



ANALYTICAL SUMMARY REPORT

July 14, 2025

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

Work Order: B25061882 Quote ID: B17287

Project Name: Schwartzwalder Mine

Energy Laboratories Inc Billings MT received the following 1 sample for Linkan Engineering on 6/20/2025 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B25061882-001	Outfall 001A	06/19/25 14:40	06/20/25	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: B25061882

Report Date: 07/14/25

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: B25061882-001
Client Sample ID: Outfall 001A

Report Date: 07/14/25
Collection Date: 06/19/25 14:40
Date Received: 06/20/25
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
INORGANICS							
Chloride	0.6	mg/L	J	1		E300.0	06/22/25 00:38 / caa
Sulfate	2	mg/L		1		E300.0	06/22/25 00:38 / caa
Fluoride	ND	mg/L		0.1		E300.0	06/22/25 00:38 / caa
Cyanide, Weak Acid Dissociable	ND	ug/L		1		Kelada-01	06/20/25 13:42 / fap
Sulfide	ND	mg/L		0.04		A4500-S D	06/20/25 16:21 / pmw
METALS, DISSOLVED							
Chromium, Hexavalent	ND	ug/L		10		A3500-Cr B	06/20/25 12:12 / jks
Iron	6	ug/L	J	20		E200.8	06/24/25 02:28 / aem
Manganese	0.3	ug/L	J	1		E200.8	06/24/25 02:28 / aem
METALS, POTENTIALLY DISSOLVED							
Cadmium	ND	ug/L		1		E200.8	06/27/25 03:11 / aem
Copper	0.1	ug/L	JL	0.5		E200.8	06/29/25 04:29 / jks
Nickel	0.08	ug/L	J	5		E200.8	06/27/25 03:11 / aem
Selenium	0.1	ug/L	J	1		E200.8	06/29/25 04:29 / jks
Silver	ND	ug/L	L	0.04		E200.8	06/27/25 03:11 / aem
Zinc	ND	ug/L		10		E200.8	06/28/25 09:09 / jks
METALS, TOTAL RECOVERABLE							
Arsenic	10	ug/L		1		E200.8	06/27/25 00:13 / aem
Chromium	ND	ug/L		5		E200.8	06/27/25 17:55 / jks
Chromium, Trivalent	ND	ug/L		10		Calculation	07/01/25 08:42 / bap
Iron	20	ug/L	J	20		E200.8	06/27/25 00:13 / aem
Uranium	6.8	ug/L		0.3		E200.8	06/27/25 17:55 / jks
METALS, TOTAL							
Antimony	ND	ug/L		1		E200.8	06/27/25 00:13 / aem
Boron	170	ug/L		50		E200.7	06/25/25 18:31 / enb
Mercury	ND	ug/L		0.1		E245.1	06/24/25 14:11 / mjb
Thallium	ND	ug/L		0.5		E200.8	06/27/25 17:55 / jks
RADIONUCLIDES - DISSOLVED							
Radium 226	0.03	pCi/L	U			E903.0	06/30/25 16:24 / eli-ca
Radium 226 precision (±)	0.1	pCi/L				E903.0	06/30/25 16:24 / eli-ca
Radium 226 MDC	0.2	pCi/L				E903.0	06/30/25 16:24 / eli-ca
RADIONUCLIDES - TOTAL							
Radium 226	0.1	pCi/L	U			E903.0	07/08/25 14:55 / eli-ca
Radium 226 precision (±)	0.1	pCi/L				E903.0	07/08/25 14:55 / eli-ca
Radium 226 MDC	0.2	pCi/L				E903.0	07/08/25 14:55 / eli-ca
Radium 228	0.7	pCi/L	U			RA-05	07/03/25 12:32 / eli-ca
Radium 228 precision (±)	0.7	pCi/L				RA-05	07/03/25 12:32 / eli-ca
Radium 228 MDC	1.2	pCi/L				RA-05	07/03/25 12:32 / eli-ca
Radium 226 + Radium 228	0.7	pCi/L	U			A7500-RA	07/11/25 13:24 / eli-ca

