



ANALYTICAL SUMMARY REPORT

August 14, 2025

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

Work Order: B25071629 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
B25071629-001	Mine Pool	07/15/25 9:45	07/18/25	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity to pH 4.5 Cyanide, Weak Acid Dissociable Mercury, Dissolved Mercury, Total Oxygen, Dissolved Anions by Ion Chromatography Nitrogen, Nitrate + Nitrite Metals Digestion by E200.2 Mercury Digestion by E245.1 E365.1 Digestion, Total P Low Level Phosphorus, Orthophosphate as P Low level Phosphorus, Total Gross Alpha, Gross Beta, Total Radium 226 + Radium 228 Radium 226, Dissolved Radium 226, Total Radium 228, Total Solids, Total Dissolved Solids, Total Suspended

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: B25071629

Report Date: 08/14/25

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: B25071629-001
Client Sample ID: Mine Pool

Report Date: 08/14/25
Collection Date: 07/15/25 09:45
Date Received: 07/18/25
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Solids, Total Suspended TSS @ 105 C	31	mg/L		10		A2540 D	07/18/25 13:05 / pjw
Solids, Total Dissolved TDS @ 180 C	4220	mg/L		100		A2540 C	07/18/25 14:51 / etv
INORGANICS							
Alkalinity, Total as CaCO ₃	920	mg/L		4		A2320 B	07/23/25 11:21 / spb
Bicarbonate as CaCO ₃	920	mg/L		3		A2320 B	07/23/25 11:21 / spb
Carbonate as CaCO ₃	ND	mg/L		7		A2320 B	07/23/25 11:21 / spb
Chloride	69	mg/L		5		E300.0	07/19/25 13:17 / caa
Sulfate	2260	mg/L		20		E300.0	07/19/25 13:17 / caa
Fluoride	1.6	mg/L		0.2		E300.0	07/30/25 14:43 / caa
Hydroxide as CaCO ₃	ND	mg/L		10		A2320 B	07/23/25 11:21 / spb
Cyanide, Weak Acid Dissociable	ND	mg/L		0.005		Kelada-01	07/22/25 13:20 / fap
Oxygen, Dissolved	6.8	mg/L	H	0.1		A4500-O G	07/18/25 15:47 / mbs
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	0.08	mg/L		0.01		E353.2	07/22/25 13:07 / rs4
Phosphorus, Orthophosphate as P	0.021	mg/L	H	0.002		E365.1	07/18/25 16:46 / taz
Phosphorus, Total as P	0.082	mg/L		0.002		E365.1	07/30/25 11:20 / taz
METALS, DISSOLVED							
Aluminum	0.002	mg/L	J	0.03		E200.8	07/22/25 18:41 / aem
Antimony	0.0002	mg/L	J	0.001		E200.8	07/22/25 18:41 / aem
Arsenic	0.030	mg/L		0.001		E200.8	07/22/25 18:41 / aem
Boron	0.32	mg/L		0.05		E200.7	07/21/25 16:32 / enb
Calcium	370	mg/L		1		E200.7	07/21/25 16:32 / enb
Chromium	ND	mg/L		0.005		E200.8	07/22/25 18:41 / aem
Copper	ND	mg/L		0.005		E200.8	07/22/25 18:41 / aem
Iron	8.7	mg/L		0.2		E200.7	07/21/25 16:32 / enb
Lead	ND	mg/L		0.001		E200.8	07/22/25 18:41 / aem
Magnesium	326	mg/L		1		E200.7	07/21/25 16:32 / enb
Manganese	0.600	mg/L		0.001		E200.8	07/22/25 18:41 / aem
Mercury	ND	mg/L		0.0001		E245.1	07/21/25 16:32 / mjb
Molybdenum	1.41	mg/L		0.02		E200.7	07/21/25 16:32 / enb
Potassium	34	mg/L		2		E200.7	07/21/25 16:32 / enb
Silver	0.00001	mg/L	J	0.001		E200.8	07/22/25 18:41 / aem
Sodium	401	mg/L		1		E200.7	07/21/25 16:32 / enb
Thallium	ND	mg/L		0.0005		E200.8	07/22/25 18:41 / aem
Uranium	25.6	mg/L		0.5		E200.7	07/21/25 16:32 / enb
Zinc	0.007	mg/L	J	0.01		E200.8	07/22/25 18:41 / aem
METALS, TOTAL							
Aluminum	0.004	mg/L	J	0.03		E200.8	07/29/25 01:36 / jks
Antimony	0.00007	mg/L	J	0.001		E200.8	07/25/25 07:20 / aem
Arsenic	0.034	mg/L		0.001		E200.8	07/29/25 01:36 / jks

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
H - Analysis performed past the method holding time

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)



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Linkan Engineering
Project: Schwartzwalder Mine
Lab ID: B25071629-001
Client Sample ID: Mine Pool

