

Complaint Recieved (CT3), Cross Gold Mine, M1977-410

Rmittasch@nedmining.com < Rmittasch@nedmining.com >

Tue, Sep 13, 2022 at 12:08 PM

To: "Lennberg - DNR, Patrick" <patrick.lennberg@state.co.us>, Daniel Takami <danieltakami@gmail.com>

Patrick

There is currently no material leaving the site, nor is there any active dumping anywhere.

the complaint speaks of hazardous water coming from the mine, our test results are coming back fantastic. Lab data is showing better than reportable levels on our metals.

Please review the attached, and I hope this answers the complaint.

Kind Regards,

Richard Mittasch, Vice President

Nederland Mining Consultants, Inc.

Phone: 720-893-3749

Mobile: 516 582-0833

Email: Rmittasch@nedmining.com

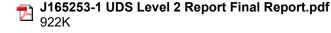
4415 Caribou Rd, PO Box 3395, Nederland, CO 80466

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2 attachments



J165744-1 UDS Level 2 Report Final Report.pdf 841K





Environment Testing America

ANALYTICAL REPORT

Eurofins Denver 4955 Yarrow Street Arvada, CO 80002 Tel: (303)736-0100

Laboratory Job ID: 280-165253-1

Client Project/Site: Wastewater Discharge - Nederland, CO

For:

GS Mining Company LLC 422 Gregory Street Central City, Colorado 80427

Attn: Patrick Delaney

Dylan Bieniulis, Project Manager I (303)736-0138

Dylan.Bieniulis@et.eurofinsus.com

Authorized for release by: 8/19/2022 11:03:08 AM

Review your project results through EOL.

Have a Question?

----- LINKS -----

Ask— The Expert

Visit us at: www.eurofinsus.com/Env The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: GS Mining Company LLC Job ID: 280-165253-1

Project/Site: Wastewater Discharge - Nederland, CO

Qualifiers

M	eta	Is

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
R	Compound was found in the blank and sample

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
Н	Sample was prepped or analyzed beyond the specified holding time
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossarv

DLC

EDL

Ciocoaiy	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Estimated Detection Limit (Dioxin) Limit of Detection (DoD/DOE) LOD LOQ Limit of Quantitation (DoD/DOE) MCL EPA recommended "Maximum Contaminant Level"

Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit

Decision Level Concentration (Radiochemistry)

ML Minimum Level (Dioxin) Most Probable Number MPN MQL Method Quantitation Limit

Not Calculated NC

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RLReporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Eurofins Denver

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Client: GS Mining Company LLC

Project/Site: Wastewater Discharge - Nederland, CO

Job ID: 280-165253-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: GS Mining Company LLC

Project: Wastewater Discharge - Nederland, CO

Report Number: 280-165253-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 08/08/2022; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 8.5 C.

Receipt temperature is considered acceptable as the samples were collected and submitted to the laboratory on the same date.

TOTAL RECOVERABLE METALS (ICP)

Sample OUTFALL-001 (280-165253-1) was analyzed for Total Recoverable Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 08/09/2022 and analyzed on 08/10/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

POTENTIALLY DISSOLVED METALS (ICPMS)

Sample OUTFALL-001 (280-165253-1) was analyzed for potentially dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 08/15/2022 and 08/18/2022 and analyzed on 08/16/2022 and 08/18/2022.

Lead and Silver were detected in method blank MB 280-583640/1-B at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICPMS)

Sample OUTFALL-001 (280-165253-1) was analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 08/09/2022 and analyzed on 08/10/2022.

The continuing calibration verification (CCV) associated with batch 280-583683 recovered (119%) above the upper control limit (110%) for Zinc. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have bee reported. The associated samples are impacted: OUTFALL-001 (280-165253-1), (CCV 280-583683/81), (CCV 280-583683/89), (LCS 280-583382/2-A), and (MB 280-583382/1-A).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Job ID: 280-165253-1

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Client: GS Mining Company LLC

Project/Site: Wastewater Discharge - Nederland, CO

Job ID: 280-165253-1 (Continued)

Laboratory: Eurofins Denver (Continued)

TOTAL MERCURY (CVAA)

Sample OUTFALL-001 (280-165253-1) was analyzed for total mercury (CVAA) in accordance with EPA Method 245.1. The samples were prepared on 08/09/2022 and analyzed on 08/10/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM - POTENTIALLY DISSOLVED

Sample OUTFALL-001 (280-165253-1) was analyzed for Trivalent Chromium - Potentially Dissolved in accordance with SM3500_CR3_B. The samples were analyzed on 08/17/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM - TOTAL RECOVERABLE

Sample OUTFALL-001 (280-165253-1) was analyzed for Trivalent Chromium - Total Recoverable in accordance with SM3500_CR3_B. The samples were analyzed on 08/17/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SPECIFIC CONDUCTIVITY

Sample OUTFALL-001 (280-165253-1) was analyzed for specific conductivity in accordance with SM20 2510B. The samples were analyzed on 08/10/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL SUSPENDED SOLIDS

Sample OUTFALL-001 (280-165253-1) was analyzed for total suspended solids in accordance with SM20 2540D. The samples were analyzed on 08/10/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HEXAVALENT CHROMIUM

Sample OUTFALL-001 (280-165253-1) was analyzed for hexavalent chromium in accordance with SM 3500 CR B. The samples were analyzed on 08/08/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HEXAVALENT CHROMIUM

Sample OUTFALL-001 (280-165253-1) was analyzed for hexavalent chromium in accordance with 3500_CR_B. The samples were analyzed on 08/08/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CORROSIVITY (PH)

Sample OUTFALL-001 (280-165253-1) was analyzed for corrosivity (pH) in accordance with SM20 4500 H+ B. The samples were analyzed on 08/10/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SULFIDE

Sample OUTFALL-001 (280-165253-1) was analyzed for sulfide in accordance with SM20 4500 S2 D. The samples were analyzed on 08/09/2022.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 280-165253-1

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Client: GS Mining Company LLC

Project/Site: Wastewater Discharge - Nederland, CO

Job ID: 280-165253-1

Job ID: 280-165253-1 (Continued)

Laboratory: Eurofins Denver (Continued)

HYDROGEN SULFIDE

Sample OUTFALL-001 (280-165253-1) was analyzed for Hydrogen Sulfide in accordance with SM20 4500 S2 H. The samples were analyzed on 08/17/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Detection Summary

