

<u>Climax Mine</u> Highway 91 - Fremont Pass Climax, CO 80429 Phone (719) 486-7718 Fax (719) 486-2251

October 10, 2022

Mr. Lucas West Environmental Protection Specialist Division of Reclamation, Mining and Safety Department of Natural Resources 1001 E 62<sup>nd</sup> Ave., Room 215 Denver, Colorado 80216

## RE: Climax Mine, Permit No. M-1977-493, Written Evaluation of August 5, 2022 Event and Related Corrective Action Plan

Dear Mr. West,

The purpose of this submittal is to provide details on the event that occurred at Climax on August 5, 2022 and the related corrective actions that Climax will implement to prevent potential future occurrences. This submittal is in response to the inspection conducted by DRMS at Climax on August 8, 2022 and subsequent request from DRMS for a written evaluation of the failure, steps being taken to mitigate potential future failures in the area, and to provide the full water quality results from the sample taken at the time of the event. In addition, this submittal also contains an evaluation of the secondary containment facilities related to the failure.

#### **Evaluation of the Failure**

The failure occurred in a pressurized pipeline system that conveys seepage collected from near the toe of Mayflower Tailings Storage Facility (TSF) (also known as 5 Dam), back to the Mayflower TSF operating pool. More specifically, the failure occurred in a coupler fitting on a section of pipeline that leads to a pigging station entry point. The coupler fitting that failed is a Mega-Coupling Series 3800 Restrained Coupling, manufactured by EBAA Iron, Inc. Climax has been unable to determine if the fitting failed due to service unsuitability or if it was defective. Climax has not experienced prior failures of other similar fittings of the same material and manufacturer.

Based on visual observations and estimated times, it was approximated that 1,800 gallons of seepage leaked from the failed fitting into the nearby drainage that eventually leads to Climax's CDPS Outfalls 002A and 001A, and the beginning of Tenmile Creek. Upon discovery of the leak at 11:45 am on August 5, 2022, Climax took immediate action and diverted the leak back into the adjacent Mayflower Clear Pond by 12:00 pm and had shut down the pressurized pipeline by 12:15 pm. Repairs were immediately implemented and completed by 6:30 pm the same day.

#### **Mitigation of Potential Future Failures**

Climax will undertake the following actions to prevent potential future failures:

- Confirm with the fitting manufacturer to determine if the failed fitting types are suitable for the intended service. If those fittings are determined not suitable for continued service, then Climax will identify and replace those fittings with a fitting suitable for the intended service.
- Climax will complete an engineering study this winter to evaluate options for secondary containment and additional storage/pumping capacity for the Mayflower Pump Station area.

Climax anticipates the final option that is chosen will require modification to or will require a new Environmental Protection Facility (EPF) and will submit a technical revision (TR) for the chosen option, as required.

#### Water Quality Sample Results

Two samples were collected at Climax CDPS Permit Outfall 001A during the event. The first sample was a grab sample collected at 12:45 pm on the day of the event and analyzed at the onsite analytical lab for pH (7.7 standard units [s.u.]) and total manganese ( $300 \mu g/l$ ).

The second sample was a fixed-laboratory grab sample collected at 12:50 pm at Outfall 001A (the compliance point on Tenmile Creek) on the day of the event and analyzed for Climax's CDPS Permit analytical suite. Those data were previously reported to DRMS on August 17, 2022, via e-mail (Diana Kelts to Dustin Czapla with DRMS). They are summarized below in Table 1 with comparison to applicable CDPS permit limits at Outfall 001A.

Analyte	Analytical Method	Units	08/05/2022 12:50 PM	CDPS Permit CO0000248 Limit*
Conductivity	Field	μmhos/cm	1203	
pН	Field	Standard units	7.6	6.5-9.0
Temperature	Field	°C	12.1	
Boron, Total	M200.8 ICP-MS	mg/l	0.0028	
Cadmium, PD	M200.8 ICP-MS	mg/l	0.000251	0.0012
Chromium, PD	M200.8 ICP-MS	mg/l	ND [0.0005]	
Iron, TR	M200.8 ICP-MS	mg/l	0.167	
Manganese, PD	M200.8 ICP-MS	mg/l	0.136	2.618
Molybdenum, TR	M200.8 ICP-MS	mg/l	0.0242	
Nickel, PD	M200.8 ICP-MS	mg/l	0.00125	
Selenium, PD	M200.8 ICP-MS	mg/l	0.00012	
Zinc, PD	M200.8 ICP-MS	mg/l	0.0456	
Sulfide as S	SM4500S2-D	mg/l	ND [0.02]	

#### Table 1. Outfall 001A Sample Analytical Results

#### Notes:

ND [0.02] - The constituent was analyzed for, but was not detected above the level of the associated value.