Report Definitions:
 RL - Analyte Reporting Limit
 QCL - Quality Control Limit
 J - Estimated value - analyte was present but less than the Reporting Limit (RL)
 U - Not detected

MCL - Maximum Contaminant Level
 ND - Not detected at the Reporting Limit (RL)
 L - Lowest available reporting limit for the analytical method used and/or volume submitted



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Linkan Engineering
Project: Schwartzwalder Mine
Lab ID: B25061882-001
Client Sample ID: Outfall 001A

Report Date: 07/14/25
Collection Date: 06/19/25 14:40
Date Received: 06/20/25
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Radium 226 + Radium 228 precision ($\pm$)	0.8	pCi/L				A7500-RA	07/11/25 13:24 / eli-ca
Radium 226 + Radium 228 MDC	1.2	pCi/L				A7500-RA	07/11/25 13:24 / 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: B25061882

Report Date: 07/01/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3500-Cr B								Analytical Run: SPEC3_250620A		
Lab ID: CCV	Continuing Calibration Verification Standard			06/20/25 12:12						
Chromium, Hexavalent		0.104	mg/L	0.010	104	90	110			
Method: A3500-Cr B								Batch: R444502		
Lab ID: MBLK	Method Blank			06/20/25 12:12						
Chromium, Hexavalent		ND	mg/L	0.003			Run: SPEC3_250620A			
Lab ID: LCS	Laboratory Control Sample			06/20/25 12:12						
Chromium, Hexavalent		0.101	mg/L	0.010	101	90	110			
Lab ID: B25061882-001AMS	Sample Matrix Spike			06/20/25 12:12						
Chromium, Hexavalent		0.106	mg/L	0.010	106	80	120			
Lab ID: B25061882-001AMSD	Sample Matrix Spike Duplicate			06/20/25 12:12						
Chromium, Hexavalent		0.102	mg/L	0.010	102	80	120			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25061882

Report Date: 07/01/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	A4500-S D							Analytical Run: SPEC3_250620C		
Lab ID:	CCV	Continuing Calibration Verification Standard						06/20/25 16:21		
Sulfide		0.498	mg/L	0.040	100	90	110			
Method:	A4500-S D							Batch: R444568		
Lab ID:	MBLK	Method Blank				Run: SPEC3_250620C			06/20/25 16:21	
Sulfide		ND	mg/L	0.01						
Lab ID:	LCS	Laboratory Control Sample				Run: SPEC3_250620C			06/20/25 16:21	
Sulfide		0.204	mg/L	0.040	106	85	115			
Lab ID:	B25061768-001DMS	Sample Matrix Spike				Run: SPEC3_250620C			06/20/25 16:21	
Sulfide		0.197	mg/L	0.040	103	70	130			
Lab ID:	B25061768-001DMSD	Sample Matrix Spike Duplicate				Run: SPEC3_250620C			06/20/25 16:21	
Sulfide		0.196	mg/L	0.040	102	70	130	0.2	20	

Qualifiers:

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QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25061882