Client: GS Mining Company LLC

Project/Site: Wastewater Discharge - Nederland, CO

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-165253-1

Job ID: 280-165253-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Iron		J	100	9.1	ug/L		200.7 Rev 4.4	Total
								Recoverable
Lead	0.37	J	1.0	0.23	ug/L	1	200.8	Total
								Recoverable
Copper	2.7	В	2.0	0.71	ug/L	1	200.8	Potentially
								Dissolved
Lead	0.42	JB	1.0	0.23	ug/L	1	200.8	Potentially
								Dissolved
Silver	0.24	JB	0.50	0.045	ug/L	1	200.8	Potentially
								Dissolved
Zinc	13		10	2.0	ug/L	1	200.8	Potentially
								Dissolved
Specific Conductance	200		2.0	2.0	umhos/cm	1	SM 2510B	Total/NA
pH adj. to 25 deg C	8.1	HF	0.1	0.1	SU	1	SM 4500 H+ B	Total/NA
Temperature	19.8	HF	1.0	1.0	Degrees C	1	SM 4500 H+ B	Total/NA
Field pH	8.1		1.0	1.0	SU	1	SM4500 S2 H	Total/NA
Field Temperature	20		1.0	1.0	Celsius	1	SM4500 S2 H	Total/NA
Specific Conductance	200		2.0	2.0	umhos/cm	1	SM4500 S2 H	Total/NA
Chromium, hexavalent	0.010	J	0.020	0.0040	mg/L	1	SM 3500 CR B	Dissolved

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Method Summary

Client: GS Mining Company LLC

Project/Site: Wastewater Discharge - Nederland, CO

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	EET DEN
200.8	Metals (ICP/MS)	EPA	EET DEN
245.1	Mercury (CVAA)	EPA	EET DEN
SM 2510B	Conductivity, Specific Conductance	SM	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
SM 3500 CR B	Chromium, Hexavalent	SM	EET DEN
SM 4500 H+ B	рН	SM	EET DEN
SM 4500 S2 D	Sulfide, Total	SM	EET DEN
SM3500 CR B	Chromium, Trivalent	SM	EET DEN
SM4500 S2 H	Unionized Hydrogen Sulfide	SM	EET DEN
200.7	Preparation, Total Recoverable Metals	EPA	EET DEN
200.8	Preparation, Total Recoverable Metals	EPA	EET DEN
245.1	Preparation, Mercury	EPA	EET DEN
ILTRATION	Sample Filtration	None	EET DEN
Poten Diss Met	Filtration for Potentially Dissolved Metals	EPA	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Job ID: 280-165253-1

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Sample Summary

Client: GS Mining Company LLC

Project/Site: Wastewater Discharge - Nederland, CO

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received

 280-165253-1
 OUTFALL-001
 Water
 08/08/22 12:40
 08/08/22 15:52

Job ID: 280-165253-1

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Client: GS Mining Company LLC

Project/Site: Wastewater Discharge - Nederland, CO

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: OUTFALL-001 Date Collected: 08/08/22 12:40 Date Received: 08/08/22 15:52

RL **MDL** Unit Analyte Result Qualifier D Prepared Analyzed Dil Fac 100 12 J 9.1 ug/L 08/09/22 14:55 08/10/22 17:17 Iron

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-165253-1 Date Collected: 08/08/22 12:40 **Matrix: Water**

Date Received: 08/08/22 15:52

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Arsenic $\overline{\mathsf{ND}}$ 5.0 08/09/22 14:30 08/10/22 23:51 0.50 ug/L Cadmium ND 1.0 0.088 ug/L 08/09/22 14:30 08/10/22 23:51 ND 0.88 ug/L Chromium 3.0 08/09/22 14:30 08/10/22 23:51 ND 2.0 0.71 ug/L 08/09/22 14:30 08/10/22 23:51 Copper Lead 0.37 J 1.0 0.23 ug/L 08/09/22 14:30 08/10/22 23:51 Zinc ND ^+ 10 2.0 ug/L 08/09/22 14:30 08/10/22 23:51

Method: 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-165253-1 Date Collected: 08/08/22 12:40 **Matrix: Water**

Date Received: 08/08/22 15:52 Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Arsenic ND 5.0 0.50 ug/L 08/15/22 15:02 08/16/22 19:49 Cadmium ND 1.0 0.088 ug/L 08/15/22 15:02 08/16/22 19:49 Chromium ND 3.0 0.88 ug/L 08/15/22 15:02 08/16/22 19:49 Copper 2.7 2.0 0.71 ug/L 08/15/22 15:02 08/16/22 19:49 1.0 0.23 ug/L 08/15/22 15:02 08/16/22 19:49 Lead 0.42 J B 2.0 08/15/22 15:02 08/16/22 19:49 Manganese ND 0.51 ug/L Nickel ND 2.0 0.28 ug/L 08/15/22 15:02 08/16/22 19:49 08/15/22 15:02 08/16/22 19:49 Selenium NΠ 5.0 1.0 ug/L 0.50 08/15/22 15:02 08/16/22 19:49 Silver 0.24 JB 0.045 ug/L **Zinc** 10 2.0 ug/L 08/18/22 08:57 08/18/22 17:12 13

Method: 245.1 - Mercury (CVAA)

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-165253-1 **Matrix: Water**

Date Collected: 08/08/22 12:40 Date Received: 08/08/22 15:52

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 08/09/22 17:35 08/10/22 17:25 Mercury ND 0.20 0.061 ug/L

General Chemistry

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-165253-1 **Matrix: Water**

Date Collected: 08/08/22 12:40

Date Received: 08/08/22 15:52									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	200		2.0	2.0	umhos/cm			08/10/22 09:11	1
Total Suspended Solids	ND		4.0	1.1	mg/L			08/10/22 10:17	1
Chromium, hexavalent	ND		0.020	0.0040	mg/L			08/08/22 19:26	1
pH adj. to 25 deg C	8.1	HF	0.1	0.1	SU			08/10/22 09:49	1
Temperature	19.8	HF	1.0	1.0	Degrees C			08/10/22 09:49	1

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Job ID: 280-165253-1

Matrix: Water

Lab Sample ID: 280-165253-1

Client Sample Results

Client: GS Mining Company LLC Job ID: 280-165253-1

Project/Site: Wastewater Discharge - Nederland, CO

General Chemistry (Continued)

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-165253-1 **Matrix: Water**

Date Collected: 08/08/22 12:40

Date Received: 08/08/22 15:52									
Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		0.050	0.022	mg/L			08/09/22 20:33	1
Un-ionized Hydrogen Sulfide	ND		1.0	1.0	mg/L			08/17/22 08:03	1
Field pH	8.1		1.0	1.0	SU			08/17/22 08:03	1
Field Temperature	20		1.0	1.0	Celsius			08/17/22 08:03	1
Specific Conductance	200		2.0	2.0	umhos/cm			08/17/22 08:03	1
Sulfide	ND		4.0	4.0	mg/L			08/17/22 08:03	1

General Chemistry - Total Recoverable

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-165253-1

Date Collected: 08/08/22 12:40

Date Received: 08/08/22 15:52

MDL Unit Analyte RL Dil Fac Result Qualifier D Prepared Analyzed Chromium, trivalent ND H 0.020 0.020 mg/L 08/17/22 09:38

General Chemistry - Dissolved

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-165253-1

Date Collected: 08/08/22 12:40 Date Received: 08/08/22 15:52

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Chromium, hexavalent 0.010 J 0.020 0.0040 mg/L 08/08/22 19:31

General Chemistry - Potentially Dissolved

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-165253-1 Date Collected: 08/08/22 12:40 **Matrix: Water**