PD - potentially dissolved

TR – total recoverable

S - sulfur

°C – degrees Celsius

µmhos/cm – micromhos per centimeter mg/l – milligrams per liter

\* - Limits listed are most conservative (lowest) value of 30-Day Average or Daily Maximum, if available.

Full water quality results are contained in Attachment A to this submittal.

#### Secondary Containment Device Evaluation

Seepage from Mayflower TSF is intercepted and collected via a network of shallow drainage collection pipes along the TSF dam and abutments. This seepage is daylighted to the surface and routed to two lined seepage collection ponds (Mayflower Seepage Collection Ponds). The Mayflower Seepage Collection Ponds serve as initial seepage collection basins that then

route/convey water to the Mayflower Clear Pond (also lined) via gravity. The event that this submittal covers occurred adjacent to the Mayflower Clear Pond emergency spillway. The two Mayflower Seepage Collection Ponds and the Mayflower Clear Pond are concrete-lined basins intended to store Mayflower TSF seepage water until it can be pumped back to the Mayflower TSF operating pool. None of the three ponds described have secondary containment, rather they are impermeable basins. The pump-back pipeline also does not have secondary containment. Under emergency flow conditions, the Mayflower Clear Pond has a concrete emergency spillway that routes water to a drainage that eventually leads to Tenmile Creek.

The purpose of the Mayflower Clear Pond is to serve as an equalization basin. Water in Mayflower Clear Pond is pumped to the Mayflower TSF via the Mayflower Seepage Pump-back System, consisting of a redundant pump system and buried pipeline. The average flow of seepage into the Mayflower Seepage Collection Ponds and the Mayflower Clear Pond since 2015 is approximately 1,100 gallons per minute (gpm). Mayflower Clear Pond is normally operated at a nominal depth of 6.5 feet and is maintained through level monitoring instrumentation. Mayflower Clear Pond has a total capacity of 5.9 million gallons and has remaining capacity of 2.2 million gallons when the level is at 6.5 feet. At the average inflow rate, the pond has approximately 31 hours of capacity until the water level would reach the emergency spillway (at 9.33 feet).

Mayflower Clear Pond has 4 electric pumps to convey water back to the Mayflower TSF operating pool; in normal operations two of the four pumps are in operation and a third operates when flow rates are higher (e.g., runoff season). The fourth pump is a spare. There are also a series of instruments that function to monitor critical elements of the system including a level instrument, flow meter and pressure gauge. Alarms exist for the Mayflower Clear Pond level, flow rate and the pump-back pipeline pressure. Alarms report to the main water operations control room in the Property Discharge Water Treatment Plant (PDWTP). The pump-back system also has emergency generator power should an electricity power outage occur.

As described above, Climax is committed to completing an engineering study and submitting a TR for the preferred option from that study.

Please contact me at (719) 486-7633 if you need additional information.

Sincerely,

Eric Detmer, PE Chief Environmental Engineer

Attachment

Attachment A

Sample Analytical Results



Analytical Report

August 17, 2022

Report to: Meagan Graham FMI- Climax Mine Company Hwy 91 - Fremont Pass Climax, CO 80429

cc: Elaine Dubois

Bill to: Accounts Payable FMI- Climax Mine Company P.O. Box 13407 Phoenix, AZ 85002

Project ID: ZH0000076W ACZ Project ID: L75071

Meagan Graham:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on August 10, 2022. This project has been assigned to ACZ's project number, L75071. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L75071. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after February 13, 2023. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

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Sue Webber has reviewed and approved this report.