Report Date: 07/01/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0						Analytical Run: IC METROHM 1_250619A				
Lab ID: ICV	3	Initial Calibration Verification Standard								06/19/25 11:38
Chloride		25.3	mg/L	1.0	101	90	110			
Sulfate		104	mg/L	1.0	104	90	110			
Fluoride		1.23	mg/L	0.10	99	90	110			
Lab ID: CCV	3	Continuing Calibration Verification Standard								06/21/25 22:10
Chloride		25.7	mg/L	1.0	103	90	110			
Sulfate		104	mg/L	1.0	104	90	110			
Fluoride		1.25	mg/L	0.10	100	90	110			
Method: E300.0						Batch: R444488				
Lab ID: ICB	3	Method Blank								Run: IC METROHM 1_250619A 06/19/25 11:55
Chloride		ND	mg/L	0.1						
Sulfate		ND	mg/L	0.5						
Fluoride		ND	mg/L	0.01						
Lab ID: LFB	3	Laboratory Fortified Blank								Run: IC METROHM 1_250619A 06/19/25 12:11
Chloride		24.8	mg/L	1.0	99	90	110			
Sulfate		103	mg/L	1.1	103	90	110			
Fluoride		1.28	mg/L	0.10	102	90	110			
Lab ID: B25061873-002AMS	3	Sample Matrix Spike								Run: IC METROHM 1_250619A 06/21/25 22:59
Chloride		29.9	mg/L	1.0	104	90	110			
Sulfate		184	mg/L	1.1	103	90	110			
Fluoride		1.43	mg/L	0.10	102	90	110			
Lab ID: B25061873-002AMSD	3	Sample Matrix Spike Duplicate								Run: IC METROHM 1_250619A 06/21/25 23:16
Chloride		30.4	mg/L	1.0	106	90	110	1.4	20	
Sulfate		187	mg/L	1.1	106	90	110	1.5	20	
Fluoride		1.46	mg/L	0.10	104	90	110	1.8	20	

Qualifiers:

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QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25061882

Report Date: 07/01/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: Kelada-01								Analytical Run: SFA-202-B_250620A		
Lab ID: ICV	Initial Calibration Verification Standard							06/20/25 11:54		
Cyanide, Weak Acid Dissociable		0.00966	mg/L	0.0010	97	90	110			
Continuing Calibration Verification Standard								06/20/25 12:50		
Lab ID: CCV		0.0109	mg/L	0.0010	109	90	110			
Cyanide, Weak Acid Dissociable										
Method: Kelada-01								Batch: R444536		
Lab ID: ICB	Method Blank					Run: SFA-202-B_250620A			06/20/25 11:56	
Cyanide, Weak Acid Dissociable		ND	mg/L	0.0007						
Laboratory Control Sample								06/20/25 12:00		
Lab ID: LCS1-ZnCN		0.0107	mg/L	0.0010	107	90	110			
Cyanide, Weak Acid Dissociable										
Sample Matrix Spike								06/20/25 12:18		
Lab ID: B25061579-001GMS		0.0104	mg/L	0.0010	104	80	120			
Cyanide, Weak Acid Dissociable										
Sample Matrix Spike Duplicate								06/20/25 12:22		
Lab ID: B25061579-001GMSD		0.0109	mg/L	0.0010	109	80	120	4.2	10	
Cyanide, Weak Acid Dissociable										
Laboratory Fortified Blank								06/20/25 12:44		
Lab ID: LFB		0.0110	mg/L	0.0010	110	90	110			
Cyanide, Weak Acid Dissociable										

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Work Order: B25061882

Report Date: 07/01/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E200.7							Analytical Run: ICP205-B_250625B		
Lab ID:	ICV	Continuing Calibration Verification Standard							06/25/25 13:49	
Boron		2.55	mg/L	0.10	102	95	105			
Lab ID:	CCV	Continuing Calibration Verification Standard							06/25/25 18:29	
Boron		2.56	mg/L	0.10	102	90	110			
Method:	E200.7							Batch: 200879		
Lab ID:	MB-200879	Method Blank			Run: ICP205-B_250625B			06/25/25 18:07		
Boron		ND	mg/L	0.008						
Lab ID:	LCS3-200879	Laboratory Control Sample			Run: ICP205-B_250625B			06/25/25 18:08		
Boron		1.07	mg/L	0.10	107	85	115			
Lab ID:	B25061876-001DMS3	Sample Matrix Spike			Run: ICP205-B_250625B			06/25/25 18:25		
Boron		1.12	mg/L	0.050	112	70	130			
Lab ID:	B25061876-001DMSD3	Sample Matrix Spike Duplicate			Run: ICP205-B_250625B			06/25/25 18:26		
Boron		1.08	mg/L	0.050	108	70	130	4.2	20	

Qualifiers:

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QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25061882

