

Table 1
Mine Permit Groundwater Quality Monitoring Data
QAL023B (UMB)
Eagle Mine

Parameter	Unit	Benchmark	Q4 2017 11/07/17 ^T	Q1 2018 02/15/18 ^T
Field				
D.O. ¹	ppm	--	1.8	0.1
ORP	mV	--	6	-398
pH	SU	7.8-8.8	7.2	8.2
Specific Conductance	μS/cm @ 25°C	--	124	117
Temperature	°C	--	7.3	6.5
Turbidity	NTU	--	<1	<1
Water Elevation	ft MSL	--	1415.64	1415.47
Metals				
Aluminum	ug/L	200	--	--
Antimony	ug/L	5.5	--	--
Arsenic	ug/L	6.5	<2.0	<2.0
Barium	ug/L	80	--	--
Beryllium	ug/L	2.5	--	--
Boron	ug/L	400	<100 e	<100
Cadmium	ug/L	2.0	--	--
Chromium	ug/L	20	--	--
Cobalt	ug/L	40	--	--
Copper	ug/L	20	<5.0	<5.0
Iron	ug/L	159	48.9 s	50.5 e
Lead	ug/L	4.0	--	--
Lithium	ug/L	32	--	--
Manganese	ug/L	80	<20 e	<20.0 e
Mercury	ng/L	2.00	<0.500	<0.500
Molybdenum	ug/L	40	--	--
Nickel	ug/L	100	<25	<25.0
Selenium	ug/L	4.0	<1.0	<1.0
Silver	ug/L	0.80	--	--
Strontium	ug/L	200	--	--
Thallium	ug/L	2.0	--	--
Vanadium	ug/L	4.0	<1.0	<1.0
Zinc	ug/L	40	<10	<10.0
Major Anions				
Alkalinity, Bicarbonate	mg/L	67	65.3	63.3
Alkalinity, Carbonate	mg/L	8.0	<2.0	<2.0
Chloride	mg/L	4.0	<1.0	<1.0
Fluoride	mg/L	0.40	--	--
Nitrogen, Nitrate	mg/L	0.20	<0.050 e	<0.050 a,e
Sulfate	mg/L	8.0	4.6 e	3.7
Major Cations				
Calcium	mg/L	16	--	--
Magnesium	mg/L	3.7	--	--
Potassium	mg/L	2.0	--	--
Sodium	mg/L	11	6.8	7.7 e
General				
Hardness	mg/L	55	--	--

Explanations of abbreviations are included on the final page of this table.

QAL023B (UMB)

Table 1
Mine Permit Groundwater Quality Monitoring Data
QAL024A (UMB)
Eagle Mine

Parameter	Unit	Benchmark	Q4 2017 11/06/17 ^T	Q1 2018 02/14/18 ^T
Field				
D.O. ¹	ppm	--	10	11
ORP	mV	--	30	58
pH	SU	6.1-7.1	6.3	6.5
Specific Conductance	μS/cm @ 25°C	--	225	232
Temperature	°C	--	8.0	8.3
Turbidity	NTU	--	<1	<1
Water Elevation	ft MSL	--	1417.73	1418.02
Metals				
Aluminum	ug/L	200	--	--
Antimony	ug/L	5.5	--	--
Arsenic	ug/L	6.0	<2.0	<2.0
Barium	ug/L	86	--	--
Beryllium	ug/L	2.5	--	--
Boron	ug/L	400	<100 e	<100
Cadmium	ug/L	2.0	--	--
Chromium	ug/L	20	--	--
Cobalt	ug/L	40	--	--
Copper	ug/L	20	<5.0	<5.0
Iron	ug/L	105	42.1 s	21.5 e
Lead	ug/L	4.0	--	--
Lithium	ug/L	32	--	--
Manganese	ug/L	80	<20 e	<20.0 e
Mercury	ng/L	2.00	<0.500	<0.500
Molybdenum	ug/L	40	--	--
Nickel	ug/L	100	<25	<25.0
Selenium	ug/L	4.0	<1.0	<1.0
Silver	ug/L	0.80	--	--
Strontium	ug/L	200	--	--
Thallium	ug/L	2.0	--	--
Vanadium	ug/L	4.0	<1.0	<1.0
Zinc	ug/L	40	<10	<10.0
Major Anions				
Alkalinity, Bicarbonate	mg/L	24	42.2	58.6
Alkalinity, Carbonate	mg/L	8.0	<2.0	<2.0
Chloride	mg/L	4.0	37.8	44.1
Fluoride	mg/L	0.40	--	--
Nitrogen, Nitrate	mg/L	0.20	0.74 e	0.80 a,e
Sulfate	mg/L	8.0	4.7 e	6.1
Major Cations				
Calcium	mg/L	48	--	--
Magnesium	mg/L	8.1	--	--
Potassium	mg/L	3.7	--	--
Sodium	mg/L	2.0	23.9	19.6 e
General				
Hardness	mg/L	153	--	--

Explanations of abbreviations are included on the final page of this table.

QAL024A (UMB)

Table 1
Mine Permit Groundwater Quality Monitoring Data
QAL025A (Background)
Eagle Mine

Parameter	Unit	Benchmark	Q4 2017 11/6/17 ^T	Q1 2018 02/13/18 ^T
Field				
D.O. ¹	ppm	--	11	11
ORP	mV	--	21	79
pH	SU	6.4-7.4	6.7	7.1
Specific Conductance	μS/cm @ 25°C	--	55	50
Temperature	°C	--	7.5	6.9
Turbidity	NTU	--	<1	<1
Water Elevation	ft MSL	--	1416.50	1417.37
Metals				
Aluminum	ug/L	200	--	--
Antimony	ug/L	5.5	--	--
Arsenic	ug/L	6.0	<2.0	<2.0
Barium	ug/L	80	--	--
Beryllium	ug/L	2.5	--	--
Boron	ug/L	400	<100 e	<100
Cadmium	ug/L	2.0	--	--
Chromium	ug/L	20	--	--
Cobalt	ug/L	40	--	--
Copper	ug/L	20	<5.0	<5.0
Iron	ug/L	126	20 s	<20.0 e
Lead	ug/L	4.0	--	--
Lithium	ug/L	32	--	--
Manganese	ug/L	80	<20 e	<20.0 e
Mercury	ng/L	2.00	<0.500	<0.500
Molybdenum	ug/L	40	--	--
Nickel	ug/L	100	<25	<25.0
Selenium	ug/L	4.0	<1.0	<1.0
Silver	ug/L	0.80	--	--
Strontium	ug/L	200	--	--
Thallium	ug/L	2.0	--	--
Vanadium	ug/L	4.0	<1.0	<1.0
Zinc	ug/L	40	<10	<10.0
Major Anions				
Alkalinity, Bicarbonate	mg/L	25	25.1	22.8
Alkalinity, Carbonate	mg/L	8.0	<2.0	<2.0
Chloride	mg/L	4.0	<1.0	<1.0
Fluoride	mg/L	0.40	--	--
Nitrogen, Nitrate	mg/L	1.1	0.34 e	0.38 a,e
Sulfate	mg/L	8.0	2.1 e	2.0
Major Cations				
Calcium	mg/L	8.5	--	--
Magnesium	mg/L	2.0	--	--
Potassium	mg/L	2.0	--	--
Sodium	mg/L	2.0	0.92	0.84 e
General				
Hardness	mg/L	28	--	--

Explanations of abbreviations are included on the final page of this table.