Report Date: 08/14/25
Collection Date: 07/15/25 09:45
DateReceived: 07/18/25
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Boron	0.32	mg/L		0.05		E200.7	07/23/25 15:27 / jaw
Chromium	ND	mg/L		0.005		E200.8	07/26/25 09:02 / jks
Copper	ND	mg/L		0.005		E200.8	07/26/25 09:02 / jks
Iron	11.8	mg/L		0.2		E200.7	07/23/25 15:27 / jaw
Lead	ND	mg/L		0.001		E200.8	07/26/25 09:02 / jks
Manganese	0.610	mg/L		0.005		E200.8	07/26/25 09:02 / jks
Mercury	ND	mg/L		0.0001		E245.1	07/21/25 16:33 / mjb
Molybdenum	1.37	mg/L		0.02		E200.7	07/23/25 15:27 / jaw
Silver	ND	mg/L		0.001		E200.8	07/26/25 09:02 / jks
Thallium	ND	mg/L		0.0005		E200.8	07/25/25 07:20 / aem
Zinc	0.003	mg/L	J	0.01		E200.8	07/29/25 01:36 / jks
RADIONUCLIDES - DISSOLVED							
Radium 226	98.4	pCi/L				E903.0	08/04/25 18:55 / eli-ca
Radium 226 precision (±)	15.1	pCi/L				E903.0	08/04/25 18:55 / eli-ca
Radium 226 MDC	0.1	pCi/L				E903.0	08/04/25 18:55 / eli-ca
RADIONUCLIDES - TOTAL							
Gross Alpha	26100	pCi/L				E900.0	08/08/25 04:28 / eli-ca
Gross Alpha precision (±)	5640	pCi/L				E900.0	08/08/25 04:28 / eli-ca
Gross Alpha MDC	27.0	pCi/L				E900.0	08/08/25 04:28 / eli-ca
Gross Beta	6040	pCi/L				E900.0	08/08/25 04:28 / eli-ca
Gross Beta precision (±)	392	pCi/L				E900.0	08/08/25 04:28 / eli-ca
Gross Beta MDC	14.2	pCi/L				E900.0	08/08/25 04:28 / eli-ca
Radium 226	103	pCi/L				E903.0	08/11/25 10:34 / eli-ca
Radium 226 precision (±)	15.8	pCi/L				E903.0	08/11/25 10:34 / eli-ca
Radium 226 MDC	0.2	pCi/L				E903.0	08/11/25 10:34 / eli-ca
Radium 228	1.0	pCi/L				RA-05	08/06/25 12:50 / eli-ca
Radium 228 precision (±)	0.7	pCi/L				RA-05	08/06/25 12:50 / eli-ca
Radium 228 MDC	1	pCi/L				RA-05	08/06/25 12:50 / eli-ca
Radium 226 + Radium 228	104	pCi/L				A7500-RA	08/12/25 13:45 / eli-ca
Radium 226 + Radium 228 precision (±)	15.9	pCi/L				A7500-RA	08/12/25 13:45 / eli-ca
Radium 226 + Radium 228 MDC	1	pCi/L				A7500-RA	08/12/25 13:45 / 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)

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

QA/QC Summary Report

Prepared by Casper, WY Branch

Work Order: B25071629

Report Date: 08/12/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0										Batch: GrAB-3458
Lab ID: Th230-GrAB-3458	3	Laboratory Control Sample				Run: TENNELEC-4_250730E				08/07/25 03:24
Gross Alpha		81	pCi/L	81		70	130			
Gross Alpha precision (±)		18	pCi/L							
Gross Alpha MDC		1.4	pCi/L							
Lab ID: Sr90-GrAB-3458	3	Laboratory Control Sample				Run: TENNELEC-4_250730E				08/07/25 03:24
Gross Beta		180	pCi/L	96		70	130			
Gross Beta precision (±)		12	pCi/L							
Gross Beta MDC		2.4	pCi/L							
Lab ID: MB-GrAB-3458	6	Method Blank				Run: TENNELEC-4_250730E				08/07/25 03:24
Gross Alpha		5	pCi/L							
Gross Alpha precision (±)		2	pCi/L							
Gross Alpha MDC		2	pCi/L							
Gross Beta		-0.2	pCi/L							U
Gross Beta precision (±)		1	pCi/L							
Gross Beta MDC		2	pCi/L							
Lab ID: C25070727-006DMS	3	Sample Matrix Spike				Run: TENNELEC-4_250730E				08/07/25 03:24
Gross Alpha		240	pCi/L	86		70	130			
Gross Alpha precision (±)		52	pCi/L							
Gross Alpha MDC		2.6	pCi/L							
Lab ID: C25070727-006DMSD	3	Sample Matrix Spike Duplicate				Run: TENNELEC-4_250730E				08/07/25 03:24
Gross Alpha		210	pCi/L	57		70	130	13	30	S
Gross Alpha precision (±)		45	pCi/L							
Gross Alpha MDC		2.7	pCi/L							
- The RER result is 0.43.										
Lab ID: C25070727-007DMS1	3	Sample Matrix Spike				Run: TENNELEC-4_250730E				08/07/25 03:24
Gross Beta		210	pCi/L	97		70	130			
Gross Beta precision (±)		14	pCi/L							
Gross Beta MDC		2.3	pCi/L							
Lab ID: C25070727-007DMSD1	3	Sample Matrix Spike Duplicate				Run: TENNELEC-4_250730E				08/07/25 03:24
Gross Beta		210	pCi/L	99		70	130	1.6	30	
Gross Beta precision (±)		14	pCi/L							
Gross Beta MDC		2.3	pCi/L							
- The RER result is 0.17.										

Qualifiers:

RL - Analyte Reporting Limit
S - Spike recovery outside of advisory limits

ND - Not detected at the Reporting Limit (RL)
U - Not detected



QA/QC Summary Report

Prepared by Casper, WY Branch

Work Order: B25071629

Report Date: 08/12/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0								Batch: RA226-11759		
Lab ID: LCS-RA226-11759	3	Laboratory Control Sample				Run: TENNELEC-4_250724E		08/04/25 15:27		
Radium 226		10	pCi/L		100	70	130			
Radium 226 precision (±)		1.6	pCi/L							
Radium 226 MDC		0.17	pCi/L							
Lab ID: MB-RA226-11759	3	Method Blank				Run: TENNELEC-4_250724E		08/04/25 15:27		
Radium 226		-0.1	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Lab ID: C25070613-005DDUP	3	Sample Duplicate				Run: TENNELEC-4_250724E		08/04/25 15:27		
Radium 226		26	pCi/L					1.3	30	
Radium 226 precision (±)		4.0	pCi/L							
Radium 226 MDC		0.24	pCi/L							
- The RER result is 0.06.										
Method: E903.0								Batch: RA226-11770		
Lab ID: LCS-RA226-11770	3	Laboratory Control Sample				Run: TENNELEC-4_250730F		08/11/25 10:34		
Radium 226		10	pCi/L		105	70	130			
Radium 226 precision (±)		1.7	pCi/L							
Radium 226 MDC		0.16	pCi/L							
Lab ID: MB-RA226-11770	3	Method Blank				Run: TENNELEC-4_250730F		08/11/25 10:34		
Radium 226		0.07	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Lab ID: C25070838-001ADUP	3	Sample Duplicate				Run: TENNELEC-4_250730F		08/11/25 10:58		
Radium 226		0.035	pCi/L					210	30	UR
Radium 226 precision (±)		0.11	pCi/L							
Radium 226 MDC		0.18	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 0.22.										

