

**Table 1. 2019 Water Quality Results* -
La Plata River - Upper Sampling Point (SW-1)
May Day Idaho Mine Complex
Sunrise Mining, LLC**

All values in mg/L unless otherwise noted

Analyte	Date	Safe Drinking Water Act
	6/26/2019	MCL ⁽¹⁾ or SMCL ⁽²⁾
Field Measurements		
Temperature (°C)	4.8	
Conductivity (µS/cm)	74	
pH (S.U.)	7.01	6 - 8.5
Flow (cfs)**	237	
Lab Results		
Alkalinity, Bicarbonate	33	
Alkalinity, Carbonate	ND	
Alkalinity, Hydroxide	ND	
Alkalinity, Total	33	
Aluminum Dissolved by ICP	ND	0.05 to 0.2 ⁽²⁾
Ammonia	ND	TVS ⁽⁴⁾
Antimony Dissolved by ICPMS	ND	0.006 ⁽¹⁾
Arsenic 200.8 by ICPMS	ND	0.01 ⁽¹⁾
Arsenic Dissolved by ICPMS	ND	0.01 ⁽¹⁾
Barium Dissolved by ICPMS	0.0268	2 ⁽¹⁾
Beryllium Dissolved by ICPMS	ND	0.004 ⁽¹⁾
Boron 200.2 by ICP	ND	
Cadmium Dissolved by ICPMS	ND	0.005 ⁽¹⁾
Calcium Dissolved by ICP	12.4	
Chloride by IC	ND	250 ⁽²⁾
Chromium 200.8 by ICPMS	ND	0.1 ⁽¹⁾
Copper Dissolved by ICPMS	0.0056	1.3 ⁽¹⁾⁽³⁾ , 1.0 ⁽²⁾
Cyanide, WAD	ND	0.2 ⁽¹⁾
Fluoride by IC	0.151	4.0 ⁽¹⁾ , 2.0 ⁽²⁾
Hardness, dis	37.3	
Iron 200.2 by ICP	0.089	0.30 ⁽²⁾
Iron Dissolved by ICP	ND	0.30 ⁽²⁾
Lead 200.8 by ICPMS	ND	0.015 ⁽¹⁾⁽³⁾
Lead Dissolved by ICPMS	ND	0.015 ⁽¹⁾⁽³⁾
Magnesium Dissolved by ICP	1.56	0.05 ⁽²⁾
Manganese Dissolved by ICPMS	1.6	TVS ⁽⁴⁾ µg/L
Mercury Dissolved by CVAA	ND	0.002 ⁽¹⁾
Molybdenum Dissolved by ICPMS	0.0006	
Nickel Dissolved by ICPMS	ND	0.1 ⁽¹⁾
Nitrate as N by IC	0.104	10 ⁽¹⁾
Nitrate/Nitrite as N by IC Package	0.104	10 ⁽¹⁾
Nitrite as N by IC	ND	1 ⁽¹⁾
pH (Standard Units)	7.55	6 - 8.5
Selenium Dissolved by ICPMS	ND	0.05 ⁽¹⁾
Silver Dissolved by ICPMS	ND	0.10 ⁽²⁾
Solids, Total Dissolved (TDS)	45	500 ⁽²⁾
Solids, Total Suspended (TSS)	ND	
Sulfate by IC	7.98	250 ⁽²⁾
Thallium Dissolved by ICPMS	ND	0.002 ⁽¹⁾
Uranium Dissolved by ICPMS	ND	30 µg/L ⁽¹⁾
Zinc Dissolved by ICPMS	ND	TVS ⁽⁴⁾

Notes:

mg/L = milligrams per Liter
°C = degrees Celsius
µS/cm = microsiemens per centimeter
S.U. = standard units
mV = millivolts
cfs = cubic feet per second
µg/L = microgram per Liter
NA = not applicable
ND = not detected
TVS = table value standards

Footnotes:

* Single sample for Q1 and Q2 results per DRMS approval letter dated June 21, 2019.

** La Plata River flow taken from Hesperus Gage (LAPHESCO).

(1) SDWA NPDR MCL= Safe Drinking Water Act National Primary Drinking Water Regulations Maximum Contaminant Level. These are legally enforceable standards that apply to public drinking water systems. Primary standards protect public health by limiting the levels of contaminants in drinking water.

(2) SDWA NSDWR SMCL= Safe Drinking Water Act National Secondary Drinking water Regulations Secondary Maximum Contaminant Level. These are non-enforceable guidelines regulating contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects

(3) Treatments Technique (TT). A required process intended to reduce the level of a contaminants in drinking water. Lead and copper are regulated by a Treatment Technique that requires a system to control the corrosiveness of their water. If more than 10% of tap water samples exceed the Action

(4) 1002-31 - Regulation 31 - Colorado Water Quality Control Division, Tables III and IV.