Report Date: 07/01/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8						Analytical Run: ICPMS207-B_250627A				
Lab ID: QCS	3	Initial Calibration Verification Standard								06/28/25 03:30
Copper		0.0388	mg/L	0.010	97	90	110			
Selenium		0.0402	mg/L	0.0050	100	90	110			
Zinc		0.0391	mg/L	0.0050	98	90	110			
Lab ID: CCV	3	Continuing Calibration Verification Standard								06/28/25 08:11
Copper		0.0474	mg/L	0.010	95	90	110			
Selenium		0.0500	mg/L	0.0050	100	90	110			
Zinc		0.0475	mg/L	0.0050	95	90	110			
Lab ID: QCS	3	Initial Calibration Verification Standard								06/29/25 02:03
Copper		0.0398	mg/L	0.010	99	90	110			
Selenium		0.0397	mg/L	0.0050	99	90	110			
Zinc		0.0392	mg/L	0.0050	98	90	110			
Lab ID: CCV	3	Continuing Calibration Verification Standard								06/29/25 03:43
Copper		0.0475	mg/L	0.010	95	90	110			
Selenium		0.0488	mg/L	0.0050	97	90	110			
Zinc		0.0482	mg/L	0.0050	96	90	110			
Method: E200.8						Batch: R444978				
Lab ID: LRB	3	Method Blank								Run: ICPMS207-B_250627A 06/27/25 11:19
Copper		ND	mg/L	0.00005						
Selenium		ND	mg/L	0.00003						
Zinc		ND	mg/L	0.001						
Lab ID: LFB	3	Laboratory Fortified Blank								Run: ICPMS207-B_250627A 06/27/25 11:36
Copper		0.0455	mg/L	0.010	91	85	115			
Selenium		0.0477	mg/L	0.0050	95	85	115			
Zinc		0.0470	mg/L	0.0050	94	85	115			
Lab ID: MB-200823	3	Method Blank								Run: ICPMS207-B_250627A 06/28/25 08:52
Copper		0.0001	mg/L	0.00005						
Selenium		ND	mg/L	0.00003						
Zinc		0.001	mg/L	0.001						
Lab ID: B25062399-006BMS	3	Sample Matrix Spike								Run: ICPMS207-B_250627A 06/28/25 14:56
Copper		0.0458	mg/L	0.0050	88	70	130			
Selenium		0.0468	mg/L	0.0010	93	70	130			
Zinc		0.0471	mg/L	0.010	91	70	130			
Lab ID: B25062399-006BMSD	3	Sample Matrix Spike Duplicate								Run: ICPMS207-B_250627A 06/28/25 15:14
Copper		0.0445	mg/L	0.0050	86	70	130	2.9	20	
Selenium		0.0466	mg/L	0.0010	92	70	130	0.4	20	
Zinc		0.0460	mg/L	0.010	88	70	130	2.5	20	
Lab ID: MB-200823	3	Method Blank								Run: ICPMS207-B_250627A 06/29/25 04:24
Copper		0.0003	mg/L	0.00005						
Selenium		0.00006	mg/L	0.00003						

Qualifiers:

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QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25061882

Report Date: 07/01/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R444978
Lab ID: MB-200823	3	Method Blank				Run: ICPMS207-B_250627A				06/29/25 04:24
Zinc		ND	mg/L	0.001						
Lab ID: B25061189-001BMS	3	Sample Matrix Spike				Run: ICPMS207-B_250627A				06/29/25 08:46
Copper		0.224	mg/L	0.0050	89	70	130			
Selenium		0.734	mg/L	0.0010	100	70	130			
Zinc		0.537	mg/L	0.010	89	70	130			
Lab ID: B25061189-001BMSD	3	Sample Matrix Spike Duplicate				Run: ICPMS207-B_250627A				06/29/25 08:52
Copper		0.231	mg/L	0.0050	92	70	130	2.8	20	
Selenium		0.743	mg/L	0.0010	99	70	130	1.2	20	
Zinc		0.534	mg/L	0.010	85	70	130	0.5	20	

Qualifiers:

RL - Analyte Reporting Limit

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QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25061882

