



B25060950_Schwartzwalder Mine

1 message

Laura M. Barlage <LBarlage@energylab.com>

Mon, Jun 30, 2025 at 2:29 PM

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>

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Please do not reply to this email.

Sincerely,

Energy Laboratories, Inc.

Trust our People. Trust our Data.

[Laura Barlage | Administrative Assistant | Billings, MT](#)

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2 attachments

 **B25060950-EDD-ELICSV-WITH-HEADER-1.CSV**
9K

 **B25060950-FINAL REPORT-1.PDF**
1823K



ANALYTICAL SUMMARY REPORT

June 30, 2025

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

Work Order: B25060950 Quote ID: B17287

Project Name: Schwartzwalder Mine

Energy Laboratories Inc Billings MT received the following 1 sample for Linkan Engineering on 6/11/2025 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B25060950-001	Outfall 001A	06/10/25 14:50	06/11/25	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: B25060950

Report Date: 06/30/25

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: B25060950-001
Client Sample ID: Outfall 001A

Report Date: 06/30/25
Collection Date: 06/10/25 14:50
Date Received: 06/11/25
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
INORGANICS							
Chloride	0.5	mg/L	J	1		E300.0	06/12/25 04:45 / caa
Sulfate	4	mg/L		1		E300.0	06/12/25 04:45 / caa
Fluoride	ND	mg/L		0.1		E300.0	06/12/25 04:45 / caa
Cyanide, Weak Acid Dissociable	ND	ug/L		1		Kelada-01	06/11/25 14:54 / fap
Sulfide	ND	mg/L		0.04		A4500-S D	06/13/25 12:24 / pmw
METALS, DISSOLVED							
Chromium, Hexavalent	ND	ug/L		10		A3500-Cr B	06/11/25 12:44 / aem
Iron	10	ug/L	J	20		E200.8	06/14/25 13:01 / jks
Manganese	0.4	ug/L	J	1		E200.8	06/14/25 13:01 / jks
METALS, POTENTIALLY DISSOLVED							
Cadmium	ND	ug/L		1		E200.8	06/14/25 13:05 / jks
Copper	0.1	ug/L	JL	0.5		E200.8	06/14/25 13:05 / jks
Nickel	0.1	ug/L	J	5		E200.8	06/14/25 13:05 / jks
Selenium	ND	ug/L		1		E200.8	06/14/25 13:05 / jks
Silver	ND	ug/L	L	0.04		E200.8	06/14/25 13:05 / jks
Zinc	ND	ug/L		10		E200.8	06/14/25 13:05 / jks
METALS, TOTAL RECOVERABLE							
Arsenic	208	ug/L		1		E200.8	06/18/25 00:26 / jks
Chromium	ND	ug/L		5		E200.8	06/18/25 00:26 / jks
Chromium, Trivalent	ND	ug/L		10		Calculation	06/19/25 09:23 / bap
Iron	20	ug/L	J	20		E200.8	06/18/25 00:26 / jks
Uranium	6.9	ug/L		0.3		E200.8	06/18/25 00:26 / jks
METALS, TOTAL							
Antimony	ND	ug/L		1		E200.8	06/18/25 00:26 / jks
Boron	180	ug/L		50		E200.7	06/17/25 18:05 / enb
Mercury	ND	ug/L		0.1		E245.1	06/18/25 13:44 / mjb
Thallium	ND	ug/L		0.5		E200.8	06/19/25 02:57 / jks
RADIONUCLIDES - DISSOLVED							
Radium 226	0.05	pCi/L	U			E903.0	06/23/25 10:05 / eli-ca
Radium 226 precision (±)	0.1	pCi/L				E903.0	06/23/25 10:05 / eli-ca
Radium 226 MDC	0.2	pCi/L				E903.0	06/23/25 10:05 / eli-ca
RADIONUCLIDES - TOTAL							
Radium 226	0.01	pCi/L	U			E903.0	06/23/25 10:22 / eli-ca
Radium 226 precision (±)	0.1	pCi/L				E903.0	06/23/25 10:22 / eli-ca
Radium 226 MDC	0.2	pCi/L				E903.0	06/23/25 10:22 / eli-ca
Radium 228	0.3	pCi/L	U			RA-05	06/18/25 13:10 / eli-ca
Radium 228 precision (±)	0.7	pCi/L				RA-05	06/18/25 13:10 / eli-ca
Radium 228 MDC	1.2	pCi/L				RA-05	06/18/25 13:10 / eli-ca
Radium 226 + Radium 228	0.7	pCi/L	U			A7500-RA	06/24/25 12:03 / 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: B25060950-001
Client Sample ID: Outfall 001A