**Table 2. 2019 Water Quality Results* -
La Plata River - Lower Sampling Point (SW-2)
May Day Idaho Mine Complex
Sunrise Mining, LLC**

All values in mg/L unless otherwise noted

Analyte	Date	Safe Drinking Water Act
	6/26/2019	MCL ⁽¹⁾ or SMCL ⁽²⁾
Field Measurements		
Temperature (°C)	4.9	
Conductivity (µS/cm)	83	
pH (S.U.)	7.17	6 - 8.5
Flow (cfs)**	237	
Lab Results		
Alkalinity, Bicarbonate	35.0	
Alkalinity, Carbonate	ND	
Alkalinity, Hydroxide	ND	
Alkalinity, Total	35	
Aluminum Dissolved by ICP	ND	0.05 to 0.2 ⁽²⁾
Ammonia	ND	TVS ⁽⁴⁾
Antimony Dissolved by ICPMS	ND	0.006 ⁽¹⁾
Arsenic 200.8 by ICPMS	ND	0.01 ⁽¹⁾
Arsenic Dissolved by ICPMS	ND	0.01 ⁽¹⁾
Barium Dissolved by ICPMS	0.0297	2 ⁽¹⁾
Beryllium Dissolved by ICPMS	ND	0.004 ⁽¹⁾
Boron 200.7 by ICP	ND	
Cadmium Dissolved by ICPMS	ND	0.005 ⁽¹⁾
Calcium Dissolved by ICP	13.5	
Chloride by IC	ND	250 ⁽²⁾
Chromium 200.8 by ICPMS	ND	0.1 ⁽¹⁾
Copper Dissolved by ICPMS	0.0051	1.3 ⁽¹⁾⁽³⁾ , 1.0 ⁽²⁾
Cyanide, WAD	ND	0.2 ⁽¹⁾
Fluoride by IC	0.163	4.0 ⁽¹⁾ , 2.0 ⁽²⁾
Hardness, dis	41	
Iron 200.7 by ICP	0.083	0.30 ⁽²⁾
Iron Dissolved by ICP	ND	0.30 ⁽²⁾
Lead 200.8 by ICPMS	ND	0.015 ⁽¹⁾⁽³⁾
Lead Dissolved by ICPMS	ND	0.015 ⁽¹⁾⁽³⁾
Magnesium Dissolved by ICP	1.74	0.05 ⁽²⁾
Manganese Dissolved by ICPMS	1.5	TVS ⁽⁴⁾ µg/L
Mercury Dissolved by CVAA	ND	0.002 ⁽¹⁾
Molybdenum Dissolved by ICPMS	0.0008	
Nickel Dissolved by ICPMS	ND	0.1 ⁽¹⁾
Nitrate as N by IC	0.096	10 ⁽¹⁾
Nitrate/Nitrite as N by IC Package	0.0956	10 ⁽¹⁾
Nitrite as N by IC	ND	1 ⁽¹⁾
pH (S.U.)	7.56	6 - 8.5
Selenium Dissolved by ICPMS	ND	0.05 ⁽¹⁾
Silver Dissolved by ICPMS	ND	0.10 ⁽²⁾
Solids, Total Dissolved (TDS)	50	
Solids, Total Suspended (TSS)	ND	
Sulfate by IC	8.85	250 ⁽²⁾
Thallium Dissolved by ICPMS	ND	0.002 ⁽¹⁾
Uranium Dissolved by ICPMS	0.1	30 µg/L ⁽¹⁾
Zinc Dissolved by ICPMS	0.002	TVS ⁽⁴⁾

Notes:

mg/L = milligrams per Liter
°C = degrees Celsius
µS/cm = microsiemens per centimeter
S.U. = standard units
mV = millivolts
cfs = cubic feet per second
µg/L = microgram per Liter
NA = not applicable
ND = not detected
TVS = table value standards

Footnotes:

* Single sample for Q1 and Q2 results per DRMS approval letter dated June 21, 2019.
** La Plata River flow taken from Hesperus Gage (LAPHESCO).
(1) SDWA NPDWR MCL= Safe Drinking Water Act National Primary Drinking Water Regulations Maximum Contaminant Level. These are legally enforceable standards that apply to public drinking water systems. Primary standards protect public health by limiting the levels of
(2) SDWA NSDWR SMCL= Safe Drinking Water Act National Secondary Drinking water Regulations Secondary Maximum Contaminant Level. These are non-enforceable guidelines regulating contaminants that may cause cosmetic effects (such as skin or tooth discoloration)
(3) Treatments Technique (TT). A required process intended to reduce the level of a contaminants in drinking water. Lead and copper are regulated by a Treatment Technique that requires a system to control the corrosiveness of their water. If more than 10% of tap water
(4) 1002-31 - Regulation 31 - Colorado Water Quality Control Division, Tables III and IV.

Table 3. 2019 Water Quality Results* - Beaver Pond (BP-1)
May Day Idaho Mine Complex
Sunrise Mining, LLC
All values in mg/L unless otherwise noted