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: B25071629

Report Date: 08/12/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: RA228-7729
Lab ID: LCS-228-RA226-11770	3	Laboratory Control Sample				Run: TENNELEC-4_250730D				08/06/25 12:50
Radium 228		8.3	pCi/L	91		70	130			
Radium 228 precision (±)		2.3	pCi/L							
Radium 228 MDC		1.0	pCi/L							
Lab ID: MB-RA226-11770	3	Method Blank				Run: TENNELEC-4_250730D				08/06/25 12:50
Radium 228		0.8	pCi/L							U
Radium 228 precision (±)		0.7	pCi/L							
Radium 228 MDC		1	pCi/L							
Lab ID: C25070838-001ADUP	3	Sample Duplicate				Run: TENNELEC-4_250730D				08/06/25 12:50
Radium 228		0.56	pCi/L					400	30	UR
Radium 228 precision (±)		0.61	pCi/L							
Radium 228 MDC		0.97	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 0.92.

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 Billings, MT Branch

Work Order: B25071629

Report Date: 07/28/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: ALK250723
Lab ID: MBLK		Method Blank						Run: ORIONVERSASTARPRO_250		07/23/25 10:37
Alkalinity, Total as CaCO ₃		ND	mg/L	4						
Lab ID: LCS										Run: ORIONVERSASTARPRO_250 07/23/25 10:45
Alkalinity, Total as CaCO ₃		102	mg/L	4.0	102	90	110			
Lab ID: B25071643-001ADUP	7	Sample Duplicate						Run: ORIONVERSASTARPRO_250		07/23/25 12:24
Alkalinity, Total as CaCO ₃		25.0	mg/L	4.0				6.2	10	
Bicarbonate as HCO ₃		30.5	mg/L	4.0				6.2	10	
Carbonate as CO ₃		ND	mg/L	4.0					10	
Hydroxide as OH		ND	mg/L	4.0					10	
Bicarbonate as CaCO ₃		25.0	mg/L	3.3				6.2	10	
Carbonate as CaCO ₃		ND	mg/L	6.7					10	
Hydroxide as CaCO ₃		ND	mg/L	12						

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071629

Report Date: 07/28/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C										Batch: TDS20250718D
Lab ID: MBLK_20250718-6		Method Blank					Run: Bal #30_250718C			07/18/25 14:48
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	20						
Lab ID: LCS_20250718-5		Laboratory Control Sample					Run: Bal #30_250718C			07/18/25 14:49
Solids, Total Dissolved TDS @ 180 C		940	mg/L	25	94	90	110			
Lab ID: B25071649-001ADUP		Sample Duplicate					Run: Bal #30_250718C			07/18/25 14:52
Solids, Total Dissolved TDS @ 180 C		170	mg/L	25				1.1	10	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071629

Report Date: 07/28/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D								Batch: TSS20250718A		
Lab ID: MBLK_20250718-3	Method Blank					Run: BAL #30_250718F		07/18/25 11:09		
Solids, Total Suspended TSS @ 105 C		ND	mg/L	0.6						
Lab ID: LCS_20250718-2	Laboratory Control Sample					Run: BAL #30_250718F		07/18/25 11:09		
Solids, Total Suspended TSS @ 105 C		95.0	mg/L	25	95	80	120			
Lab ID: B25071606-004BDUP	Sample Duplicate					Run: BAL #30_250718F		07/18/25 11:10		
Solids, Total Suspended TSS @ 105 C		1.60	mg/L	10				10		J
TSS did not obtain the minimum residue requirement of 2.5 mg residue.										

Qualifiers:

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ND - Not detected at the Reporting Limit (RL)

J - Estimated value - analyte was present but less than the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071629

Report Date: 07/28/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-O G									Batch: R446079	
Lab ID: B25071629-001BDUP		Sample Duplicate			Run: DO_METER_250718A				07/18/25 15:49	
Oxygen, Dissolved		7.01	mg/L	0.10				2.6	30	H

Qualifiers:

RL - Analyte Reporting Limit
H - Analysis performed past the method holding time

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071629

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								07/19/25 10:49
Chloride		26.1	mg/L	1.0	104	90	110			
Sulfate		106	mg/L	1.0	106	90	110			
Fluoride		1.26	mg/L	0.10	101	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: B25071609-005AMS	3	Sample Matrix Spike								Run: IC METROHM 1_250717A 07/19/25 11:22
Chloride		51.1	mg/L	1.0	94	90	110			
Sulfate		139	mg/L	1.0	97	90	110			
Fluoride		1.48	mg/L	0.10	96	90	110			
Lab ID: B25071609-005AMSD	3	Sample Matrix Spike Duplicate								Run: IC METROHM 1_250717A 07/19/25 11:38
Chloride		51.8	mg/L	1.0	96	90	110	1.4	20	
Sulfate		141	mg/L	1.0	99	90	110	1.5	20	
Fluoride		1.51	mg/L	0.10	98	90	110	1.7	20	
Lab ID: B25071643-001AMS	3	Sample Matrix Spike								Run: IC METROHM 1_250717A 07/19/25 15:12
Chloride		24.3	mg/L	1.0	94	90	110			
Sulfate		92.5	mg/L	1.1	91	90	110			
Fluoride		1.26	mg/L	0.10	95	90	110			
Lab ID: B25071643-001AMSD	3	Sample Matrix Spike Duplicate								Run: IC METROHM 1_250717A 07/19/25 15:29
Chloride		22.2	mg/L	1.0	85	90	110	9.1	20	S
Sulfate		83.5	mg/L	1.1	82	90	110	10	20	S
Fluoride		1.04	mg/L	0.10	78	90	110	19	20	S