Report Date: 06/30/25
Collection Date: 06/10/25 14:50
Date Received: 06/11/25
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Radium 226 + Radium 228 precision ($\pm$)	0.7	pCi/L				A7500-RA	06/24/25 12:03 / eli-ca
Radium 226 + Radium 228 MDC	1.2	pCi/L				A7500-RA	06/24/25 12:03 / 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: B25060950

Report Date: 06/19/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3500-Cr B										Analytical Run: SPEC3_250611B
Lab ID: CCV										06/11/25 12:44
Continuing Calibration Verification Standard										
Chromium, Hexavalent		0.105	mg/L	0.010	105	90	110			
Method: A3500-Cr B										Batch: R443937
Lab ID: MBLK										06/11/25 12:44
Method Blank										Run: SPEC3_250611B
Chromium, Hexavalent		ND	mg/L	0.003						
Lab ID: LCS										06/11/25 12:44
Laboratory Control Sample										Run: SPEC3_250611B
Chromium, Hexavalent		0.107	mg/L	0.010	107	90	110			
Lab ID: B25060950-001AMS										06/11/25 12:44
Sample Matrix Spike										Run: SPEC3_250611B
Chromium, Hexavalent		0.106	mg/L	0.010	106	80	120			
Lab ID: B25060950-001AMSD										06/11/25 12:44
Sample Matrix Spike Duplicate										Run: SPEC3_250611B
Chromium, Hexavalent		0.105	mg/L	0.010	105	80	120	0.7	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: B25060950

Report Date: 06/19/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-S D										Batch: R444083
Lab ID: MBLK		Method Blank					Run: SPEC3_250613A			06/13/25 12:24
Sulfide		ND	mg/L	0.01						
Lab ID: LCS		Laboratory Control Sample					Run: SPEC3_250613A			06/13/25 12:24
Sulfide		0.181	mg/L	0.040	93	85	115			
Lab ID: B25060950-001FMS		Sample Matrix Spike					Run: SPEC3_250613A			06/13/25 12:24
Sulfide		0.190	mg/L	0.040	97	70	130			
Lab ID: B25060950-001FMSD		Sample Matrix Spike Duplicate					Run: SPEC3_250613A			06/13/25 12:24
Sulfide		0.197	mg/L	0.040	101	70	130	4.0	20	
Lab ID: B25060950-001FMS		Sample Matrix Spike					Run: SPEC3_250613A			06/13/25 12:24
Sulfide		0.374	mg/L	0.040	96	70	130			
Lab ID: B25060950-001FMSD		Sample Matrix Spike Duplicate					Run: SPEC3_250613A			06/13/25 12:24
Sulfide		0.398	mg/L	0.040	102	70	130	6.3	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: B25060950

Report Date: 06/19/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0						Analytical Run: IC METROHM 1_250609A				
Lab ID: ICV	3	Initial Calibration Verification Standard								06/09/25 12:27
Chloride		25.3	mg/L	1.0	101	90	110			
Sulfate		102	mg/L	1.0	102	90	110			
Fluoride		1.22	mg/L	0.10	97	90	110			
Lab ID: CCV	3	Continuing Calibration Verification Standard								06/12/25 02:50
Chloride		25.3	mg/L	1.0	101	90	110			
Sulfate		102	mg/L	1.0	102	90	110			
Fluoride		1.21	mg/L	0.10	97	90	110			
Method: E300.0						Batch: R443847				
Lab ID: ICB	3	Method Blank								Run: IC METROHM 1_250609A 06/09/25 12:44
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_250609A 06/09/25 13:00
Chloride		25.4	mg/L	1.0	102	90	110			
Sulfate		103	mg/L	1.1	103	90	110			
Fluoride		1.30	mg/L	0.10	104	90	110			
Lab ID: B25060921-001AMS	3	Sample Matrix Spike								Run: IC METROHM 1_250609A 06/12/25 03:23
Chloride		155	mg/L	1.3	103	90	110			
Sulfate		556	mg/L	5.3	105	90	110			
Fluoride		10.9	mg/L	0.10	105	90	110			
Lab ID: B25060921-001AMSD	3	Sample Matrix Spike Duplicate								Run: IC METROHM 1_250609A 06/12/25 03:39
Chloride		157	mg/L	1.3	104	90	110	1.1	20	
Sulfate		560	mg/L	5.3	106	90	110	0.8	20	
Fluoride		11.0	mg/L	0.10	107	90	110	1.1	20	