QAL025A (Background)

Table 1
Mine Permit Groundwater Quality Monitoring Data
QAL025B (Background)
Eagle Mine

Parameter	Unit	Benchmark	Q4 2017 11/6/17 ^T	Q1 2018 02/13/18 ^T
Field				
D.O. ¹	ppm	--	11	11
ORP	mV	--	-20	31
pH	SU	8.5-9.5	8.7	9.1
Specific Conductance	μS/cm @ 25°C	--	67	63
Temperature	°C	--	7.2	6.9
Turbidity	NTU	--	<1	<1
Water Elevation	ft MSL	--	1416.37	1417.26
Metals				
Aluminum	ug/L	200	--	--
Antimony	ug/L	5.5	--	--
Arsenic	ug/L	6.0	<2.0	<2.0
Barium	ug/L	80	--	--
Beryllium	ug/L	2.5	--	--
Boron	ug/L	400	<100 e	<100
Cadmium	ug/L	2.0	--	--
Chromium	ug/L	20	--	--
Cobalt	ug/L	40	--	--
Copper	ug/L	20	<5.0	<5.0
Iron	ug/L	56	26 s	41.2 e
Lead	ug/L	4.0	--	--
Lithium	ug/L	32	--	--
Manganese	ug/L	80	<20 e	<20.0 e
Mercury	ng/L	2.00	<0.500	<0.500
Molybdenum	ug/L	40	--	--
Nickel	ug/L	100	<25	<25.0
Selenium	ug/L	4.0	<1.0	<1.0
Silver	ug/L	0.80	--	--
Strontium	ug/L	200	--	--
Thallium	ug/L	2.0	--	--
Vanadium	ug/L	4.0	1.2	1.2
Zinc	ug/L	40	<10	<10.0
Major Anions				
Alkalinity, Bicarbonate	mg/L	36	25.1	24.2
Alkalinity, Carbonate	mg/L	12	5.0	4.8
Chloride	mg/L	4.0	<1.0	<1.0
Fluoride	mg/L	0.40	--	--
Nitrogen, Nitrate	mg/L	0.20	0.11 e	0.13 a,e
Sulfate	mg/L	8.0	2.0 e	<2.0
Major Cations				
Calcium	mg/L	10	--	--
Magnesium	mg/L	2.0	--	--
Potassium	mg/L	2.0	--	--
Sodium	mg/L	4.5	1.7	1.6 e
General				
Hardness	mg/L	33	--	--

Explanations of abbreviations are included on the final page of this table.

QAL025B (Background)

Table 1
Mine Permit Groundwater Quality Monitoring Data
QAL025D (Background)
Eagle Mine

Parameter	Unit	Benchmark	Q4 2017 11/14/17 ^T	Q1 2018 02/06/18 ^T
Field				
D.O. ¹	ppm	--	5.0	5.6
ORP	mV	--	-23	24
pH	SU	8.2-9.2	8.4	8.7
Specific Conductance	μS/cm @ 25°C	--	98	98
Temperature	°C	--	7.1	7.3
Turbidity	NTU	--	<1	<1
Water Elevation	ft MSL	--	1412.57	1412.76
Metals				
Aluminum	ug/L	200	--	--
Antimony	ug/L	5.5	--	--
Arsenic	ug/L	6.5	2.9	2.7
Barium	ug/L	80	--	--
Beryllium	ug/L	2.5	--	--
Boron	ug/L	400	<100 e	<100
Cadmium	ug/L	2.0	--	--
Chromium	ug/L	20	--	--
Cobalt	ug/L	40	--	--
Copper	ug/L	20	<5.0	<5.0
Iron	ug/L	137	27.3 s	<20.0 e
Lead	ug/L	4.0	--	--
Lithium	ug/L	32	--	--
Manganese	ug/L	80	<20 e	<20.0 e
Mercury	ng/L	2.00	<0.500	<0.500
Molybdenum	ug/L	40	--	--
Nickel	ug/L	100	<25	<25.0
Selenium	ug/L	4.0	<1.0	<1.0
Silver	ug/L	0.80	--	--
Strontium	ug/L	200	--	--
Thallium	ug/L	2.0	--	--
Vanadium	ug/L	4.0	4.1	3.6
Zinc	ug/L	40	<10	<10.0
Major Anions				
Alkalinity, Bicarbonate	mg/L	52	44.2	37.7
Alkalinity, Carbonate	mg/L	14	<2.0	4.0
Chloride	mg/L	4.0	<1.0	1.1
Fluoride	mg/L	0.40	--	--
Nitrogen, Nitrate	mg/L	0.20	0.14 e	0.13 a,e
Sulfate	mg/L	8.0	5.6 e	7.0
Major Cations				
Calcium	mg/L	12	--	--
Magnesium	mg/L	2.7	--	--
Potassium	mg/L	2.0	--	--
Sodium	mg/L	12	3.6	3.3 e
General				
Hardness	mg/L	42	--	--

Explanations of abbreviations are included on the final page of this table.

QAL025D (Background)

Table 1
Mine Permit Groundwater Quality Monitoring Data
QAL026A (Background)
Eagle Mine

Parameter	Unit	Benchmark	Q4 2017 11/14/17 ^T	Q1 2018 02/06/18 ^T
Field				
D.O. ¹	ppm	--	12	11
ORP	mV	--	113	167
pH	SU	6.2-7.2	6.9	4.8
Specific Conductance	μS/cm @ 25°C	--	163	118
Temperature	°C	--	7.2	5.3
Turbidity	NTU	--	<1	<1
Water Elevation	ft MSL	--	1416.43	1417.00
Metals				
Aluminum	ug/L	236	--	--
Antimony	ug/L	5.5	--	--
Arsenic	ug/L	6.0	<2.0	<2.0
Barium	ug/L	80	--	--
Beryllium	ug/L	2.5	--	--
Boron	ug/L	400	<100 e	<100
Cadmium	ug/L	2.0	--	--
Chromium	ug/L	20	--	--
Cobalt	ug/L	40	--	--
Copper	ug/L	20	<5.0	<5.0
Iron	ug/L	368	66	232 e
Lead	ug/L	4.0	--	--
Lithium	ug/L	32	--	--
Manganese	ug/L	80	<20 e	<20.0 e
Mercury	ng/L	2.00	0.843	1.03
Molybdenum	ug/L	40	--	--
Nickel	ug/L	100	<25	<25.0
Selenium	ug/L	4.0	<1.0	<1.0
Silver	ug/L	0.80	--	--
Strontium	ug/L	200	--	--
Thallium	ug/L	2.0	--	--
Vanadium	ug/L	4.0	<1.0	<1.0
Zinc	ug/L	40	<10	<10.0
Major Anions				
Alkalinity, Bicarbonate	mg/L	114	72.4	58.1
Alkalinity, Carbonate	mg/L	8.0	<2.0	<2.0
Chloride	mg/L	4.0	<1.0	1.1
Fluoride	mg/L	0.40	--	--
Nitrogen, Nitrate	mg/L	0.73	0.89 e	0.99 a,e
Sulfate	mg/L	8.0	2.1 e	2.3
Major Cations				
Calcium	mg/L	40.0	--	--
Magnesium	mg/L	5.9	--	--
Potassium	mg/L	2.0	--	--
Sodium	mg/L	2.4	1.4	0.99 e
General				
Hardness	mg/L	124	--	--

Explanations of abbreviations are included on the final page of this table.

QAL026A (Background)

Table 1
Mine Permit Groundwater Quality Monitoring Data
QAL026D (Background)
Eagle Mine

Parameter	Unit	Benchmark	Q4 2017 11/14/17 ^T	Q1 2018 02/06/18 ^T
Field				
D.O. ¹	ppm	--	13	11
ORP	mV	--	80	46
pH	SU	8.4-9.4	8.2	8.7
Specific Conductance	µS/cm @ 25°C	--	68	65
Temperature	°C	--	7.3	7.0
Turbidity	NTU	--	<1	<1
Water Elevation	ft MSL	--	1409.38	1409.60
Metals				
Aluminum	ug/L	200	--	--
Antimony	ug/L	5.5	--	--
Arsenic	ug/L	6.0	<2.0	<2.0
Barium	ug/L	80	--	--
Beryllium	ug/L	2.5	--	--
Boron	ug/L	400	<100 e	<100
Cadmium	ug/L	2.0	--	--
Chromium	ug/L	20	--	--
Cobalt	ug/L	40	--	--
Copper	ug/L	20	<5.0	<5.0
Iron	ug/L	80	<20	<20.0 e
Lead	ug/L	4.0	--	--
Lithium	ug/L	32	--	--
Manganese	ug/L	80	<20 e	<20.0 e
Mercury	ng/L	2.00	<0.500	<0.500
Molybdenum	ug/L	40	--	--
Nickel	ug/L	100	<25	<25.0
Selenium	ug/L	4.0	<1.0	<1.0
Silver	ug/L	0.80	--	--
Strontium	ug/L	200	--	--
Thallium	ug/L	2.0	--	--
Vanadium	ug/L	4.0	<1.0	<1.0
Zinc	ug/L	40	<10	<10.0
Major Anions				
Alkalinity, Bicarbonate	mg/L	31	29.5	26.3
Alkalinity, Carbonate	mg/L	8.0	4.0	4.0
Chloride	mg/L	4.0	<1.0	1.1
Fluoride	mg/L	0.40	--	--
Nitrogen, Nitrate	mg/L	0.20	0.095 e	0.12 a,e
Sulfate	mg/L	8.0	<2.0 e	2.1
Major Cations				
Calcium	mg/L	13	--	--
Magnesium	mg/L	2.4	--	--
Potassium	mg/L	2.0	--	--
Sodium	mg/L	2.0	0.71	0.59 e
General				
Hardness	mg/L	43	--	--

Explanations of abbreviations are included on the final page of this table.

