PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Gold King Mine	Silverton, San Juan County, Colorado	0001/1408-01

Photo No.	Date:	
1	08/04/2015	

Direction Photo Taken:

North

Description:
Beginning investigation into collapsed adit.

Photo No.	Date:	
2	08/04/2015	

Direction Photo Taken:

North

Description:
Excavated next to DRMS-installed culvert, water muddy from soil disturbance.

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Gold King Mine	Silverton, San Juan County, Colorado	0001/1408-01

Photo No.	Date:
3	08/04/2015

Direction Photo Taken:

Down

Description:
Seepage from soil next to piping.

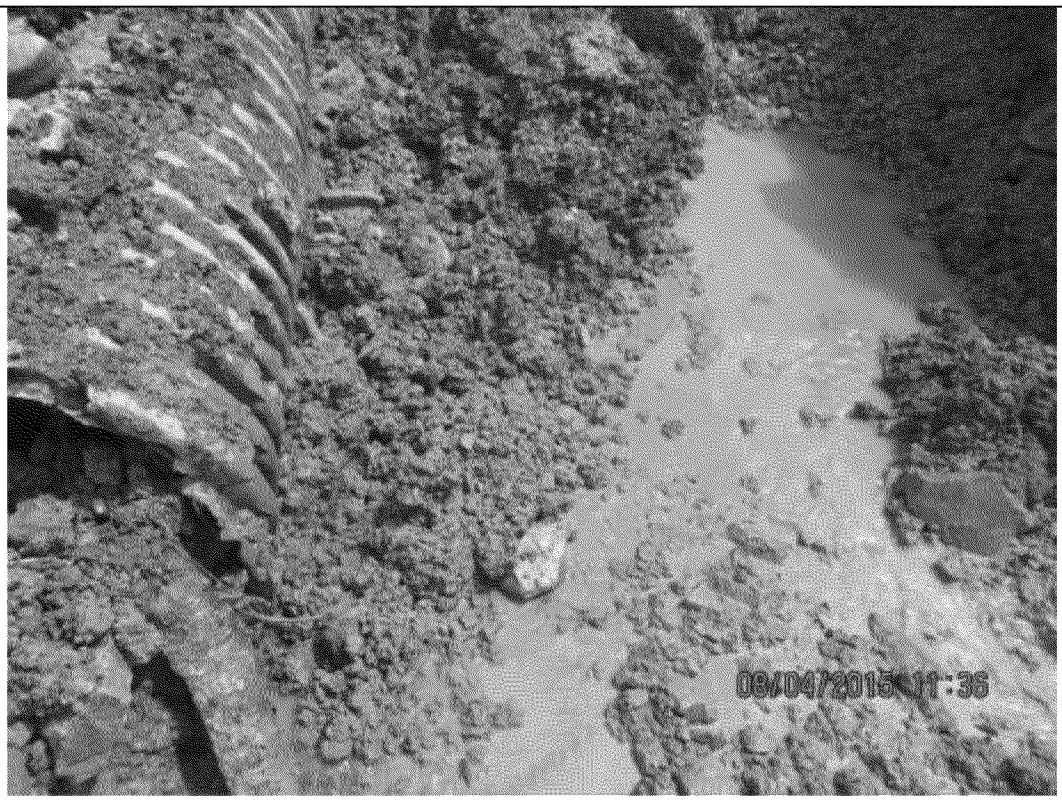


Photo No.	Date:
4	08/04/2015

Direction Photo Taken:

Down

Description:
Seepage next to the pipe is clear until entering disturbed soil.

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Gold King Mine	Silverton, San Juan County, Colorado	0001/1408-01

Photo No.	Date:
5	08/04/2015

Direction Photo Taken:

North

Description:

DRMS looking at adit excavation progress.

Photo No.	Date:
6	08/04/2015

Direction Photo Taken:

West

Description:

Water minimally murky from disturbed soil and water entering the North Fork from site.