Analyte	Date	Safe Drinking Water Act MCL ⁽¹⁾ or SMCL ⁽²⁾
	6/26/2019	
Field Measurements		
Temperature (°C)	7.1	
Conductivity (µS/cm)	147	
pH (S.U.)	6.85	6 - 8.5
Flow (cfs)	Pond	
Lab Results		
Alkalinity, Bicarbonate	50.0	
Alkalinity, Carbonate	ND	
Alkalinity, Hydroxide	ND	
Alkalinity, Total	50.0	
Aluminum Dissolved by ICP	ND	0.05 to 0.2 ⁽²⁾
Ammonia	ND	TVS ⁽⁴⁾
Antimony Dissolved by ICPMS	ND	0.006 ⁽¹⁾
Arsenic 200.8 by ICPMS	ND	0.01 ⁽¹⁾
Arsenic Dissolved by ICPMS	ND	0.01 ⁽¹⁾
Barium Dissolved by ICPMS	0.0431	2 ⁽¹⁾
Beryllium Dissolved by ICPMS	ND	0.004 ⁽¹⁾
Boron 200.7 by ICP	ND	
Cadmium Dissolved by ICPMS	ND	0.005 ⁽¹⁾
Calcium Dissolved by ICP	17.4	
Chloride by IC	ND	250 ⁽²⁾
Chromium 200.8 by ICPMS	ND	0.1 ⁽¹⁾
Copper Dissolved by ICPMS	0.0038	1.3 ⁽¹⁾⁽³⁾ , 1.0 ⁽²⁾
Cyanide, WAD	ND	0.2 ⁽¹⁾
Fluoride by IC	0.252	4.0 ⁽¹⁾ , 2.0 ⁽²⁾
Hardness, dis	55.1	
Iron 200.7 by ICP	ND	0.30 ⁽²⁾
Iron Dissolved by ICP	ND	0.30 ⁽²⁾
Lead 200.8 by ICPMS	ND	0.015 ⁽¹⁾⁽³⁾
Lead Dissolved by ICPMS	ND	0.015 ⁽¹⁾⁽³⁾
Magnesium Dissolved by ICP	2.82	0.05 ⁽²⁾
Manganese Dissolved by ICPMS	1.3	TVS ⁽⁴⁾ µg/L
Mercury Dissolved by CVAA	ND	0.002 ⁽¹⁾
Molybdenum Dissolved by ICPMS	0.0013	
Nickel Dissolved by ICPMS	ND	0.1 ⁽¹⁾
Nitrate as N by IC	0.051	10 ⁽¹⁾
Nitrate/Nitrite as N by IC Package	0.0512	10 ⁽¹⁾
Nitrite as N by IC	ND	1 ⁽¹⁾
pH (S.U.)	7.23	6 - 8.5
Selenium Dissolved by ICPMS	ND	0.05 ⁽¹⁾
Silver Dissolved by ICPMS	ND	0.10 ⁽²⁾
Solids, Total Dissolved (TDS)	40	
Solids, Total Suspended (TSS)	ND	
Sulfate by IC	11.2	250 ⁽²⁾
Thallium Dissolved by ICPMS	ND	0.002 ⁽¹⁾
Uranium Dissolved by ICPMS	0.2	30 µg/L ⁽¹⁾
Zinc Dissolved by ICPMS	ND	TVS ⁽⁴⁾

Notes:
mg/L = milligrams per Liter
°C = degrees Celsius
µS/cm = microsiemens per centimeter
S.U. = standard units
mV = millivolts
cfs = cubic feet per second
µg/L = microgram per Liter
NA = not applicable
ND = not detected
TVS = table value standards

Footnotes:
* Single sample for Q1 and Q2 results per DRMS approval letter dated June 21, 2019.
(1) SDWA NPDWR MCL= Safe Drinking Water Act National Primary Drinking Water Regulations Maximum Contaminant Level. These are legally enforceable standards that apply to public drinking water systems. Primary standards protect public health by limiting the levels of contaminants in
(2) SDWA NSDWR SMCL= Safe Drinking Water Act National Secondary Drinking water Regulations Secondary Maximum Contaminant Level. These are non-enforceable guidelines regulating contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or
(3) Treatments Technique (TT). A required process intended to reduce the level of a contaminants in drinking water. Lead and copper are regulated by a Treatment Technique that requires a system to control the corrosiveness of their water. If more than 10% of tap water samples exceed the
(4) 1002-31 - Regulation 31 - Colorado Water Quality Control Division, Tables III and IV.

**Table 4. 2019 Water Quality Results* -
Idaho Mill Spring (ID-SW)
May Day Idaho Mine Complex
Sunrise Mining, LLC**

All values in mg/L unless otherwise noted

Analyte	Date	Safe Drinking Water Act
	6/26/2019	MCL ⁽¹⁾ or SMCL ⁽²⁾
Field Measurements		
Temperature (°C)	6.6	
Conductivity (µS/cm)	190	
pH (S.U.)	7.78	6 - 8.5
Flow (cfs)	NA	
Lab Results		
Alkalinity, Bicarbonate	95	
Alkalinity, Carbonate	ND	
Alkalinity, Hydroxide	ND	
Alkalinity, Total	95	
Aluminum Dissolved by ICP	ND	0.05 to 0.2 ⁽²⁾
Ammonia	ND	TVS ⁽⁴⁾
Antimony Dissolved by ICPMS	ND	0.006 ⁽¹⁾
Arsenic 200.8 by ICPMS	ND	0.01 ⁽¹⁾
Arsenic Dissolved by ICPMS	0.0009	0.01 ⁽¹⁾
Barium Dissolved by ICPMS	0.0657	2 ⁽¹⁾
Beryllium Dissolved by ICPMS	ND	0.004 ⁽¹⁾
Boron 200.7 by ICP	ND	
Cadmium Dissolved by ICPMS	ND	0.005 ⁽¹⁾
Calcium Dissolved by ICP	28.4	
Chloride by IC	ND	250 ⁽²⁾
Chromium 200.8 by ICPMS	ND	0.1 ⁽¹⁾
Copper Dissolved by ICPMS	0.0007	1.3 ⁽¹⁾⁽³⁾ , 1.0 ⁽²⁾
Cyanide, WAD	ND	0.2 ⁽¹⁾
Fluoride by IC	ND	4.0 ⁽¹⁾ , 2.0 ⁽²⁾
Hardness, dis	103	
Iron 200.7 by ICP	ND	0.30 ⁽²⁾
Iron Dissolved by ICP	ND	0.30 ⁽²⁾
Lead 200.8 by ICPMS	0.008	0.015 ⁽¹⁾⁽³⁾
Lead Dissolved by ICPMS	ND	0.015 ⁽¹⁾⁽³⁾
Magnesium Dissolved by ICP	7.72	0.05 ⁽²⁾
Manganese Dissolved by ICPMS	ND	TVS ⁽⁴⁾ µg/L
Mercury Dissolved by CVAA	ND	0.002 ⁽¹⁾
Molybdenum Dissolved by ICPMS	ND	
Nickel Dissolved by ICPMS	0.0005	0.1 ⁽¹⁾
Nitrate as N by IC	0.097	10 ⁽¹⁾
Nitrate/Nitrite as N by IC Package	0.0972	10 ⁽¹⁾
Nitrite as N by IC	ND	1 ⁽¹⁾
pH (S.U.)	7.91	6 - 8.5
Selenium Dissolved by ICPMS	ND	0.05 ⁽¹⁾
Silver Dissolved by ICPMS	ND	0.10 ⁽²⁾
Solids, Total Dissolved (TDS)	75	
Solids, Total Suspended (TSS)	ND	
Sulfate by IC	15.5	250 ⁽²⁾
Thallium Dissolved by ICPMS	ND	0.002 ⁽¹⁾⁽⁴⁾
Uranium Dissolved by ICPMS	0.5	30 µg/L ⁽¹⁾
Zinc Dissolved by ICPMS	0.0115	TVS ⁽⁴⁾