## Inorganic Analytical Results

#### FMI- Climax Mine Company

Project ID:	ZH0000076W
Sample ID:	OUTFALL 001A

#### ACZ Sample ID: L75071-01 Date Sampled: 08/05/22 12:50 Date Received: 08/10/22 Sample Matrix: Surface Water

Field Data										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Conductivity (Field)	Field Measurement	1	1203			umhos/cm			08/05/22 12:50	sw
pH (Field)	Field Measurement	1	7.6			units			08/05/22 12:50	sw
Temperature (Field)	Field Measurement	1	12.1			С			08/05/22 12:50	SW
Inorganic Prep										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acidify and filter (Potentially Dissolved)	Colorado 5 CCR 1002- 31.5.31 (2009)								08/12/22 10:35	ssr/gjl
Total Hot Plate Digestion	M200.2 ICP-MS								08/11/22 14:39	kja
Total Recoverable Digestion	M200.2 ICP-MS								08/11/22 14:40	kja
Metals Analysis										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Boron, total	M200.8 ICP-MS	1	0.0028	В	*	mg/L	0.001	0.005	08/12/22 16:15	mfm
Cadmium, potentially dissolved	M200.8 ICP-MS	1	0.000251			mg/L	0.00005	0.00025	08/12/22 12:42	mfm
Chromium, potentially dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	08/12/22 12:42	mfm
Iron, total recoverable	M200.8 ICP-MS	1	0.167		*	mg/L	0.007	0.02	08/11/22 17:40	mfm
Manganese, potentially dissolved	M200.8 ICP-MS	1	0.136			mg/L	0.0004	0.002	08/12/22 12:42	mfm
Molybdenum, total recoverable	M200.8 ICP-MS	1	0.0242			mg/L	0.0002	0.0005	08/11/22 17:40	mfm
Nickel, potentially dissolved	M200.8 ICP-MS	1	0.00125			mg/L	0.0004	0.001	08/12/22 12:42	mfm
Selenium, potentially dissolved	M200.8 ICP-MS	1	0.00012	В		mg/L	0.0001	0.00025	08/12/22 12:42	mfm
Zinc, potentially dissolved	M200.8 ICP-MS	1	0.0456			mg/L	0.006	0.015	08/12/22 12:42	mfm
Wet Chemistry										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfide as S	SM4500S2-D	1	<0.02	U	*	mg/L	0.02	0.1	08/12/22 13:00	jck