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Gold King Mine	Silverton, San Juan County, Colorado	0001/1408-01

Photo No.	Date:	
7	08/04/2015	

Direction Photo Taken:

South/Down

Description:
Hay bales installed as filter for sediment in North Fork.

Photo No.	Date:	
8	08/04/2015	

Direction Photo Taken:

Northwest

Description:
Continuing excavation at the collapsed adit, no solid bedrock found for tunnel support.

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Gold King Mine	Silverton, San Juan County, Colorado	0001/1408-01

Photo No.	Date:
9	08/04/2015

Direction Photo Taken:

Northeast

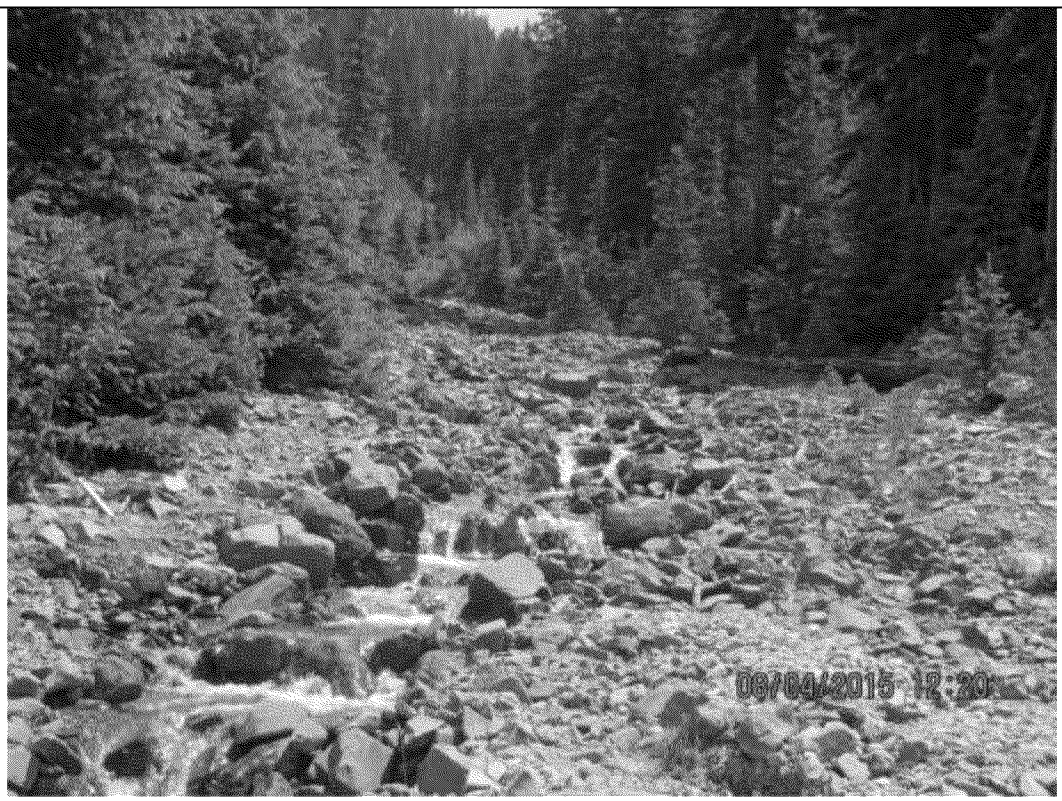
Description:
First signs of adit, support pillar with lagging.

Photo No.	Date:
10	08/04/2015

Direction Photo Taken:

East

Description:
Water of the North Fork just upstream of Cement Creek.



PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Gold King Mine	Silverton, San Juan County, Colorado	0001/1408-01

Photo No.	Date:	
11	08/04/2015	

Direction Photo Taken:

East

Description:
Water of the North Fork just upstream of Cement Creek.

Photo No.	Date:	
12	08/04/2015	

Direction Photo Taken:

North

Description:

Collapsed supports uncovered above anticipated adit, no sign of bedrock above the adit area.