Notes:

mg/L = milligrams per Liter
°C = degrees Celsius
µS/cm = microsiemens per centimeter
S.U. = standard units
mV = millivolts
cfs = cubic feet per second
µg/L = microgram per Liter
NA = not applicable
ND = not detected
TVS = table value standards

Footnotes:

* Single sample for Q1 and Q2 results per DRMS approval letter dated June 21, 2019.
(1) SDWA NPDWR MCL= Safe Drinking Water Act National Primary Drinking Water Regulations Maximum Contaminant Level. These are legally enforceable standards that apply to public drinking water systems. Primary standards protect public health by limiting the levels of
(2) SDWA NSDWR SMCL= Safe Drinking Water Act National Secondary Drinking water Regulations Secondary Maximum Contaminant Level. These are non-enforceable guidelines regulating contaminants that may cause cosmetic effects (such as skin or tooth discoloration)
(3) Treatments Technique (TT). A required process intended to reduce the level of a contaminants in drinking water. Lead and copper are regulated by a Treatment Technique that requires a system to control the corrosiveness of their water. If more than 10% of tap water
(4) 1002-31 - Regulation 31 - Colorado Water Quality Control Division, Tables III and IV.

**Table 5. 2019 Water Quality Results* -
Little Deadwood Gulch - Upper Station (LDG-1)
May Day Idaho Mine Complex
Sunrise Mining, LLC**

All values in mg/L unless otherwise noted

Analyte	Date	Safe Drinking Water Act
	6/26/2019	MCL ⁽¹⁾ or SMCL ⁽²⁾
Field Measurements		
Temperature (°C)	6.9	
Conductivity (µS/cm)	150	
pH (S.U.)	7.75	6 - 8.5
Flow (cfs)	≈1 - 2	
Lab Results		
Alkalinity, Bicarbonate	83	
Alkalinity, Carbonate	ND	
Alkalinity, Hydroxide	ND	
Alkalinity, Total	83	
Aluminum Dissolved by ICP	ND	0.05 to 0.2 ⁽²⁾
Ammonia	ND	TVS ⁽⁴⁾
Antimony Dissolved by ICPMS	ND	0.006 ⁽¹⁾
Arsenic 200.2 by ICPMS	ND	0.01 ⁽¹⁾
Arsenic Dissolved by ICPMS	ND	0.01 ⁽¹⁾
Barium Dissolved by ICPMS	0.0675	2 ⁽¹⁾
Beryllium Dissolved by ICPMS	ND	0.004 ⁽¹⁾
Boron 200.2 by ICP	ND	
Cadmium Dissolved by ICPMS	ND	0.005 ⁽¹⁾
Calcium Dissolved by ICP	23	
Chloride by IC	ND	250 ⁽²⁾
Chromium 200.2 by ICPMS	ND	0.1 ⁽¹⁾
Copper Dissolved by ICPMS	0.0002	1.3 ⁽¹⁾⁽³⁾ , 1.0 ⁽²⁾
Cyanide, WAD	ND	0.2 ⁽¹⁾
Fluoride by IC	ND	4.0 ⁽¹⁾ , 2.0 ⁽²⁾
Hardness, dis	78.9	
Iron 200.2 by ICP	ND	0.30 ⁽²⁾
Iron Dissolved by ICP	ND	0.30 ⁽²⁾
Lead 200.2 by ICPMS	ND	0.015 ⁽¹⁾⁽³⁾
Lead Dissolved by ICPMS	ND	0.015 ⁽¹⁾⁽³⁾
Magnesium Dissolved by ICP	5.2	0.05 ⁽²⁾
Manganese Dissolved by ICPMS	ND	TVS ⁽⁴⁾ µg/L
Mercury Dissolved by CVAA	ND	0.002 ⁽¹⁾
Molybdenum Dissolved by ICPMS	ND	
Nickel Dissolved by ICPMS	ND	0.1 ⁽¹⁾
Nitrate as N by IC	0.068	10 ⁽¹⁾
Nitrate/Nitrite as N by IC Package	0.0678	10 ⁽¹⁾
Nitrite as N by IC	ND	1 ⁽¹⁾
pH (S.U.)	7.99	6 - 8.5
Selenium Dissolved by ICPMS	ND	0.05 ⁽¹⁾
Silver Dissolved by ICPMS	ND	0.10 ⁽²⁾
Solids, Total Dissolved (TDS)	75.1	
Solids, Total Suspended (TSS)	ND	
Sulfate by IC	8.09	250 ⁽²⁾
Thallium Dissolved by ICPMS	ND	0.002 ⁽¹⁾
Uranium Dissolved by ICPMS	0.1	30 µg/L ⁽¹⁾
Zinc Dissolved by ICPMS	ND	TVS ⁽⁴⁾