Qualifiers:

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ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25060950

Report Date: 06/19/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: Kelada-01								Analytical Run: SFA-202-B_250611A		
Lab ID: ICV	Initial Calibration Verification Standard							06/11/25 13:32		
Cyanide, Weak Acid Dissociable		0.00922	mg/L	0.0010	92	90	110			
Continuing Calibration Verification Standard								06/11/25 14:34		
Lab ID: CCV		0.0101	mg/L	0.0010	101	90	110			
Cyanide, Weak Acid Dissociable										
Method: Kelada-01								Batch: R443958		
Lab ID: ICB	Method Blank					Run: SFA-202-B_250611A			06/11/25 13:34	
Cyanide, Weak Acid Dissociable		ND	mg/L	0.0007						
Laboratory Control Sample								06/11/25 14:28		
Lab ID: LCS1-ZnCN		0.00991	mg/L	0.0010	99	90	110			
Cyanide, Weak Acid Dissociable										
Sample Matrix Spike								06/11/25 14:46		
Lab ID: B25060858-005DMS		0.0105	mg/L	0.0010	105	80	120			
Cyanide, Weak Acid Dissociable										
Sample Matrix Spike Duplicate								06/11/25 14:50		
Lab ID: B25060858-005DMSD		0.00982	mg/L	0.0010	98	80	120	6.8	10	
Cyanide, Weak Acid Dissociable										
Laboratory Fortified Blank								06/11/25 15:00		
Lab ID: LFB		0.00954	mg/L	0.0010	95	90	110			
Cyanide, Weak Acid Dissociable										

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25060950

Report Date: 06/19/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E200.7							Analytical Run: ICP205-B_250617A		
Lab ID:	ICV	Continuing Calibration Verification Standard							06/17/25 13:16	
Boron		2.58	mg/L	0.10	103	95	105			
Lab ID:	CCV	Continuing Calibration Verification Standard							06/17/25 17:56	
Boron		2.54	mg/L	0.10	102	90	110			
Method:	E200.7							Batch: 200603		
Lab ID:	MB-200603	Method Blank			Run: ICP205-B_250617A			06/17/25 18:02		
Boron		ND	mg/L	0.008						
Lab ID:	LCS3-200603	Laboratory Control Sample			Run: ICP205-B_250617A			06/17/25 18:03		
Boron		1.07	mg/L	0.10	107	85	115			
Lab ID:	B25060955-006CMS3	Sample Matrix Spike			Run: ICP205-B_250617A			06/17/25 18:18		
Boron		1.11	mg/L	0.050	106	70	130			
Lab ID:	B25060955-006CMSD3	Sample Matrix Spike Duplicate			Run: ICP205-B_250617A			06/17/25 18:19		
Boron		1.11	mg/L	0.050	106	70	130	0.2	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: B25060950

Report Date: 06/19/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8						Analytical Run: ICPMS207-B_250613A				
Lab ID: QCS	2	Initial Calibration Verification Standard								06/14/25 11:48
Iron		0.198	mg/L	0.020	99	90	110			
Manganese		0.200	mg/L	0.0050	100	90	110			
Lab ID: CCV	2	Continuing Calibration Verification Standard								06/14/25 11:54
Iron		1.22	mg/L	0.020	94	90	110			
Manganese		0.0488	mg/L	0.0050	98	90	110			
Method: E200.8						Batch: R444116				
Lab ID: LRB	2	Method Blank								Run: ICPMS207-B_250613A 06/13/25 11:56
Iron		ND	mg/L	0.001						
Manganese		ND	mg/L	0.00003						
Lab ID: LFB	2	Laboratory Fortified Blank								Run: ICPMS207-B_250613A 06/13/25 12:14
Iron		5.04	mg/L	0.020	101	85	115			
Manganese		0.0474	mg/L	0.0050	95	85	115			
Lab ID: B25060977-001CMS	2	Sample Matrix Spike								Run: ICPMS207-B_250613A 06/14/25 13:31
Iron		4.81	mg/L	0.020	95	70	130			
Manganese		0.246	mg/L	0.0010	93	70	130			
Lab ID: B25060977-001CMSD	2	Sample Matrix Spike Duplicate								Run: ICPMS207-B_250613A 06/14/25 13:38
Iron		4.70	mg/L	0.020	93	70	130	2.2	20	
Manganese		0.243	mg/L	0.0010	87	70	130	1.2	20	
Method: E200.8						Analytical Run: ICPMS207-B_250618A				
Lab ID: QCS		Initial Calibration Verification Standard								06/19/25 00:56
Thallium		0.0415	mg/L	0.0050	104	90	110			
Lab ID: CCV		Continuing Calibration Verification Standard								06/19/25 02:20
Thallium		0.0493	mg/L	0.0050	99	90	110			
Method: E200.8						Batch: 200603				
Lab ID: MB-200603		Method Blank								Run: ICPMS207-B_250618A 06/19/25 02:51
Thallium		ND	mg/L	0.0002						