Inorganic Reference

Batch	r Explanations A distinct set of samples analyzed at a specific time		
Found	Value of the QC Type of interest		
Limit	Upper limit for RPD, in %.		
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)		
MDL	Method Detection Limit. Same as Minimum Reporting Limit un	aless omitted or e	gual to the POL (see comment #5)
MDL	Allows for instrument and annual fluctuations.		
PCN/SCN	A number assigned to reagents/standards to trace to the man	ufacturer's certific	ate of analysis
PQL	Practical Quantitation Limit. Synonymous with the EPA term "		
QC	True Value of the Control Sample or the amount added to the		
Rec	Recovered amount of the true value or spike added, in % (exc		/Kq)
RPD	Relative Percent Difference, calculation used for Duplicate QC		
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)		
Sample	Value of the Sample of interest		
0l- <b>T</b> -			
Sample Ty AS	Analytical Spike (Post Digestion)	LCSWD	Laboratory Control Sample - Water Duplicat
ASD	Analytical Spike (Post Digestion) Duplicate	LFB	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	LFM	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	LFMD	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	LRB	Laboratory Reagent Blank
ICB	Initial Calibration Blank	MS	Matrix Spike
ICV	Initial Calibration Verification standard	MSD	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	PBS	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	PBW	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	PQV	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	SDL	Serial Dilution
LCSW	Laboratory Control Sample - Water		
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Sample Ty Blanks Control Sa Duplicates Spikes/For Standard Z Qualifiers B H L U thod Reference (1) (2) (3) (4) (5) mments (1)	Prope Explanations       Verifies that there is no or minimal comples         Property and the exploration of the instrument of the matrix       Verifies the precision of the instrument of the matrix interferent of the validity of the calibration.         State       Determines sample matrix interferent of the validity of the calibration.         State       Determines sample matrix interferent of the validity of the calibration.         State       Determines sample matrix interferent of the validity of the calibration.         State       Analyte concentration detected at a value between MDL and Fe Analysis exceeded method hold time. pH is a field test with and the the material was analyzed for, but was not detected above the the material was analyzed for, but was not detected above the the associated value is either the sample quantitation limit or the associated value is either the sample quantitation limit or the test with and the test of the Determination of Inorganies (PA 600/R-93-100). Methods for the Determination of Inorganies (PA 600/R-94-111). Methods for the Determination of Metals (PA SW-846). Test Methods for Evaluating Solid Waste.         Standard Methods for the Examination of Water and Wasteward         QC results calculated from raw data. Results may vary slightly	SDL ontamination in the including the prep nt and/or method ces, if any. PQL. The associa n immediate hold to gative threshold. e level of the associa the sample detect and Wastes, Marco nic Substances in in Environmental ater.	Serial Dilution  e prep method or calibration procedure. p procedure. to procedure. ted value is an estimated quantity. time. ciated value. tion limit. ch 1983. Environmental Samples, August 1993. Samples - Supplement I, May 1994. alues are used in the calculations.
Sample Ty Blanks Control Sa Duplicates Spikes/For Standard Z Qualifiers B H L U thod Referent (1) (2) (3) (4) (5) mments (1) (2)	Ppe Explanations       Verifies that there is no or minimal comples         mples       Verifies the accuracy of the method, Verifies the precision of the instrument tified Matrix         Determines sample matrix interferent Verifies the validity of the calibration.         s (Qual)         Analyte concentration detected at a value between MDL and F Analysis exceeded method hold time. pH is a field test with an Target analyte response was below the laboratory defined neg. The material was analyzed for, but was not detected above the The associated value is either the sample quantitation limit or Ences         EPA 600/R-93-100. Methods for Chemical Analysis of Water and EPA 600/R-94-111. Methods for the Determination of Inorgant EPA 600/R-94-111. Methods for Evaluating Solid Waste. Standard Methods for the Examination of Water and Wasteward QC results calculated from raw data. Results may vary slightly Soil, Sludge, and Plant matrices for Inorganic analyses are reported.	SDL ontamination in the including the prep int and/or method ces, if any. PQL. The associa in immediate hold in gative threshold. I he sample detect and Wastes, Marca in Environmental ater.	Serial Dilution  e prep method or calibration procedure. p procedure. to procedure. ted value is an estimated quantity. time. ciated value. tion limit. ch 1983. Environmental Samples, August 1993. Samples - Supplement I, May 1994. alues are used in the calculations.