Notes:

mg/L = milligrams per Liter
°C = degrees Celsius
µS/cm = microsiemens per centimeter
S.U. = standard units
mV = millivolts
cfs = cubic feet per second
µg/L = microgram per Liter
NA = not applicable
ND = not detected
TVS = table value standards

Footnotes:

* Single sample for Q1 and Q2 results per DRMS approval letter dated June 21, 2019.
(1) SDWA NPDWR MCL= Safe Drinking Water Act National Primary Drinking Water Regulations Maximum Contaminant Level. These are legally enforceable standards that apply to public drinking water systems. Primary standards protect public health by limiting the levels of contaminants in
(2) SDWA NSDWR SMCL= Safe Drinking Water Act National Secondary Drinking water Regulations Secondary Maximum Contaminant Level. These are non-enforceable guidelines regulating contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or
(3) Treatments Technique (TT). A required process intended to reduce the level of a contaminants in drinking water. Lead and copper are regulated by a Treatment Technique that requires a system to control the corrosiveness of their water. If more than 10% of tap water
(4) 1002-31 - Regulation 31 - Colorado Water Quality Control Division, Tables III and IV.

**Table 6. 2019 Water Quality Results* -
Little Deadwood Gulch - Lower Station (LDG-2)
May Day Idaho Mine Complex
Sunrise Mining, LLC**
All values in mg/L unless otherwise noted

Analyte	Date	Safe Drinking Water Act
	6/27/2019	MCL ⁽¹⁾ or SMCL ⁽²⁾
Field Measurements		
Temperature (°C)	8.1	
Conductivity (µS/cm)	173	
pH (S.U.)	7.83	6 - 8.5
Flow (cfs)	≈1 - 2	
Lab Results		
Alkalinity, Bicarbonate	92	
Alkalinity, Carbonate	ND	
Alkalinity, Hydroxide	ND	
Alkalinity, Total	92	
Aluminum Dissolved by ICP	ND	0.05 to 0.2 ⁽²⁾
Ammonia	ND	TVS ⁽⁴⁾
Antimony Dissolved by ICPMS	ND	0.006 ⁽¹⁾
Arsenic 200.2 by ICPMS	ND	0.01 ⁽¹⁾
Arsenic Dissolved by ICPMS	ND	0.01 ⁽¹⁾
Barium Dissolved by ICPMS	0.0737	2 ⁽¹⁾
Beryllium Dissolved by ICPMS	ND	0.004 ⁽¹⁾
Boron 200.2 by ICP	ND	
Cadmium Dissolved by ICPMS	ND	0.005 ⁽¹⁾
Calcium Dissolved by ICP	25.6	
Chloride by IC	ND	250 ⁽²⁾
Chromium 200.2 by ICPMS	ND	0.1 ⁽¹⁾
Copper Dissolved by ICPMS	0.0003	1.3 ⁽¹⁾⁽³⁾ , 1.0 ⁽²⁾
Cyanide, WAD	ND	0.2 ⁽¹⁾
Fluoride by IC	ND	4.0 ⁽¹⁾ , 2.0 ⁽²⁾
Hardness, dis	90.6	
Iron 200.2 by ICP	ND	0.30 ⁽²⁾
Iron Dissolved by ICP	ND	0.30 ⁽²⁾
Lead 200.2 by ICPMS	ND	0.015 ⁽¹⁾⁽³⁾
Lead Dissolved by ICPMS	ND	0.015 ⁽¹⁾⁽³⁾
Magnesium Dissolved by ICP	6.48	0.05 ⁽²⁾
Manganese Dissolved by ICPMS	ND	TVS ⁽⁴⁾ µg/L
Mercury Dissolved by CVAA	ND	0.002 ⁽¹⁾
Molybdenum Dissolved by ICPMS	ND	
Nickel Dissolved by ICPMS	0.0005	0.1 ⁽¹⁾
Nitrate as N by IC	0.031	10 ⁽¹⁾
Nitrate/Nitrite as N by IC Package	ND	10 ⁽¹⁾
Nitrite as N by IC	ND	1 ⁽¹⁾
pH (S.U.)	7.95	6 - 8.5
Selenium Dissolved by ICPMS	ND	0.05 ⁽¹⁾
Silver Dissolved by ICPMS	ND	0.10 ⁽²⁾
Solids, Total Dissolved (TDS)	65	
Solids, Total Suspended (TSS)	ND	
Sulfate by IC	10.7	250 ⁽²⁾
Thallium Dissolved by ICPMS	ND	0.002 ⁽¹⁾
Uranium Dissolved by ICPMS	0.1	30 µg/L ⁽¹⁾
Zinc Dissolved by ICPMS	ND	TVS ⁽⁴⁾

Notes:

mg/L = milligrams per Liter
°C = degrees Celsius
µS/cm = microsiemens per centimeter
S.U. = standard units
mV = millivolts
cfs = cubic feet per second
µg/L = microgram per Liter
NA = not applicable
ND = not detected
TVS = table value standards

Footnotes:

* Single sample for Q1 and Q2 results per DRMS approval letter dated June 21, 2019.
(1) SDWA NPDWR MCL= Safe Drinking Water Act National Primary Drinking Water Regulations Maximum Contaminant Level. These are legally enforceable standards that apply to public drinking water systems. Primary standards protect public health by limiting the levels of contaminants in
(2) SDWA NSDWR SMCL= Safe Drinking Water Act National Secondary Drinking water Regulations Secondary Maximum Contaminant Level. These are non-enforceable guidelines regulating contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or
(3) Treatments Technique (TT). A required process intended to reduce the level of a contaminants in drinking water. Lead and copper are regulated by a Treatment Technique that requires a system to control the corrosiveness of their water. If more than 10% of tap water samples exceed the
(4) 1002-31 - Regulation 31 - Colorado Water Quality Control Division, Tables III and IV.

