

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Inspection Report

Permit Number:	C0150032
Inspection Type:	PARTIAL
Inspection Date:	Tuesday, July 30, 2013
Start Date/Time:	7/30/2013 8:30:00 AM
End Date/Time:	7/30/2013 3:00:00 PM
Last Inspection:	Tuesday, June 25, 2013

Representatives Present During the Inspection:	
Company	Jay Marshall
OGM	Karl Houskeeper

Inspector: Karl Houskeeper

Weather: Clear Skies, Temp. 74 Deg. F.

InspectionID Report Number: 3558

Accepted by: jhelfric

7/31/2013

Permittee: **GENWAL RESOURCES INC**
 Operator: **GENWAL RESOURCES INC**
 Site: **CRANDALL CANYON MINE**
 Address: **PO BOX 910, EAST CARBON UT 84520-0910**
 County: **EMERY**
 Permit Type: **PERMANENT COAL PROGRAM**
 Permit Status: **ACTIVE**

Current Acreages

6,295.06	Total Permitted
34.47	Total Disturbed
11.89	Phase I
	Phase II
	Phase III

Mineral Ownership

- Federal
- State
- County
- Fee
- Other

Types of Operations

- Underground
- Surface
- Loadout
- Processing
- Reprocessing

Report summary and status for pending enforcement actions, permit conditions, Division Orders, and amendments:

Checked in at the main office located at the West Ridge Mine Site. Met with JD Leonard and Jay Marshall UEI. Jay Marshall accompanied the Division Inspector on the Partial Inspection.

Pictures were taken and are attached to the PDF Version of this inspection report.

MSHA had been on site at the Crandall Mine to look at the work that has been done on the highwall above the iron treatment pond. The order has not been lifted yet.

Water samples were pulled from 002 and Pre 002. (see item 4d. For more details)

Dale Davis UEI was on site at the Crandall Mine.

Karl R. Houskeeper

Inspector's Signature:

Date

Tuesday, July 30, 2013

Karl Houskeeper,

Inspector ID Number: 49

Note: This inspection report is a public document. It contains information that is not confidential and is available for public review. For more information, contact the Division of Oil, Gas and Mining, telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • www.ogm.utah.gov



REVIEW OF PERMIT, PERFORMANCE STANDARDS PERMIT CONDITION REQUIREMENTS

1. Substantiate the elements on this inspection by checking the appropriate performance standard.
 - a. For COMPLETE inspections provide narrative justification for any elements not fully inspected unless element is not appropriate to the site, in which case check Not Applicable.
 - b. For PARTIAL inspections check only the elements evaluated.
2. Document any noncompliance situation by reference the NOV issued at the appropriate performance standard listed below.
3. Reference any narratives written in conjunction with this inspection at the appropriate performance standard listed below.
4. Provide a brief status report for all pending enforcement actions, permit conditions, Divison Orders, and amendments.

	Evaluated	Not Applicable	Comment	Enforcement
1. Permits, Change, Transfer, Renewal, Sale	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Signs and Markers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Topsoil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.a Hydrologic Balance: Diversions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.b Hydrologic Balance: Sediment Ponds and Impoundments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.c Hydrologic Balance: Other Sediment Control Measures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.d Hydrologic Balance: Water Monitoring	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.e Hydrologic Balance: Effluent Limitations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Explosives	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Disposal of Excess Spoil, Fills, Benches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Coal Mine Waste, Refuse Piles, Impoundments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Noncoal Waste	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Protection of Fish, Wildlife and Related Environmental Issues	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Slides and Other Damage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Contemporaneous Reclamation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Backfilling And Grading	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Revegetation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Subsidence Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Cessation of Operations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.a Roads: Construction, Maintenance, Surfacing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.b Roads: Drainage Controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Other Transportation Facilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Support Facilities, Utility Installations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19. AVS Check	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Air Quality Permit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Bonding and Insurance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22. Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2. Signs and Markers

The identification signs at the Burma Pond and the Crandall Mine Site were observed as part of the partial inspection. Both signs contained the required information and were found to be in compliance.

4.b Hydrologic Balance: Sediment Ponds and Impoundments

Evidence of bentonite clay placement inside the sediment pond is visible by the distinct color change between the clay and the natural ground.