Report Date: 07/01/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E200.8	Analytical Run: ICPMS208-B_250625B								
Lab ID:	QCS	3	Initial Calibration Verification Standard							06/26/25 18:52
Antimony			0.0414	mg/L	0.0050	104	90	110		
Arsenic			0.0377	mg/L	0.0050	94	90	110		
Iron			0.199	mg/L	0.020	100	90	110		
Lab ID:	CCV	3	Continuing Calibration Verification Standard							06/26/25 23:02
Antimony			0.0500	mg/L	0.0050	100	90	110		
Arsenic			0.0462	mg/L	0.0050	92	90	110		
Iron			1.18	mg/L	0.020	90	90	110		
Method:	E200.8									Batch: 200879
Lab ID:	MB-200879	6	Method Blank				Run: ICPMS208-B_250625B			06/26/25 19:28
Antimony			ND	mg/L	0.0004					
Arsenic			ND	mg/L	0.0002					
Chromium			ND	mg/L	0.0005					
Iron			ND	mg/L	0.006					
Thallium			ND	mg/L	0.0003					
Uranium			ND	mg/L	0.00003					
Lab ID:	LCS4-200879	6	Laboratory Control Sample				Run: ICPMS208-B_250625B			06/26/25 19:46
Antimony			0.101	mg/L	0.0050	101	85	115		
Arsenic			0.0923	mg/L	0.0010	92	85	115		
Chromium			0.0900	mg/L	0.0010	90	85	115		
Iron			0.494	mg/L	0.010	99	85	115		
Thallium			0.109	mg/L	0.0010	109	85	115		
Uranium			0.101	mg/L	0.00030	101	85	115		
Lab ID:	B25061875-001EMS4	6	Sample Matrix Spike				Run: ICPMS208-B_250625B			06/26/25 23:43
Antimony			0.102	mg/L	0.0010	102	70	130		
Arsenic			0.127	mg/L	0.0010	98	70	130		
Chromium			0.0931	mg/L	0.0050	93	70	130		
Iron			10.9	mg/L	0.020		70	130		A
Thallium			0.105	mg/L	0.0010	105	70	130		
Uranium			24.0	mg/L	0.00030		70	130		A
Lab ID:	B25061875-001EMSD4	6	Sample Matrix Spike Duplicate				Run: ICPMS208-B_250625B			06/26/25 23:49
Antimony			0.0996	mg/L	0.0010	100	70	130	2.4	20
Arsenic			0.122	mg/L	0.0010	93	70	130	4.2	20
Chromium			0.0890	mg/L	0.0050	89	70	130	4.6	20
Iron			10.9	mg/L	0.020		70	130	0.1	20
Thallium			0.103	mg/L	0.0010	103	70	130	2.2	20
Uranium			23.1	mg/L	0.00030		70	130	4.0	20

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

A - Analyte level was greater than four times the spike level - in accordance with the method, percent recovery is not calculated



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25061882

Report Date: 07/01/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8						Analytical Run: ICPMS209-B_250623A				
Lab ID: QCS	2	Initial Calibration Verification Standard								06/23/25 20:02
Iron		0.200	mg/L	0.020	100	90	110			
Manganese		0.195	mg/L	0.0050	97	90	110			
Lab ID: CCV	2	Continuing Calibration Verification Standard								06/24/25 02:11
Iron		1.26	mg/L	0.020	97	90	110			
Manganese		0.0480	mg/L	0.0050	96	90	110			
Method: E200.8						Batch: R444636				
Lab ID: LRB	2	Method Blank								Run: ICPMS209-B_250623A 06/23/25 11:40
Iron		ND	mg/L	0.001						
Manganese		ND	mg/L	0.00007						
Lab ID: LFB	2	Laboratory Fortified Blank								Run: ICPMS209-B_250623A 06/23/25 20:29
Iron		4.76	mg/L	0.020	95	85	115			
Manganese		0.0452	mg/L	0.0050	90	85	115			
Lab ID: B25061815-001AMS	2	Sample Matrix Spike								Run: ICPMS209-B_250623A 06/24/25 01:28
Iron		4.97	mg/L	0.020	99	70	130			
Manganese		0.0505	mg/L	0.0010	92	70	130			
Lab ID: B25061815-001AMSD	2	Sample Matrix Spike Duplicate								Run: ICPMS209-B_250623A 06/24/25 01:33
Iron		4.90	mg/L	0.020	98	70	130	1.4	20	
Manganese		0.0487	mg/L	0.0010	88	70	130	3.6	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: B25061882