QAL026D (Background)

Table 1
Mine Permit Groundwater Quality Monitoring Data
QAL026E (Background)
Eagle Mine

Parameter	Unit	Benchmark	Q4 2017 11/6/17 ^T	Q1 2018 02/13/18 ^T
Field				
D.O. ¹	ppm	--	0.1	<0.1
ORP	mV	--	-178	-138
pH	SU	8.1-9.1	8.6	8.9
Specific Conductance	μS/cm @ 25°C	--	123	116
Temperature	°C	--	7.1	6.8
Turbidity	NTU	--	<1	<1
Water Elevation	ft MSL	--	1409.07	1409.54
Metals				
Aluminum	ug/L	200	--	--
Antimony	ug/L	5.5	--	--
Arsenic	ug/L	7.8	6.7	7.2
Barium	ug/L	80	--	--
Beryllium	ug/L	2.5	--	--
Boron	ug/L	400	<100 e	<100
Cadmium	ug/L	2.0	--	--
Chromium	ug/L	20	--	--
Cobalt	ug/L	40	--	--
Copper	ug/L	20	<5.0	<5.0
Iron	ug/L	80	<20	<20.0 e
Lead	ug/L	4.0	--	--
Lithium	ug/L	32	--	--
Manganese	ug/L	80	<20 e	<20.0 e
Mercury	ng/L	2.00	<0.500	<0.500
Molybdenum	ug/L	40	--	--
Nickel	ug/L	100	<25	<25.0
Selenium	ug/L	4.0	<1.0	<1.0
Silver	ug/L	0.80	--	--
Strontium	ug/L	200	--	--
Thallium	ug/L	2.0	--	--
Vanadium	ug/L	4.0	<1.0	<1.0
Zinc	ug/L	40	<10	<10.0
Major Anions				
Alkalinity, Bicarbonate	mg/L	91	54.3	54.8
Alkalinity, Carbonate	mg/L	8.0	4.0	<2.0
Chloride	mg/L	4.0	<1.0	<1.0
Fluoride	mg/L	0.40	--	--
Nitrogen, Nitrate	mg/L	0.20	<0.050 e	<0.050 a,e
Sulfate	mg/L	8.6	7.8 e	7.6
Major Cations				
Calcium	mg/L	17	--	--
Magnesium	mg/L	4.3	--	--
Potassium	mg/L	2.0	--	--
Sodium	mg/L	2.0	2.0	1.8 e
General				
Hardness	mg/L	60	--	--

Explanations of abbreviations are included on the final page of this table.

QAL026E (Background)

Table 1
Mine Permit Groundwater Quality Monitoring Data
QAL044B (UMB)
Eagle Mine

Parameter	Unit	Benchmark	Q4 2017 11/6/17 ^T	Q1 2018 02/14/18 ^T
Field				
D.O. ¹	ppm	--	1.8	0.1
ORP	mV	--	-53	-563
pH	SU	8.3-9.3	9.9	10.9
Specific Conductance	μS/cm @ 25°C	--	86	79
Temperature	°C	--	7.7	7.8
Turbidity	NTU	--	<1	<1
Water Elevation	ft MSL	--	1414.79	1414.94
Metals				
Aluminum	ug/L	200	--	--
Antimony	ug/L	5.5	--	--
Arsenic	ug/L	6.0	2.1	2.2
Barium	ug/L	80	--	--
Beryllium	ug/L	2.5	--	--
Boron	ug/L	400	<100 e	<100
Cadmium	ug/L	2.0	--	--
Chromium	ug/L	20	--	--
Cobalt	ug/L	40	--	--
Copper	ug/L	20	<5.0	<5.0
Iron	ug/L	80	<20	47.2 e
Lead	ug/L	4.0	--	--
Lithium	ug/L	32	--	--
Manganese	ug/L	80	<20 e	<20.0 e
Mercury	ng/L	2.00	<0.500	<0.500
Molybdenum	ug/L	40	--	--
Nickel	ug/L	100	<25	<25.0
Selenium	ug/L	4.0	<1.0	<1.0
Silver	ug/L	0.80	--	--
Strontium	ug/L	200	--	--
Thallium	ug/L	2.0	--	--
Vanadium	ug/L	4.0	<1.0	<1.0
Zinc	ug/L	40	<10	<10.0
Major Anions				
Alkalinity, Bicarbonate	mg/L	64	5.5	5.6 s
Alkalinity, Carbonate	mg/L	8.0	20.1	22.2
Chloride	mg/L	4.0	<1.0	1.2
Fluoride	mg/L	0.40	--	--
Nitrogen, Nitrate	mg/L	0.20	<0.050 e	<0.050 a,e
Sulfate	mg/L	24	8.7 e	7.6
Major Cations				
Calcium	mg/L	17	--	--
Magnesium	mg/L	4.0	--	--
Potassium	mg/L	2.0	--	--
Sodium	mg/L	2.6	2.2	2.3 e
General				
Hardness	mg/L	58	--	--

Explanations of abbreviations are included on the final page of this table.

QAL044B (UMB)

Table 1
Mine Permit Groundwater Quality Monitoring Data
QAL060A (TDRSA-CWB)
Eagle Mine

Parameter	Unit	Benchmark	Q4 2017 11/7/17 ^T	Q1 2018 02/12/18 ^T
Field				
D.O. ¹	ppm	--	12	11
ORP	mV	--	30	31
pH	SU	8.1-9.1	8.9	8.8
Specific Conductance	µS/cm @ 25°C	--	81	80
Temperature	°C	--	7.7	7.6
Turbidity	NTU	--	<1	<1
Water Elevation	ft MSL	--	1404.67	1404.83
Metals				
Aluminum	ug/L	200	--	--
Antimony	ug/L	5.5	--	--
Arsenic	ug/L	7.2	4.4	4.4
Barium	ug/L	80	--	--
Beryllium	ug/L	2.5	--	--
Boron	ug/L	400	<100 e	<100
Cadmium	ug/L	2.0	--	--
Chromium	ug/L	20	--	--
Cobalt	ug/L	40	--	--
Copper	ug/L	20	<5.0	<5.0
Iron	ug/L	80	<20	<20.0 e
Lead	ug/L	4.0	--	--
Lithium	ug/L	32	--	--
Manganese	ug/L	80	<20 e	<20.0 e
Mercury	ng/L	2.00	<0.500	<0.500
Molybdenum	ug/L	40	--	--
Nickel	ug/L	100	<25	<25.0
Selenium	ug/L	4.0	<1.0	<1.0
Silver	ug/L	0.80	--	--
Strontium	ug/L	200	--	--
Thallium	ug/L	2.0	--	--
Vanadium	ug/L	4.0	1.1	1.2
Zinc	ug/L	40	<10	<10.0
Major Anions				
Alkalinity, Bicarbonate	mg/L	62	39.5	29.6
Alkalinity, Carbonate	mg/L	8.0	<2.0	8.1
Chloride	mg/L	4.0	<1.0	<1.0
Fluoride	mg/L	0.40	--	--
Nitrogen, Nitrate	mg/L	0.20	0.23 e	0.26 a,e
Sulfate	mg/L	8.0	3.4 e	<2.0
Major Cations				
Calcium	mg/L	17	--	--
Magnesium	mg/L	4.2	--	--
Potassium	mg/L	2.0	--	--
Sodium	mg/L	2.1	0.80	0.74 e
General				
Hardness	mg/L	61	--	--

Explanations of abbreviations are included on the final page of this table.

