



B25071629_Schwartzwalder Mine

Stacie M. Helms <SHelms@energylab.com>

Fri, Aug 1, 2025 at 12:01 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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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



B25071629-PRELIMINARY REPORT-B25071629-1.PDF
120K



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: 08/01/25
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)

PRELIMINARY



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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

**Report
Definitions:**

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