



B25061749_Schwartzwalder Mine

1 message

Stacie M. Helms <SHelms@energylab.com>

Mon, Jun 30, 2025 at 12:05 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,

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Stacie Helms | Administrative Assistant | Billings, MT

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B25061749-PRELIMINARY REPORT-B25061749-1.PDF

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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Linkan Engineering
Project: Schwartzwalder Mine
Lab ID: B25061749-001
Client Sample ID: SW-NWRP

Report Date: 06/30/25
Collection Date: 06/18/25 11:30
Date Received: 06/19/25
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Solids, Total Suspended TSS @ 105 C	11	mg/L		10		A2540 D	06/20/25 09:59 / pjw
Solids, Total Dissolved TDS @ 180 C	173	mg/L		20		A2540 C	06/19/25 16:13 / etv
INORGANICS							
Alkalinity, Total as CaCO ₃	58	mg/L		4		A2320 B	06/20/25 11:41 / spb
Bicarbonate as CaCO ₃	58	mg/L		3		A2320 B	06/20/25 11:41 / spb
Carbonate as CaCO ₃	ND	mg/L		7		A2320 B	06/20/25 11:41 / spb
Chloride	44	mg/L		1		E300.0	06/21/25 01:17 / caa
Sulfate	10	mg/L		1		E300.0	06/21/25 01:17 / caa
Fluoride	0.3	mg/L		0.1		E300.0	06/21/25 01:17 / caa
Hydroxide as CaCO ₃	ND	mg/L		10		A2320 B	06/20/25 11:41 / spb
Cyanide, Weak Acid Dissociable	ND	mg/L		0.005		Kelada-01	06/23/25 11:38 / fap
Oxygen, Dissolved	8.2	mg/L	H	0.1		A4500-O G	06/19/25 16:24 / mbs
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.01		E353.2	06/20/25 10:42 / rs4
Phosphorus, Orthophosphate as P	0.006	mg/L		0.002		E365.1	06/19/25 16:55 / taz
Phosphorus, Total as P	0.027	mg/L		0.002		E365.1	06/25/25 12:17 / taz
METALS, DISSOLVED							
Aluminum	0.002	mg/L	J	0.03		E200.8	06/21/25 14:51 / aem
Antimony	ND	mg/L		0.001		E200.8	06/21/25 14:51 / aem
Arsenic	ND	mg/L		0.001		E200.8	06/21/25 14:51 / aem
Boron	0.02	mg/L	J	0.05		E200.7	06/20/25 13:56 / enb
Calcium	25	mg/L		1		E200.7	06/20/25 13:56 / enb
Chromium	ND	mg/L		0.005		E200.8	06/21/25 14:51 / aem
Copper	0.0007	mg/L	J	0.005		E200.8	06/21/25 14:51 / aem
Iron	0.03	mg/L		0.02		E200.8	06/21/25 14:51 / aem
Lead	ND	mg/L		0.001		E200.8	06/21/25 14:51 / aem
Magnesium	7	mg/L		1		E200.7	06/20/25 13:56 / enb
Manganese	0.007	mg/L		0.001		E200.7	06/20/25 13:56 / enb
Mercury	ND	mg/L		0.0001		E245.1	06/24/25 10:53 / mjb
Molybdenum	0.0006	mg/L	J	0.001		E200.8	06/21/25 14:51 / aem
Potassium	1	mg/L		1		E200.7	06/20/25 13:56 / enb
Silver	ND	mg/L		0.001		E200.8	06/21/25 14:51 / aem
Sodium	16	mg/L		1		E200.7	06/20/25 13:56 / enb
Thallium	ND	mg/L		0.0005		E200.8	06/21/25 14:51 / aem
Uranium	0.0024	mg/L		0.0003		E200.8	06/21/25 14:51 / aem
Zinc	ND	mg/L		0.01		E200.7	06/20/25 13:56 / enb
METALS, TOTAL							
Aluminum	0.44	mg/L		0.03		E200.8	06/24/25 17:31 / aem
Antimony	0.00006	mg/L	J	0.001		E200.8	06/24/25 17:31 / aem
Arsenic	0.0001	mg/L	J	0.001		E200.8	06/24/25 17:31 / aem

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



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

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Project: Schwartzwalder Mine
Lab ID: B25061749-001
Client Sample ID: SW-NWRP

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Date Received: 06/19/25
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Boron	0.02	mg/L	J	0.05		E200.7	06/25/25 16:39 / enb
Chromium	0.0005	mg/L	J	0.005		E200.8	06/24/25 17:31 / aem
Copper	0.002	mg/L	J	0.005		E200.8	06/24/25 17:31 / aem
Iron	0.65	mg/L		0.01		E200.8	06/24/25 17:31 / aem
Lead	0.0005	mg/L	J	0.001		E200.8	06/24/25 17:31 / aem
Manganese	0.018	mg/L		0.001		E200.8	06/24/25 17:31 / aem
Mercury	ND	mg/L		0.0001		E245.1	06/24/25 10:55 / mjb
Molybdenum	0.0007	mg/L	J	0.001		E200.8	06/24/25 17:31 / aem
Silver	ND	mg/L		0.001		E200.8	06/24/25 17:31 / aem
Thallium	ND	mg/L		0.0005		E200.8	06/24/25 17:31 / aem
Zinc	0.004	mg/L	J	0.01		E200.8	06/24/25 17:31 / aem

**Report
Definitions:**

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