QAL060A (TDRSA-CWB)

Table 1
Mine Permit Groundwater Quality Monitoring Data
QAL061A (TDRSA-CWB)
Eagle Mine

Parameter	Unit	Benchmark	Q4 2017 11/7/17 ^T	Q1 2018 02/12/18 ^T
Field				
D.O. ¹	ppm	--	10	11
ORP	mV	--	-54	45
pH	SU	8.1-9.1	8.4	8.9
Specific Conductance	μS/cm @ 25°C	--	114	108
Temperature	°C	--	7.3	7.6
Turbidity	NTU	--	<1	<1
Water Elevation	ft MSL	--	1406.07	1406.26
Metals				
Aluminum	ug/L	200	--	--
Antimony	ug/L	5.5	--	--
Arsenic	ug/L	6.0	<2.0	<2.0
Barium	ug/L	80	--	--
Beryllium	ug/L	2.5	--	--
Boron	ug/L	400	<100 e	<100
Cadmium	ug/L	2.0	--	--
Chromium	ug/L	20	--	--
Cobalt	ug/L	40	--	--
Copper	ug/L	20	<5.0	<5.0
Iron	ug/L	80	<20	<20.0 e
Lead	ug/L	4.0	--	--
Lithium	ug/L	32	--	--
Manganese	ug/L	80	<20 e	<20.0 e
Mercury	ng/L	2.00	<0.500	<0.500
Molybdenum	ug/L	40	--	--
Nickel	ug/L	100	<25	<25.0
Selenium	ug/L	4.0	<1.0	<1.0
Silver	ug/L	0.80	--	--
Strontium	ug/L	200	--	--
Thallium	ug/L	2.0	--	--
Vanadium	ug/L	4.0	<1.0	<1.0
Zinc	ug/L	40	<10	<10.0
Major Anions				
Alkalinity, Bicarbonate	mg/L	40	58.3	54.5
Alkalinity, Carbonate	mg/L	8.0	<2.0	2.0
Chloride	mg/L	4.0	1.0	1.2
Fluoride	mg/L	0.40	--	--
Nitrogen, Nitrate	mg/L	0.27	0.32 e	0.33 a,e
Sulfate	mg/L	8.0	<2.0 e	<2.0
Major Cations				
Calcium	mg/L	15	--	--
Magnesium	mg/L	2.2	--	--
Potassium	mg/L	2.0	--	--
Sodium	mg/L	2.0	0.85	0.82 e
General				
Hardness	mg/L	37	--	--

Explanations of abbreviations are included on the final page of this table.

QAL061A (TDRSA-CWB)

Table 1
Mine Permit Groundwater Quality Monitoring Data
QAL062A (TDRSA-CWB)
Eagle Mine

Parameter	Unit	Benchmark	Q4 2017 11/7/17 ^T	Q1 2018 02/12/18 ^T
Field				
D.O. ¹	ppm	--	8.7	8.6
ORP	mV	--	-45	39
pH	SU	8.3-9.3	7.6	8.0
Specific Conductance	µS/cm @ 25°C	--	478	477
Temperature	°C	--	7.5	7.9
Turbidity	NTU	--	<1	<1
Water Elevation	ft MSL	--	1407.37	1407.59
Metals				
Aluminum	ug/L	200	--	--
Antimony	ug/L	5.5	--	--
Arsenic	ug/L	6.0	<2.0	<2.0
Barium	ug/L	80	--	--
Beryllium	ug/L	2.5	--	--
Boron	ug/L	400	<100 e	<100
Cadmium	ug/L	2.0	--	--
Chromium	ug/L	20	--	--
Cobalt	ug/L	40	--	--
Copper	ug/L	20	<5.0	<5.0
Iron	ug/L	80	22.3 s	<20.0 e
Lead	ug/L	4.0	--	--
Lithium	ug/L	32	--	--
Manganese	ug/L	80	<20 e	<20.0 e
Mercury	ng/L	2.00	<0.500	<0.500
Molybdenum	ug/L	40	--	--
Nickel	ug/L	100	<25	<25.0
Selenium	ug/L	4.0	<1.0	<1.0
Silver	ug/L	0.80	--	--
Strontium	ug/L	200	--	--
Thallium	ug/L	2.0	--	--
Vanadium	ug/L	4.0	<1.0	<1.0
Zinc	ug/L	40	<10	<10.0
Major Anions				
Alkalinity, Bicarbonate	mg/L	48	158	170
Alkalinity, Carbonate	mg/L	8.0	<2.0	<2.0
Chloride	mg/L	4.0	55.6	59.1
Fluoride	mg/L	0.40	--	--
Nitrogen, Nitrate	mg/L	0.41	0.72 e	0.83 a,e
Sulfate	mg/L	8.0	2.3 e	2.3
Major Cations				
Calcium	mg/L	12	--	--
Magnesium	mg/L	2.2	--	--
Potassium	mg/L	2.0	--	--
Sodium	mg/L	2.0	18.6	21.8 e
General				
Hardness	mg/L	40	--	--

Explanations of abbreviations are included on the final page of this table.

QAL062A (TDRSA-CWB)

Table 1
Mine Permit Groundwater Quality Monitoring Data
QAL063A (TDRSA-CWB)
Eagle Mine

Parameter	Unit	Benchmark	Q4 2017 11/6/17 ^T	Q1 2018 02/12/18 ^T
Field				
D.O. ¹	ppm	--	8.9	8.1
ORP	mV	--	-35	77
pH	SU	8.1-9.1	7.7	7.8
Specific Conductance	µS/cm @ 25°C	--	427	486
Temperature	°C	--	8.0	7.8
Turbidity	NTU	--	<1	<1
Water Elevation	ft MSL	--	1401.50	1401.26
Metals				
Aluminum	ug/L	200	--	--
Antimony	ug/L	5.5	--	--
Arsenic	ug/L	6.0	<2.0	<2.0
Barium	ug/L	80	--	--
Beryllium	ug/L	2.5	--	--
Boron	ug/L	400	<100 e	<100
Cadmium	ug/L	2.0	--	--
Chromium	ug/L	20	--	--
Cobalt	ug/L	40	--	--
Copper	ug/L	20	<5.0	<5.0
Iron	ug/L	80	20.4 s	<20.0 e
Lead	ug/L	4.0	--	--
Lithium	ug/L	32	--	--
Manganese	ug/L	80	<20 e	<20.0 e
Mercury	ng/L	2.00	<0.500	<0.500
Molybdenum	ug/L	40	--	--
Nickel	ug/L	100	<25	<25.0
Selenium	ug/L	4.0	<1.0	<1.0
Silver	ug/L	0.80	--	--
Strontium	ug/L	200	--	--
Thallium	ug/L	2.0	--	--
Vanadium	ug/L	4.0	<1.0	<1.0
Zinc	ug/L	40	<10	<10.0
Major Anions				
Alkalinity, Bicarbonate	mg/L	42	167	165
Alkalinity, Carbonate	mg/L	8.0	<2.0	<2.0
Chloride	mg/L	4.0	38.3	43.0
Fluoride	mg/L	0.40	--	--
Nitrogen, Nitrate	mg/L	0.29	0.59 e	0.70 a,e
Sulfate	mg/L	8.0	2.5 e	2.3
Major Cations				
Calcium	mg/L	12	--	--
Magnesium	mg/L	2.0	--	--
Potassium	mg/L	2.0	--	--
Sodium	mg/L	2.0	8.2	9.5 e
General				
Hardness	mg/L	40	--	--

Explanations of abbreviations are included on the final page of this table.