Sample Ty Blanks Control Sa Duplicates Spikes/For Standard Z Qualifiers B H L U thod Reference (1) (2) (3) (4) (5) mments (1) (2) (3) (3)	Ppe Explanations       Verifies that there is no or minimal comples         mples       Verifies the accuracy of the method, Verifies the precision of the instrume Determines sample matrix interferent Verifies the validity of the calibration.         s (Qual)       Analyte concentration detected at a value between MDL and F Analysis exceeded method hold time. pH is a field test with an Target analyte response was below the laboratory defined neg The material was analyzed for, but was not detected above the The associated value is either the sample quantitation limit or Ences         EPA 600/R-93-100.       Methods for Chemical Analysis of Water and EPA 600/R-93-100.         EPA 600/R-94-111.       Methods for Evaluating Solid Waste.         Standard Methods for the Examination of Water and Wasteward         QC results calculated from raw data.       Results may vary slighthy Soil, Sludge, and Plant matrices for Inorganic analyses are reported on an "as	SDL ontamination in the including the prep int and/or method ces, if any. PQL. The associa in immediate hold gative threshold. e level of the association the sample detect and Wastes, Marca in Environmental ater.	Serial Dilution e prep method or calibration procedure. p procedure. ted value is an estimated quantity. time. bciated value. tion limit. ch 1983. Environmental Samples, August 1993. Samples - Supplement I, May 1994. alues are used in the calculations. eight basis.
Sample Ty Blanks Control Sa Duplicates Spikes/For Standard Z Qualifiers B H L U thod Referent (1) (2) (3) (4) (5) mments (1) (2)	Pe Explanations       Verifies that there is no or minimal comples         Project Stress       Verifies the accuracy of the method, Verifies the precision of the instrume Determines sample matrix interferent Verifies the validity of the calibration.         S (Qual)       Analyte concentration detected at a value between MDL and F Analysis exceeded method hold time. pH is a field test with an Target analyte response was below the laboratory defined neg The material was analyzed for, but was not detected above the The associated value is either the sample quantitation limit or Ences         EPA 600/R-93-100.       Methods for Chemical Analysis of Water at EPA 600/R-93-100. Methods for the Determination of Inorgan EPA 600/R-93-100. Methods for Evaluating Solid Waste. Standard Methods for the Examination of Water and Wasteward OC results calculated from raw data. Results may vary slightly Soil, Sludge, and Plant matrices for Inorganic analyses are reported on an "as An asterisk in the "XQ" column indicates there is an extended	SDL ontamination in the including the prep int and/or method ces, if any. PQL. The associa in immediate hold gative threshold. e level of the association the sample detect and Wastes, Marca in Environmental ater.	Serial Dilution e prep method or calibration procedure. p procedure. ted value is an estimated quantity. time. bciated value. tion limit. ch 1983. Environmental Samples, August 1993. Samples - Supplement I, May 1994. alues are used in the calculations. eight basis.
Sample Ty Blanks Control Sa Duplicates Spikes/For Standard Z Qualifiers B H L U thod Reference (1) (2) (3) (4) (5) mments (1) (2) (3) (3)	Ppe Explanations       Verifies that there is no or minimal comples         mples       Verifies the accuracy of the method, Verifies the precision of the instrume Determines sample matrix interferent Verifies the validity of the calibration.         s (Qual)       Analyte concentration detected at a value between MDL and F Analysis exceeded method hold time. pH is a field test with an Target analyte response was below the laboratory defined neg The material was analyzed for, but was not detected above the The associated value is either the sample quantitation limit or Ences         EPA 600/R-93-100.       Methods for Chemical Analysis of Water and EPA 600/R-93-100.         EPA 600/R-94-111.       Methods for Evaluating Solid Waste.         Standard Methods for the Examination of Water and Wasteward         QC results calculated from raw data.       Results may vary slighthy Soil, Sludge, and Plant matrices for Inorganic analyses are reported on an "as	SDL ontamination in the including the prep int and/or method ces, if any. PQL. The associa in immediate hold to gative threshold. e level of the association the sample detect and Wastes, Marco in Environmental ater. y if the rounded va- ported on a dry we received" basis. qualifier and/or ce	Serial Dilution e prep method or calibration procedure. p procedure. to procedure. ted value is an estimated quantity. time. ciated value. tion limit. ch 1983. Environmental Samples, August 1993. Samples - Supplement I, May 1994. alues are used in the calculations. eight basis. ertification qualifier