Report Date: 07/01/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8						Analytical Run: ICPMS209-B_250625B				
Lab ID: QCS	3	Initial Calibration Verification Standard								06/26/25 23:47
Cadmium		0.0198	mg/L	0.0010	99	90	110			
Nickel		0.0384	mg/L	0.0050	96	90	110			
Silver		0.0201	mg/L	0.0050	100	90	110			
Lab ID: CCV	3	Continuing Calibration Verification Standard								06/27/25 02:26
Cadmium		0.0468	mg/L	0.0010	94	90	110			
Nickel		0.0453	mg/L	0.0050	91	90	110			
Silver		0.0192	mg/L	0.0050	96	90	110			
Method: E200.8						Batch: R444817				
Lab ID: LRB	3	Method Blank								Run: ICPMS209-B_250625B 06/25/25 14:02
Cadmium		0.00001	mg/L	9E-6						
Nickel		ND	mg/L	0.00006						
Silver		5E-6	mg/L	3E-6						
Lab ID: LFB	3	Laboratory Fortified Blank								Run: ICPMS209-B_250625B 06/25/25 14:19
Cadmium		0.0466	mg/L	0.0010	93	85	115			
Nickel		0.0451	mg/L	0.0050	90	85	115			
Silver		0.0188	mg/L	0.0050	94	85	115			
Lab ID: MB-200823	3	Method Blank								Run: ICPMS209-B_250625B 06/27/25 02:21
Cadmium		8E-6	mg/L	7E-6						
Nickel		0.0002	mg/L	0.00006						
Silver		ND	mg/L	5E-6						
Lab ID: B25061882-001DMS	3	Sample Matrix Spike								Run: ICPMS209-B_250625B 06/27/25 03:16
Cadmium		0.0452	mg/L	0.0010	90	70	130			
Nickel		0.0432	mg/L	0.0050	86	70	130			
Silver		0.0182	mg/L	0.0010	91	70	130			
Lab ID: B25061882-001DMSD	3	Sample Matrix Spike Duplicate								Run: ICPMS209-B_250625B 06/27/25 03:22
Cadmium		0.0470	mg/L	0.0010	94	70	130	4.0	20	
Nickel		0.0440	mg/L	0.0050	88	70	130	1.8	20	
Silver		0.0190	mg/L	0.0010	95	70	130	4.3	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: B25061882

Report Date: 07/01/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Analytical Run: ICPMS209-B_250627A		
Lab ID: QCS	3	Initial Calibration Verification Standard								06/27/25 13:39
Chromium		0.0400	mg/L	0.010	100	90	110			
Thallium		0.0419	mg/L	0.0050	105	90	110			
Uranium		0.0433	mg/L	0.00030	108	90	110			
Lab ID: CCV	3	Continuing Calibration Verification Standard								06/27/25 17:22
Chromium		0.0491	mg/L	0.010	98	90	110			
Thallium		0.0488	mg/L	0.0050	97	90	110			
Uranium		0.0514	mg/L	0.00030	103	90	110			
Method: E200.8								Batch: 200879		
Lab ID: MB-200879	3	Method Blank								Run: ICPMS209-B_250627A 06/27/25 16:50
Chromium		ND	mg/L	0.0003						
Thallium		ND	mg/L	0.00008						
Uranium		ND	mg/L	0.00001						