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

S - Spike recovery outside of advisory limits



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071629

Report Date: 07/28/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2 Analytical Run: FIA203-B_250722A										
Lab ID: ICV	Initial Calibration Verification Standard 07/22/25 12:30									
Nitrogen, Nitrate+Nitrite as N		0.547	mg/L	0.010	97	90	110			
Lab ID: CCV_20250722-1 Continuing Calibration Verification Standard 07/22/25 12:49										
Nitrogen, Nitrate+Nitrite as N		0.999	mg/L	0.010	100	90	110			
Method: E353.2 Batch: R446236										
Lab ID: FilterMBLK	Method Blank Run: FIA203-B_250722A 07/22/25 12:31									
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.009						
Lab ID: MBLK	Method Blank Run: FIA203-B_250722A 07/22/25 12:33									
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.009						
Lab ID: FilterLFB	Laboratory Fortified Blank Run: FIA203-B_250722A 07/22/25 12:34									
Nitrogen, Nitrate+Nitrite as N		0.984	mg/L	0.010	98	90	110			
Lab ID: LFB_20250722-1	Laboratory Fortified Blank Run: FIA203-B_250722A 07/22/25 12:35									
Nitrogen, Nitrate+Nitrite as N		0.920	mg/L	0.010	92	90	110			
Lab ID: B25071637-001BMS	Sample Matrix Spike Run: FIA203-B_250722A 07/22/25 13:14									
Nitrogen, Nitrate+Nitrite as N		22.8	mg/L	0.10	100	90	110			
Lab ID: B25071637-001BMSD	Sample Matrix Spike Duplicate Run: FIA203-B_250722A 07/22/25 13:15									
Nitrogen, Nitrate+Nitrite as N		22.5	mg/L	0.10	97	90	110	1.4	10	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071629

Report Date: 07/28/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E365.1								Analytical Run: FIA204-B_250718A		
Lab ID: ICV	Initial Calibration Verification Standard									
Phosphorus, Orthophosphate as P		0.254	mg/L	0.0050	102	90	110			07/18/25 14:34
Lab ID: CCV	Continuing Calibration Verification Standard									
Phosphorus, Orthophosphate as P		0.465	mg/L	0.0050	93	90	110			07/18/25 16:40
Method: E365.1								Batch: R446073		
Lab ID: ICB	Method Blank									
Phosphorus, Orthophosphate as P		ND	mg/L	0.001			Run: FIA204-B_250718A			07/18/25 14:36
Lab ID: LFB	Laboratory Fortified Blank									
Phosphorus, Orthophosphate as P		0.255	mg/L	0.0050	102	90	110			07/18/25 14:37
Lab ID: B25071629-001AMS	Sample Matrix Spike									
Phosphorus, Orthophosphate as P		0.238	mg/L	0.0020	88	90	110			07/18/25 14:42 S
Lab ID: B25071629-001AMSD	Sample Matrix Spike Duplicate									
Phosphorus, Orthophosphate as P		0.243	mg/L	0.0020	90	90	110	2.1	10	07/18/25 14:43
Lab ID: B25071629-001AMS	Sample Matrix Spike									
Phosphorus, Orthophosphate as P		0.237	mg/L	0.0020	87	90	110			07/18/25 16:45 S
Lab ID: B25071629-001AMSD	Sample Matrix Spike Duplicate									
Phosphorus, Orthophosphate as P		0.245	mg/L	0.0020	90	90	110	3.3	10	07/18/25 16:46

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

S - Spike recovery outside of advisory limits



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071629

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_250722A		
Lab ID: ICV	Initial Calibration Verification Standard								07/22/25 13:01	
Cyanide, Weak Acid Dissociable		0.0929	mg/L	0.0050	93	90	110			
Method: Kelada-01								Batch: R446224		
Lab ID: ICB	Method Blank					Run: SFA-202-B_250722A			07/22/25 13:02	
Cyanide, Weak Acid Dissociable		ND	mg/L	0.002						
Lab ID: LFB	Laboratory Fortified Blank					Run: SFA-202-B_250722A			07/22/25 13:04	
Cyanide, Weak Acid Dissociable		0.0981	mg/L	0.0050	98	90	110			
Lab ID: LCS1-ZnCN2	Laboratory Control Sample					Run: SFA-202-B_250722A			07/22/25 13:06	
Cyanide, Weak Acid Dissociable		0.0935	mg/L	0.0050	93	90	110			
Lab ID: B25071629-001GMS	Sample Matrix Spike					Run: SFA-202-B_250722A			07/22/25 13:24	
Cyanide, Weak Acid Dissociable		0.0980	mg/L	0.0050	98	80	120			
Lab ID: B25071629-001GMSD	Sample Matrix Spike Duplicate					Run: SFA-202-B_250722A			07/22/25 13:28	
Cyanide, Weak Acid Dissociable		0.100	mg/L	0.0050	100	80	120	2.0	10	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071629

