**Figure 1**

Total Aluminum, Animas River at Durango, CO: 2002-2016

- CDPHE Acute Standard for Aquatic Life (Total, variable)^
- CDPHE Chronic Standard for Aquatic Life, based on average hardness^
- Historic River Watch samples (2002-2014)
- Gold King Mine Plume samples (8/6/15 - 8/9/15)
- Post-Gold King Mine Plume samples (8/10/15 - 10/26/15)
- Samples with concentrations below Method Detection Limit
- Method Detection Limit (MDL)

^Colorado Department of Public Health and the Environment (CDPHE) standards based on Colorado surface water quality classifications and Reg. 31 and 34. Standards vary with water hardness and are plotted here using an average water hardness of the Animas River at this location, 208 mg/L.

Note: 2002-2014 data is River Watch data from the Animas River at the fish hatchery in Durango, CO. 2015 data is Mountain Studies Institute data from the Animas River at Rotary Park in Durango, CO.
Figure 2

Dissolved Aluminum, Animas River at Durango, CO: 2002-2016

* The recreational screening level represents the level at which no adverse health effects are expected to occur in humans consuming 2L of filtered water per day, from the Animas, orally, for 64 days each year for a total of 30 years.

Note: 2002 - 2014 data is River Watch data from the Animas River at the fish hatchery in Durango, CO. 2015 data is Mountain Studies Institute data from the Animas River at Rotary Park in Durango, CO.
Figure 3

Total Arsenic, Animas River at Durango, CO: 2002-2016

- CDPHE Agriculture Standard 30 Day Exposure (100 µg/L)
- Historic River Watch samples (2002-2014)
- Gold King Mine Plume samples (8/6/15 - 8/9/15)
- Post-Gold King Mine Plume samples (8/10/15 - 10/26/15)
- Samples with concentrations below Method Detection Limit
- Method Detection Limit (MDL)

~Colorado Department of Public Health and the Environment (CDPHE) standards based on Colorado surface water quality classifications and Reg. 31 and 34. Note: 2002 - 2014 data is River Watch data from the Animas River at the fish hatchery in Durango, CO. 2015 data is Mountain Studies Institute data from the Animas River at Rotary Park in Durango, CO.
Figure 4

Dissolved Arsenic, Animas River at Durango, CO: 2002-2016

- CDPHE Acute Standard for Aquatic Life (Dissolved, 340 μg/L)^*
- CDPHE Chronic Standard for Aquatic Life (Dissolved, 150 μg/L)^*
- EPA Surface Water Recreational Screening Level (50 μg/L)*
- Historic River Watch samples (2002-2014)
- Gold King Mine Plume samples (8/6/15 - 8/9/15)
- Post-Gold King Mine Plume samples (8/10/15 - 10/26/15)
- Samples with concentrations below Method Detection Limit

* The recreational screening level represents the level at which no adverse health effects are expected to occur in humans consuming 2L of filtered water per day, from the Animas, orally, for 64 days each year for a total of 30 years.

^ Colorado Department of Public Health and the Environment (CDPHE) standards based on Colorado surface water quality classifications and Reg. 31 and 34. Standards vary with water hardness and are plotted here using an average water hardness of the Animas River at this location, 208 mg/L.

2002 - 2014 data is River Watch data from the Animas River at the fish hatchery in Durango, CO. 2015 data is Mountain Studies Institute data from Rotary Park in Durango, CO.
Figure 5

Total Copper, Animas River at Durango, CO: 2002-2016

- CDPHE Agriculture Standard 30-Day Exposure (200 μg/L)
- CDPHE Domestic Water Supply Maximum Contaminant Level 30-Day Exposure (1,000 μg/L)
- Historic River Watch samples (2002-2014)
- Gold King Mine Plume samples (8/6/15 - 8/9/15)
- Post-Gold King Mine Plume samples (8/10/15 - 10/26/15)
- Samples with concentrations below Method Detection Limit
- Method Detection Limit (MDL)