QAL063A (TDRSA-CWB)

Table 1
Mine Permit Groundwater Quality Monitoring Data
QAL064D (UMB)
Eagle Mine

Parameter	Unit	Benchmark	Q4 2017 11/6/17 ^T	Q1 2018 02/14/18 ^T
Field				
D.O. ¹	ppm	--	0.1	0.1
ORP	mV	--	-427	-520
pH	SU	8.0-9.0	9.2	9.5
Specific Conductance	μS/cm @ 25°C	--	149	141
Temperature	°C	--	6.9	6.9
Turbidity	NTU	--	<1	<1
Water Elevation	ft MSL	--	1416.36	1415.94
Metals				
Aluminum	ug/L	200	--	--
Antimony	ug/L	5.5	--	--
Arsenic	ug/L	6.0	<2.0	<2.0
Barium	ug/L	80	--	--
Beryllium	ug/L	2.5	--	--
Boron	ug/L	400	<100 e	<100
Cadmium	ug/L	2.0	--	--
Chromium	ug/L	20	--	--
Cobalt	ug/L	40	--	--
Copper	ug/L	20	<5.0	<5.0
Iron	ug/L	80	39 s	25.7 e
Lead	ug/L	4.0	--	--
Lithium	ug/L	32	--	--
Manganese	ug/L	80	<20 e	<20.0 e
Mercury	ng/L	2.00	<0.500	<0.500
Molybdenum	ug/L	40	--	--
Nickel	ug/L	100	<25	<25.0
Selenium	ug/L	4.0	<1.0	<1.0
Silver	ug/L	0.80	--	--
Strontium	ug/L	200	--	--
Thallium	ug/L	2.0	--	--
Vanadium	ug/L	4.0	<1.0	<1.0
Zinc	ug/L	40	<10	<10.0
Major Anions				
Alkalinity, Bicarbonate	mg/L	82	77.4	77.8
Alkalinity, Carbonate	mg/L	8.0	<2.0	<2.0
Chloride	mg/L	4.2	2.4	2.2
Fluoride	mg/L	0.40	--	--
Nitrogen, Nitrate	mg/L	0.20	<0.050 e	<0.050 a,e
Sulfate	mg/L	8.0	<2.0 e	<2.0
Major Cations				
Calcium	mg/L	22	--	--
Magnesium	mg/L	3.3	--	--
Potassium	mg/L	2.0	--	--
Sodium	mg/L	6.9	4.1	3.8 e
General				
Hardness	mg/L	51	--	--

Explanations of abbreviations are included on the final page of this table.

QAL064D (UMB)

Table 1
Mine Permit Groundwater Quality Monitoring Data
QAL065D (UMB)
Eagle Mine

Parameter	Unit	Benchmark	Q4 2017 11/7/17 ^T	Q1 2018 02/15/18 ^T
Field				
D.O. ¹	ppm	--	0.1	<0.1
ORP	mV	--	-160	-353
pH	SU	7.9-8.9	8.5	9.0
Specific Conductance	μS/cm @ 25°C	--	152	145
Temperature	°C	--	6.9	6.0
Turbidity	NTU	--	<1	<1
Water Elevation	ft MSL	--	1416.53	1416.19
Metals				
Aluminum	ug/L	200	--	--
Antimony	ug/L	5.5	--	--
Arsenic	ug/L	6.6	3.2	3.2
Barium	ug/L	80	--	--
Beryllium	ug/L	2.5	--	--
Boron	ug/L	400	<100 e	<100
Cadmium	ug/L	2.0	--	--
Chromium	ug/L	20	--	--
Cobalt	ug/L	40	--	--
Copper	ug/L	20	<5.0	<5.0
Iron	ug/L	80	70.6	48.4 e
Lead	ug/L	4.0	--	--
Lithium	ug/L	32	--	--
Manganese	ug/L	80	<20 e	<20.0 e
Mercury	ng/L	2.00	<0.500	<0.500
Molybdenum	ug/L	40	--	--
Nickel	ug/L	100	<25	<25.0
Selenium	ug/L	4.0	<1.0	<1.0
Silver	ug/L	0.80	--	--
Strontium	ug/L	200	--	--
Thallium	ug/L	2.0	--	--
Vanadium	ug/L	4.0	<1.0	<1.0
Zinc	ug/L	40	<10	<10.0
Major Anions				
Alkalinity, Bicarbonate	mg/L	86	85.9	82.4
Alkalinity, Carbonate	mg/L	8.7	<2.0	<2.0
Chloride	mg/L	4.0	<1.0	1.1
Fluoride	mg/L	0.40	--	--
Nitrogen, Nitrate	mg/L	0.20	<0.050 e	<0.050 a,e
Sulfate	mg/L	8.0	<2.0 e	<2.0
Major Cations				
Calcium	mg/L	14	--	--
Magnesium	mg/L	4.8	--	--
Potassium	mg/L	3.0	--	--
Sodium	mg/L	12	9.5	10.7 e
General				
Hardness	mg/L	53	--	--

Explanations of abbreviations are included on the final page of this table.

QAL065D (UMB)

Table 1
Mine Permit Groundwater Quality Monitoring Data
QAL066D (UMB)
Eagle Mine

Parameter	Unit	Benchmark	Q4 2017 11/6/17 ^D	Q1 2018 02/14/18 ^D
Field				
D.O. ¹	ppm	--	6.6	2.6
ORP	mV	--	23	22
pH	SU	8.7-9.7	9.0	8.7
Specific Conductance	μS/cm @ 25°C	--	141	156
Temperature	°C	--	6.3	6.1
Turbidity	NTU	--	119	47
Water Elevation	ft MSL	--	1415.65	1415.90
Metals				
Aluminum	ug/L	557	--	--
Antimony	ug/L	5.5	--	--
Arsenic	ug/L	8.9	9.4	7.9
Barium	ug/L	80	--	--
Beryllium	ug/L	2.5	--	--
Boron	ug/L	400	<100 e	<100
Cadmium	ug/L	2.0	--	--
Chromium	ug/L	20	--	--
Cobalt	ug/L	40	--	--
Copper	ug/L	20	<5.0	<5.0
Iron	ug/L	288	<20	<20.0 e
Lead	ug/L	4.0	--	--
Lithium	ug/L	32	--	--
Manganese	ug/L	80	<20 e	<20.0 e
Mercury	ng/L	2.00	0.601	0.343
Molybdenum	ug/L	40	--	--
Nickel	ug/L	100	<25	<25.0
Selenium	ug/L	4.0	<1.0	<1.0
Silver	ug/L	0.80	--	--
Strontium	ug/L	367	--	--
Thallium	ug/L	2.0	--	--
Vanadium	ug/L	4.0	1.4	1.2
Zinc	ug/L	40	<10	<10.0
Major Anions				
Alkalinity, Bicarbonate	mg/L	61	60.3	56.1
Alkalinity, Carbonate	mg/L	52	6.0	8.1
Chloride	mg/L	4.0	1.3	1.2
Fluoride	mg/L	0.40	--	--
Nitrogen, Nitrate	mg/L	0.20	<0.050 e	<0.050 a,e
Sulfate	mg/L	11	14.3 e	9.8
Major Cations				
Calcium	mg/L	58	--	--
Magnesium	mg/L	2.9	--	--
Potassium	mg/L	2.6	--	--
Sodium	mg/L	8.0	14.8	14.3 e
General				
Hardness	mg/L	146	--	--

Explanations of abbreviations are included on the final page of this table.