Report Date: 08/01/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Analytical Run: ICP205-B_250721A
Lab ID: ICV	8	Continuing Calibration Verification Standard								07/21/25 15:11
Boron		2.55	mg/L	0.10	102	95	105			
Calcium		24.6	mg/L	1.0	98	95	105			
Iron		2.46	mg/L	0.040	98	95	105			
Magnesium		24.8	mg/L	1.0	99	95	105			
Molybdenum		2.56	mg/L	0.10	102	95	105			
Potassium		24.7	mg/L	1.0	99	95	105			
Sodium		24.9	mg/L	1.0	100	95	105			
Uranium		2.46	mg/L	0.10	99	95	105			
Lab ID: CCV	8	Continuing Calibration Verification Standard								07/21/25 16:28
Boron		2.51	mg/L	0.10	100	90	110			
Calcium		24.0	mg/L	1.0	96	90	110			
Iron		2.43	mg/L	0.040	97	90	110			
Magnesium		24.7	mg/L	1.0	99	90	110			
Molybdenum		2.54	mg/L	0.10	101	90	110			
Potassium		24.5	mg/L	1.0	98	90	110			
Sodium		24.7	mg/L	1.0	99	90	110			
Uranium		2.43	mg/L	0.10	97	90	110			
Method: E200.7										Batch: R446190
Lab ID: MB-5900DIS250718A	8	Method Blank							Run: ICP205-B_250721A	07/21/25 15:25
Boron		ND	mg/L	0.006						
Calcium		ND	mg/L	0.06						
Iron		0.02	mg/L	0.01						
Magnesium		ND	mg/L	0.05						
Molybdenum		ND	mg/L	0.003						
Potassium		ND	mg/L	0.1						
Sodium		ND	mg/L	0.05						
Uranium		ND	mg/L	0.04						
Lab ID: LFB-5900DIS250718A	8	Laboratory Fortified Blank							Run: ICP205-B_250721A	07/21/25 15:27
Boron		1.04	mg/L	0.10	104	85	115			
Calcium		50.1	mg/L	1.0	100	85	115			
Iron		5.04	mg/L	0.041	101	85	115			
Magnesium		51.7	mg/L	1.0	103	85	115			
Molybdenum		1.08	mg/L	0.10	108	85	115			
Potassium		51.6	mg/L	1.0	103	85	115			
Sodium		51.7	mg/L	1.0	103	85	115			
Uranium		1.04	mg/L	0.10	104	85	115			
Lab ID: B25071661-001BMS2	8	Sample Matrix Spike							Run: ICP205-B_250721A	07/21/25 16:36
Boron		1.17	mg/L	0.050	109	70	130			
Calcium		64.4	mg/L	1.0	104	70	130			
Iron		5.19	mg/L	0.041	103	70	130			
Magnesium		61.4	mg/L	1.0	103	70	130			
Molybdenum		1.08	mg/L	0.0052	108	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071629

Report Date: 08/01/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R446190
Lab ID: B25071661-001BMS2	8	Sample Matrix Spike				Run: ICP205-B_250721A				07/21/25 16:36
Potassium		70.2	mg/L	1.0	103	70	130			
Sodium		174	mg/L	1.0	99	70	130			
Uranium		1.01	mg/L	0.10	101	70	130			
Lab ID: B25071661-001BMDS2	8	Sample Matrix Spike Duplicate				Run: ICP205-B_250721A				07/21/25 16:37
Boron		1.21	mg/L	0.050	113	70	130	3.4	20	
Calcium		66.2	mg/L	1.0	107	70	130	2.7	20	
Iron		5.36	mg/L	0.041	106	70	130	3.2	20	
Magnesium		63.5	mg/L	1.0	108	70	130	3.3	20	
Molybdenum		1.11	mg/L	0.0052	111	70	130	2.3	20	
Potassium		72.3	mg/L	1.0	107	70	130	2.9	20	
Sodium		176	mg/L	1.0	102	70	130	1.1	20	
Uranium		1.05	mg/L	0.10	105	70	130	3.6	20	
Method: E200.7										Analytical Run: ICP205-B_250723A
Lab ID: ICV	3	Continuing Calibration Verification Standard								07/23/25 13:20
Boron		2.49	mg/L	0.10	100	95	105			
Iron		2.44	mg/L	0.040	98	95	105			
Molybdenum		2.51	mg/L	0.10	100	95	105			
Lab ID: CCV	3	Continuing Calibration Verification Standard								07/23/25 15:21
Boron		2.50	mg/L	0.10	100	90	110			
Iron		2.46	mg/L	0.040	98	90	110			
Molybdenum		2.51	mg/L	0.10	100	90	110			
Method: E200.7										Batch: 201686
Lab ID: MB-201686	3	Method Blank				Run: ICP205-B_250723A				07/23/25 15:16
Boron		ND	mg/L	0.008						
Iron		ND	mg/L	0.02						
Molybdenum		ND	mg/L	0.003						
Lab ID: LCS3-201686	3	Laboratory Control Sample				Run: ICP205-B_250723A				07/23/25 15:17
Boron		1.04	mg/L	0.050	104	85	115			
Iron		5.15	mg/L	0.040	103	85	115			
Molybdenum		1.05	mg/L	0.0050	105	85	115			
Lab ID: B25071614-001BMS3	3	Sample Matrix Spike				Run: ICP205-B_250723A				07/23/25 15:25
Boron		2.13	mg/L	0.10	106	70	130			
Iron		10.4	mg/L	0.40	104	70	130			
Molybdenum		2.13	mg/L	0.050	106	70	130			
Lab ID: B25071614-001BMDS3	3	Sample Matrix Spike Duplicate				Run: ICP205-B_250723A				07/23/25 15:26
Boron		2.14	mg/L	0.10	107	70	130	0.8	20	
Iron		10.5	mg/L	0.40	105	70	130	0.9	20	
Molybdenum		2.15	mg/L	0.050	108	70	130	1.1	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: B25071629