**Table 7. 2019 Water Quality Results* -
May Day No. 1 Well (MD-1)
May Day Idaho Mine Complex
Sunrise Mining, LLC**
All values in mg/L unless otherwise noted

Analyte	Date	Safe Drinking Water Act
	6/27/2019	MCL ⁽¹⁾ or SMCL ⁽²⁾
Field Measurements		
Temperature (°C)	8.6	
Conductivity (µS/cm)	654	
pH (S.U.)	6.98	6 - 8.5
Static Water Level (feet)	140	
Lab Results		
Aluminum Dissolved by ICP	ND	0.05 to 0.2 ⁽²⁾
Antimony Dissolved by ICPMS	ND	0.006 ⁽¹⁾
Arsenic Dissolved by ICPMS	ND	0.01 ⁽¹⁾
Barium Dissolved by ICPMS	0.0263	2 ⁽¹⁾
Beryllium Dissolved by ICPMS	ND	0.004 ⁽¹⁾
Boron Dissolved by ICP	ND	
Cadmium Dissolved by ICPMS	ND	0.005 ⁽¹⁾
Chromium Dissolved by ICPMS	0.0034	0.1 ⁽¹⁾
Cobalt Dissolved by ICPMS	0.0002	
Copper Dissolved by ICPMS	0.0004	1.3 ⁽¹⁾⁽³⁾ , 1.0 ⁽²⁾
Cyanide, WAD	ND	0.2 ⁽¹⁾
Fluoride by IC	0.204	4.0 ⁽¹⁾ , 2.0 ⁽²⁾
Iron Dissolved by ICP	ND	0.30 ⁽²⁾
Lead Dissolved by ICPMS	ND	0.015 ⁽¹⁾⁽³⁾
Manganese Dissolved by ICPMS	89.7	TVS ⁽⁴⁾ µg/L
Mercury Dissolved by CVAA	ND	0.002 ⁽¹⁾
Molybdenum Dissolved by ICPMS	ND	
Nickel Dissolved by ICPMS	0.0018	0.1 ⁽¹⁾
Nitrate as N by IC	0.172	10 ⁽¹⁾
Nitrate/Nitrite as N by IC Package	0.172	10 ⁽¹⁾
Nitrite as N by IC	ND	1 ⁽¹⁾
pH (S.U)	7.32	6 - 8.5
Selenium Dissolved by ICPMS	ND	0.05 ⁽¹⁾
Silver Dissolved by ICPMS	ND	0.10 ⁽²⁾
Sodium Dissolved by ICP	2.07	
Solids, Total Dissolved (TDS)	430	
Sulfate by IC	115	250 ⁽²⁾
Thallium Dissolved by ICPMS	ND	0.002 ⁽¹⁾
Uranium Dissolved by ICPMS	0.7	30 µg/L ⁽¹⁾
Vanadium	ND	
Zinc Dissolved by ICPMS	0.0028	TVS ⁽⁴⁾

Notes:
mg/L = milligrams per Liter
°C = degrees Celsius
µS/cm = microsiemens per centimeter
S.U. = standard units
mV = millivolts
µg/L = microgram per Liter
NA = not applicable
ND = not detected
TVS = table value standards

Footnotes:
* Single sample for Q1 and Q2 results per DRMS approval letter dated June 21, 2019.
(1) SDWA NPDWR MCL= Safe Drinking Water Act National Primary Drinking Water Regulations Maximum Contaminant Level. These are legally enforceable standards that apply to public drinking water systems. Primary standards protect public health by limiting the levels of contaminants in
(2) SDWA NSDWR SMCL= Safe Drinking Water Act National Secondary Drinking water Regulations Secondary Maximum Contaminant Level. These are non-enforceable guidelines regulating contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or
(3) Treatments Technique (TT). A required process intended to reduce the level of a contaminants in drinking water. Lead and copper are regulated by a Treatment Technique that requires a system to control the corrosiveness of their water. If more than 10% of tap water samples exceed the Action
(4) 1002-31 - Regulation 31 - Colorado Water Quality Control Division, Tables III and IV.

**Table 8. 2019 Water Quality Results* -
May Day No. 2 Well (MD-2)
May Day Idaho Mine Complex
Sunrise Mining, LLC**
All values in mg/L unless otherwise noted