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25061882

Report Date: 07/01/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method:	E245.1								Analytical Run: HGCV203-B_250624A		
Lab ID:	ICV-200839	Initial Calibration Verification Standard							06/24/25 12:51		
Mercury		0.00201	mg/L	0.00010	101	90	110				
Lab ID:	CCV1	Continuing Calibration Verification Standard							06/24/25 12:54		
Mercury		0.00250	mg/L	0.00010	100	95	105				
Lab ID:	CCV	Continuing Calibration Verification Standard							06/24/25 14:07		
Mercury		0.00251	mg/L	0.00010	100	90	110				
Method:	E245.1								Batch: 200857		
Lab ID:	MB-200857	Method Blank			Run: HGCV203-B_250624A				06/24/25 13:38		
Mercury		ND	mg/L	0.00006							
Lab ID:	LCS-200857	Laboratory Control Sample			Run: HGCV203-B_250624A				06/24/25 13:40		
Mercury		0.00207	mg/L	0.00010	104	85	115				
Lab ID:	B25061934-001BMS	Sample Matrix Spike			Run: HGCV203-B_250624A				06/24/25 14:15		
Mercury		0.00201	mg/L	0.00010	100	70	130				
Lab ID:	B25061934-001BMSD	Sample Matrix Spike Duplicate			Run: HGCV203-B_250624A				06/24/25 14:16		
Mercury		0.00217	mg/L	0.00010	109	70	130	7.8	30		

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Casper, WY Branch

Work Order: B25061882

Report Date: 07/11/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: RA226-11718
Lab ID: LCS-RA226-11718	3	Laboratory Control Sample				Run: TENNELEC-4_250624A				06/30/25 14:01
Radium 226		12	pCi/L	118		70	130			
Radium 226 precision (±)		1.9	pCi/L							
Radium 226 MDC		0.24	pCi/L							
Lab ID: MB-RA226-11718	3	Method Blank				Run: TENNELEC-4_250624A				06/30/25 14:01
Radium 226		0.03	pCi/L							U
Radium 226 precision (±)		0.2	pCi/L							
Radium 226 MDC		0.3	pCi/L							
Lab ID: C25060318-005DDUP	3	Sample Duplicate				Run: TENNELEC-4_250624A				06/30/25 14:01
Radium 226		90	pCi/L					3.3	30	
Radium 226 precision (±)		14	pCi/L							
Radium 226 MDC		0.26	pCi/L							
- The RER result is 0.15.										
Method: E903.0										Batch: RA226-11723
Lab ID: LCS-RA226-11723	3	Laboratory Control Sample				Run: TENNELEC-4_250630C				07/08/25 10:04
Radium 226		9.3	pCi/L	93		70	130			
Radium 226 precision (±)		1.5	pCi/L							
Radium 226 MDC		0.17	pCi/L							
Lab ID: MB-RA226-11723	3	Method Blank				Run: TENNELEC-4_250630C				07/08/25 10:04
Radium 226		0.1	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Lab ID: B25061882-001HDUP	3	Sample Duplicate				Run: TENNELEC-4_250630C				07/08/25 14:55
Radium 226		0.012	pCi/L					170	30	UR
Radium 226 precision (±)		0.11	pCi/L							
Radium 226 MDC		0.19	pCi/L							
- Duplicate RPD is outside of the acceptance range for this analysis. However, the RER is less than or equal to the limit of 3. The RER result is 0.70.										

Qualifiers:

RL - Analyte Reporting Limit

R - Relative Percent Difference (RPD) exceeds advisory limit

ND - Not detected at the Reporting Limit (RL)

U - Not detected



QA/QC Summary Report

Prepared by Casper, WY Branch

Work Order: B25061882

Report Date: 07/11/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-7691
Lab ID: LCS-228-RA226-11723	3	Laboratory Control Sample				Run: TENNELEC-4_250630A				07/03/25 12:32
Radium 228		10	pCi/L	112		70	130			
Radium 228 precision (±)		2.7	pCi/L							
Radium 228 MDC		1.1	pCi/L							
Lab ID: MB-RA226-11723	3	Method Blank				Run: TENNELEC-4_250630A				07/03/25 12:32
Radium 228		0.4	pCi/L							U
Radium 228 precision (±)		0.6	pCi/L							
Radium 228 MDC		1	pCi/L							
Lab ID: B25061882-001HDUP	3	Sample Duplicate				Run: TENNELEC-4_250630A				07/03/25 12:32
Radium 228		0.31	pCi/L					81	30	UR
Radium 228 precision (±)		0.64	pCi/L							
Radium 228 MDC		1.0	pCi/L							

- Duplicate RPD is outside of the acceptance range for this analysis. However, the RER is less than or equal to the limit of 3. The RER result is 0.43.