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Gold King Mine	Silverton, San Juan County, Colorado	0001/1408-01

Photo No.	Date:
13	08/05/2015

Direction Photo Taken:

North

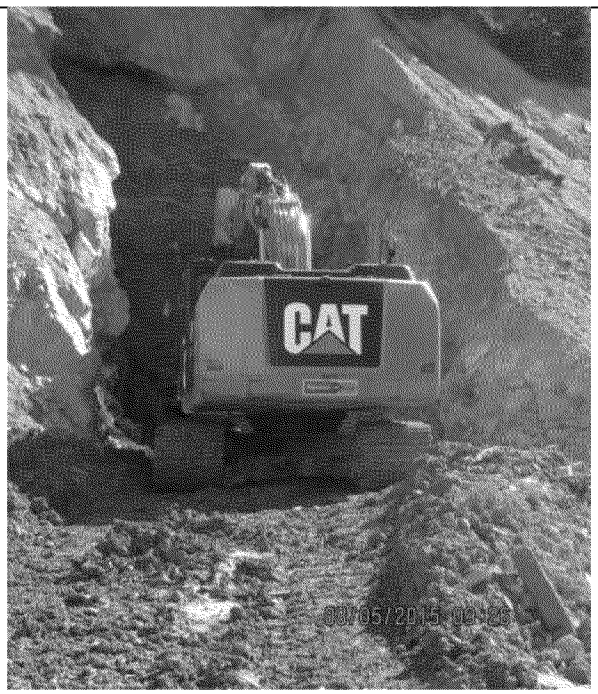
Description:
Adit conditions the morning of 8/5.

Photo No.	Date:
14	08/05/2015

Direction Photo Taken:

Northeast

Description:
Excavating material above the collapsed adit.



PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Gold King Mine	Silverton, San Juan County, Colorado	0001/1408-01

Photo No.	Date:	
15	08/05/2015	

Direction Photo Taken:

North

Description:
Bedrock found above the anticipated adit.

Photo No.	Date:	
16	08/05/2015	

Direction Photo Taken:

North

Description:
Cleaning out excavated material, small leak.

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Gold King Mine	Silverton, San Juan County, Colorado	0001/1408-01

Photo No.	Date:	
17	08/05/2015	

Direction Photo Taken:

North

Description:
Small leak close up.

Photo No.	Date:	
18	08/05/2015	

Direction Photo Taken:

North

Description:
Hole starting to give way to flow.

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Gold King Mine	Silverton, San Juan County, Colorado	0001/1408-01

Photo No.	Date:	
19	08/05/2015	

Direction Photo Taken:

Northeast

Description:

Adit flow increasing.

Photo No.	Date:	
20	08/05/2015	

Direction Photo Taken:

Northeast

Description:
Water flooding out at increased rate.

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Gold King Mine	Silverton, San Juan County, Colorado	0001/1408-01

Photo No.	Date:
21	08/05/2015

Direction Photo Taken:

West

Description:
Water flowing along access road and across waste dump.

Photo No.	Date:
22	08/05/2015

Direction Photo Taken:

Southeast

Description:
Water flowing over the edge of the waste dump and collapsing the edge.

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Gold King Mine	Silverton, San Juan County, Colorado	0001/1408-01

Photo No.	Date:	
23	08/05/2015	

Direction Photo Taken:

Southwest

Description:
Exit route starting to collapse

Photo No.	Date:	
24	08/05/2015	

Direction Photo Taken:

Southeast/Down

Description:
Edge of the tailings dump collapsed, suburban trapped and half submerged in center of photo.

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Gold King Mine	Silverton, San Juan County, Colorado	0001/1408-01

Photo No.	Date:
25	08/05/2015

Direction Photo Taken:

Northeast

Description:
Gold King adit exposed.