Date Received: 08/08/22 15:52

Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac Chromium, trivalent (dissolved) ND 0.020 0.020 mg/L 08/17/22 09:39

Matrix: Water

Matrix: Water

Job ID: 280-165253-1

Project/Site: Wastewater Discharge - Nederland, CO

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-583419/1-A

Matrix: Water

Analysis Batch: 583687

Client: GS Mining Company LLC

Client Sample ID: Method Blank **Prep Type: Total Recoverable**

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Batch: 583419

Prep Batch: 583419

Prep Batch: 583419

Prep Batch: 583382

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte Prepared 100 08/09/22 14:55 08/10/22 13:34 Iron ND 9.1 ug/L

Lab Sample ID: LCS 280-583419/2-A

Matrix: Water

Analyte

Iron

Iron

Analysis Batch: 583687

MB MB

Spike LCS LCS Added

9870

MDL Unit

0.088 ug/L

0.88 ug/L

0.71 ug/L

0.23 ug/L

2.0 ug/L

0.50 ug/L

Result Qualifier Unit

D %Rec ug/L 99

Limits 85 - 115

Prep Type: Total Recoverable

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Analyzed

%Rec

Prep Type: Total Recoverable

Lab Sample ID: LCSD 280-583419/3-A

Matrix: Water

Analysis Batch: 583687

Analyte

Spike Added 10000

10000

LCSD LCSD Result Qualifier 9960

Unit ug/L

%Rec 100

Prepared

%Rec **RPD** Limits RPD 85 - 115

Limit 20

Dil Fac

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-583382/1-A

Matrix: Water

Matrix: Water

Chromium

Analysis Batch: 583683

MD MD

ND

	IVID	IVID
Analyte	Result	Qualifier
Arsenic	ND	
Cadmium	ND	

ND 2.0 Copper Lead ND 1.0 Zinc ND ^+ 10

Lab Sample ID: LCS 280-583382/2-A

Analysis Batch: 583683

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable

08/09/22 14:30 08/10/22 23:22 08/09/22 14:30 08/10/22 23:22

08/09/22 14:30 08/10/22 23:22

08/09/22 14:30 08/10/22 23:22

08/09/22 14:30 08/10/22 23:22

08/09/22 14:30 08/10/22 23:22

Prep Batch: 583382

Client Sample ID: Method Blank

Prep Type: Potentially Dissolved

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	40.0	43.1		ug/L		108	89 - 111	
Cadmium	40.0	40.3		ug/L		101	89 - 111	
Chromium	40.0	41.0		ug/L		102	86 - 115	
Copper	40.0	41.2		ug/L		103	90 - 115	
Lead	40.0	40.4		ug/L		101	88 - 115	
Zinc	40.0	42.1	^+	ug/L		105	88 - 115	

RL

5.0

1.0

3.0

Lab Sample ID: MB 280-583640/1-B

Matrix: Water

Chromium

Analysis Batch: 584178

MB MB

Analyte Result Qualifier RL **MDL** Unit Arsenic ND 5.0 0.50 ug/L Cadmium ND 1.0 0.088 ug/L

ND

3.0 0.88 ug/L

Prepared Analyzed 08/15/22 15:02 08/16/22 19:42 08/15/22 15:02 08/16/22 19:42

08/15/22 15:02 08/16/22 19:42

Prep Batch: 583979

Eurofins Denver

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Dil Fac

Project/Site: Wastewater Discharge - Nederland, CO

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 280-583640/1-B

Matrix: Water

Analysis Batch: 584178

Client Sample ID: Method Blank **Prep Type: Potentially Dissolved**

Prep Batch: 583979

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		2.0	0.71	ug/L		08/15/22 15:02	08/16/22 19:42	1
Lead	0.551	J	1.0	0.23	ug/L		08/15/22 15:02	08/16/22 19:42	1
Manganese	ND		2.0	0.51	ug/L		08/15/22 15:02	08/16/22 19:42	1
Nickel	ND		2.0	0.28	ug/L		08/15/22 15:02	08/16/22 19:42	1
Selenium	ND		5.0	1.0	ug/L		08/15/22 15:02	08/16/22 19:42	1
Silver	0.0620	J	0.50	0.045	ug/L		08/15/22 15:02	08/16/22 19:42	1
=									

Lab Sample ID: LCS 280-583640/2-B

Matrix: Water

Analysis Batch: 584178

Client Sample ID: Lab Control Sample Prep Type: Potentially Dissolved

Prep Batch: 583979

•	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	40.0	43.3		ug/L		108	89 - 111	
Cadmium	40.0	42.1		ug/L		105	89 - 111	
Chromium	40.0	42.4		ug/L		106	86 - 115	
Copper	40.0	44.4		ug/L		111	90 - 115	
Lead	40.0	41.0		ug/L		103	88 - 115	
Manganese	40.0	42.9		ug/L		107	87 - 115	
Nickel	40.0	40.7		ug/L		102	86 - 115	
Selenium	40.0	44.8		ug/L		112	85 - 114	
Silver	40.0	40.2		ug/L		101	90 - 114	

Lab Sample ID: 280-165253-1 MS

Matrix: Water

Analysis Ratch: 584178

Client Sample ID: OUTFALL-001 Prep Type: Potentially Dissolved

Prep Batch: 583979

Alialysis Batch. 504170	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	ND		40.0	42.3		ug/L		106	79 - 120
Cadmium	ND		40.0	41.5		ug/L		104	89 - 111
Chromium	ND		40.0	41.2		ug/L		103	86 - 115
Copper	2.7	В	40.0	44.0		ug/L		103	90 - 115
Lead	0.42	JB	40.0	39.3		ug/L		97	88 - 115
Manganese	ND		40.0	40.9		ug/L		102	87 - 115
Nickel	ND		40.0	40.9		ug/L		102	86 - 115
Selenium	ND		40.0	42.2		ug/L		106	85 - 114
Silver	0.24	JB	40.0	40.3		ug/L		100	70 - 130

Lab Sample ID: 280-165253-1 MSD

Matrix: Water

Analysis Ratch: 584178

Client Sample ID: OUTFALL-001 Prep Type: Potentially Dissolved

Pren Batch: 583979

Analysis Datch: 504170									Prep Da	aten: 50	3373
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	ND		40.0	43.4		ug/L		108	79 - 120	2	20
Cadmium	ND		40.0	41.6		ug/L		104	89 - 111	0	20
Chromium	ND		40.0	41.8		ug/L		105	86 - 115	2	20
Copper	2.7	В	40.0	42.1		ug/L		98	90 - 115	5	20
Lead	0.42	JB	40.0	39.8		ug/L		98	88 - 115	1	20
Manganese	ND		40.0	42.1		ug/L		105	87 - 115	3	20
Nickel	ND		40.0	39.7		ug/L		99	86 - 115	3	20

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Client: GS Mining Company LLC Job ID: 280-165253-1

Project/Site: Wastewater Discharge - Nederland, CO

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-165253-1 MSD **Matrix: Water**

Analysis Batch: 584178

Client Sample ID: OUTFALL-001 **Prep Type: Potentially Dissolved Prep Batch: 583979**

