

Enviro-Chem Analytical, Inc.

2493 Hwy 6&50, Unit 7
Grand Junction, CO 81505
970-242-6154 970-245-9270 Fax

Ruby Trust Mine

Report No: **ECA/WR 20-22**

Sample I.D.: **Outfall 001**
Sample Date: **Nov. 4, 2020**
Sample Received: **Nov. 6, 2020**

Parameters	Results	Units	Date Tested	Analyst	Method No.	MDL
pH	7.88		11/6/2020 LT		SM 4500 B	0.1
Total Suspended Solids	13	mg/L	11/6/2020 LT		EPA 160.2	0.5
Lead, Total	<1.0	ug/L	11/9/2020 LT		SM 3500 Pb	1
Lead, Potentially Dissolved	<1.0	ug/L	11/9/2020 LT		SM 3500 Pb	1

Report Accepted By: **Liese K. Thompson**
Title: **Lab Director**
Date Accepted: **Nov .22, 2020**

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Ruby Trust MineReport No: **ECA/WR 20-17**

Sample I.D.: **Outfall 001**
Sample Date: **Oct. 15, 2020**
Sample Received: **Oct. 16, 2020**

Parameters	Results	Units	Date Tested	Analyst	Method No.	MDL
TDS	455 mg/L		10/16/2020 LT		SM 2540 C	0.5
Arsenic, Total Recoverable	<1 ug/L		10/23/2020 LT		SM 3500 As	1
Arsenic, Potentially Dissolved	<1 ug/L		10/23/2020 LT		SM 3500 As	1
Cadmium, Total	<1 ug/L		10/23/2020 LT		SM 3500 Cd	1
Chromium 3, Total Recoverable	<10 ug/L		10/16/2020 LT		SM 3500 Cr	10
Chromium 3, Potentially Dissolved	<10 ug/L		10/16/2020 LT		SM 3500 Cr	10
Chromium 6, Dissolved	<5 ug/L		10/16/2020 LT		SM 3500 Cr6	5
Copper, Total	5.2 ug/L		10/19/2020 LT		SM 3500 Cu	2
Copper, Potentially Dissolved	5.1 ug/L		10/19/2020 LT		SM 3500 Cu	2
Cyanide, WAD	<0.010 mg/L		10/23/2020 LT		SM 4500 CN	0.01
Iron, Total Recoverable	13 ug/L		10/19/2020 LT		SM 3500 Fe	1
Manganese, Potentially Dissolved	11 ug/L		10/19/2020 LT		SM 3500 Mn	2
Mercury, Total	<0.015 ug/L		10/23/2020 LT		EPA 245.1	0.015
Nickel, Potentially Dissolved	<5 ug/L		10/19/2020 LT		SM 3500 Ni	5
Selenium, Potentially Dissolved	<1 ug/L		10/23/2020 LT		SM 3500 Se	1
Zinc, Total	10 ug/L		10/19/2020 LT		SM 3500 Zn	5
Zinc, Potentially Dissolved	9 ug/L		10/19/2020 LT		SM 3500 Zn	5

Report Accepted By: **Liese K. Thompson**
Title: **Lab Director**
Date Accepted: **Nov. 22, 2020**

COLORADO - CDPS WET TEST REPORT FORM - CHRONIC

TEST SPECIES: C. dubia

TEST RESULTS	LETHALITY	GROWTH	STATISTICAL METHOD
Concentration w/ Statistical Difference	>100%	>100%	Fisher's/Dunnett's
Pass/Fail	Pass	N/A	
IC ₂₅	>100%	>100%	Bootstrap
Pass/Fail	Pass	N/A	

10:00 AM

DILUTION (% EFFLUENT)

MEASUREMENTS	CONTROL	6.50%	13.00%	25.00%	50.00%	100%
Day 1 % Survival	100	100	100	100	100	100
Day 2	100	100	100	100	100	100
Day 3	100	100	100	100	100	100
Day 4	100	100	100	100	100	100
Day 5	100	100	100	100	100	100
Day 6	100	100	100	100	100	100
Day 7	100	100	100	100	100	100
Mean 3 Brood Total	35.1	33.9	41.5	36.2	38	33.5
pH (Maximum/Minimum)	7.12-7.58	7.20-7.66	7.28-7.71	7.35-8.02	7.48-8.07	7.55-8.12

RECEIVING WATER USED FOR DILUTION? NO

WERE ALL TEST CONDITIONS IN CONFORMANCE WITH DIVISION GUIDELINES? **YES**
IF NO, LIST ALL DEVIATIONS:

IF NO, LIST ALL DEVIATIONS:

HARDNESS (MG/L)	EFFLUENT: 142-149
ALKALINITY (MG/L)	EFFLUENT: 44-49
T. AMMONIA (MG/L)	INITIAL EFFLUENT: <1.0
T.RESIDUAL CHLORINE (MG/L)	EFFLUENT: <0.1

MHW WATER: 80.2
MHW WATER: 80.2
FINAL EFFLUENT: <1.0

LABORATORY: **ENVIRO-CHEM ANALYTICAL, INC.**

ANALYST: Liese K. Thompson

COLORADO - CDPS WET TEST REPORT FORM - CHRONIC

OUTFALL: 001

TEST SPECIES: *P. promelas*

ANALYST: Liese K. Thompson