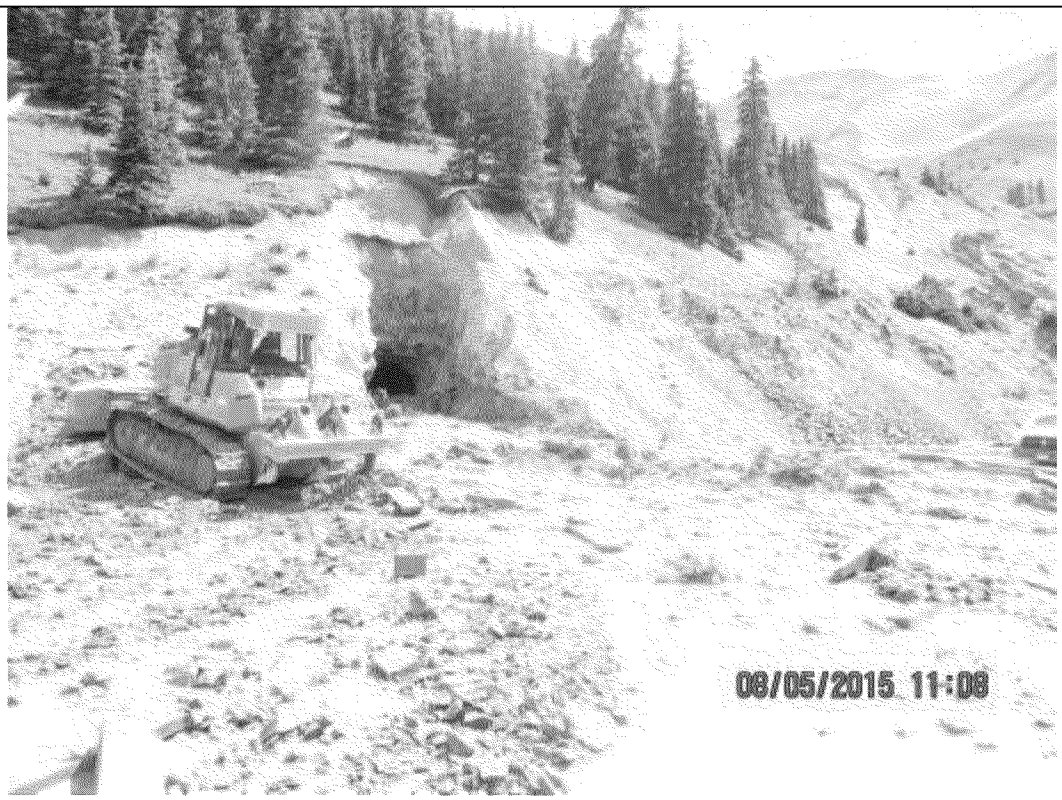


Photo No.	Date:
26	08/05/2015

Direction Photo Taken:

Southeast

Description:

Water flow washing out the existing road. Note Suburban in left side of photo.

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Gold King Mine	Silverton, San Juan County, Colorado	0001/1408-01

Photo No.	Date:
27	08/05/2015

Direction Photo Taken:

North

Description:
Exposed adit, roughly 10 feet wide by 15 feet high.