	Sample	Sample	Spike	MSD	MSD			%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	%Rec	Limits	RPD	Limit
Selenium	ND		40.0	42.4		ug/L	106	85 - 114	0	20
Silver	0.24	JB	40.0	39.8		ug/L	99	70 - 130	1	20

Lab Sample ID: MB 280-583640/1-C

Matrix: Water

Analysis Batch: 584432

Client Sample ID: Method Blank Prep Type: Potentially Dissolved

Client Sample ID: Lab Control Sample

Prep Type: Potentially Dissolved

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

MB MB Result Qualifier RL **MDL** Unit Dil Fac Analyte D Prepared Analyzed Lead 1.0 0.23 ug/L 08/18/22 17:01 ND ND 10 Zinc 08/18/22 17:01 2.0 ug/L

Lab Sample ID: LCS 280-583640/2-C

Matrix: Water

Analysis Batch: 584432

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits D 40.0 Lead 42.6 ug/L 106 88 - 115 40.0 Zinc 41.5 ug/L 104 88 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-583449/1-A

Matrix: Water Prep Type: Total/NA Analysis Batch: 583661 **Prep Batch: 583449** MB MB

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 0.20 08/09/22 17:35 08/10/22 17:07 Mercury ND 0.061 ug/L

Lab Sample ID: LCS 280-583449/2-A

Matrix: Water

Analysis Batch: 583661

Prep Type: Total/NA **Prep Batch: 583449** LCS LCS Spike %Rec Added Result Qualifier Unit %Rec Limits

Analyte Mercury 5.00 4.85 ug/L 90 - 110

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-583549/5

Matrix: Water Prep Type: Total/NA Analysis Batch: 583549

MR MR Analyte RL **MDL** Unit Result Qualifier Prepared Analyzed Dil Fac Specific Conductance ND 2.0 2.0 umhos/cm 08/10/22 09:11

Lab Sample ID: LCS 280-583549/4

Matrix: Water

Analysis Batch: 583549

LCS LCS %Rec Spike Analyte Added Result Qualifier Unit %Rec Limits Specific Conductance 1410 1400 umhos/cm 99 90 - 110

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Prep Type: Total/NA

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Client: GS Mining Company LLC Job ID: 280-165253-1

Project/Site: Wastewater Discharge - Nederland, CO

Method: SM 2510B - Conductivity, Specific Conductance (Continued)

Lab Sample ID: 280-165253-1 DU Client Sample ID: OUTFALL-001

Matrix: Water Prep Type: Total/NA Analysis Batch: 583549 RPD Sample Sample DU DU

Result Qualifier Result Qualifier RPD Limit Analyte Unit D Specific Conductance 200 199 umhos/cm 10

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-583568/3 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 583568

MB MB

Result Qualifier RL **MDL** Unit Dil Fac Prepared Analyzed 4.0 $\overline{\mathsf{ND}}$ 1.1 mg/L 08/10/22 10:17 Total Suspended Solids

Lab Sample ID: LCS 280-583568/1 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 583568

LCS LCS Spike %Rec Added Result Qualifier Limits Analyte Unit %Rec Total Suspended Solids 500 394 mg/L 79 79 - 114

Lab Sample ID: LCSD 280-583568/2 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 583568

LCSD LCSD Spike %Rec **RPD** RPD Analyte Added Result Qualifier Unit D %Rec Limits Limit Total Suspended Solids 500 409 82 79 - 114 20 mg/L

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-583373/10 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 583373

MB MB

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Chromium, hexavalent ND 0.020 0.0040 mg/L 08/08/22 19:26

Lab Sample ID: LCS 280-583373/8 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 583373

Spike LCS LCS %Rec Added Result Qualifier %Rec Limits Unit Chromium, hexavalent 0.100 0.102 mg/L 102 91 - 112

Lab Sample ID: LCSD 280-583373/9 **Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 583373

LCSD LCSD **RPD** Spike %Rec Added Limits Result Qualifier Unit %Rec Limit 0.100 0.102 102 Chromium, hexavalent 91 - 112 mg/L

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Client: GS Mining Company LLC

Project/Site: Wastewater Discharge - Nederland, CO

Job ID: 280-165253-1

Method: SM 3500 CR B - Chromium, Hexavalent (Continued)

Lab Sample ID: 280-165253-1 MS Client Sample ID: OUTFALL-001 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 583373

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier %Rec Limits Analyte Unit 0.100 Chromium, hexavalent ND 0.104 mg/L 104 91 - 112

Lab Sample ID: 280-165253-1 MSD Client Sample ID: OUTFALL-001 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 583373

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit 0.100 Chromium, hexavalent ND 0.112 mg/L 112 91 - 112

Lab Sample ID: 280-165253-1 DU Client Sample ID: OUTFALL-001 **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 583373

Sample Sample DU DU **RPD** Result Qualifier Result Qualifier Analyte Unit **RPD** Limit Chromium, hexavalent ND ND mg/L

Lab Sample ID: MB 280-583368/3-A Client Sample ID: Method Blank **Matrix: Water Prep Type: Dissolved**

Analysis Batch: 583373

MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 0.020 0.0040 mg/L 08/08/22 19:30 Chromium, hexavalent ND

Lab Sample ID: LCS 280-583368/1-A **Client Sample ID: Lab Control Sample Prep Type: Dissolved**

Matrix: Water

Analysis Batch: 583373

LCS LCS Spike %Rec Added Analyte Result Qualifier Unit %Rec Limits Chromium, hexavalent 0.100 0.102 91 - 112 mg/L 102

Lab Sample ID: LCSD 280-583368/2-A Client Sample ID: Lab Control Sample Dup **Prep Type: Dissolved**

Matrix: Water

Analysis Batch: 583373

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier **RPD** Limit Analyte Unit D %Rec Limits 0.100 Chromium, hexavalent 0.102 mg/L 102 91 - 112

Lab Sample ID: 280-165253-1 MS Client Sample ID: OUTFALL-001 **Prep Type: Dissolved**

Matrix: Water

Analysis Batch: 583373

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Unit %Rec $\overline{0.010}$ \overline{J} Chromium, hexavalent 0.100 0.104 mg/L 94 91 - 112

Lab Sample ID: 280-165253-1 MSD Client Sample ID: OUTFALL-001

Matrix: Water

Analysis Batch: 583373

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chromium, hexavalent	0.010	J	0.100	0.109		mg/L		98	91 - 112	4	20

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Prep Type: Dissolved

Client: GS Mining Company LLC

Project/Site: Wastewater Discharge - Nederland, CO

Job ID: 280-165253-1

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: 280-165253-1 DU

Client Sample ID: OUTFALL-001

Prep Type: Dissolved

Analysis Batch: 583373

Sample Sample DU DU **RPD** Result Qualifier Result Qualifier D RPD Limit Analyte Unit Chromium, hexavalent 0.010 J ND mg/L NC 20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-583571/4 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Matrix: Water

Analysis Batch: 583571

LCS LCS %Rec Spike Analyte Added Result Qualifier Unit D %Rec Limits 7.00 7.0 SU 100 99 - 101 pH adj. to 25 deg C