Report Date: 08/01/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8				Analytical Run: ICPMS207-B_250721A						
Lab ID: QCS	10 Initial Calibration Verification Standard									07/22/25 18:11
Aluminum		0.192	mg/L	0.020	96	90	110			
Antimony		0.0392	mg/L	0.0050	98	90	110			
Arsenic		0.0382	mg/L	0.0050	95	90	110			
Chromium		0.0375	mg/L	0.010	94	90	110			
Copper		0.0378	mg/L	0.010	95	90	110			
Lead		0.0367	mg/L	0.0010	92	90	110			
Manganese		0.191	mg/L	0.0050	96	90	110			
Silver		0.0188	mg/L	0.0050	94	90	110			
Thallium		0.0399	mg/L	0.0050	100	90	110			
Zinc		0.0378	mg/L	0.0050	95	90	110			
Lab ID: CCV	10 Continuing Calibration Verification Standard									07/22/25 18:17
Aluminum		0.0485	mg/L	0.020	97	90	110			
Antimony		0.0495	mg/L	0.0050	99	90	110			
Arsenic		0.0490	mg/L	0.0050	98	90	110			
Chromium		0.0483	mg/L	0.010	97	90	110			
Copper		0.0472	mg/L	0.010	94	90	110			
Lead		0.0485	mg/L	0.0010	97	90	110			
Manganese		0.0486	mg/L	0.0050	97	90	110			
Silver		0.0196	mg/L	0.0050	98	90	110			
Thallium		0.0470	mg/L	0.0050	94	90	110			
Zinc		0.0477	mg/L	0.0050	95	90	110			
Method: E200.8				Batch: R446131						
Lab ID: LRB	10 Method Blank									Run: ICPMS207-B_250721A 07/21/25 11:33
Aluminum		ND	mg/L	0.0006						
Antimony		ND	mg/L	0.00004						
Arsenic		ND	mg/L	0.00007						
Chromium		ND	mg/L	0.0001						
Copper		ND	mg/L	0.00005						
Lead		ND	mg/L	0.00003						
Manganese		ND	mg/L	0.00003						
Silver		ND	mg/L	3E-6						
Thallium		ND	mg/L	0.0002						
Zinc		ND	mg/L	0.001						
Lab ID: LFB	10 Laboratory Fortified Blank									Run: ICPMS207-B_250721A 07/21/25 11:57
Aluminum		0.0533	mg/L	0.020	107	85	115			
Antimony		0.0507	mg/L	0.0050	101	85	115			
Arsenic		0.0510	mg/L	0.0050	102	85	115			
Chromium		0.0503	mg/L	0.010	101	85	115			
Copper		0.0478	mg/L	0.010	96	85	115			
Lead		0.0513	mg/L	0.0010	103	85	115			
Manganese		0.0516	mg/L	0.0050	103	85	115			
Silver		0.0193	mg/L	0.0050	96	85	115			
Thallium		0.0523	mg/L	0.0050	105	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: B25071629

Report Date: 08/01/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R446131
Lab ID: LFB	10	Laboratory Fortified Blank			Run: ICPMS207-B_250721A			07/21/25 11:57		
Zinc		0.0502	mg/L	0.0050	100	85	115			
Lab ID: B25071646-001BMS	10	Sample Matrix Spike			Run: ICPMS207-B_250721A			07/22/25 18:58		
Aluminum		0.0508	mg/L	0.030	100	70	130			
Antimony		0.0498	mg/L	0.0010	100	70	130			
Arsenic		0.0552	mg/L	0.0010	99	70	130			
Chromium		0.0480	mg/L	0.0050	96	70	130			
Copper		0.0456	mg/L	0.0050	91	70	130			
Lead		0.0488	mg/L	0.0010	98	70	130			
Manganese		0.0496	mg/L	0.0010	97	70	130			
Silver		0.0190	mg/L	0.0010	95	70	130			
Thallium		0.0419	mg/L	0.00050	84	70	130			
Zinc		0.0473	mg/L	0.010	91	70	130			
Lab ID: B25071646-001BMSD	10	Sample Matrix Spike Duplicate			Run: ICPMS207-B_250721A			07/22/25 19:04		
Aluminum		0.0521	mg/L	0.030	103	70	130	2.5	20	
Antimony		0.0513	mg/L	0.0010	103	70	130	3.1	20	
Arsenic		0.0568	mg/L	0.0010	103	70	130	2.9	20	
Chromium		0.0492	mg/L	0.0050	98	70	130	2.4	20	
Copper		0.0472	mg/L	0.0050	94	70	130	3.5	20	
Lead		0.0493	mg/L	0.0010	99	70	130	0.9	20	
Manganese		0.0514	mg/L	0.0010	101	70	130	3.6	20	
Silver		0.0197	mg/L	0.0010	98	70	130	3.3	20	
Thallium		0.0440	mg/L	0.00050	88	70	130	4.9	20	
Zinc		0.0486	mg/L	0.010	94	70	130	2.7	20	

Qualifiers:

RL - Analyte Reporting Limit

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QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071629

Report Date: 08/01/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Analytical Run: ICPMS208-B_250725A		
Lab ID: QCS	5	Initial Calibration Verification Standard							07/26/25 03:42	
Chromium		0.0380	mg/L	0.010	95	90	110			
Copper		0.0373	mg/L	0.010	93	90	110			
Lead		0.0380	mg/L	0.0010	95	90	110			
Manganese		0.190	mg/L	0.0050	95	90	110			
Silver		0.0189	mg/L	0.0050	94	90	110			
Lab ID: CCV	5	Continuing Calibration Verification Standard							07/26/25 08:03	
Chromium		0.0471	mg/L	0.010	94	90	110			
Copper		0.0464	mg/L	0.010	93	90	110			
Lead		0.0487	mg/L	0.0010	97	90	110			
Manganese		0.0466	mg/L	0.0050	93	90	110			
Silver		0.0191	mg/L	0.0050	95	90	110			
Method: E200.8								Batch: 201686		
Lab ID: MB-201686	5	Method Blank							Run: ICPMS208-B_250725A	
Chromium		ND	mg/L	0.0005						07/26/25 08:26
Copper		ND	mg/L	0.00009						
Lead		ND	mg/L	0.00004						
Manganese		0.00009	mg/L	0.00009						
Silver		ND	mg/L	5E-6						