https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf

REP001.03.15.02

## ACZ Laboratories, Inc. 2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

#### CLIMAX

#### ACZ Project ID: L75071

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Boron, total			M200.8 IC	P-MS									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG548446													
WG548446ICV	ICV	08/12/22 15:47	MS220701-3					101	90	110			
WG548446ICB	ICB	08/12/22 15:49				U	mg/L		-0.003	0.003			
WG548264LRB	LRB	08/12/22 16:05				U	mg/L		-0.0022	0.0022			
WG548264LFB	LFB	08/12/22 16:07	MS220722-2	.01001		.0092	mg/L	92	85	115			
L74988-05LFM	LFM	08/12/22 16:11	MS220722-2	.01001	.242	.2537	mg/L	117	70	130			
L74988-05LFMD	LFMD	08/12/22 16:13	MS220722-2	.01001	.242	.2528	mg/L	108	70	130	0	20	
Cadmium, pote	ntially di	ssolved	M200.8 IC	P-MS									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG548413													
WG548413ICV	ICV	08/12/22 12:16	MS220701-3	.05		.05362	mg/L	107	90	110			
WG548413ICB	ICB	08/12/22 12:18				U	mg/L		-0.00011	0.00011			
WG548413LFB	LFB	08/12/22 12:19	MS220722-2	.05005		.04755	mg/L	95	85	115			
WG547918PBW	PBW	08/12/22 12:21				U	mg/L		-0.00015	0.00015			
WG547966PBW	PBW	08/12/22 12:25				U	mg/L		-0.00015	0.00015			
WG548392PBW	PBW	08/12/22 12:29				U	mg/L		-0.00015	0.00015			
L75040-06AS	AS	08/12/22 12:33	MS220722-2	.05005	U	.048616	mg/L	97	70	130			
L75040-06ASD	ASD	08/12/22 12:35	MS220722-2	.05005	U	.048248	mg/L	96	70	130	1	20	
Chromium, pote	entially d	issolved	M200.8 IC	P-MS									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG548413													
WG548413ICV	ICV	08/12/22 12:16	MS220701-3	.05		.05292	mg/L	106	90	110			
WG548413ICB	ICB	08/12/22 12:18				U	mg/L		-0.0011	0.0011			
WG548413LFB	LFB	08/12/22 12:19	MS220722-2	.0501		.04705	mg/L	94	85	115			
WG547918PBW	PBW	08/12/22 12:21				U	mg/L		-0.0015	0.0015			
WG547966PBW	PBW	08/12/22 12:25				U	mg/L		-0.0015	0.0015			
WG548392PBW	PBW	08/12/22 12:29				U	mg/L		-0.0015	0.0015			
L75040-06AS	AS	08/12/22 12:33	MS220722-2	.0501	U	.04556	mg/L	91	70	130			
L75040-06ASD	ASD	08/12/22 12:35	MS220722-2	.0501	U	.0452	mg/L	90	70	130	1	20	
Iron, total recov	verable		M200.8 IC	P-MS									
	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
ACZ ID													
ACZ ID WG548347													
ACZ ID WG548347 WG548347ICV	ICV	08/11/22 16:42	MS220701-3	.10016		.108	mg/L	108	90	110			
<b>WG548347</b> WG548347ICV			MS220701-3	.10016		.108 U	mg/L mg/L	108					
WG548347	ICV ICB LRB	08/11/22 16:44	MS220701-3	.10016				108	90 -0.021 -0.0154	110 0.021 0.0154			
WG548347 WG548347ICV WG548347ICB WG548265LRB	ICB LRB	08/11/22 16:44 08/11/22 16:46				U U	mg/L mg/L		-0.021 -0.0154	0.021 0.0154			
WG548347 WG548347ICV WG548347ICB	ICB	08/11/22 16:44	MS220701-3 MS220722-2 MS220722-2	.10016 .04975 .04975	.185	U	mg/L	108 89 90	-0.021	0.021			

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#### CLIMAX

#### ACZ Project ID: L75071

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Manganese, pot	entially	dissolved	M200.8 IC	P-MS									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG548413													
WG548413ICV	ICV	08/12/22 12:16	MS220701-3	.05		.055	mg/L	110	90	110			
WG548413ICB	ICB	08/12/22 12:18				U	mg/L		-0.00088	0.00088			
WG548413LFB	LFB	08/12/22 12:19	MS220722-2	.0498		.0485	mg/L	97	85	115			
WG547918PBW	PBW	08/12/22 12:21				U	mg/L		-0.0012	0.0012			
WG547966PBW	PBW	08/12/22 12:25				U	mg/L		-0.0012	0.0012			
WG548392PBW	PBW	08/12/22 12:29				U	mg/L		-0.0012	0.0012			
L75040-06AS	AS	08/12/22 12:33	MS220722-2	.0498	.011	.05821	mg/L	95	70	130			
L75040-06ASD	ASD	08/12/22 12:35	MS220722-2	.0498	.011	.0578	mg/L	94	70	130	1	20	
Molybdenum, to	tal reco	verable	M200.8 IC	P-MS									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG548347													
WG548347ICV	ICV	08/11/22 16:42	MS220701-3	.02		.0199	mg/L	100	90	110			
WG548347ICB	ICB	08/11/22 16:44				U	mg/L		-0.0006	0.0006			
WG548265LRB	LRB	08/11/22 16:46				U	mg/L		-0.00044	0.00044			
WG548265LFB	LFB	08/11/22 16:48	MS220722-2	.05005		.04361	mg/L	87	85	115			
L75065-05LFM	LFM	08/11/22 17:36	MS220722-2	.05005	.00096	.04707	mg/L	92	70	130			
L75065-05LFMD	LFMD	08/11/22 17:38	MS220722-2	.05005	.00096	.0464	mg/L	91	70	130	1	20	
Nickel, potential	lly disso	lved	M200.8 IC	P-MS									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG548413													
WG548413ICV	ICV	08/12/22 12:16	MS220701-3	.05		.05285	mg/L	106	90	110			
WG548413ICB	ICB	08/12/22 12:18				U	mg/L		-0.00088	0.00088			
WG548413LFB	LFB	08/12/22 12:19	MS220722-2	.05005		.04655	mg/L	93	85	115			
WG547918PBW	PBW	08/12/22 12:21				U	mg/L		-0.0012	0.0012			
WG547966PBW	PBW	08/12/22 12:25				U	mg/L		-0.0012	0.0012			
WG548392PBW	PBW	08/12/22 12:29				U	mg/L		-0.0012	0.0012			
L75040-06AS	AS	08/12/22 12:33	MS220722-2	.05005	.00054	.04449	mg/L	88	70	130			
L75040-06ASD	ASD	08/12/22 12:35	MS220722-2	.05005	.00054	.04404	mg/L	87	70	130	1	20	
Selenium, poten	tially di	ssolved	M200.8 IC	P-MS									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG548413													
WG548413ICV	ICV	08/12/22 12:16	MS220701-3	.05		.05489	mg/L	110	90	110			
WG548413ICB	ICB	08/12/22 12:18				U	mg/L		-0.00022	0.00022			
WG548413LFB	LFB	08/12/22 12:19	MS220722-2	.05		.0495	mg/L	99	85	115			
WG547918PBW	PBW	08/12/22 12:21				U	mg/L		-0.0003	0.0003			
WG547966PBW	PBW	08/12/22 12:25				U	mg/L		-0.0003	0.0003			
WG548392PBW	PBW	08/12/22 12:29				U	mg/L		-0.0003	0.0003			
L75040-06AS	AS	08/12/22 12:33	MS220722-2	.05	.00013	.05357	mg/L	107	70	130			
L75040-06ASD	ASD	08/12/22 12:35	MS220722-2	.05	.00013	.0538	mg/L	107	70	130	0	20	