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 280-583518/37 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 583518

MB MB Result Qualifier RL **MDL** Unit Dil Fac Analyte Prepared Analyzed Sulfide 0.050 0.022 mg/L 08/09/22 20:27 ND

Lab Sample ID: LCS 280-583518/35 **Client Sample ID: Lab Control Sample Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 583518

Spike LCS LCS %Rec Added Limits Analyte Result Qualifier Unit D %Rec 0.500 Sulfide 0.482 96 81 - 122 mg/L

Lab Sample ID: LCSD 280-583518/36 Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 583518

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Sulfide 0.500 0.476 mg/L 95 81 - 122

Method: SM4500 S2 H - Unionized Hydrogen Sulfide

Lab Sample ID: MB 280-584181/1 Client Sample ID: Method Blank **Matrix: Water Prep Type: Total/NA**

Analysis Batch: 584181

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Un-ionized Hydrogen Sulfide ND 1.0 1.0 mg/L 08/17/22 08:03 ND Field pH 1.0 SU 08/17/22 08:03 10 Field Temperature ND 1.0 Celsius 08/17/22 08:03 Specific Conductance ND 2.0 08/17/22 08:03 2.0 umhos/cm Sulfide ND 4.0 4.0 mg/L 08/17/22 08:03

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8/19/2022

Client: GS Mining Company LLC

Project/Site: Wastewater Discharge - Nederland, CO

Metals

Prep Batch: 583382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-165253-1	OUTFALL-001	Total Recoverable	Water	200.8	
MB 280-583382/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-583382/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Prep Batch: 583419

Lab Sample ID 280-165253-1	Client Sample ID OUTFALL-001	Prep Type Total Recoverable	Matrix Water	Method 200.7	Prep Batch
MB 280-583419/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 280-583419/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 280-583419/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	

Prep Batch: 583449

Lab Sample ID 280-165253-1	Client Sample ID OUTFALL-001	Prep Type Total/NA	Matrix Water	Method 245.1	Prep Batch
MB 280-583449/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-583449/2-A	Lab Control Sample	Total/NA	Water	245.1	

Filtration Batch: 583640

Lab Sample ID 280-165253-1	Client Sample ID OUTFALL-001	Prep Type Potentially Dissolvec	Matrix Water	Method Poten_Diss_Met	Prep Batch
MB 280-583640/1-B	Method Blank	Potentially Dissolved	Water	Poten_Diss_Met	
LCS 280-583640/2-B	Lab Control Sample	Potentially Dissolvec	Water	Poten_Diss_Met	
280-165253-1 MS	OUTFALL-001	Potentially Dissolved	Water	Poten_Diss_Met	
280-165253-1 MSD	OUTFALL-001	Potentially Dissolvec	Water	Poten_Diss_Met	

Analysis Batch: 583661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-165253-1	OUTFALL-001	Total/NA	Water	245.1	583449
MB 280-583449/1-A	Method Blank	Total/NA	Water	245.1	583449
LCS 280-583449/2-A	Lab Control Sample	Total/NA	Water	245.1	583449

Analysis Batch: 583683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-165253-1	OUTFALL-001	Total Recoverable	Water	200.8	583382
MB 280-583382/1-A	Method Blank	Total Recoverable	Water	200.8	583382
LCS 280-583382/2-A	Lab Control Sample	Total Recoverable	Water	200.8	583382

Analysis Batch: 583687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-165253-1	OUTFALL-001	Total Recoverable	Water	200.7 Rev 4.4	583419
MB 280-583419/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	583419
LCS 280-583419/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	583419
LCSD 280-583419/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	583419

Prep Batch: 583979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-165253-1	OUTFALL-001	Potentially Dissolved		200.8	583640
MB 280-583640/1-B	Method Blank	Potentially Dissolved	Water	200.8	583640
LCS 280-583640/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	583640
280-165253-1 MS	OUTFALL-001	Potentially Dissolved	Water	200.8	583640
280-165253-1 MSD	OUTFALL-001	Potentially Dissolved	Water	200.8	583640

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Job ID: 280-165253-1

Client: GS Mining Company LLC

Project/Site: Wastewater Discharge - Nederland, CO

Metals

Analysis Batch: 584178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-165253-1	OUTFALL-001	Potentially Dissolved	Water	200.8	583979
MB 280-583640/1-B	Method Blank	Potentially Dissolved	Water	200.8	583979
LCS 280-583640/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	583979
280-165253-1 MS	OUTFALL-001	Potentially Dissolved	Water	200.8	583979
280-165253-1 MSD	OUTFALL-001	Potentially Dissolved	Water	200.8	583979

Prep Batch: 584309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-165253-1	OUTFALL-001	Potentially Dissolved	Water	200.8	583640

Analysis Batch: 584432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-165253-1	OUTFALL-001	Potentially Dissolved	Water	200.8	584309
MB 280-583640/1-C	Method Blank	Potentially Dissolvec	Water	200.8	
LCS 280-583640/2-C	Lab Control Sample	Potentially Dissolvec	Water	200.8	

General Chemistry

Filtration Batch: 583368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-165253-1	OUTFALL-001	Dissolved	Water	FILTRATION	
MB 280-583368/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-583368/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-583368/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-165253-1 MS	OUTFALL-001	Dissolved	Water	FILTRATION	
280-165253-1 MSD	OUTFALL-001	Dissolved	Water	FILTRATION	
280-165253-1 DU	OUTFALL-001	Dissolved	Water	FILTRATION	

Analysis Batch: 583373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-165253-1	OUTFALL-001	Dissolved	Water	SM 3500 CR B	583368
280-165253-1	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
MB 280-583368/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	583368
MB 280-583373/10	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 280-583368/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	583368
LCS 280-583373/8	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
LCSD 280-583368/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	583368
LCSD 280-583373/9	Lab Control Sample Dup	Total/NA	Water	SM 3500 CR B	
280-165253-1 MS	OUTFALL-001	Dissolved	Water	SM 3500 CR B	583368
280-165253-1 MS	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
280-165253-1 MSD	OUTFALL-001	Dissolved	Water	SM 3500 CR B	583368
280-165253-1 MSD	OUTFALL-001	Total/NA	Water	SM 3500 CR B	
280-165253-1 DU	OUTFALL-001	Dissolved	Water	SM 3500 CR B	583368
280-165253-1 DU	OUTFALL-001	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 583518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-165253-1	OUTFALL-001	Total/NA	Water	SM 4500 S2 D	
MB 280-583518/37	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-583518/35	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-583518/36	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	

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Job ID: 280-165253-1

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Client: GS Mining Company LLC

Project/Site: Wastewater Discharge - Nederland, CO

General Chemistry

Analysis Batch: 583549

Lab Sample ID 280-165253-1	OUTFALL-001	Prep Type Total/NA	Matrix Water	Method SM 2510B	Prep Batch
MB 280-583549/5	Method Blank	Total/NA	Water	SM 2510B	
LCS 280-583549/4	Lab Control Sample	Total/NA	Water	SM 2510B	
280-165253-1 DU	OUTFALL-001	Total/NA	Water	SM 2510B	