Qualifiers:

RL - Analyte Reporting Limit

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QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25060950

Report Date: 06/19/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8						Analytical Run: ICPMS208-B_250616A				
Lab ID: QCS	5	Initial Calibration Verification Standard							06/17/25 20:54	
Antimony		0.0411	mg/L	0.0050	103	90	110			
Arsenic		0.0385	mg/L	0.0050	96	90	110			
Chromium		0.0382	mg/L	0.010	95	90	110			
Iron		0.200	mg/L	0.020	100	90	110			
Uranium		0.0393	mg/L	0.00030	98	90	110			
Lab ID: CCV	5	Continuing Calibration Verification Standard							06/17/25 23:11	
Antimony		0.0485	mg/L	0.0050	97	90	110			
Arsenic		0.0472	mg/L	0.0050	94	90	110			
Chromium		0.0464	mg/L	0.010	93	90	110			
Iron		1.25	mg/L	0.020	96	90	110			
Uranium		0.0488	mg/L	0.00030	98	90	110			
Method: E200.8						Batch: 200603				
Lab ID: MB-200603	6	Method Blank				Run: ICPMS208-B_250616A			06/18/25 00:07	
Antimony		ND	mg/L	0.0004						
Arsenic		ND	mg/L	0.0002						
Chromium		ND	mg/L	0.0005						
Iron		0.007	mg/L	0.006						
Thallium		ND	mg/L	0.0003						
Uranium		ND	mg/L	0.00003						
Lab ID: LCS4-200603	6	Laboratory Control Sample				Run: ICPMS208-B_250616A			06/18/25 00:13	
Antimony		0.100	mg/L	0.0050	100	85	115			
Arsenic		0.0930	mg/L	0.0010	93	85	115			
Chromium		0.0910	mg/L	0.0010	91	85	115			
Iron		0.499	mg/L	0.010	100	85	115			
Thallium		0.109	mg/L	0.0010	109	85	115			
Uranium		0.0948	mg/L	0.00030	95	85	115			
Lab ID: B25060955-008CMS4	6	Sample Matrix Spike				Run: ICPMS208-B_250616A			06/18/25 01:40	
Antimony		0.101	mg/L	0.0010	101	70	130			
Arsenic		0.0989	mg/L	0.0010	96	70	130			
Chromium		0.0950	mg/L	0.0050	94	70	130			
Iron		0.605	mg/L	0.020	103	70	130			
Thallium		0.112	mg/L	0.00050	112	70	130			
Uranium		0.103	mg/L	0.00030	101	70	130			
Lab ID: B25060955-008CMSD4	6	Sample Matrix Spike Duplicate				Run: ICPMS208-B_250616A			06/18/25 01:46	
Antimony		0.100	mg/L	0.0010	100	70	130	1.2	20	
Arsenic		0.0992	mg/L	0.0010	96	70	130	0.3	20	
Chromium		0.0942	mg/L	0.0050	93	70	130	0.8	20	
Iron		0.608	mg/L	0.020	104	70	130	0.5	20	
Thallium		0.115	mg/L	0.00050	115	70	130	2.4	20	
Uranium		0.104	mg/L	0.00030	102	70	130	0.7	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: B25060950