## ACZ Laboratories, Inc. 2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

#### CLIMAX

#### ACZ Project ID: L75071

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Sulfide as S			SM45008	62-D									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG548426													
WG548426ICV	ICV	08/12/22 12:42	WC220811-3	.352		.356	mg/L	101	90	110			
WG548426ICB	ICB	08/12/22 12:46				U	mg/L		-0.05	0.05			
WG548426LFB	LFB	08/12/22 12:51	WC220811-6	.2257733		.255	mg/L	113	80	120			
L75112-01AS	AS	08/12/22 13:52	WC220811-6	.2257733	U	.144	mg/L	64	75	125			M2
L75112-01ASD	ASD	08/12/22 13:57	WC220811-6	.2257733	U	.165	mg/L	73	75	125	14	20	M2
Zinc, potentially	v dissolv	ed	M200.8 I	CP-MS									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG548413													
WG548413 WG548413ICV	ICV	08/12/22 12:16	MS220701-3	.05		.0521	mg/L	104	90	110			
			MS220701-3	.05		.0521 U	mg/L mg/L		90 -0.0132	110 0.0132			
WG548413ICV	ICV	08/12/22 12:16	MS220701-3 MS220722-2	.05			-						
WG548413ICV WG548413ICB	ICV ICB	08/12/22 12:16 08/12/22 12:18				U	mg/L	104	-0.0132	0.0132			
WG548413ICV WG548413ICB WG548413LFB	ICV ICB LFB	08/12/22 12:16 08/12/22 12:18 08/12/22 12:19				U .0481	mg/L mg/L	104	-0.0132 85	0.0132 115			
WG548413ICV WG548413ICB WG548413LFB WG547918PBW	icv icb lfb pbw	08/12/22 12:16 08/12/22 12:18 08/12/22 12:19 08/12/22 12:21				U .0481 U	mg/L mg/L mg/L	104	-0.0132 85 -0.018	0.0132 115 0.018			
WG548413ICV WG548413ICB WG548413LFB WG547918PBW WG547966PBW	ICV ICB LFB PBW PBW	08/12/22 12:16 08/12/22 12:18 08/12/22 12:19 08/12/22 12:21 08/12/22 12:25			.0216	U .0481 U U	mg/L mg/L mg/L mg/L	104	-0.0132 85 -0.018 -0.018	0.0132 115 0.018 0.018			



(800) 334-5493

#### **FMI-** Climax Mine Company

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L75071-01	NG548426	Sulfide as S	SM4500S2-D	M2	Matrix spike recovery was low, the recovery of the

associated control sample (LCS or LFB) was acceptable.