QAL066D (UMB)

Table 1
Mine Permit Groundwater Quality Monitoring Data
QAL067A (TDRSA-CWB)
Eagle Mine

Parameter	Unit	Benchmark	Q4 2017 11/7/17 ^T	Q1 2018 02/12/18 ^T
Field				
D.O. ¹	ppm	--	8.6	8.6
ORP	mV	--	9	81
pH	SU	5.6-6.6	6.2	6.3
Specific Conductance	μS/cm @ 25°C	--	945	770
Temperature	°C	--	8.0	7.6
Turbidity	NTU	--	<1	<1
Water Elevation	ft MSL	--	1414.40	1414.99
Metals				
Aluminum	ug/L	200	--	--
Antimony	ug/L	5.5	--	--
Arsenic	ug/L	6.0	<2.0	<2.0
Barium	ug/L	80	--	--
Beryllium	ug/L	2.5	--	--
Boron	ug/L	400	<100 e	<100
Cadmium	ug/L	2.0	--	--
Chromium	ug/L	20	--	--
Cobalt	ug/L	40	--	--
Copper	ug/L	20	<5.0	<5.0
Iron	ug/L	80	2290	<20.0 e
Lead	ug/L	4.0	--	--
Lithium	ug/L	32	--	--
Manganese	ug/L	80	<20 e	<20.0 e
Mercury	ng/L	2.00	1.79	1.23
Molybdenum	ug/L	40	--	--
Nickel	ug/L	100	<25	<25.0
Selenium	ug/L	4.0	<1.0	1.6
Silver	ug/L	0.80	--	--
Strontium	ug/L	200	--	--
Thallium	ug/L	2.0	--	--
Vanadium	ug/L	4.0	<1.0	<1.0
Zinc	ug/L	40	<10	<10.0
Major Anions				
Alkalinity, Bicarbonate	mg/L	51	57.3	60.6
Alkalinity, Carbonate	mg/L	8.0	<2.0	<2.0
Chloride	mg/L	4.0	240	199
Fluoride	mg/L	0.40	--	--
Nitrogen, Nitrate	mg/L	0.25	2.0 e	2.1 a,e
Sulfate	mg/L	8.4	17.7 e	15.2
Major Cations				
Calcium	mg/L	8.2	--	--
Magnesium	mg/L	2.0	--	--
Potassium	mg/L	2.0	--	--
Sodium	mg/L	2.0	157	132 e
General				
Hardness	mg/L	26	--	--

Explanations of abbreviations are included on the final page of this table.

QAL067A (TDRSA-CWB)

Table 1
Mine Permit Groundwater Quality Monitoring Data
QAL068A (Background)
Eagle Mine

Parameter	Unit	Benchmark	Q4 2017 11/6/17 ^T	Q1 2018 02/13/18 ^T
Field				
D.O. ¹	ppm	--	13	11
ORP	mV	--	128	151
pH	SU	6.2-7.2	6.9	7.1
Specific Conductance	μS/cm @ 25°C	--	33	36
Temperature	°C	--	7.4	7.4
Turbidity	NTU	--	<1	<1
Water Elevation	ft MSL	--	1422.02	1422.85
Metals				
Aluminum	ug/L	200	--	--
Antimony	ug/L	5.5	--	--
Arsenic	ug/L	6.0	<2.0	<2.0
Barium	ug/L	80	--	--
Beryllium	ug/L	2.5	--	--
Boron	ug/L	400	<100 e	<100
Cadmium	ug/L	2.0	--	--
Chromium	ug/L	20	--	--
Cobalt	ug/L	40	--	--
Copper	ug/L	20	<5.0	<5.0
Iron	ug/L	80	<20	<20.0 e
Lead	ug/L	4.0	--	--
Lithium	ug/L	32	--	--
Manganese	ug/L	80	<20 e	<20.0 e
Mercury	ng/L	2.00	<0.500	<0.500
Molybdenum	ug/L	40	--	--
Nickel	ug/L	100	<25	<25.0
Selenium	ug/L	4.0	<1.0	<1.0
Silver	ug/L	0.80	--	--
Strontium	ug/L	200	--	--
Thallium	ug/L	2.0	--	--
Vanadium	ug/L	4.0	<1.0	<1.0
Zinc	ug/L	40	<10	<10.0
Major Anions				
Alkalinity, Bicarbonate	mg/L	35	15.6	14.6
Alkalinity, Carbonate	mg/L	8.0	<2.0	<2.0
Chloride	mg/L	4.0	<1.0	<1.0
Fluoride	mg/L	0.40	--	--
Nitrogen, Nitrate	mg/L	0.20	<0.050 e	<0.050 a,e
Sulfate	mg/L	8.0	<2.0 e	<2.0
Major Cations				
Calcium	mg/L	6.7	--	--
Magnesium	mg/L	2.0	--	--
Potassium	mg/L	2.0	--	--
Sodium	mg/L	2.0	0.69	0.71 e
General				
Hardness	mg/L	21	--	--

Explanations of abbreviations are included on the final page of this table.

QAL068A (Background)

Table 1
Mine Permit Groundwater Quality Monitoring Data
QAL068B (Background)
Eagle Mine

Parameter	Unit	Benchmark	Q4 2017 11/6/17 ^T	Q1 2018 02/13/18 ^T
Field				
D.O. ¹	ppm	--	12	11
ORP	mV	--	56	103
pH	SU	8.4-9.4	9.1	8.5
Specific Conductance	μS/cm @ 25°C	--	63	67
Temperature	°C	--	7.1	7.1
Turbidity	NTU	--	<1	<1
Water Elevation	ft MSL	--	1413.44	1412.64
Metals				
Aluminum	ug/L	200	--	--
Antimony	ug/L	5.5	--	--
Arsenic	ug/L	6.0	<2.0	<2.0
Barium	ug/L	80	--	--
Beryllium	ug/L	2.5	--	--
Boron	ug/L	400	<100 e	<100
Cadmium	ug/L	2.0	--	--
Chromium	ug/L	20	--	--
Cobalt	ug/L	40	--	--
Copper	ug/L	20	<5.0	<5.0
Iron	ug/L	184	<20	<20.0 e
Lead	ug/L	4.0	--	--
Lithium	ug/L	32	--	--
Manganese	ug/L	80	<20 e	<20.0 e
Mercury	ng/L	2.00	<0.500	<0.500
Molybdenum	ug/L	40	--	--
Nickel	ug/L	100	<25	<25.0
Selenium	ug/L	4.0	<1.0	<1.0
Silver	ug/L	0.80	--	--
Strontium	ug/L	200	--	--
Thallium	ug/L	2.0	--	--
Vanadium	ug/L	4.0	1.0	1.1
Zinc	ug/L	40	<10	<10.0
Major Anions				
Alkalinity, Bicarbonate	mg/L	30	30.9	28.6
Alkalinity, Carbonate	mg/L	9.9	<2.0	<2.0
Chloride	mg/L	4.0	<1.0	<1.0
Fluoride	mg/L	0.40	--	--
Nitrogen, Nitrate	mg/L	0.20	<0.050 e	0.052 a,e
Sulfate	mg/L	8.0	2.3 e	2.5
Major Cations				
Calcium	mg/L	9.4	--	--
Magnesium	mg/L	2.0	--	--
Potassium	mg/L	2.0	--	--
Sodium	mg/L	2.0	0.91	0.81 e
General				
Hardness	mg/L	31	--	--

Explanations of abbreviations are included on the final page of this table.

QAL068B (Background)

Table 1
Mine Permit Groundwater Quality Monitoring Data
QAL068D (Background)
Eagle Mine

Parameter	Unit	Benchmark	Q4 2017 11/6/17 ^T	Q1 2018 02/13/18 ^T
Field				
D.O. ¹	ppm	--	2.3	1.9
ORP	mV	--	24	40
pH	SU	8.0-9.0	8.2	8.8
Specific Conductance	μS/cm @ 25°C	--	123	131
Temperature	°C	--	7.4	5.3
Turbidity	NTU	--	<1	<1
Water Elevation	ft MSL	--	1413.49	1413.90
Metals				
Aluminum	ug/L	200	--	--
Antimony	ug/L	5.5	--	--
Arsenic	ug/L	7.2	4.8	5.0
Barium	ug/L	80	--	--
Beryllium	ug/L	2.5	--	--
Boron	ug/L	400	<100 e	<100
Cadmium	ug/L	2.0	--	--
Chromium	ug/L	20	--	--
Cobalt	ug/L	40	--	--
Copper	ug/L	20	<5.0	<5.0
Iron	ug/L	119	<20	<20.0 e
Lead	ug/L	4.0	--	--
Lithium	ug/L	32	--	--
Manganese	ug/L	80	<20 e	<20.0 e
Mercury	ng/L	2.12	<0.500	<0.500
Molybdenum	ug/L	40	--	--
Nickel	ug/L	100	<25	<25.0
Selenium	ug/L	4.0	<1.0	<1.0
Silver	ug/L	0.80	--	--
Strontium	ug/L	200	--	--
Thallium	ug/L	2.0	--	--
Vanadium	ug/L	4.0	2.0	2.4
Zinc	ug/L	40	<10	<10.0
Major Anions				
Alkalinity, Bicarbonate	mg/L	67	68.3	56.3
Alkalinity, Carbonate	mg/L	8.0	<2.0	<2.0
Chloride	mg/L	4.0	<1.0	<1.0
Fluoride	mg/L	0.40	--	--
Nitrogen, Nitrate	mg/L	0.21	<0.050 e	<0.050 a,e
Sulfate	mg/L	10	5.5 e	5.5
Major Cations				
Calcium	mg/L	16	--	--
Magnesium	mg/L	3.9	--	--
Potassium	mg/L	2.0	--	--
Sodium	mg/L	6.1	4.7	4.2 e
General				
Hardness	mg/L	52	--	--

Explanations of abbreviations are included on the final page of this table.