Qualifiers:

RL - Analyte Reporting Limit

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QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071629

Report Date: 08/01/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Analytical Run: ICPMS209-B_250723A		
Lab ID: QCS	2	Initial Calibration Verification Standard							07/25/25 02:32	
Antimony		0.0402	mg/L	0.0050	101	90	110			
Thallium		0.0367	mg/L	0.0050	92	90	110			
Lab ID: CCV	2	Continuing Calibration Verification Standard							07/25/25 06:53	
Antimony		0.0500	mg/L	0.0050	100	90	110			
Thallium		0.0464	mg/L	0.0050	93	90	110			
Method: E200.8								Batch: 201686		
Lab ID: MB-201686	10	Method Blank							Run: ICPMS209-B_250723A 07/25/25 03:10	
Aluminum		ND	mg/L	0.002						
Antimony		ND	mg/L	0.00002						
Arsenic		ND	mg/L	0.00003						
Chromium		ND	mg/L	0.0003						
Copper		ND	mg/L	0.0001						
Lead		ND	mg/L	0.00002						
Manganese		ND	mg/L	0.00007						
Silver		ND	mg/L	5E-6						
Thallium		ND	mg/L	0.00008						
Zinc		0.001	mg/L	0.001						
Lab ID: LCS4-201686	10	Laboratory Control Sample							Run: ICPMS209-B_250723A 07/25/25 03:15	
Aluminum		0.453	mg/L	0.010	91	85	115			
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			
Copper		0.0898	mg/L	0.0010	90	85	115			
Lead		0.0909	mg/L	0.0010	91	85	115			
Manganese		0.450	mg/L	0.0010	90	85	115			
Silver		0.00912	mg/L	0.0050	91	85	115			
Thallium		0.0947	mg/L	0.0010	95	85	115			
Zinc		0.0910	mg/L	0.0020	91	85	115			
Lab ID: B25071642-001DMS4	10	Sample Matrix Spike							Run: ICPMS209-B_250723A 07/25/25 07:36	
Aluminum		0.725	mg/L	0.030	103	70	130			
Antimony		0.103	mg/L	0.0010	103	70	130			
Arsenic		0.0967	mg/L	0.0010	91	70	130			
Chromium		0.0887	mg/L	0.0050	88	70	130			
Copper		0.0889	mg/L	0.0050	88	70	130			
Lead		0.0932	mg/L	0.0010	93	70	130			
Manganese		0.496	mg/L	0.0010	87	70	130			
Silver		0.00921	mg/L	0.0010	92	70	130			
Thallium		0.0968	mg/L	0.00050	97	70	130			
Zinc		0.0886	mg/L	0.010	86	70	130			
Lab ID: B25071642-001DMSD4	10	Sample Matrix Spike Duplicate							Run: ICPMS209-B_250723A 07/25/25 07:42	
Aluminum		0.674	mg/L	0.030	93	70	130	7.3	20	

Qualifiers:

RL - Analyte Reporting Limit

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QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071629

Report Date: 08/01/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 201686
Lab ID: B25071642-001DMSD4	10	Sample Matrix Spike Duplicate			Run: ICPMS209-B_250723A				07/25/25 07:42	
Antimony		0.0994	mg/L	0.0010	99	70	130	3.4	20	
Arsenic		0.0978	mg/L	0.0010	92	70	130	1.1	20	
Chromium		0.0895	mg/L	0.0050	89	70	130	0.9	20	
Copper		0.0899	mg/L	0.0050	89	70	130	1.1	20	
Lead		0.0908	mg/L	0.0010	91	70	130	2.6	20	
Manganese		0.501	mg/L	0.0010	88	70	130	1.1	20	
Silver		0.00895	mg/L	0.0010	89	70	130	2.8	20	
Thallium		0.0938	mg/L	0.00050	94	70	130	3.2	20	
Zinc		0.0896	mg/L	0.010	87	70	130	1.1	20	
Method: E200.8										Analytical Run: ICPMS209-B_250728A
Lab ID: QCS	3	Initial Calibration Verification Standard							07/29/25 00:14	
Aluminum		0.196	mg/L	0.020	98	90	110			
Arsenic		0.0382	mg/L	0.0050	96	90	110			
Zinc		0.0384	mg/L	0.0050	96	90	110			
Lab ID: CCV	3	Continuing Calibration Verification Standard							07/29/25 00:19	
Aluminum		0.0473	mg/L	0.020	95	90	110			
Arsenic		0.0498	mg/L	0.0050	99	90	110			
Zinc		0.0494	mg/L	0.0050	99	90	110			
Method: E200.8										Batch: 201686
Lab ID: MB-201686	3	Method Blank			Run: ICPMS209-B_250728A				07/29/25 01:30	
Aluminum		ND	mg/L	0.002						
Arsenic		ND	mg/L	0.00003						
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: B25071629

Report Date: 08/01/25

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 07/21/25 15:09								
Mercury		0.00211	mg/L	0.00010	106	90	110			
Lab ID: CCV1		Continuing Calibration Verification Standard 07/21/25 15:10								
Mercury		0.00253	mg/L	0.00010	101	95	105			
Lab ID: CCV		Continuing Calibration Verification Standard 07/21/25 16:20								
Mercury		0.00252	mg/L	0.00010	101	90	110			
Method: E245.1 Batch: 201655										
Lab ID: MB-201655		Method Blank Run: HGCV203-B_250721A 07/21/25 16:12								
Mercury		ND	mg/L	0.00006						
Lab ID: LCS-201655		Laboratory Control Sample Run: HGCV203-B_250721A 07/21/25 16:13								
Mercury		0.00212	mg/L	0.00010	106	85	115			
Lab ID: B25071652-003BMS		Sample Matrix Spike Run: HGCV203-B_250721A 07/21/25 16:45								
Mercury		0.00212	mg/L	0.00010	106	70	130			
Lab ID: B25071652-003BMDS		Sample Matrix Spike Duplicate Run: HGCV203-B_250721A 07/21/25 16:46								
Mercury		0.00210	mg/L	0.00010	105	70	130	0.8	30	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071629

