

ORIGINAL SIXTEEN to ONE MINE, Inc.

"100 Years of Gold"

Post Office Box 909 • Alleghany, California 95910
(530) 287-3223 • www.origsix.com

October 25, 2016

Ms. Alejandra Serratos, Project Manager
Compliance and Enforcement Section
Central Valley Regional Water Quality Control Board
11020 Sun Center Drive, Suite 200
Rancho Cordova, CA 95670-6114

SUBJECT: QUARTERLY SELF-MONITORING REPORT SUBMITTAL FOR 3rd quarter 2016;
for Original Sixteen to One Mine, Inc, NPDES PERMIT No. CA0081809, Sierra
County ORDER R5-2015-0002

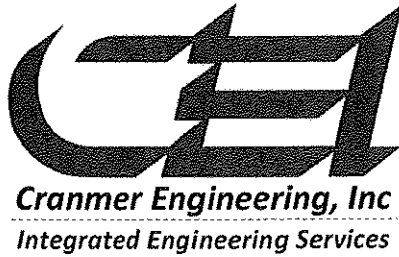
No unusual circumstances were noted.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designated to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions, please contact me at (530) 287-3223.

Sincerely,

Michael Miller
President



Chemical Report

Sixteen to One Mine
 P.O. Box 909
 Alleghany CA 95910

Job Number: 6162004
Date Reported: 08/16/16
Date / Time Received: 07/27/16 15:28
System Number:

Sample Number: 6162004 - 1

Sample Site: RSW - 001 (UP)
Date / Time Collected: 07/27/16 9:10

Sample Collected By: MM

Parameter	Analysis Result	Reporting Units	Analytical Method	Date of Analysis	Analyst Initials	Reporting Limit
Total Recoverable Arsenic	9.8	µg/L	EPA 200.9	8/1/2016	JS	2
Calcium	8.7	mg/L	EPA 200.7	7/28/2016	AWH	0.2
Total Recoverable Hardness as CaCO3	50	mg/L	SM 2340 B	7/28/2016		1
Magnesium	7.0	mg/L	EPA 200.7	7/28/2016	AWH	0.1
pH	6.6	pH Units	SM(18)4500-H+ B	7/27/2016	MH	0.1
Specific Conductivity	132	µmhos/cm, 25°C	EPA 120.1	7/27/2016	MH	0.5
Total Suspended Solids	4	mg/L	SM(18) 2540 D	8/1/2016	JS	1
Turbidity	0.75	NTU	EPA 180.1	7/28/2016	AWH	0.1

Sample Number: 6162004 - 2

Sample Site: RSW - 002 (DOWN)
Date / Time Collected: 07/27/16 9:30

Sample Collected By: MM

Parameter	Analysis Result	Reporting Units	Analytical Method	Date of Analysis	Analyst Initials	Reporting Limit
Total Recoverable Arsenic	95.9	µg/L	EPA 200.9	8/12/2016	DF	2

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Sample Number: 6162004 - 2

Sample Site: RSW - 002 (DOWN)

Date / Time Collected: 07/27/16 9:30

Sample Collected By: MM

Parameter	Analysis Result	Reporting Units	Analytical Method	Date of Analysis	Analyst Initials	Reporting Limit
Calcium	21.2	mg/L	EPA 200.7	7/28/2016	AWH	0.2
Total Recoverable Hardness as CaCO3	106	mg/L	SM 2340 B	7/28/2016		1
Magnesium	13.0	mg/L	EPA 200.7	7/28/2016	AWH	0.1
pH	6.8	pH Units	SM(18)4500-H+ B	7/27/2016	MH	0.1
Specific Conductivity	303	µmhos/cm, 25°C	EPA 120.1	7/27/2016	MH	0.5
Total Suspended Solids	ND	mg/L	SM(18) 2540 D	8/1/2016	JS	1
Turbidity	0.80	NTU	EPA 180.1	7/28/2016	AWH	0.1