Analysis Batch: 583568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-165253-1	OUTFALL-001	Total/NA	Water	SM 2540D	
MB 280-583568/3	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-583568/1	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 280-583568/2	Lab Control Sample Dup	Total/NA	Water	SM 2540D	

Analysis Batch: 583571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-165253-1	OUTFALL-001	Total/NA	Water	SM 4500 H+ B	
LCS 280-583571/4	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 584181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-165253-1	OUTFALL-001	Total/NA	Water	SM4500 S2 H	
MB 280-584181/1	Method Blank	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 584198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-165253-1	OUTFALL-001	Total Recoverable	Water	SM3500 CR B	

Analysis Batch: 584199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-165253-1	OUTFALL-001	Potentially Dissolved	Water	SM3500 CR B	

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Job ID: 280-165253-1

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Lab Chronicle

Client: GS Mining Company LLC Job ID: 280-165253-1

Project/Site: Wastewater Discharge - Nederland, CO

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-165253-1 Date Collected: 08/08/22 12:40 **Matrix: Water**

Date Received: 08/08/22 15:52

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			50 mL	50 mL	583419	08/09/22 14:55	MCR	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			583687	08/10/22 17:17	KRP	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			200 mL	200 mL	583640	08/10/22 16:21	KMS	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	583979	08/15/22 15:02	MCR	EET DEN
Potentially Dissolved	Analysis	200.8		1			584178	08/16/22 19:49	LMT	EET DEN
Potentially Dissolved	Filtration	Poten_Diss_Met			200 mL	200 mL	583640	08/10/22 16:21	KMS	EET DEN
Potentially Dissolved	Prep	200.8			50 mL	50 mL	584309	08/18/22 08:57	PFM	EET DEN
Potentially Dissolved	Analysis	200.8		1			584432	08/18/22 17:12	LMT	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	583382	08/09/22 14:30	MCR	EET DEN
Total Recoverable	Analysis	200.8		1			583683	08/10/22 23:51	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	583449	08/09/22 17:35	CEH	EET DEN
Total/NA	Analysis	245.1		1			583661	08/10/22 17:25	CEH	EET DEN
Total/NA	Analysis	SM 2510B		1			583549	08/10/22 09:11	KEG	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	583568	08/10/22 10:17	ASP	EET DEN
Dissolved	Filtration	FILTRATION			2 mL	2 mL	583368	08/08/22 18:51	LRB	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	583373	08/08/22 19:31	LRB	EET DEN
Total/NA	Analysis	SM 3500 CR B		1	2 mL	2 mL	583373	08/08/22 19:26	LRB	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			583571	08/10/22 09:49	KEG	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	583518	08/09/22 20:33	LRB	EET DEN
Potentially Dissolved	Analysis	SM3500 CR B		1			584199	08/17/22 09:39	DNM	EET DEN
Total Recoverable	Analysis	SM3500 CR B		1			584198	08/17/22 09:38	DNM	EET DEN
Total/NA	Analysis	SM4500 S2 H		1			584181	08/17/22 08:03	SAH	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: GS Mining Company LLC

Project/Site: Wastewater Discharge - Nederland, CO

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-23
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22 *
California	State	2513	01-08-23
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-23
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-23
lowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-23
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22 *
New Hampshire	NELAP	205319	04-28-23
New Jersey	NELAP	190002	06-30-23
New York	NELAP	59923	04-01-23
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-08-23
Oklahoma	NELAP	8614	08-31-22
Oregon	NELAP	4025-011	01-09-23
Pennsylvania	NELAP	013	07-31-23
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-22 *
Virginia	NELAP	10490	06-14-23
Washington	State	C583-19	08-03-22 *
West Virginia DEP	State	354	11-30-22
Wisconsin	State	999615430	08-31-22
Wyoming (UST)	A2LA	2907.01	10-31-22

Job ID: 280-165253-1

Eurofins Denver

 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Eurofins TestAmerica, Denver						: eurofins	
4955 Yarrow Street Arvada, CO 80002 Phone (303) 736-0100 Phone (303) 431-7171	Chain of Cu	ain of Custody Record	ecord				Environment Testing America
Client Information	Samples (street)	Lab PM Bieniu	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s)	(s):	COC No:	
Client Contact: Patrick Delanev	Phone:	E-Mail:	E-Mail: Dvlan Bieniulis@Eurofinset.com	State of Origin:		Page:	
Company: Grand Island Resources	PWSID:		Analysis	Analysis Requested		Job #:	
Address: 12567 West Cedar Road Suite 250	Due Date Requested:		-			lă.	is:
City: Lakewood	TAT Requested (days):		#2000_H+	the mo	Aug.	A - HCL B - NaOH C - Zn Acetate	M - Hexane N - None O - AsNaO2
State, Zip: CO, 80466	Compliance Project: △ Yes △ No		alent C				P - Na204S Q - Na2SO3
9869-41H-518	Po#. Advance Payment Required		DD - TS nd Triv Cr (LA			ъ	R - Nazszos S - H2SO4 T - TSP Dodecahydrate
Email: pdelaney@blackfoxmining.com	;#OM		(e, 254) Tr Cr ar	SCOVE	S	I - Ice J - DI Water	U - Acetone V - MCAA
Project Name: Wastewater Discharge - Nederland, CO	Project #: 28022821		uctanc xavaler d Hexa d Hexa	S leto	iənisir	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
Site: First half of the month event	SSOW#:		SD (Y)	T - 1.81	100 10	Other:	
7011 - 110C	Sample	Matrix	MS/M pecific p p P - To B - Did B - To B - Did B - To S - To	t) 9.00) 19dmi		
P.H - 8.4	Sample	(W=water, S=solid, O=waste/oil,	H Tem	sil Jimne	uN leto		
Sample identification	Sample Date (G=grab)	ation Code:		oz □ d	ı X		Special Instructions/Note:
001TA11-001	9/2/01 min		. X . X		Q		*First half of the month potentially dissolved
	100000			<	3	and the second	metals permit list = 200.8 (As, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Zn)
						*First half of the mometals permit list = 2	*First half of the month total recoverable metals permit list = 200.7 (Fe), 200.8 (As.
					a planta	Cd, Cr, Cu, Pb, Zn),	and 245.1 (Hg)
						出出	
						temp :	(1
					****	-	
		~ - -	280-165253 Chain of Custody		70,		
					na de la compania del compania del compania de la compania del la compania de la compania della		
Possible Hazard Identification Non-Hazard	Poison B	ica/	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	le assessed if samp	oles are retain	ed longer than 1 n	nonth) Months
ssted: I, II, III, IV, Other (specify)			Special Instructions/QC Requirements	ments:	-		
Empty Kit Relinquished by:	Date:		Time:	Method of Shipment:	pment:		
Relinquished by:	Date/Time:	Сотрапу	Regiveler		Date/Time:	1552	CSCATOS
Relinquished by	Date/T/me:	Company	Reference by:	Da	Date/Time:		Company
	Date/Time:	Company	Received by:	Da	Date/Time:		Company
Custody Seals Intact: Custody Seal No.: △ Yes △ No			Cooler Temperature(s) °C and Other Remarks:	r Remarks: 84	100g	4	
				\$		1	170 01/16/2010