QAL068D (Background)

Table 1
Mine Permit Groundwater Quality Monitoring Data
QAL069A (Background)
Eagle Mine

Parameter	Unit	Benchmark	Q4 2017 11/6/17 ^T	Q1 2018 02/14/18 ^T
Field				
D.O. ¹	ppm	--	5.6	5.0
ORP	mV	--	-20	105
pH	SU	7.8-8.8	6.8	6.7
Specific Conductance	µS/cm @ 25°C	--	1181	728
Temperature	°C	--	8.2	8.1
Turbidity	NTU	--	<1	<1
Water Elevation	ft MSL	--	1383.07	1383.26
Metals				
Aluminum	ug/L	200	--	--
Antimony	ug/L	5.5	--	--
Arsenic	ug/L	6.0	<2.0	<2.0
Barium	ug/L	80	--	--
Beryllium	ug/L	2.5	--	--
Boron	ug/L	400	<100 e	<100
Cadmium	ug/L	2.0	--	--
Chromium	ug/L	20	--	--
Cobalt	ug/L	40	--	--
Copper	ug/L	20	<5.0	<5.0
Iron	ug/L	80	42.2 s	37.0 e
Lead	ug/L	4.0	--	--
Lithium	ug/L	32	--	--
Manganese	ug/L	80	<20 e	<20.0 e
Mercury	ng/L	2.00	7.65	2.25
Molybdenum	ug/L	40	--	--
Nickel	ug/L	100	<25	<25.0
Selenium	ug/L	4.0	<1.0	<1.0
Silver	ug/L	0.80	--	--
Strontium	ug/L	200	--	--
Thallium	ug/L	2.0	--	--
Vanadium	ug/L	4.0	<1.0	<1.0
Zinc	ug/L	40	<10	<10.0
Major Anions				
Alkalinity, Bicarbonate	mg/L	138	147	156
Alkalinity, Carbonate	mg/L	8.0	<2.0	<2.0
Chloride	mg/L	4.0	277	111
Fluoride	mg/L	0.40	--	--
Nitrogen, Nitrate	mg/L	0.57	0.76 e	0.87 a,e
Sulfate	mg/L	8.0	10.8 e	9.8
Major Cations				
Calcium	mg/L	35	--	--
Magnesium	mg/L	18	--	--
Potassium	mg/L	2.0	--	--
Sodium	mg/L	2.0	99.3	70.2 e
General				
Hardness	mg/L	162	--	--

Explanations of abbreviations are included on the final page of this table.

QAL069A (Background)

Table 1
Mine Permit Groundwater Quality Monitoring Data
QAL071A (TDRSA-CWB)
Eagle Mine

Parameter	Unit	Benchmark	Q4 2017 11/7/17 ^T	Q1 2018 02/12/18 ^T
Field				
D.O. ¹	ppm	--	11	9.5
ORP	mV	--	41	102
pH	SU	8.1-9.1	8.0	7.8
Specific Conductance	μS/cm @ 25°C	--	583	550
Temperature	°C	--	8.0	8.0
Turbidity	NTU	--	<1	<1
Water Elevation	ft MSL	--	1406.30	1405.66
Metals				
Aluminum	ug/L	200	--	--
Antimony	ug/L	5.5	--	--
Arsenic	ug/L	6.0	<2.0	<2.0
Barium	ug/L	80	--	--
Beryllium	ug/L	2.5	--	--
Boron	ug/L	400	<100 e	<100
Cadmium	ug/L	2.0	--	--
Chromium	ug/L	20	--	--
Cobalt	ug/L	40	--	--
Copper	ug/L	20	<5.0	<5.0
Iron	ug/L	178	<20	<20.0 e
Lead	ug/L	4.0	--	--
Lithium	ug/L	32	--	--
Manganese	ug/L	80	<20 e	<20.0 e
Mercury	ng/L	2.00	<0.500	<0.500
Molybdenum	ug/L	40	--	--
Nickel	ug/L	100	<25	<25.0
Selenium	ug/L	4.0	<1.0	<1.0
Silver	ug/L	0.80	--	--
Strontium	ug/L	200	--	--
Thallium	ug/L	2.0	--	--
Vanadium	ug/L	4.0	<1.0	<1.0
Zinc	ug/L	40	<10	<10.0
Major Anions				
Alkalinity, Bicarbonate	mg/L	44	147	140
Alkalinity, Carbonate	mg/L	8.0	<2.0	<2.0
Chloride	mg/L	4.0	23.2	17.2
Fluoride	mg/L	0.40	--	--
Nitrogen, Nitrate	mg/L	0.31	31.3 e	27.4 a,e
Sulfate	mg/L	8.0	8.6 e	6.6
Major Cations				
Calcium	mg/L	12	--	--
Magnesium	mg/L	2.0	--	--
Potassium	mg/L	2.0	--	--
Sodium	mg/L	2.0	17.3	14.0 e
General				
Hardness	mg/L	38	--	--

Explanations of abbreviations are included on the final page of this table.

QAL071A (TDRSA-CWB)

Table 1
Mine Permit Groundwater Quality Monitoring Data
QAL074A (Septic & WWTP)
Eagle Mine

Parameter	Unit	Benchmark	Q4 2017 11/7/17 ^T	Q1 2018 02/12/18 ^T
Field				
D.O. ¹	ppm	--	13	8.8
ORP	mV	--	35	55
pH	SU	8.4-9.4	8.6	8.7
Specific Conductance	μS/cm @ 25°C	--	272	304
Temperature	°C	--	4.4	6.4
Turbidity	NTU	--	<1	<1
Water Elevation	ft MSL	--	1405.41	1404.94
Metals				
Aluminum	ug/L	200	--	--
Antimony	ug/L	5.5	--	--
Arsenic	ug/L	6.0	<2.0	<2.0
Barium	ug/L	80	--	--
Beryllium	ug/L	2.5	--	--
Boron	ug/L	400	<100 e	<100
Cadmium	ug/L	2.0	--	--
Chromium	ug/L	20	--	--
Cobalt	ug/L	40	--	--
Copper	ug/L	20	<5.0	<5.0
Iron	ug/L	212	57.1 s	304 e
Lead	ug/L	4.0	--	--
Lithium	ug/L	32	--	--
Manganese	ug/L	80	<20 e	<20.0 e
Mercury	ng/L	2.00	1.14	<0.500
Molybdenum	ug/L	40	--	--
Nickel	ug/L	100	<25	33.9
Selenium	ug/L	4.0	<1.0	<1.0
Silver	ug/L	0.80	--	--
Strontium	ug/L	200	--	--
Thallium	ug/L	2.0	--	--
Vanadium	ug/L	4.0	<1.0	<1.0
Zinc	ug/L	40	<10	<10.0
Major Anions				
Alkalinity, Bicarbonate	mg/L	39	69.3	66.7
Alkalinity, Carbonate	mg/L	8.0	<2.0	<2.0
Chloride	mg/L	4.0	43.3	45.3
Fluoride	mg/L	0.40	--	--
Nitrogen, Nitrate	mg/L	0.43	0.96 e	1.0 a,e
Sulfate	mg/L	8.0	7.8 e	7.3
Major Cations				
Calcium	mg/L	31	--	--
Magnesium	mg/L	5.9	--	--
Potassium	mg/L	2.0	--	--
Sodium	mg/L	3.5	13.5	14.8
General				
Hardness	mg/L	103	--	--

Explanations of abbreviations are included on the final page of this table.