~Colorado Department of Public Health and the Environment (CDPHE) standards based on Colorado surface water quality classifications and Reg. 31 and 34. Note: 2002 - 2014 data is River Watch data from the Animas River at the fish hatchery in Durango, CO. 2015 data is Mountain Studies Institute data from the Animas River at Rotary Park in Durango, CO.
Figure 6

Dissolved Copper, Animas River at Durango, CO: 2002-2016

- CDPHE Acute Standard for Aquatic Life, based on average hardness
- CDPHE Chronic Standard for Aquatic Life, based on average hardness
- EPA Surface Water Recreational Screening Level (6,700 μg/L)
- Historic River Watch samples (2002-2014)
- Gold King Mine Plume samples (8/6/15 - 8/9/15)
- Post-Gold King Mine Plume samples (8/10/15 - 10/26/15)
- Samples with concentrations below Method Detection Limit
- Method Detection Limit (MDL)

* The recreational screening level represents the level at which no adverse health effects are expected to occur in humans consuming 2L of filtered water per day, from the Animas, orally, for 64 days each year for a total of 30 years.

**Colorado Department of Public Health and Environment (CDPHE) standards based on Colorado surface water quality classifications and Regs. 31 and 34. Standards vary with water hardness and are plotted here using an average water hardness of the Animas River at this location, 208 mg/L.

2002 - 2014 data is River Watch data from the Animas River at the fish hatchery in Durango, CO. 2015 data is Mountain Studies Institute data from Rotary Park in Durango, CO.
Figure 7

Total Iron, Animas River at Durango, CO: 2002-2016

- CDPHE Chronic Standard for Aquatic Life (1,000 μg/L, Total)
- Historic River Watch samples (2002-2014)
- Gold King Mine Plume samples (8/6/15 - 8/9/15)
- Post-Gold King Mine Plume samples (8/10/15 - 10/26/15)
- Samples with concentrations below Method Detection Limit
- Method Detection Limit (MDL)

~Colorado Department of Public Health and the Environment (CDPHE) standards based on Colorado surface water quality classifications and Reg. 31 and 34. Note: 2002 - 2014 data is River Watch data from the Animas River at the fish hatchery in Durango, CO. 2015 data is Mountain Studies Institute data from the Animas River at Rotary Park in Durango, CO.
Figure 8

Dissolved Iron, Animas River at Durango, CO: 2002-2016

- **EPA Surface Water Recreational Screening Level (120,000 µg/L)**
- **CDPHE Domestic Water Supply Maximum Contaminant Level 30-Day Exposure (300 µg/L, Dissolved)**
- **Historic River Watch samples (2002-2014)**
- **Gold King Mine Plume samples (8/6/15 - 8/9/15)**
- **Post-Gold King Mine Plume samples (8/10/15 - 10/26/15)**
- **Samples with concentrations below Method Detection Limit**
- **Method Detection Limit (MDL)**

*The recreational screening level represents the level at which no adverse health effects are expected to occur in humans consuming 2L of filtered water per day, from the Animas, orally, for 64 days each year for a total of 30 years.

Note: 2002 - 2014 data is River Watch data from the Animas River at the fish hatchery in Durango, CO. 2015 data is Mountain Studies Institute data from the Animas River at Rotary Park in Durango, CO.
Figure 9
Total Lead, Animas River at Durango, CO: 2002-2016

- CDPHE Agriculture Standard 30-Day Exposure (100 µg/L)
- CDPHE Domestic Water Supply Maximum Contaminant Level 1-Day Exposure (50 µg/L)
- Historic River Watch samples (2002-2014)
- Gold King Mine Plume samples (8/6/15 - 8/9/15)
- Post-Gold King Mine Plume samples (8/10/15 - 10/26/15)
- Samples with concentrations below Method Detection Limit
- Method Detection Limit (MDL)