Qualifiers:

RL - Analyte Reporting Limit

R - Relative Percent Difference (RPD) exceeds advisory limit

ND - Not detected at the Reporting Limit (RL)

U - Not detected



Work Order Receipt Checklist

Linkan Engineering

B25061882

Login completed by: Crystal M. Jones

Date Received: 6/20/2025

Reviewed by: cindy

Received by: NLA

Reviewed Date: 6/21/2025

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:	4.6°C Blue 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

B25061882

pH < 2. CMJ 06/20/25

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



Trust our People. Trust our Data.

Chain of Custody & Analytical Request Record

www.energylab.com

Page 1 of 1

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 H17287
25-0152	193742

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.bilin@linkan.com alex.schwiebert@linkan.com peter.hays@state.co.us

Project Information

Project Name, PWSID, Permit, etc.	Schwartzwalder Mine
Sampler Name	Bryant Arado
Sample Origin State	Colorado
EPA/State Compliance	☒ Yes ☐ No
URANIUM MINING CLIENTS MUST indicate sample type	
☐ Unprocessed Ore	
☐ Processed Ore (Ground or Refined) **CALL BEFORE SENDING	
☐ 11(e) 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
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Analysis Requested

Hexavalent Chromium	Metals, Dissolved	Metals, Total Recoverable	Metals, Potentially Dissolved	Cyanide, WAD	Sulfide, Methylene Blue Colorimetric	Radium 226, Dissolved	Radium 226 + Radium 228	See Attached
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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

RUSH TAT	ELI LAB ID Laboratory Use Only
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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 Colorimetric	Radium 226, Dissolved	Radium 226 + Radium 228	See Attached	RUSH TAT	ELI LAB ID Laboratory Use Only
1 Outfall 001A	6/19/25	1440	8	W											B25061882
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) 13 August 2025	Date/Time 6/19/25/1500	Signature	Received by (print) [Signature]	Date/Time	Signature					
Shipped By	Cooler ID(s)	Custody Seals Y N C B	Intact Y N	Receipt Temp °C	Temp Blank Y N	On Ice Y N	CC	Cash	Check	Amount \$	Receipt Number (cash/check only)

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.



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

BOTTLE ORDER 193742



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#: 193742

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

Extra Weekly Supplies

1 Liter Plastic Wide Mouth	2	A2540 D	Solids, Total Suspended		Fill to the neck of the container.	1
500 mL Plastic	1	E410.4	Chemical Oxygen Demand		H2SO4	1

Comments

 HNO3 - Nitric Acid  ZnAc - Zinc Acetate	 H2SO4 - Sulfuric Acid  HCl - Hydrochloric Acid	 NaOH - Sodium Hydroxide ☐ H3PO4 - Phosphoric Acid	We strongly suggest that the samples are shipped the same day as they are collected.
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#: 193742

2 of 2



B25061882_Schwartzwalder Mine

1 message

Stacie M. Helms <SHelms@energylab.com>

Mon, Jul 14, 2025 at 11:28 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 needs. Attached you will find the completed report for samples received and processed by Energy Laboratories. No hard copy of the report will be mailed, unless it was requested. Please contact one of our project managers by email at billingspm@energylab.com or by calling 406-252-6325 for questions regarding the attached results. Your invoice will be sent separately.

Please rate your experience or report an issue by clicking [HERE](#) or scanning this QR code below.



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

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2 attachments



B25061882-EDD-ELICSV-WITH-HEADER-1.CSV

9K



B25061882-FINAL REPORT-1.PDF

2202K