Eurofins TestAmerica, Denver

Login Sample Receipt Checklist

Client: GS Mining Company LLC Job Number: 280-165253-1

Login Number: 165253 List Source: Eurofins Denver

List Number: 1

Creator: Davis. Madison T

Creator: Davis, Madison T		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Environment Testing America

Eurofins Denver 4955 Yarrow Street Arvada, CO 80002 Tel: (303)736-0100

Laboratory Job ID: 280-165744-1

Client Project/Site: Wastewater Discharge - Nederland, CO

GS Mining Company LLC 422 Gregory Street Central City, Colorado 80427

Attn: Patrick Delaney

9/7/2022 3:30:20 PM

Dylan Bieniulis, Project Manager I (303)736-0138

Dylan.Bieniulis@et.eurofinsus.com

Authorized for release by:

EOL

Have a Question?

----- LINKS -----

Review your project results through

Visit us at: www.eurofinsus.com/Env The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: GS Mining Company LLC Job ID: 280-165744-1

Project/Site: Wastewater Discharge - Nederland, CO

Qualifiers

 Qualifier
 Qualifier Description

 H
 Sample was prepped or analyzed beyond the specified holding time

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Page 3 of 14

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Client: GS Mining Company LLC

Project/Site: Wastewater Discharge - Nederland, CO

Job ID: 280-165744-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: GS Mining Company LLC

Project: Wastewater Discharge - Nederland, CO

Report Number: 280-165744-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 08/22/2022; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.5 C.

POTENTIALLY DISSOLVED METALS (ICPMS)

Sample OUTFALL-001 (280-165744-1) was analyzed for potentially dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 08/30/2022 and analyzed on 08/31/2022.

This report includes Reporting Limits (RLs) for 200.8 Potentially Dissolved Silver that are less than Eurofins TestAmerica Denver's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Due to laboratory error the following sample was filtered 106 hours after collection, which is outside of recommended 8-96 hours following preservation for the requested potentially dissolved metals: OUTFALL-001 (280-165744-1). The client was notified on 9/7/2022 and instructed the labroatory to report the qualified data.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICPMS)

Sample OUTFALL-001 (280-165744-1) was analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 08/23/2022 and analyzed on 08/24/2022.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Job ID: 280-165744-1

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Detection Summary

Client: GS Mining Company LLC

Client Sample ID: OUTFALL-001

Project/Site: Wastewater Discharge - Nederland, CO

Lab Sample ID: 280-165744-1

Job ID: 280-165744-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.1	J	2.0	0.71	ug/L		_	200.8	Total
									Recoverable
Lead	0.85	J	1.0	0.23	ug/L	1		200.8	Total
									Recoverable
Copper	2.5	Н	2.0	0.71	ug/L	1		200.8	Potentially
									Dissolved
Lead	0.46	JH	1.0	0.23	ug/L	1		200.8	Potentially
									Dissolved
Zinc	9.2	JH	10	2.0	ug/L	1		200.8	Potentially
									Dissolved

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Method Summary

Client: GS Mining Company LLC

Project/Site: Wastewater Discharge - Nederland, CO

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	EET DEN
200.8	Preparation, Total Recoverable Metals	EPA	EET DEN
Poten Diss Met	Filtration for Potentially Dissolved Metals	EPA	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Job ID: 280-165744-1

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Sample Summary

Client: GS Mining Company LLC Project/Site: Wastewater Discharge - Nederland, CO

Job ID: 280-165744-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-165744-1	OUTFALL-001	Water	08/22/22 08:00	08/22/22 16:55

Client Sample Results

Client: GS Mining Company LLC Job ID: 280-165744-1

Project/Site: Wastewater Discharge - Nederland, CO

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: OUTFALL-001

Date Collected: 08/22/22 08:00

Lab Sample ID: 280-165744-1

Matrix: Water

Date Received: 08/22/22 16:55

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.1	J	2.0	0.71	ug/L		08/23/22 14:45	08/24/22 09:58	1
Lead	0.85	J	1.0	0.23	ug/L		08/23/22 14:45	08/24/22 09:58	1

Method: 200.8 - Metals (ICP/MS) - Potentially Dissolved

Client Sample ID: OUTFALL-001 Lab Sample ID: 280-165744-1

Date Received: 08/22/22 16:55								Watrix	vvater
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND	H	1.0	0.088	ug/L		08/30/22 11:40	08/31/22 18:16	1
Copper	2.5	Н	2.0	0.71	ug/L		08/30/22 11:40	08/31/22 18:16	1
Lead	0.46	JH	1.0	0.23	ug/L		08/30/22 11:40	08/31/22 18:16	1
Silver	ND	Н	0.50	0.045	ug/L		08/30/22 11:40	08/31/22 18:16	1
Zinc	9.2	JH	10	2.0	ug/L		08/30/22 11:40	08/31/22 18:16	1

QC Sample Results

Client: GS Mining Company LLC

Project/Site: Wastewater Discharge - Nederland, CO

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-584768/1-A

Matrix: Water

Matrix: Water

Analysis Batch: 584927

Client Sample ID: Method Blank **Prep Type: Total Recoverable**

Prep Batch: 584768

Job ID: 280-165744-1

Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac 2.0 08/23/22 14:45 08/24/22 09:23 Copper ND 0.71 ug/L 0.23 ug/L Lead ND 1.0 08/23/22 14:45 08/24/22 09:23

MB MB

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 584768

Analysis Batch: 584927 Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Copper 40.0 43.1 ug/L 108 90 - 115 40.0 42.3 ug/L 106 88 - 115 Lead

Lab Sample ID: MB 280-585277/1-B

Lab Sample ID: LCS 280-584768/2-A

Matrix: Water

Analysis Batch: 585798

Client Sample ID: Method Blank

Prep Type: Potentially Dissolved Prep Batch: 585492

MB MB Result Qualifier RL **MDL** Unit Analyte **Prepared** Analyzed Dil Fac Cadmium ND 1.0 0.088 ug/L 08/30/22 11:40 09/01/22 11:28 ND 2.0 0.71 ug/L 08/30/22 11:40 09/01/22 11:28 Copper Lead ND 1.0 0.23 ug/L 08/30/22 11:40 09/01/22 11:28 Silver ND 0.50 0.045 ug/L 08/30/22 11:40 09/01/22 11:28 Zinc 08/30/22 11:40 09/01/22 11:28 ND 10 2.0 ug/L

Lab Sample ID: LCS 280-585277/2-B

Matrix: Water

Analysis Batch: 585719

Client Sample ID: Lab Control Sample Prep Type: Potentially Dissolved Prep Batch: 585492