~Colorado Department of Public Health and the Environment (CDPHE) standards based on Colorado surface water quality classifications and Reg. 31 and 34.
Note: 2002 - 2014 data is River Watch data from the Animas River at the fish hatchery in Durango, CO. 2015 data is Mountain Studies Institute data from the Animas River at Rotary Park in Durango, CO.
**Figure 10**

Dissolved Lead, Animas River at Durango, CO: 2002-2016

- **EPA Surface Water Recreational Screening Level (200 µg/L)*
- **CDPHE Acute Standard for Aquatic Life, based on average hardness**
- **CDPHE Chronic Standard for Aquatic Life, based on average hardness**
- Historic River Watch samples (2002-2014)
- Gold King Mine Plume samples (8/6/15 - 8/9/15)
- Post-Gold King Mine Plume samples (8/10/15 - 10/26/15)
- Samples with concentrations below Method Detection Limit
- Method Detection Limit (MDL)

* The recreational screening level represents the level at which no adverse health effects are expected to occur in humans consuming 2L of filtered water per day, from the Animas, orally, for 64 days each year for a total of 30 years.

**Colorado Department of Public Health and the Environment (CDPHE) standards based on Colorado surface water quality classifications and Reg. 31 and 34. Standards vary with water hardness and are plotted here using an average water hardness of the Animas River at this location, 208 mg/L.

2002-2014 data is River Watch data from the Animas River at the fish hatchery in Durango, CO. 2015 data is Mountain Studies Institute data from Rotary Park in Durango, CO.
Figure 11

Total Manganese, Animas River at Durango, CO: 2002-2016

- CDPHE Agriculture Standard 30-Day Exposure (200 μg/L)~
- Historic River Watch samples
- Gold King Mine Plume samples (8/6/15 - 8/9/15)
- Post-Gold King Mine Plume samples (8/10/15 - 10/26/15)
- Samples with concentrations below Method Detection Limit
- Method Detection Limit (MDL)

~Colorado Department of Public Health and the Environment (CDPHE) standards based on Colorado surface water quality classifications and Reg. 31 and 34. Note: 2002 - 2014 data is River Watch data from the Animas River at the fish hatchery in Durango, CO. 2015 data is Mountain Studies Institute data from the Animas River at Rotary Park in Durango, CO.
Figure 12
Dissolved Manganese, Animas River at Durango, CO: 2002-2016

- EPA Surface Water Recreational Screening Level (7,800 µg/L)
- CDPHE Acute Standard for Aquatic Life, based on average hardness
- CDPHE Chronic Standard for Aquatic Life, based on average hardness
- CDPHE Domestic Water Supply Maximum Contaminant Level 30-Day Exposure (50 µg/L, dissolved)
- Historic River Watch samples
- Gold King Mine Plume samples (8/6/15 - 8/9/15)
- Post-Gold King Mine Plume samples (8/10/15 - 10/26/15)
- Samples with concentrations below Method Detection Limit
- Method Detection Limit (MDL)

* The recreational screening level represents the level at which no adverse health effects are expected to occur in humans consuming 2L of filtered water per day, from the Animas, orally, for 64 days each year for a total of 30 years.

**Colorado Department of Public Health and the Environment (CDPHE) standards based on Colorado surface water quality classifications and Reg. 31 and 34. Standards vary with water hardness and are plotted here using an average water hardness of the Animas River at this location, 208 mg/L."