Report Date: 06/19/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8						Analytical Run: ICPMS209-B_250613A				
Lab ID: QCS	6	Initial Calibration Verification Standard							06/14/25 07:07	
Cadmium		0.0202	mg/L	0.0010	101	90	110			
Copper		0.0378	mg/L	0.010	94	90	110			
Nickel		0.0380	mg/L	0.0050	95	90	110			
Selenium		0.0392	mg/L	0.0050	98	90	110			
Silver		0.0202	mg/L	0.0050	101	90	110			
Zinc		0.0384	mg/L	0.0050	96	90	110			
Lab ID: CCV	6	Continuing Calibration Verification Standard							06/14/25 12:20	
Cadmium		0.0484	mg/L	0.0010	97	90	110			
Copper		0.0461	mg/L	0.010	92	90	110			
Nickel		0.0467	mg/L	0.0050	93	90	110			
Selenium		0.0476	mg/L	0.0050	95	90	110			
Silver		0.0195	mg/L	0.0050	98	90	110			
Zinc		0.0462	mg/L	0.0050	92	90	110			
Method: E200.8						Batch: R444130				
Lab ID: LRB	6	Method Blank							Run: ICPMS209-B_250613A 06/13/25 14:18	
Cadmium		ND	mg/L	9E-6						
Copper		ND	mg/L	0.00005						
Nickel		ND	mg/L	0.00006						
Selenium		ND	mg/L	0.00002						
Silver		ND	mg/L	3E-6						
Zinc		ND	mg/L	0.001						
Lab ID: LFB	6	Laboratory Fortified Blank							Run: ICPMS209-B_250613A 06/13/25 14:35	
Cadmium		0.0461	mg/L	0.0010	92	85	115			
Copper		0.0451	mg/L	0.010	90	85	115			
Nickel		0.0455	mg/L	0.0050	91	85	115			
Selenium		0.0454	mg/L	0.0050	91	85	115			
Silver		0.0188	mg/L	0.0050	94	85	115			
Zinc		0.0458	mg/L	0.0050	92	85	115			
Lab ID: B25052422-004BMS	6	Sample Matrix Spike							Run: ICPMS209-B_250613A 06/13/25 15:36	
Cadmium		0.232	mg/L	0.0010	93	70	130			
Copper		0.230	mg/L	0.0050	92	70	130			
Nickel		0.228	mg/L	0.0050	91	70	130			
Selenium		0.234	mg/L	0.0010	94	70	130			
Silver		0.0957	mg/L	0.0010	96	70	130			
Zinc		0.235	mg/L	0.010	89	70	130			
Lab ID: B25052422-004BMSSD	6	Sample Matrix Spike Duplicate							Run: ICPMS209-B_250613A 06/13/25 15:41	
Cadmium		0.235	mg/L	0.0010	94	70	130	1.1	20	
Copper		0.230	mg/L	0.0050	92	70	130	0.3	20	
Nickel		0.231	mg/L	0.0050	92	70	130	1.1	20	
Selenium		0.236	mg/L	0.0010	94	70	130	0.5	20	
Silver		0.0955	mg/L	0.0010	95	70	130	0.2	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: B25060950

Report Date: 06/19/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R444130
Lab ID: B25052422-004BMSD	6	Sample Matrix Spike Duplicate				Run: ICPMS209-B_250613A				06/13/25 15:41
Zinc		0.231	mg/L	0.010	88	70	130	1.4	20	
Lab ID: MB-200517										06/14/25 13:00
Cadmium		ND	mg/L	7E-6						
Copper		0.0003	mg/L	0.00005						
Nickel		ND	mg/L	0.00006						
Selenium		ND	mg/L	0.00002						
Silver		ND	mg/L	5E-6						
Zinc		ND	mg/L	0.001						