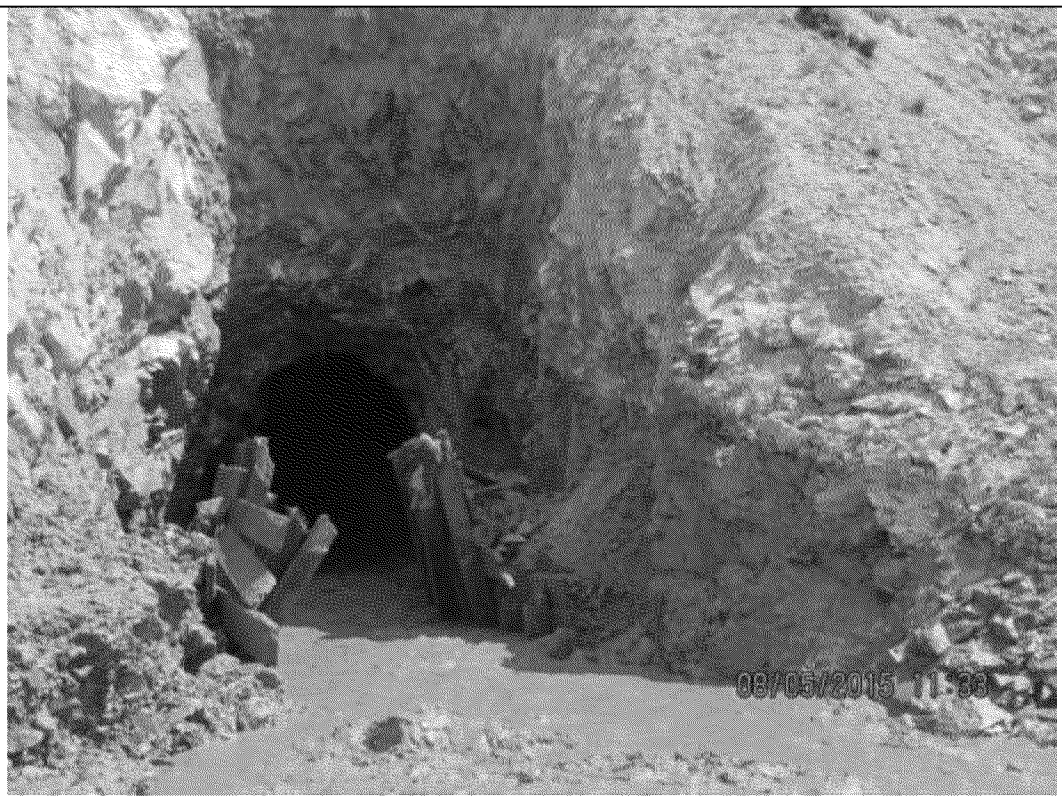


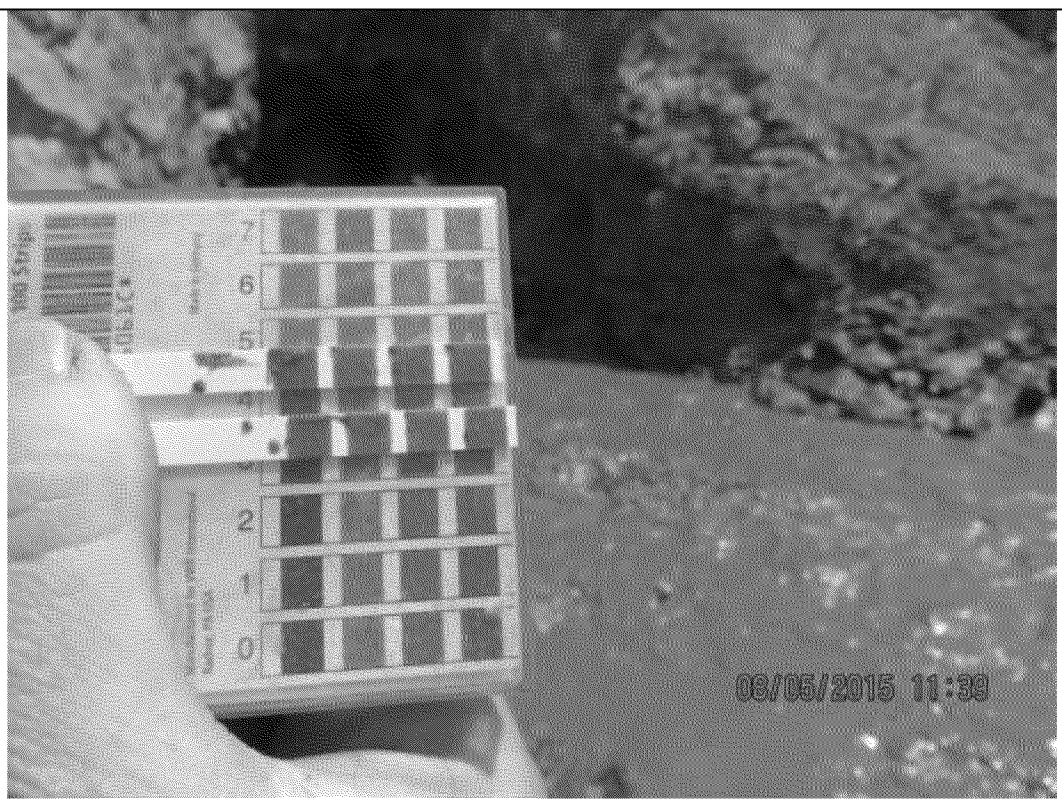
Photo No.	Date:
28	08/05/2015

Direction Photo Taken:

North

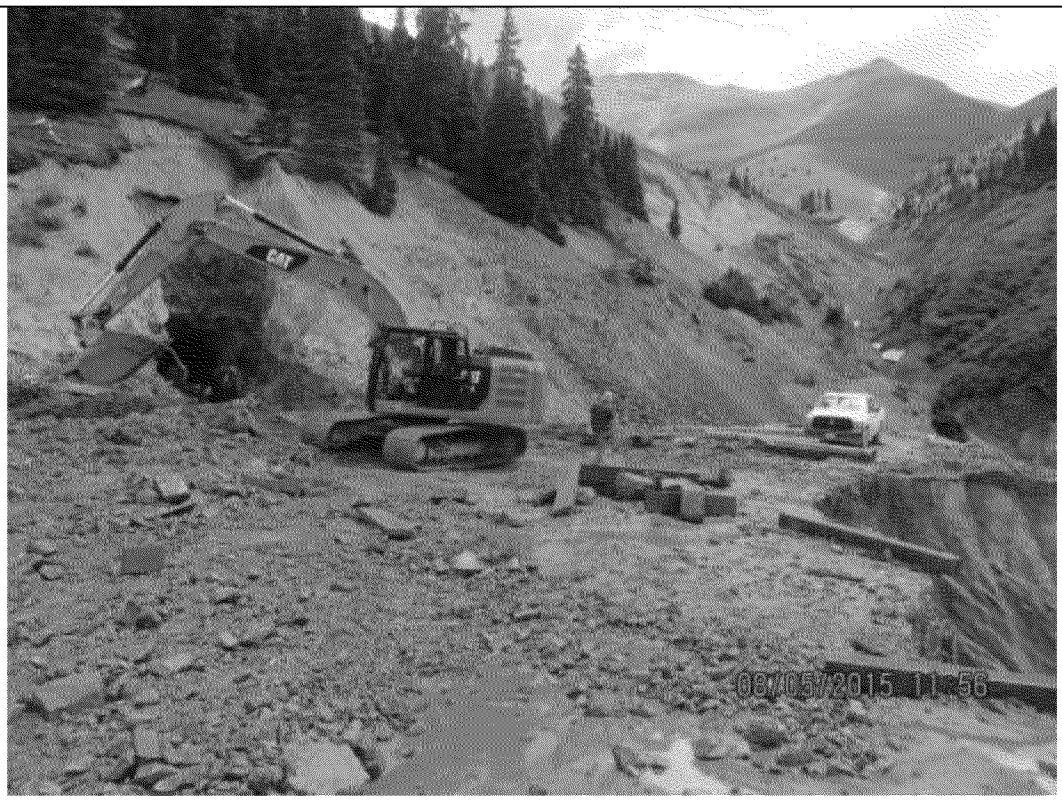
Description:

pH of discharge water is approximately 4 to 4.5.



PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Gold King Mine	Silverton, San Juan County, Colorado	0001/1408-01

Photo No.	Date:	
29	08/05/2015	

Direction Photo Taken:

Northeast

Description:
Excavator redirecting water into existing half-pipe channel.