2002 - 2014 data is River Watch data from the Animas River at the fish hatchery in Durango, CO. 2015 data is Mountain Studies Institute data from Rotary Park in Durango, CO.
Figure 13

Total Selenium, Animas River at Durango, CO: 2002-2016

- CDPHE Agriculture Standard 30 Day Exposure (20 µg/L)
- CDPHE Domestic Water Supply Maximum Contaminant Level 30-Day Exposure (50 µg/L)
- Historic River Watch samples (2002-2014)
- Gold King Mine Plume samples (8/6/15 - 8/9/15)
- Post-Gold King Mine Plume samples (8/10/15 - 10/26/15)
- Samples with concentrations below Method Detection Limit
- Method Detection Limit (MDL)

*Colorado Department of Public Health and the Environment (CDPHE) standards based on Colorado surface water quality classifications and Reg. 31 and 34. Note: 2002 - 2014 data is River Watch data from the Animas River at the fish hatchery in Durango, CO. 2015 data is Mountain Studies Institute data from the Animas River at Rotary Park in Durango, CO.*
Dissolved Selenium, Animas River at Durango, CO: 2002-2016

- **CDPHE Acute Standard for Aquatic Life (Dissolved, 18.4 µg/L)**
- **CDPHE Chronic Standard for Aquatic Life (Dissolved, 4.6 µg/L)**
- **EPA Surface Water Recreational Screening Level (830 µg/L)**
- **Historic River Watch samples (2002-2014)**
- **Gold King Mine Plume samples (8/6/15 - 8/9/15)**
- **Post-Gold King Mine Plume samples (8/10/15 - 10/26/15)**
- **Samples with concentrations below Method Detection Limit**
- **Method Detection Limit (MDL)**

* The recreational screening level represents the level at which no adverse health effects are expected to occur in humans consuming 2L of filtered water per day, from the Animas, orally, for 64 days each year for a total of 30 years.

*Colorado Department of Public Health and the Environment (CDPHE) standards based on Colorado surface water quality classifications and Reg. 31 and 34. Standards vary with water hardness and are plotted here using an average water hardness of the Animas River at this location, 208 mg/L.

2002 - 2014 data is River Watch data from the Animas River at the fish hatchery in Durango, CO. 2015 data is Mountain Studies Institute data from Rotary Park in Durango, CO.
Figure 15

Total Zinc, Animas River at Durango, CO: 2002-2016

- CDPHE Agriculture Standard 30-Day Exposure (2,000 µg/L)
- CDPHE Domestic Water Supply Maximum Contaminant Level 30-Day Exposure (5,000 µg/L)
- Historic River Watch samples (2002-2014)
- Gold King Mine Plume samples (8/6/15 - 8/9/15)
- Post-Gold King Mine Plume samples (8/10/15 - 10/26/15)
- Samples with concentrations below Method Detection Limit
- Method Detection Limit (MDL)

~Colorado Department of Public Health and the Environment (CDPHE) standards based on Colorado surface water quality classifications and Reg. 31 and 34. Note: 2002 - 2014 data is River Watch data from the Animas River at the fish hatchery in Durango, CO. 2015 data is Mountain Studies Institute data from the Animas River at Rotary Park in Durango, CO.
Figure 16

Dissolved Zinc, Animas River at Durango, CO: 2002-2016

- **CDPHE Acute Standard for Aquatic Life**, based on average hardness
- **CDPHE Chronic Standard for Aquatic Life**, based on average hardness
- **EPA Surface Water Recreational Screening Level (50,000 µg/L)**
- **Historic River Watch samples (2002-2014)**
- **Gold King Mine Plume samples (8/6/15 - 8/9/15)**
- **Post-Gold King Mine Plume samples (8/10/15 - 10/26/15)**
- **Samples with concentrations below Method Detection Limit**
- **Method Detection Limit (MDL)**

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*The recreational screening level represents the level at which no adverse health effects are expected to occur in humans consuming 2L of filtered water per day, from the Animas, orally, for 64 days each year for a total of 30 years.*

*~Colorado Department of Public Health and the Environment (CDPHE) standards based on Colorado surface water quality classifications and Reg. 31 and 54. Standards vary with water hardness and are plotted here using an average water hardness of the Animas River at this location, 208 mg/L. 2002 - 2014 data is River Watch data from the Animas River at the fish hatchery in Durango, CO. 2015 data is Mountain Studies Institute data from Rotary Park in Durango, CO.*