	Schwartzwalder Mine
Sampler Name	Bryant Acuña
Sample Origin	State of Colorado
EPAS/State Compliance	☒ Yes ☐ No
URANIUM MINING CLIENTS MUST indicate sample type	
☐ Unprocessed Ore	
☐ Processed Ore (Ground or Refined) **CALL BEFORE SENDING	
☐ 11(e)2 Byproduct Material (Can ONLY be Submitted to ELI Casper Location)	

Matrix Codes

A - Air	W - Water
S - Solids	V - Vegetation
B - Bioassay	O - Oil
DW - Drinking Water	

Analysis Requested

Metals, Dissolved	Metals, Potentially Dissolved	Cyanide, WAD	Sulfide, Methylene Blue	Radium 226, Dissolved	Radium 226 + Radium 228
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See Attached

Metals, Total Recoverable	Metals, Potentially Dissolved	Cyanide, WAD	Sulfide, Methylene Blue	Radium 226, Dissolved	Radium 226 + Radium 228
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All turnaround times are standard unless marked as RUSH.

Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling - See Instructions Page

Sample Identification (Name, Location, Interval, etc.)	Collection Date	Time	Number of Containers	Matrix (See Codes Above)	Hexavalent Chromium	Metals, Dissolved	Metals, Total Recoverable	Metals, Potentially Dissolved	Cyanide, WAD	Sulfide, Methylene Blue	Radium 226, Dissolved	Radium 226 + Radium 228	See Attached	ELI LAB ID Laboratory Use Only
1 Outfall 001A	7/15/15	1430	8	W										1325071646
2														
3														
4														
5														
6														
7														
8														
9														

ELI is REQUIRED to provide preservative traceability. If the preservatives supplied with the bottle order were NOT used, please attach your preservative information with this COC.

Custody Record MUST be signed	Relinquished by (print) Bryant Acuña	Date/Time 7/15/1530	Signature [Signature]	Received by (print) Theresa Riley	Date/Time 07/15/15 1030	Signature [Signature]			
Shipped By	Cooler ID(s)	Custody Seals	Intact	Receipt Temp	Temp Blank	On Ice	Payment Type	Amount	Receipt Number (cash/check only)
		Y N C B	Y N	°C	Y N	Y N	CC Cash Check	\$	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.



Trust our People. Trust our Data.
www.energylab.com

Billings, MT 406.252.6325 • Casper, WY 307.235.0515 • Gillette, WY 307.686.7175 • Helena, MT 406.442.0711



BOTTLE ORDER 193741

SHIPPED Linkan Engineering

TO:



To report an issue with this order, view Safety Data Sheets, or let us know how we are doing, scan here or go to energylab.com/contact-us

Contact: Chris Prosper

400 Corporate Circle, Suite H
Golden CO 80401

Phone: (719) 247-0564

Project: Schwartzwalder Mine-Outfall 001A Monthly + Weekly

Order Created by: Yvonna E. Smith

Shipped From: Billings, MT

Ship Date: 4/17/2025

VIA: Ground

Quote Used: 17287

Bottle Size/Type	Bottles Per Samp	Method	Tests	Critical Hold Time	Preservative	Notes	Num of Samp
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Outfall 001A Weekly COD (4 Sets)

500 mL Plastic	1	E410.4 HACH 8000	Chemical Oxygen Demand Preparation for COD testing HACH 8000		H2SO4		1
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Outfall 001A Three Times Weekly TSS (12 Sets)

1 Liter Plastic Wide Mouth	1	A2540 D	Solids, Total Suspended			Fill to the neck of the container.	1
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Outfall 001A Bi-Weekly (2 Sets)

250 mL Plastic	1	A3500-Cr B E300.0	Chromium, Hexavalent Anions by Ion Chromatography	24.00 hrs			1
250 mL Plastic	1	E200.7_8	Metals by ICP/ICPMS, Dissolved		HNO3	Filter before preservation	1
250 mL Plastic	1	E200.7_8 Calculation E245.1 E200.2 E245.1	Metals by ICP/ICPMS, Total Recoverable Chromium, Total Recoverable Trivalent Mercury, Total Metals Digestion by E200.2 Mercury Digestion by E245.1		HNO3		1

BO#: 193741

1 of 2

250 mL Plastic	1	E200.7_8 MCAWW	Metals by ICP/ICPMS, Potentially Dissolved Preparation, Potentially Dissolved Filtration		HNO3	1
500 mL Amber Plastic	1	Kelada-01	Cyanide, Weak Acid Dissociable		NaOH	1
250 mL Plastic	1	A4500-S D	Sulfide, Methylene Blue Colorimetric	 	ZnAc NaOH	1
1 Gallon Plastic	1	E903.0	Radium 226, Dissolved		HNO3	1
1 Gallon Plastic	1	A7500-RA E903.0 RA-05	Radium 226 + Radium 228 Radium 226, Total Radium 228, Total		HNO3	1

Comments

	HNO3 - Nitric Acid		H2SO4 - Sulfuric Acid		NaOH - Sodium Hydroxide	We strongly suggest that the samples are shipped the same day as they are collected.
	ZnAc - Zinc Acetate		HCl - Hydrochloric Acid		H3PO4 - Phosphoric Acid	
Material Safety Data Sheets(MSDS) Available @ EnergyLab.com ->Services -> MSDS Sheets						
Corrosive Chemicals: Nitric, Sulfuric, Phosphoric, Hydrochloric Acids and Sodium Hydroxide. Zinc Acetate is a skin irritant.						
Subcontracting of sample analyses to an outside laboratory may be required. If so, Energy Laboratories will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.						

BO#: 193741

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