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Cadmium	40.0	41.9		ug/L		105	89 - 111	
Copper	40.0	43.2		ug/L		108	90 - 115	
Lead	40.0	42.6		ug/L		106	88 - 115	
Silver	40.0	41.7		ug/L		104	90 - 114	
Zinc	40.0	41.1		ug/L		103	88 - 115	

Eurofins Denver

9/7/2022



Client: GS Mining Company LLC

Project/Site: Wastewater Discharge - Nederland, CO

Metals

L	ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
28	80-165744-1	OUTFALL-001	Total Recoverable	Water	200.8	
M	IB 280-584768/1-A	Method Blank	Total Recoverable	Water	200.8	
L	CS 280-584768/2-A	Lab Control Sample	Total Recoverable	Water	200.8	

Analysis Batch: 584927

Lab Sample ID 280-165744-1	Client Sample ID OUTFALL-001	Prep Type Total Recoverable	Matrix Water	Method 200.8	Prep Batch 584768
MB 280-584768/1-A	Method Blank	Total Recoverable	Water	200.8	584768
LCS 280-584768/2-A	Lab Control Sample	Total Recoverable	Water	200.8	584768

Filtration Batch: 585277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-165744-1	OUTFALL-001	Potentially Dissolved	Water	Poten_Diss_Met	
MB 280-585277/1-B	Method Blank	Potentially Dissolvec	Water	Poten_Diss_Met	
LCS 280-585277/2-B	Lab Control Sample	Potentially Dissolvec	Water	Poten_Diss_Met	

Prep Batch: 585492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-165744-1	OUTFALL-001	Potentially Dissolved	Water	200.8	585277
MB 280-585277/1-B	Method Blank	Potentially Dissolvec	Water	200.8	585277
LCS 280-585277/2-B	Lab Control Sample	Potentially Dissolvec	Water	200.8	585277

Analysis Batch: 585719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method P	rep Batch
280-165744-1	OUTFALL-001	Potentially Dissolved	Water	200.8	585492
LCS 280-585277/2-B	Lab Control Sample	Potentially Dissolved	Water	200.8	585492

Analysis Batch: 585798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-585277/1-B	Method Blank	Potentially Dissolved	Water	200.8	585492

Job ID: 280-165744-1

Lab Chronicle

Client: GS Mining Company LLC Job ID: 280-165744-1

Project/Site: Wastewater Discharge - Nederland, CO

Client Sample ID: OUTFALL-001

Lab Sample ID: 280-165744-1 Date Collected: 08/22/22 08:00 **Matrix: Water**

Date Received: 08/22/22 16:55

		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Pr	ер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Po	tentially Dissolved	Filtration	Poten_Diss_Met			250 mL	250 mL	585277	08/26/22 17:00	LRD	EET DEN
Po	tentially Dissolved	Prep	200.8			50 mL	50 mL	585492	08/30/22 11:40	MCR	EET DEN
Po	tentially Dissolved	Analysis	200.8		1			585719	08/31/22 18:16	LMT	EET DEN
To	tal Recoverable	Prep	200.8			50 mL	50 mL	584768	08/23/22 14:45	MCR	EET DEN
To	tal Recoverable	Analysis	200.8		1			584927	08/24/22 09:58	LMT	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: GS Mining Company LLC

Project/Site: Wastewater Discharge - Nederland, CO

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-23
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22 *
California	State	2513	01-08-23
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-23
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-23
lowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-23
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22 *
New Hampshire	NELAP	205319	04-28-23
New Jersey	NELAP	190002	06-30-23
New York	NELAP	59923	04-01-23
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-08-23
Oregon	NELAP	4025-011	01-09-23
Pennsylvania	NELAP	013	07-31-23
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23
Virginia	NELAP	10490	06-14-23
Washington	State	C583-19	08-03-22 *
West Virginia DEP	State	354	11-30-22
Wyoming (UST)	A2LA	2907.01	10-31-22

Job ID: 280-165744-1

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 $^{{}^{\}star}\operatorname{Accreditation/Certification\ renewal\ pending\ -\ accreditation/certification\ considered\ valid}.$

Eurofins Denver

***** eurofins** | Environment Testing | America

Eurofins TestAmerica, Denver

EUronns TestAmerica, Denver 4955 Yarrow Street			7		•	eurofins Environment Testing
Arvada, CO 80002 Phone (303) 736-0100 Phone (303) 431-7171	5	ain oi custody Record	Record			America
Client Information	Sampler, SAM	<u> </u>	Lab PM: Bieniulis, Dylan T	Carrier Tracking No(s):		COC No:
Hat Patrick Delaney	Phone: 303-506	-1618	E-Mail: Dylan.Bieniulis@Eurofinset.com	State of Origin:		Page:
-			An	Analysis Requested		Job #:
Address: 12567 West Cedar Road Suite 250	Due Date Requested:					
City: Lakewood	TAT Requested (days):					
State, Zip: CO, 80466	Compliance Project: A Yes A	No				
Phone: 215-414-6986	Po #: Advance Payment Required		(Seco			F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate
Email: Pde laines of blackfoxmini MWO #COM	JW0 #: CO W		Vo) SistaM			
Project Name: Wastewater Discharge - Nederland, CO	Project #: 28022821		es ot l		ıənistr	K - EDIA W - pH 4-5 L - EDA Z - other (specify)
Site: second half of the month event	SSOW#:		ISD (Y IIy Diss		100 T 0	Other:
	65	Sample Matrix Type (W=vater, S=solid, O=vasts/oil,	M/SM mrofre M/SM mrofre Model 18.0 18.0 18.0 18.0 18.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19		TedmuM list	
Sample identification	Sample Date Time	G=grab) BT=Tissue, A=Air) Preservation Code:	20 20 20 20 20 X)1×	Special Instructions/Note:
01-17-17-18-18-18-18-18-18-18-18-18-18-18-18-18-	4117117 G 2000	3	×		1	*Second half of the month potentially
	7					dissolved metals permit list = 200.8 (Cd, Cu, Pb, Ag, Zn)
						*Second half of the month total recoverable metals permit list = 200.8 (Cu, Pb)
						temp = 8°C
						24 = 8,8
			280-165744 Chain of Custody	Of Custody		
Possible Hazard Identification Non-Hazard	Poison B Unknown	Radiological	Sample Disposal (A fa	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Archive For Mor	are retained long	ed longer than 1 month) ive For Months
V, Other (specify)			Special Instructions/QC Requirements:			
Empty Kit Relinquished by:	Date:		Time:	Method of Shipment:		
Relinquished by: Refinduished by:	Date/Time:	Company	Received by:	Date/Time:	22 201-	2 165C ETT DELL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:		Company
-			· fa positional		j	(indian)
Custody Seals Intact: Custody Seal No.: △ Yes △ No			Cooler Temperature(s) ''	Cooler Temperature(s) °C and Other Remarks: 🥰 🗲 🦰	OFto	0 (R+
						Ver: 01/16/2019

Login Sample Receipt Checklist

Client: GS Mining Company LLC Job Number: 280-165744-1

Login Number: 165744 List Source: Eurofins Denver

List Number: 1

Creator: Kazenga, Oliver M

Creator. Nazeriga, Oliver W		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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