Photo No.	Date:	
30	08/05/2015	

Direction Photo Taken:

Southeast/Down

Description:
Collapsed portion of waste dump and road wash out.

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Gold King Mine	Silverton, San Juan County, Colorado	0001/1408-01

Photo No.	Date:
31	08/05/2015

Direction Photo Taken:

Northeast

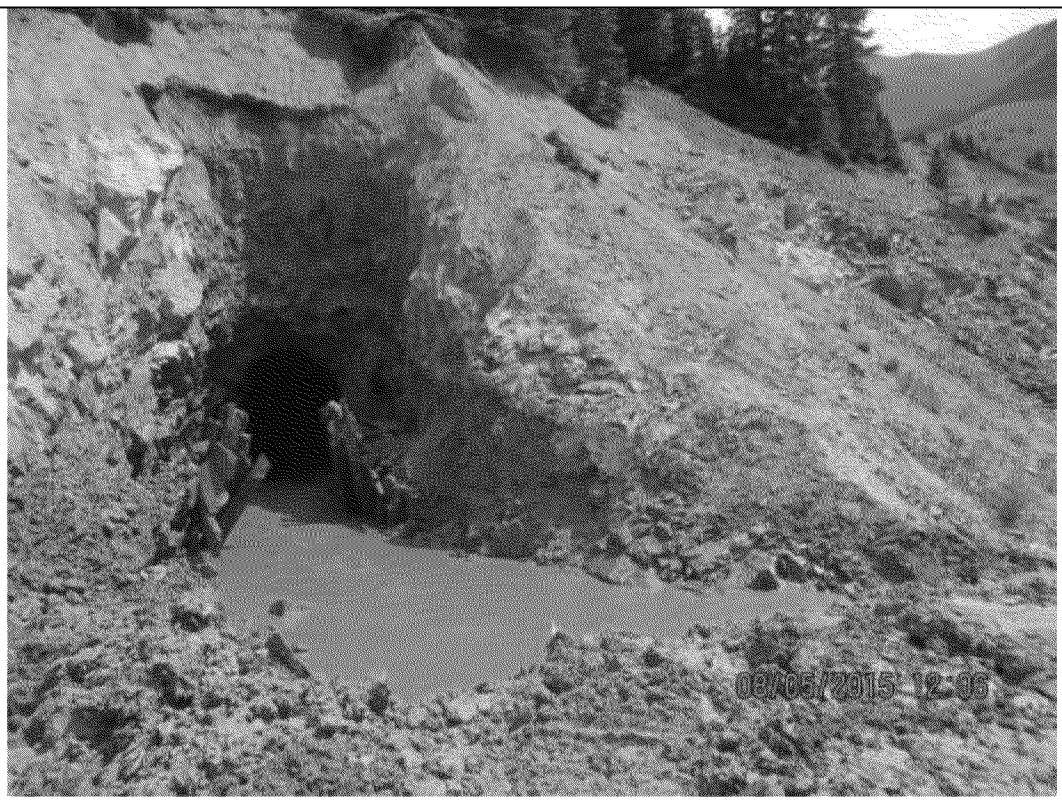
Description:
Adit area after regrading.

Photo No.	Date:
32	08/05/2015

Direction Photo Taken:

North

Description:
Exposed adit and redirected flow, flow is beginning to subside.



PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Gold King Mine	Silverton, San Juan County, Colorado	0001/1408-01

Photo No.	Date:	
33	08/05/2015	

Direction Photo Taken:

East

Description:
Redirected flow into existing half culvert channel.

Photo No.	Date:	
34	08/05/2015	

Direction Photo Taken:

North

Description:
Closeup of adit.

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Gold King Mine	Silverton, San Juan County, Colorado	0001/1408-01

Photo No.	Date:
35	08/05/2015

Direction Photo Taken:

West

Description:
Excavator beginning work to secure safe exit route for equipment, vehicles, and personnel.