Analyte	Date	Safe Drinking Water Act MCL ⁽¹⁾ or SMCL ⁽²⁾
	6/26/2018	
Field Measurements		
Temperature (°C)	9.5	
Conductivity (µS/cm)	610	
pH (S.U.)	7.25	6 - 8.5
Static Water Level (feet)	53	
Lab Results		
Aluminum Dissolved by ICP	ND	0.05 to 0.2 ⁽²⁾
Antimony Dissolved by ICPMS	ND	0.006 ⁽¹⁾
Arsenic Dissolved by ICPMS	ND	0.01 ⁽¹⁾
Barium Dissolved by ICPMS	0.0512	2 ⁽¹⁾
Beryllium Dissolved by ICPMS	ND	0.004 ⁽¹⁾
Boron Dissolved by ICP	ND	
Cadmium Dissolved by ICPMS	ND	0.005 ⁽¹⁾
Chromium Dissolved by ICPMS	0.0032	0.1 ⁽¹⁾
Cobalt Dissolved by ICPMS	ND	
Copper Dissolved by ICPMS	0.0005	1.3 ⁽¹⁾⁽³⁾ , 1.0 ⁽²⁾
Cyanide, WAD	ND	0.2 ⁽¹⁾
Fluoride by IC	0.825	4.0 ⁽¹⁾ , 2.0 ⁽²⁾
Iron Dissolved by ICP	ND	0.30 ⁽²⁾
Lead Dissolved by ICPMS	ND	0.015 ⁽¹⁾⁽³⁾
Manganese Dissolved by ICPMS	55.0	TVS ⁽⁴⁾ µg/L
Mercury Dissolved by CVAA	ND	0.002 ⁽¹⁾
Molybdenum Dissolved by ICPMS	ND	
Nickel Dissolved by ICPMS	0.0010	0.1 ⁽¹⁾
Nitrate as N by IC	ND	10 ⁽¹⁾
Nitrate/Nitrite as N by IC Package	ND	10 ⁽¹⁾
Nitrite as N by IC	ND	1 ⁽¹⁾
pH (S.U.)	7.61	6 - 8.5
Selenium Dissolved by ICPMS	ND	0.05 ⁽¹⁾
Silver Dissolved by ICPMS	ND	0.10 ⁽²⁾
Sodium Dissolved by ICP	38.8	
Solids, Total Dissolved (TDS)	375	
Sulfate by IC	47.9	250 ⁽²⁾
Thallium Dissolved by ICPMS	ND	0.002 ⁽¹⁾
Uranium Dissolved by ICPMS	1.5	30 µg/L ⁽¹⁾
Vanadium	ND	
Zinc Dissolved by ICPMS	ND	TVS ⁽⁴⁾

Notes:
mg/L = milligrams per Liter
°C = degrees Celsius
µS/cm = microsiemens per centimeter
S.U. = standard units
mV = millivolts
µg/L = microgram per Liter
NA = not applicable
ND = not detected
TVS = table value standards

Footnotes:
* Single sample for Q1 and Q2 results per DRMS approval letter dated June 21, 2019.
(1) SDWA NPDR MCL= Safe Drinking Water Act National Primary Drinking Water Regulations Maximum Contaminant Level. These are legally enforceable standards that apply to public drinking water systems. Primary standards protect public health by limiting the levels of contaminants in
(2) SDWA NSDWR SMCL= Safe Drinking Water Act National Secondary Drinking water Regulations Secondary Maximum Contaminant Level. These are non-enforceable guidelines regulating contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects
(3) Treatments Technique (TT). A required process intended to reduce the level of a contaminants in drinking water. Lead and copper are regulated by a Treatment Technique that requires a system to control the corrosiveness of their water. If more than 10% of tap water samples exceed the Action
(4) 1002-31 - Regulation 31 - Colorado Water Quality Control Division, Tables III and IV.

**Table 9. 2019 Water Quality Results* -
La Plata River Alluvium Well (LP-1)
May Day Idaho Mine Complex
Sunrise Mining, LLC**
All values in mg/L unless otherwise noted

Analyte	Date	Safe Drinking Water Act MCL ⁽¹⁾ or SMCL ⁽²⁾
	6/26/2019	
Field Measurements		
Temperature (°C)	6.7	
Conductivity (µS/cm)	107	
pH (S.U.)	7.27	6 - 8.5
Static Water Level (feet)	6	
Lab Results		
Aluminum Dissolved by ICP	ND	0.05 to 0.2 ⁽²⁾
Antimony Dissolved by ICPMS	ND	0.006 ⁽¹⁾
Arsenic Dissolved by ICPMS	ND	0.01 ⁽¹⁾
Barium Dissolved by ICPMS	0.0372	2 ⁽¹⁾
Beryllium Dissolved by ICPMS	ND	0.004 ⁽¹⁾
Boron Dissolved by ICP	ND	
Cadmium Dissolved by ICPMS	ND	0.005 ⁽¹⁾
Chromium Dissolved by ICPMS	ND	0.1 ⁽¹⁾
Cobalt Dissolved by ICPMS	ND	
Copper Dissolved by ICPMS	0.0016	1.3 ⁽¹⁾⁽³⁾ , 1.0 ⁽²⁾
Cyanide, WAD	ND	0.2 ⁽¹⁾
Fluoride by IC	0.209	4.0 ⁽¹⁾ , 2.0 ⁽²⁾
Iron Dissolved by ICP	ND	0.30 ⁽²⁾
Lead Dissolved by ICPMS	ND	0.015 ⁽¹⁾⁽³⁾
Manganese Dissolved by ICPMS	8.8	TVS ⁽⁴⁾ µg/L
Mercury Dissolved by CVAA	ND	0.002 ⁽¹⁾
Molybdenum Dissolved by ICPMS	0.0007	
Nickel Dissolved by ICPMS	0.0006	0.1 ⁽¹⁾
Nitrate as N by IC	0.209	10 ⁽¹⁾
Nitrate/Nitrite as N by IC Package	0.0613	10 ⁽¹⁾
Nitrite as N by IC	ND	1 ⁽¹⁾
pH (S.U.)	7.34	6 - 8.5
Selenium Dissolved by ICPMS	ND	0.05 ⁽¹⁾
Silver Dissolved by ICPMS	ND	0.10 ⁽²⁾
Sodium Dissolved by ICP	1.03	
Solids, Total Dissolved (TDS)	45	
Sulfate by IC	11.3	250 ⁽²⁾
Thallium Dissolved by ICPMS	ND	0.002 ⁽¹⁾
Uranium Dissolved by ICPMS	ND	30 µg/L ⁽¹⁾
Vanadium	ND	
Zinc Dissolved by ICPMS	ND	TVS ⁽⁴⁾ µg/L