QAL074A (Septic & WWTP)

Table 1
Groundwater Quality Data
Mine Permit Monitoring
Explanation of Abbreviations and Data Qualifiers
Eagle Project

Abbreviation or Data Qualifier	Explanation
1	Many D.O. values are elevated due to well screen configuration and aquifer characteristics and the low-flow sampling method. Super-saturated DO values are rejected (see R data qualifier) as not being representative of true conditions.
a	Estimated value. Duplicate precision for this parameter exceeded quality control limit.
b	Estimated value. Sample received after EPA established hold time expired.
BP	Below pump. Maximum water elevation is shown.
CWB	Contact Water Basin
D	Sample for metal and major cation parameters was filtered and values are dissolved concentrations.
e	Estimated value. The laboratory statement of data qualifications indicates that a quality control limit for this parameter was exceeded.
f	Value should be considered an estimate because field stabilization was not achieved of at least one parameter.
i	Insufficient water for collection of field parameters and/or sample.
NM	Not measured.
p	Pending. Some parameters/locations require additional baseline data to calculate a benchmark.
Q	Quarter.
R	Measured value was rejected based on quality control procedures.
RL	Laboratory reporting limit.
s	Potential false positive value. Compound present in blank sample.
t	Trending. Benchmarks are not proposed for baseline datasets that appear to be trending (using samples collected through Q4 2012) because the data do not represent a random distribution about the baseline mean. Trend analysis is recommended in place of benchmark screening for parameters that appear to be trending.
T	Sample was not filtered and all values are total concentrations.
TDRSA	Temporary Development Rock Storage Area
UMB	Underground Mine Boundary
	Value is equal to or above site-specific benchmark at a compliance monitoring location. An exceedance occurs if there are 2 consecutive sampling events with a value equal to or greater than the benchmark. Color also indicates compliance monitoring location when applied to column headers.
	Value is equal to or above site-specific benchmark at a background monitoring location. Color also indicates background monitoring location when applied to column headers.

Table 1
Mine Permit Groundwater Quality Monitoring Data
QAL070A (NCWIB)
Eagle Mine

Parameter	Unit	Benchmark	Q2 2015 05/13/15 ^T	Q2 2016 05/17/16 ^T	Q2 2017 05/09/17 ^T
Field					
D.O. ¹	ppm	--	11	10	10
ORP	mV	--	167	55	182
pH	SU	8.3-9.3	8.6	8.5	8.2
Specific Conductance	µS/cm @ 25°C	--	188	440	524
Temperature	°C	--	9.0	9.0	8.2
Turbidity	NTU	--	<1	<1	<1
Water Elevation	ft MSL	--	1370.25	1369.67	1371.21
Metals					
Aluminum	ug/L	200	<50	<50	<50
Antimony	ug/L	5.5	<5.0	<5.0	<5.0
Arsenic	ug/L	6.0	<2.0	<2.0	<2.0
Barium	ug/L	80	<20	24	28
Beryllium	ug/L	2.5	<1.0	<1.0	<1.0
Boron	ug/L	400	<100	<100	<100 e
Cadmium	ug/L	2.0	<0.50	<0.50	<0.50
Chromium	ug/L	20	<5.0	<5.0	<5.0
Cobalt	ug/L	40	<10	<10	<10
Copper	ug/L	20	<5.0	<5.0	<5.0 e
Iron	ug/L	80	<20	75	<20
Lead	ug/L	4.0	<1.0	<1.0	<1.0
Lithium	ug/L	32	<8.0	<8.0	<8.0
Manganese	ug/L	80	<20	<20	<20
Mercury	ng/L	2.00	0.680 e,s	0.535	<0.500
Molybdenum	ug/L	40	<10	<10	<10
Nickel	ug/L	100	<25	<25	<25
Selenium	ug/L	4.0	<1.0	<1.0 e	<1.0
Silver	ug/L	0.80	<0.20	<0.20	<0.20
Strontium	ug/L	200	59	77	74
Thallium	ug/L	2.0	<2.0	<2.0	<2.0
Vanadium	ug/L	4.0	<2.0	<1.0	<1.0
Zinc	ug/L	40	<10	<10	<10 e
Major Anions					
Alkalinity, Bicarbonate	mg/L	42	40	45	56
Alkalinity, Carbonate	mg/L	8.0	<2.0 e	<2.0	<2.0
Chloride	mg/L	4.0	58	120	120 e
Fluoride	mg/L	0.40	<0.10	<0.10	<0.10
Nitrogen, Nitrate	mg/L	0.22	0.98 e	1.0	1.2 e
Sulfate	mg/L	8.0	3.5	4.3	6.7
Major Cations					
Calcium	mg/L	11	31	51 e	47
Magnesium	mg/L	3.0	6.4	9.7	9.9
Potassium	mg/L	2.0	1.2	1.8	2.0 e
Sodium	mg/L	2.0	5.5	19	40 e
General					
Hardness	mg/L	40	104	167	158

Explanations of abbreviations are included on the final page of this table.

QAL070A (NCWIB)

Table 1
Mine Permit Groundwater Quality Monitoring Data
QAL073A (NCWIB)
Eagle Mine

Parameter	Unit	Benchmark	Q2 2015 05/13/15 ^T	Q2 2016 05/17/16 ^T	Q2 2017 05/09/17 ^T
Field					
D.O. ¹	ppm	--	11	11	10
ORP	mV	--	167	102	210
pH	SU	6.1-7.1	6.8	6.7	6.5
Specific Conductance	µS/cm @ 25°C	--	160	207	217
Temperature	°C	--	10	10	8.1
Turbidity	NTU	--	<1	<1	<1
Water Elevation	ft MSL	--	1382.45	1381.68	1381.91
Metals					
Aluminum	ug/L	200	110	<50	<50
Antimony	ug/L	5.5	<5.0	<5.0	<5.0
Arsenic	ug/L	6.0	<2.0	<2.0	<2.0
Barium	ug/L	80	<20	<20	<20
Beryllium	ug/L	2.5	<1.0	<1.0	<1.0
Boron	ug/L	400	<100	<100	<100 e
Cadmium	ug/L	2.0	<0.50	<0.50	<0.50
Chromium	ug/L	20	<5.0	<5.0	<5.0
Cobalt	ug/L	40	<10	<10	<10
Copper	ug/L	20	<5.0	<5.0	<5.0 e
Iron	ug/L	132	130	74	<20
Lead	ug/L	4.0	<1.0	<1.0	<1.0
Lithium	ug/L	32	<8.0	<8.0	<8.0
Manganese	ug/L	80	<20	<20	<20
Mercury	ng/L	2.00	0.942 e	0.632	<0.500
Molybdenum	ug/L	40	<10	<10	<10
Nickel	ug/L	100	<25	<25	<25
Selenium	ug/L	4.0	<1.0	<1.0 e	<1.0
Silver	ug/L	0.80	<0.20	<0.20	<0.20
Strontium	ug/L	200	94	98	90
Thallium	ug/L	2.0	<2.0	<2.0	<2.0
Vanadium	ug/L	4.0	<2.0	<1.0	<1.0
Zinc	ug/L	40	<10	<10	<10 e
Major Anions					
Alkalinity, Bicarbonate	mg/L	44	97	100	100
Alkalinity, Carbonate	mg/L	8.0	<2.0 e	<2.0	<2.0
Chloride	mg/L	20	8.4	5.6	3.6 e
Fluoride	mg/L	0.40	<0.10	<0.10	<0.10
Nitrogen, Nitrate	mg/L	0.60	2.0 e	1.6	1.5 e
Sulfate	mg/L	8.0	7.9	9.4	9.2
Major Cations					
Calcium	mg/L	9.2	32	34 e	32
Magnesium	mg/L	2.5	7.0	7.5	7.1
Potassium	mg/L	2.0	1.3	1.3	1.4 e
Sodium	mg/L	2.0	1.8	2.8	3.0 e
General					
Hardness	mg/L	33	109	116	109

Explanations of abbreviations are included on the final page of this table.

QAL073A (NCWIB)