ACZ Project ID: L75071



#### FMI- Climax Mine Company

ACZ Project ID: L75071

Metals Analysis

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Boron, total Iron, total recoverable M200.8 ICP-MS M200.8 ICP-MS

# **AGZ** Laboratories, Inc. 2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

## Sample Receipt

FMI- Climax Mine Company AC	CZ Project ID	:	L75071
	ate Received	08/10/20	22 10:57
	Received By		
	Date Printed	: 8	8/11/2022
Receipt Verification		- NO	
1) Is a foreign soil permit included for applicable samples?	YE	S NO	NA X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?		X	
4) Are any samples NRC licensable material?			Х
5) If samples are received past hold time, proceed with requested short hold time analys	ses? X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the sam	nples?	Х	
Samples/Containers			
	YE	S NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Tir	me? X		
11) For preserved bottle types, was the pH checked and within limits? $^{1}$	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			Х
14) Are samples that require zero headspace acceptable?			Х
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			Х
17) Is there a VOA trip blank present?			Х
18) Were all samples received within hold time?		Х	
Some parameters were received past hold time.	NA in	dicates Not A	Applicable

Chain of Custody Related Remarks

The 'Relinquished By' field on the COC was not completed. The project manager is contacting the client.

#### **Client Contact Remarks**

#### Please rush results

Shipping Containers				
Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?
3885	0.3	<=6.0	15	N/A

#### Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

REPAD LPII 2012-03



FMI- Climax Mine Company ZH0000076W



ACZ Project ID: L75071 Date Received: 08/10/2022 10:57

Received By:

Date Printed: 8/11/2022

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

<sup>1</sup> The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ Lab	oratori	es, Inc		75 C	71		С	HAIN	lof	CUS	TOE	Y
2773 Downhill Drive Steamboat	Springs, CO 8	0487 (800) 33	34-5493									
Report to:												
<sub>Name:</sub> Meagan Graham			4		ess: Hig			Fremo	nt Pas	SS		
Company:Climax Molybder		ny	_		ax, CC							· · · · · · ·
E-mail:mgraham1@fmi.co	m			Telep	hone:7	19-48	6-754	3				
Copy of Report to:		•••										
<sub>Name:</sub> Elaine DuBois				E-ma	il:edub	ois@	fmi.co	m				
Company:Climax Molybder	ium Compa	iny		Telep	hone:							
Invoice to:												
Name: Accounts Payable				Addre	ess:							
Company:Freeport-McMoR	an Copper	& Gold										
E-mail:Freeport@bscs.bas	ware.com			Telep	hone:							
If sample(s) received past hold										YES	×	
analysis before expiration, sha If "NO" then ACZ will contact client for further ins							1965. 01107	if HT is avoir	ed. and det	NO a will be qu	alified	
Are samples for SDWA Compli			MEU, MUZ WI	Yes			No	X				
If yes, please include state form		-	to PQL			-			-			
Sampler's Name: <u>E. DuBois</u>	Sampler	's site Inform	nation	State:	CO		Zip co	de <u>804</u>	29	Time Z	one <u>M</u> S	ST
Check box if observe Daylight	Savings Time	×										
PROJECT INFORMATION					ANAL	YSES RE	EQUESTE	D (attach i	ist or use	quote nu	mber)	
Quote # CDPS-001M				ers	Σ			ŀ				
<sub>PO#:</sub> ZH0000076W				tain	001							
Reporting state for compliance te	sting:			of Containers	CDPS-001M							
Check box if samples include NR					l ā			· ·				
		EITIME	Matrix		Ľ		ļ					
Outfall 001A	8.5.22	1250	SW	3	×	ļ						
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				<u> </u>	<u> </u>	ļ	<u> </u>					
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Matrix SW (Surface Water) · G	W (Ground Wate	er) · WW (Waste	Water) · [	DW (Drin	king Wat	er) · SL (	(Sludge)	· SO (So	ii) · OL ((	⊃íl) · Oth	er (Speci	ty)
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