Notes:
mg/L = milligrams per Liter
°C = degrees Celsius
µS/cm = microsiemens per centimeter
S.U. = standard units
mV = millivolts
µg/L = microgram per Liter
NA = not applicable
ND = not detected
TVS = table value standards

Footnotes:
* Single sample for Q1 and Q2 results per DRMS approval letter dated June 21, 2019.
(1) SDWA NPDWR MCL= Safe Drinking Water Act National Primary Drinking Water Regulations Maximum Contaminant Level. These are legally enforceable standards that apply to public drinking water systems. Primary standards protect public health by limiting the levels of contaminants in
(2) SDWA NSDWR SMCL= Safe Drinking Water Act National Secondary Drinking water Regulations Secondary Maximum Contaminant Level. These are non-enforceable guidelines regulating contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic
(3) Treatments Technique (TT). A required process intended to reduce the level of a contaminants in drinking water. Lead and copper are regulated by a Treatment Technique that requires a system to control the corrosiveness of their water. If more than 10% of tap water samples exceed the Action
(4) 1002-31 - Regulation 31 - Colorado Water Quality Control Division, Tables III and IV.

Table 10. 2019 Water Quality Results* - Idaho Mill Well (ID-GW)
May Day Idaho Mine Complex
Sunrise Mining, LLC

All values in mg/L unless otherwise noted

Analyte	Date	Safe Drinking Water Act MCL ⁽¹⁾ or SMCL ⁽²⁾
	6/26/2019	
Field Measurements		
Temperature (°C)	7.1	
Conductivity (µS/cm)	272	
pH (S.U.)	8.02	6 - 8.5
Static Water Level (feet)	46	
Lab Results		
Aluminum Dissolved by ICP	ND	0.05 to 0.2 ⁽²⁾
Antimony Dissolved by ICPMS	ND	0.006 ⁽¹⁾
Arsenic Dissolved by ICPMS	0.0017	0.01 ⁽¹⁾
Barium Dissolved by ICPMS	0.0494	2 ⁽¹⁾
Beryllium Dissolved by ICPMS	ND	0.004 ⁽¹⁾
Boron Dissolved by ICP	ND	
Cadmium Dissolved by ICPMS	ND	0.005 ⁽¹⁾
Chromium Dissolved by ICPMS	0.0011	0.1 ⁽¹⁾
Cobalt Dissolved by ICPMS	ND	
Copper Dissolved by ICPMS	0.0006	1.3 ⁽¹⁾⁽³⁾ , 1.0 ⁽²⁾
Cyanide, WAD	ND	0.2 ⁽¹⁾
Fluoride by IC	0.102	4.0 ⁽¹⁾ , 2.0 ⁽²⁾
Iron Dissolved by ICP	ND	0.30 ⁽²⁾
Lead Dissolved by ICPMS	ND	0.015 ⁽¹⁾⁽³⁾
Manganese Dissolved by ICPMS	0.9	TVS ⁽⁴⁾ µg/L
Mercury Dissolved by CVAA	ND	0.002 ⁽¹⁾
Molybdenum Dissolved by ICPMS	ND	
Nickel Dissolved by ICPMS	0.0006	0.1 ⁽¹⁾
Nitrate as N by IC	0.150	10 ⁽¹⁾
Nitrate/Nitrite as N by IC Package	0.150	10 ⁽¹⁾
Nitrite as N by IC	ND	1 ⁽¹⁾
pH (S.U.)	9.19	6 - 8.5
Selenium Dissolved by ICPMS	ND	0.05 ⁽¹⁾
Silver Dissolved by ICPMS	ND	0.10 ⁽²⁾
Sodium Dissolved by ICP	3.08	
Solids, Total Dissolved (TDS)	165	
Sulfate by IC	16.7	250 ⁽²⁾
Thallium Dissolved by ICPMS	ND	0.002 ⁽¹⁾
Uranium Dissolved by ICPMS	0.0009	30 µg/L ⁽¹⁾
Vanadium	ND	
Zinc Dissolved by ICPMS	ND	TVS ⁽⁴⁾ µg/L

Notes:

mg/L = milligrams per Liter
°C = degrees Celsius
µS/cm = microsiemens per centimeter
S.U. = standard units
mV = millivolts
µg/L = microgram per Liter
NA = not applicable
ND = not detected
TVS = table value standards

Footnotes:

* Single sample for Q1 and Q2 results per DRMS approval letter dated June 21, 2019.
(1) SDWA NPDR MCL= Safe Drinking Water Act National Primary Drinking Water Regulations Maximum Contaminant Level. These are legally enforceable standards that apply to public drinking water systems. Primary standards protect public health by limiting the levels of contaminants in
(2) SDWA NSDWR SMCL= Safe Drinking Water Act National Secondary Drinking water Regulations Secondary Maximum Contaminant Level. These are non-enforceable guidelines regulating contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or in drinking water. Lead and copper are regulated by a Treatment Technique that requires a system to control the corrosiveness of their water. If more than 10% of tap water samples exceed the Action Level, water systems must take additional steps to treat the water.
(4) 1002-31 - Regulation 31 - Colorado Water Quality Control Division, Tables III and IV.