Report Date: 08/01/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E365.1										
Analytical Run: SEAL201-B_250730A										
Lab ID: ICV-198785		Initial Calibration Verification Standard								07/30/25 11:09
Phosphorus, Total as P		0.457	mg/L	0.0050	91	90	110			
Method: E365.1										
Batch: 201855										
Lab ID: MB-201855		Method Blank								07/30/25 11:12
Phosphorus, Total as P		ND	mg/L	0.002						
Run: SEAL201-B_250730A										
Lab ID: LCS-201855		Laboratory Control Sample								07/30/25 11:13
Phosphorus, Total as P		0.213	mg/L	0.0020	106	90	110			
Run: SEAL201-B_250730A										
Lab ID: B25071606-002FMS		Sample Matrix Spike								07/30/25 11:16
Phosphorus, Total as P		0.170	mg/L	0.0020	85	90	110			S
Run: SEAL201-B_250730A										
Lab ID: B25071606-002FMSD		Sample Matrix Spike Duplicate								07/30/25 11:17
Phosphorus, Total as P		0.167	mg/L	0.0020	84	90	110	2.0	10	S

Qualifiers:

RL - Analyte Reporting Limit

S - Spike recovery outside of advisory limits

ND - Not detected at the Reporting Limit (RL)



Work Order Receipt Checklist

Linkan Engineering

B25071629

Login completed by: Laura M. Barlage

Date Received: 7/18/2025

Reviewed by: dharris

Received by: ET

Reviewed Date: 7/23/2025

Carrier name: 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:	14.9°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 orthophosphate was received past the 48 hour holding time. Proceed past hold per email from Adam Billin. LSC 08/08/25

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 ☐ Receive Report ☐ Hard Copy ☐ Email ☐	
Purchase Order	Quote
25-0152	H17287
Bottle Order	
193747	

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/Formats:	
☐ LEVEL IV ☐ NELAC ☐ EDD/EDT (contact laboratory) ☐ Other	

Comments

Quarterly Sampling - Mine Pool

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 Acevedo
Sampler Phone	7/238/6169
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)2 Byproduct Material (Can ONLY be Submitted to ELI Casper Location)	

Matrix Codes

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

Analysis Requested

- Metals, Dissolved
- Total Suspended Solids
- Anions (E300.0)
- Low Level Phosphorus
- Metals Total
- Nitrogen, Nitrate + Nitrite
- Cyanide, WAD
- Gross Alpha, Gross Beta, Total
- Radium Radium 226 + 228

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		Number of Containers	Matrix (See Codes Above)	Analysis Requested										See	RUSH TAT	ELI LAB ID Laboratory Use Only
		Date	Time			Metals, Dissolved	Total Suspended Solids	Anions (E300.0)	Low Level Phosphorus	Metals	Metals	Nitrogen, Nitrate + Nitrite	Cyanide, WAD	Gross Alpha, Gross Beta, Total	Radium Radium 226 + 228			
1	Mine Pool	7/15/25	0945	10	W												B25071629	
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)	Signature	Date/Time	Received by (print)	Signature	Date/Time			
	Bryant Acevedo	[Signature]	7/15/25 1530	Elly Thompson	[Signature]	7/16/25 0900			
Shipped By	Cooler ID(s)	Custody Seals	Intact	Receipt Temp °C	Temp Blank	On Ice	Payment Type	Amount \$	Receipt Number (cash/check only)
		Y N C B	Y N		Y N	Y N	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 193747

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 - Table 2B

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
------------------	------------------	--------	-------	--------------------	--------------	-------	-------------

Table 2B Quarterly (4 Sets)

120 mL Plastic	1	E365.1	Low Level Phosphorus, Orthophosphate as P	48.00 hrs		Filter Sample	1
1 Liter Plastic	1	A2320 B A4500-O G E300.0 A2540 C	Alkalinity to pH 4.5 Oxygen, Dissolved Anions by Ion Chromatography Solids, Total Dissolved	0.25 hrs			1
1 Liter Plastic Wide Mouth	1	A2540 D	Solids, Total Suspended			Fill to the neck of the container.	1
250 mL Plastic	1	E200.7_8 E245.1 E245.1	Metals by ICP/ICPMS, Dissolved Mercury, Dissolved Mercury Digestion by E245.1		HNO3	Filter before preservation	1
250 mL Plastic	1	E200.7_8 E245.1 E200.2 E245.1	Metals by ICP/ICPMS, Total Mercury, Total Metals Digestion by E200.2 Mercury Digestion by E245.1		HNO3		1

BO#: 193747

1 of 2

250 mL Plastic	1	E353.2 E365.1 E365.1	Nitrogen, Nitrate + Nitrite E365.1 Digestion, Total P Low level Phosphorus, Total			H2SO4	1
500 mL Amber Plastic	1	Kelada-01	Cyanide, Weak Acid Dissociable			NaOH	1
500 mL Plastic	1	E900.0	Gross Alpha, Gross Beta, Total			HNO3	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  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#: 193747

2 of 2



B25071629_Schwartzwalder Mine

1 message

Stacie M. Helms <SHelms@energylab.com>

Thu, Aug 14, 2025 at 9:31 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

 **B25071629-EDD-ELICSV-WITH-HEADER-1.CSV**
16K



B25071629-FINAL REPORT-1.PDF

2502K