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25060950

Report Date: 06/19/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method:	E245.1								Analytical Run: HGCV205-B_250618A		
Lab ID:	ICV-200540	Initial Calibration Verification Standard							06/18/25 10:55		
Mercury		0.00205	mg/L	0.00010	103	90	110				
Lab ID:	CCV1	Continuing Calibration Verification Standard							06/18/25 11:00		
Mercury		0.00245	mg/L	0.00010	98	95	105				
Lab ID:	CCV	Continuing Calibration Verification Standard							06/18/25 13:41		
Mercury		0.00228	mg/L	0.00010	91	90	110				
Method:	E245.1								Batch: 200668		
Lab ID:	MB-200668	Method Blank			Run: HGCV205-B_250618A				06/18/25 13:29		
Mercury		ND	mg/L	0.00006							
Lab ID:	LCS-200668	Laboratory Control Sample			Run: HGCV205-B_250618A				06/18/25 13:31		
Mercury		0.00190	mg/L	0.00010	95	85	115				
Lab ID:	B25060859-002GMS	Sample Matrix Spike			Run: HGCV205-B_250618A				06/18/25 13:35		
Mercury		0.00191	mg/L	0.00010	95	70	130				
Lab ID:	B25060859-002GMSD	Sample Matrix Spike Duplicate			Run: HGCV205-B_250618A				06/18/25 13:37		
Mercury		0.00189	mg/L	0.00010	94	70	130	1.1	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: B25060950

Report Date: 06/30/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: RA226-11707	
Lab ID: LCS-RA226-11707	3	Laboratory Control Sample				Run: TENNELEC-4_250613D			06/23/25 10:05	
Radium 226		10	pCi/L		103	70	130			
Radium 226 precision (±)		1.7	pCi/L							
Radium 226 MDC		0.17	pCi/L							
Lab ID: MB-RA226-11707	3	Method Blank				Run: TENNELEC-4_250613D			06/23/25 10:05	
Radium 226		0.03	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Lab ID: C25060231-004EDUP	3	Sample Duplicate				Run: TENNELEC-4_250613D			06/23/25 10:05	
Radium 226		0.032	pCi/L					64	30	UR
Radium 226 precision (±)		0.099	pCi/L							
Radium 226 MDC		0.16	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 0.20.

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: B25060950

Report Date: 06/30/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-7673
Lab ID: LCS-228-RA228-7673	3	Laboratory Control Sample				Run: TENNELEC-4_250613B				06/18/25 13:10
Radium 228		9.2	pCi/L	99		70	130			
Radium 228 precision (±)		2.4	pCi/L							
Radium 228 MDC		0.90	pCi/L							
Lab ID: MB-228-RA228-7673	3	Method Blank				Run: TENNELEC-4_250613B				06/18/25 13:10
Radium 228		-0.4	pCi/L							U
Radium 228 precision (±)		0.5	pCi/L							
Radium 228 MDC		0.9	pCi/L							
Lab ID: B25060950-001HDUP	3	Sample Duplicate				Run: TENNELEC-4_250613B				06/18/25 13:10
Radium 228		0.40	pCi/L					36	30	UR
Radium 228 precision (±)		0.72	pCi/L							
Radium 228 MDC		1.2	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 0.12.

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

B25060950

Login completed by: Crystal M. Jones

Date Received: 6/11/2025

Reviewed by: ysmith

Received by: NLA

Reviewed Date: 6/12/2025

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:	8.6°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

B25060950

pH < 2.

The bottle order attached to the chain of custody indicates total suspended solids and chemical oxygen demand analyses. These are not needed per phone conversation with Chris Prosper on 06/12/25. CMJ 06/12/25

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
25-0152	H17287
	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.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
Sampler Phone	7/238/6669
Sample Origin	State of Colorado
EPA/State Compliance	☒ Yes ☐ No
URANIUM MINING CLIENTS MUST indicate sample type	
☐ Unprocessed Ore	
☐ Processed Ore (Ground or Refined) **CALL BEFORE SENDING	
☐ 1(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
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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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Matrix

Number of Containers	Matrix (See Codes Above)
8	W

Sample Identification

(Name, Location, Interval, etc.)	Collection Date	Time
1 Outfall 001A	6/10/25	1450

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

ELI LAB ID Laboratory Use Only

325060980

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)	Date/Time	Signature
	Relinquished by (print)	Date/Time	Signature
Shipped By	Cooler ID(s)	Custody Seals	Intact
	Y N C B	Y N	Y N
Receipt Temp °C	Receipt Temp °C	Temp Blank	On Ice
	Y N	Y N	Y N
Payment Type	Cash	Check	CC
	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.



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 193742



SHIPPED TO: Linkan Engineering

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	1
1 Gallon Plastic	1	E903.0	Radium 226, Dissolved		NaOH	1
1 Gallon Plastic	1	A7500-RA E903.0 RA-05	Radium 226 + Radium 228 Radium 226, Total Radium 228, Total		HNO3	1
					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