Photo No.	Date:
36	08/05/2015

Direction Photo Taken:

East

Description:

Existing flow channel at maximum capacity.

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Gold King Mine	Silverton, San Juan County, Colorado	0001/1408-01

Photo No.	Date:
37	08/05/2015

Direction Photo Taken:

Southwest/Down

Description:
Excavator progress on fixing access road to create a safe exit route.

Photo No.	Date:
38	08/05/2015

Direction Photo Taken:

East

Description:
Existing culvert flows subsiding minimally.

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Gold King Mine	Silverton, San Juan County, Colorado	0001/1408-01

Photo No.	Date:
39	08/05/2015

Direction Photo Taken:

North

Description:
No changes visible in adit structure or supports. Sloughing of materials inside the mine can be heard.

Photo No.	Date:
40	08/05/2015

Direction Photo Taken:

South/Down

Description:
Excavator progresses to washed out North Fork crossing.

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Gold King Mine	Silverton, San Juan County, Colorado	0001/1408-01

Photo No.	Date:
41	08/05/2015

Direction Photo Taken:

Southwest/Down

Description:
Noted visitor to the site, unknown person, walked up to excavator at North Fork crossing and then back to vehicle.

Photo No.	Date:
42	08/05/2015

Direction Photo Taken:

Southwest/Down

Description:
Visitor leaving.

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Gold King Mine	Silverton, San Juan County, Colorado	0001/1408-01

Photo No.	Date:	
43	08/05/2015	

Direction Photo Taken:

South/Down

Description:
Excavator continues to fix access road. Continued high flow is slowing progress.

Photo No.	Date:	
44	08/05/2015	

Direction Photo Taken:

East

Description:
Half culvert flow continues to subside.

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Gold King Mine	Silverton, San Juan County, Colorado	0001/1408-01

Photo No.	Date:
45	08/05/2015

Direction Photo Taken:

North

Description:

Water levels lowering at adit entrance, no visible changes to structure.

Photo No.	Date:
46	08/05/2015

Direction Photo Taken:

West

Description:
Flight for life Helicopter coming up the valley to pick up a person who crashed a vehicle on Corkscrew Pass, not related to this event.

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Gold King Mine	Silverton, San Juan County, Colorado	0001/1408-01

Photo No.	Date:	
47	08/05/2015	

Direction Photo Taken:

Southwest

Description:
Close up of Flight for Life.

Photo No.	Date:	
48	08/05/2015	

Direction Photo Taken:

Northeast

Description:
Flow path from adit, water flow appears to have stabilized around 1400.

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Gold King Mine	Silverton, San Juan County, Colorado	0001/1408-01

Photo No.	Date:	
49	08/05/2015	

Direction Photo Taken:

North

Description:
pH measured at approximately 4.5.

Photo No.	Date:	
50	08/05/2015	

Direction Photo Taken:

Southwest/Down

Description:
DRMS arrives back on site, had visited the site around 0930 to check on progress of investigation, left approximately 1030, prior to blowout.

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Gold King Mine	Silverton, San Juan County, Colorado	0001/1408-01

Photo No.	Date:
51	08/05/2015

Direction Photo Taken:

North

Description:
Looking up from the toe of the Gold King waste dump directly south of the adit.

Photo No.	Date:
52	08/05/2015

Direction Photo Taken:

Northeast

Description:
Gold King Mine tailings dump after water discharge.

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Gold King Mine	Silverton, San Juan County, Colorado	0001/1408-01

Photo No.	Date:
53	08/05/2015

Direction Photo Taken:

East

Description:

Looking east across Cement Creek from County Road 10 to excavator fixing County Road 52 at North Fork crossing just south of Red and Bonita Mine.

Photo No.	Date:
54	08/05/2015

Direction Photo Taken:

East

Description:

Cement Creek crossing at Gladstone.

PHOTOGRAPH LOG

Project Name:	Site Location:	Project No.
Gold King Mine	Silverton, San Juan County, Colorado	0001/1408-01