Sample Number: 6162004 - 3

Sample Site: Effluent

Date / Time Collected: 07/27/16 9:00

Sample Collected By: MM

Parameter	Analysis Result	Reporting Units	Analytical Method	Date of Analysis	Analyst Initials	Reporting Limit
Total Recoverable Antimony	49.3	µg/L	EPA 200.9	8/5/2016	JS	6
Total Recoverable Arsenic	658	µg/L	EPA 200.9	8/12/2016	DF	2
Calcium	76.7	mg/L	EPA 200.7	8/9/2016	AWH	0.2
Total Recoverable Hardness as CaCO3	407	mg/L	SM 2340 B	8/9/2016		1
Total Recoverable Iron	169	µg/L	EPA 200.7	8/9/2016	AWH	100
Magnesium	52.2	mg/L	EPA 200.7	8/9/2016	AWH	0.1
Total Recoverable Manganese	19	µg/L	EPA 200.7	8/9/2016	AWH	10
Total Recoverable Nickel	135	µg/L	EPA 200.7	8/9/2016	AWH	10
pH	7.2	pH Units	SM(18)4500-H+ B	7/27/2016	MH	0.1
Specific Conductivity	1,100	µmhos/cm, 25°C	EPA 120.1	7/27/2016	MH	0.5

Note: "ND" means "none detected" (ie, none was found in the sample at or above the reporting limit).

Don't use

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Client Name: Sixteen to One Mine

Date Reported: 10/13/16

Job Number: 6162688

Sample Number: 6162688 - 3

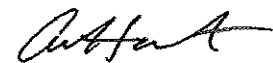
Sample Site: Effluent

Date / Time Collected: 09/27/16 8:30

Sample Collected By: MM

Parameter	Analysis Result	Reporting Units	Analytical Method	Date of Analysis	Analyst Initials	Reporting Limit
Total Recoverable Manganese	176	µg/L	EPA 200.7	9/29/2016	AWH	10
Total Recoverable Nickel	153	µg/L	EPA 200.7	9/29/2016	AWH	10
pH	7.3	pH Units	SM 4500-H+ B	9/27/2016	JS	0.1
Specific Conductivity	1,050	µmhos/cm, 25°C	SM 2510 B	9/27/2016	MH	0.5
Total Suspended Solids	141	mg/L	SM 2540 D	10/3/2016	JS	1
Turbidity	100	NTU	SM 2130 B	9/28/2016	JRS	0.1

use for nickel

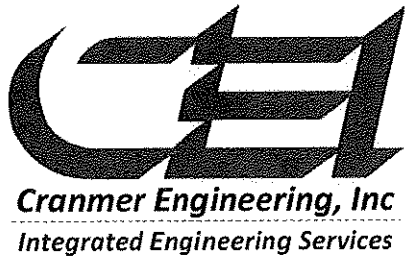


Andrew Hamilton

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Chemical Report

See other sheet for Nickel

Sixteen to One Mine
P.O. Box 909
Alleghany CA 95910

Job Number: 6162723
Date Reported: 10/20/16
Date / Time Received: 09/29/16 16:45
System Number:

Sample Number: 6162723 - 1

Sample Site: EFF #1

Date / Time Collected: 09/29/16 14:30

Sample Collected By: MM

Parameter	Analysis Result	Reporting Units	Analytical Method	Date of Analysis	Analyst Initials	Reporting Limit
Total Recoverable Antimony	60.0	µg/L	EPA 200.9	10/6/2016	JS	6
Total Recoverable Arsenic	278	µg/L	EPA 200.9	10/11/2016	JS	2
Total Recoverable Cadmium	ND	µg/L	EPA 200.8	10/10/2016	JS	0.5
Calcium	136	mg/L	EPA 200.7	10/3/2016	AWH	0.2
Total Recoverable Copper	1	µg/L	EPA 200.8	10/3/2016	AWH	0.5
Total Recoverable Hardness as CaCO3	896	mg/L	EPA 200.7	10/3/2016		1
Total Recoverable Iron	151	µg/L	EPA 200.7	10/10/2016	JS	100
Total Recoverable Lead	ND	µg/L	EPA 200.8	10/5/2016	JS	0.5
Magnesium	135	mg/L	EPA 200.7	10/3/2016	AWH	0.1
pH	7.3	pH Units	SM 4500-H+ B	9/29/2016	HAS	0.1
Specific Conductivity	1,550	µmhos/cm, 25°C	SM 2510 B	9/29/2016	HAS	0.5
Total Suspended Solids	ND	mg/L	SM 2540 D	10/3/2016	JS	1
Turbidity	1.4	NTU	SM 2130 B	9/29/2016	HAS	0.1

Note: "ND" means "none detected" (ie, none was found in the sample at or above the reporting limit).

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Redding, California 96001

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fax 530.243.7494

3860 Morrow Lane, Suite F
Chico, California 95928

voice 530.894.8966
fax 530.894.5143

August 26, 2016

Lab ID: 16H0786

ANDREW HAMILTON
CRANMER ENGINEERING INC
POST OFFICE BOX 1240
GRASS VALLEY, CA 95945

RE: GENERAL TESTING SIXTEEN TO ONE MINE 6162210

Dear ANDREW HAMILTON ,

Enclosed are the analysis results for Work Order number 16H0786. All analysis were performed under strict adherence to our established Quality Assurance Plan. Any abnormalities are listed in the qualifier section of this report.

If you have any questions regarding these results, please feel free to contact us at any time. We appreciate the opportunity to service your environmental testing needs.

Sincerely,

A handwritten signature in black ink, appearing to read "Ricky D. Jensen", written in a cursive style. Below the signature, the word "For" is printed in a small, sans-serif font.

Ricky D. Jensen
Laboratory Director

California ELAP Certification Number 1677



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2218 Railroad Avenue
Redding, California 96001

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voice 530.894.8966
fax 530.894.5143

Report To: CRANMER ENGINEERING INC
POST OFFICE BOX 1240
GRASS VALLEY, CA 95945

Attention: ANDREW HAMILTON
Project: GENERAL TESTING SIXTEEN TO ONE MINE 6162210

Description: 6162210-1 EFFLUENT **Lab ID:** 16H0786-01

Lab No: 16H0786
Reported: 08/26/16
Phone: 530-273-7284
P.O. #

Sampled: 06/21/16 11:00

Matrix: Wastewater

Received Temp (C): 6.9

Received: 08/16/16 10:59

Metals - Total

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
Cadmium	ug/l	0.06	J	0.05	0.20	EPA 200.8	08/25/16	08/24/16	B6H1367
Copper	"	7.0		0.1	0.5	"	"	"	"
Lead	"	1.1		0.1	0.5	"	"	"	"

Quality Control Data

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Metals - Total

Batch B6H1367 - EPA 200 Series

Blank										
Cadmium	ND	0.20	ug/l							
Copper	ND	0.5	ug/l							
Lead	ND	0.5	ug/l							
LCS										
Cadmium	99.6	0.20	ug/l	100		99.6	85-115			
Copper	100	0.5	ug/l	100		100	85-115			
Lead	99.2	0.5	ug/l	100		99.2	85-115			
Duplicate Source: 16H0752-01										
Cadmium	ND	0.20	ug/l		ND				20	
Copper	5.81	0.5	ug/l		5.85			0.583	20	
Lead	ND	0.5	ug/l		ND				20	
Duplicate Source: 16H1036-01										
Cadmium	ND	0.20	ug/l		ND				20	
Copper	0.88	0.5	ug/l		0.89			0.690	20	
Lead	ND	0.5	ug/l		ND				20	
Matrix Spike Source: 16H0752-01										
Cadmium	91.9	0.20	ug/l	100	ND	91.9	75-125			
Copper	91.0	0.5	ug/l	100	5.85	85.1	75-125			
Lead	106	0.5	ug/l	100	ND	106	75-125			
Matrix Spike Source: 16H1036-01										
Cadmium	98.6	0.20	ug/l	100	ND	98.6	75-125			
Copper	100	0.5	ug/l	100	0.89	99.5	75-125			
Lead	102	0.5	ug/l	100	ND	102	75-125			

Approved By

Basic Laboratory, Inc.
California ELAP Cert #1677 and #2718



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Report To: CRANMER ENGINEERING INC
POST OFFICE BOX 1240
GRASS VALLEY, CA 95945

Attention: ANDREW HAMILTON

Project: GENERAL TESTING SIXTEEN TO ONE MINE 6162210

Lab No: 16H0786
Reported: 08/26/16
Phone: 530-273-7284
P.O. #

Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). The J flag is equivalent to the DNQ Estimated Concentration flag.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the detection limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- < Less than reporting limit
- ≤ Less than or equal to reporting limit
- > Greater than reporting limit
- ≥ Greater than or equal to reporting limit
- MDL Method Detection Limit
- RL/ML Minimum Level of Quantitation
- MCL/AL Maximum Contaminant Level/Action Level
- mg/kg Results reported as wet weight
- TTLIC Total Threshold Limit Concentration
- STLIC Soluble Threshold Limit Concentration
- TCLP Toxicity Characteristic Leachate Procedure
- Note 1 Received Temperature - according to EPA guidelines, samples for most chemistry methods should be held at ≤6 degrees C after collection, including during transportation, unless the time from sampling to delivery is <2 hours. Regulating agencies may invalidate results if temperature requirements are not met.
- Note 2 According to 40 CFR Part 136 Table II, the following tests should be analyzed in the field within 15 minutes of sampling: pH, chlorine, dissolved oxygen, and sulfite.

Approved By

Basic Laboratory, Inc.
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