4.d Hydrologic Balance: Water Monitoring

Water samples were pulled from 002 and Pre 002. The samples were pulled in unison and split for analysis at the State Lab for the State sample and at SGS for the UEI sample. UEI done field samples on site and are as follows:

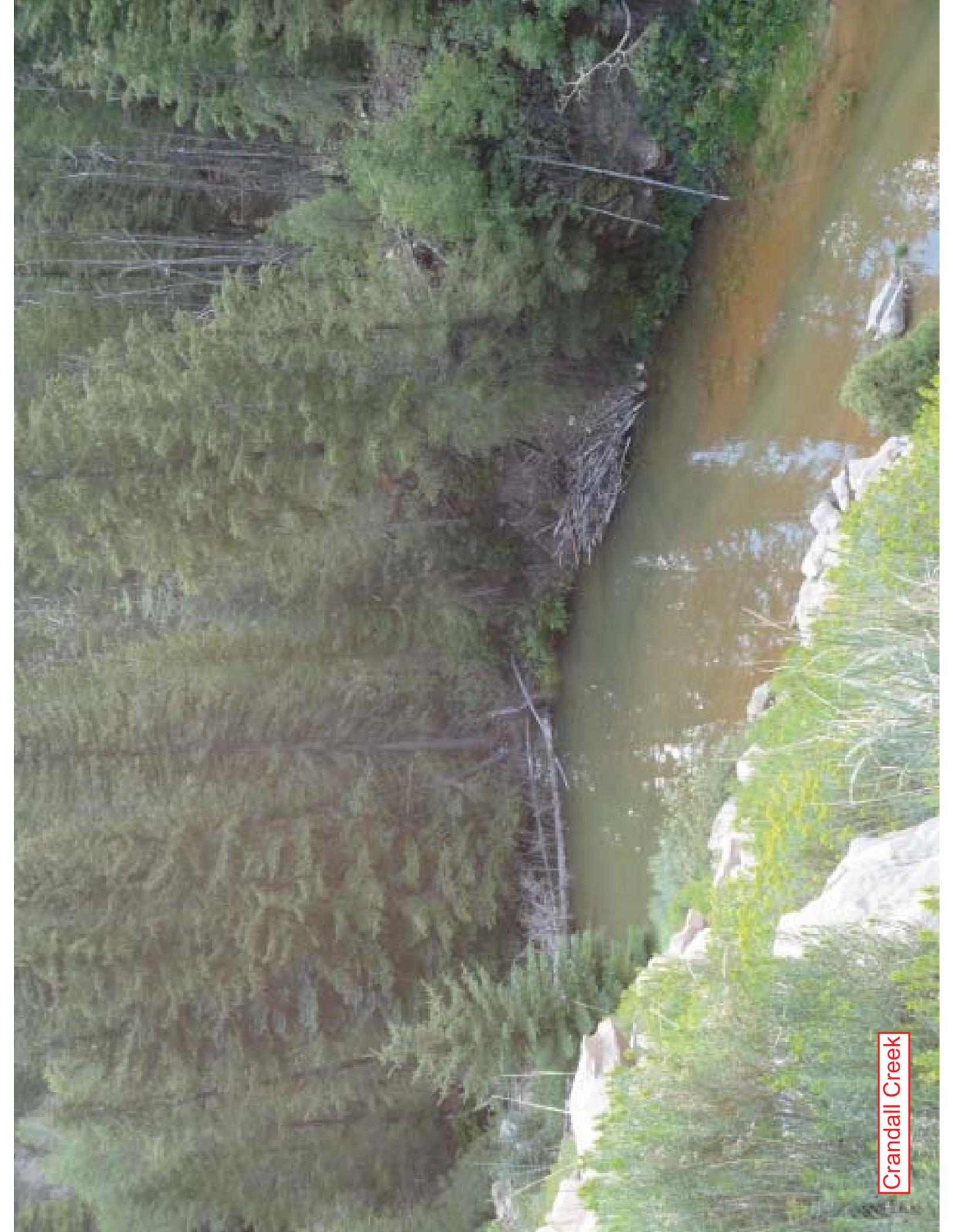
Sample Point: 002
Date: 07/30/2013
Time: 11:50 am
Mine Water Flow Total: 356.6 gpm
pH: 8.54
Conductivity: 975
Temp: 13.5 centigrade
DO: 12.7 ppm
Ferrous Iron: .0 ppm
Total Iron: .9 ppm

Sample Point: Pre 002
Date: 07/30/2013
Time: 12:02 pm
Mine Water Flow Total: 356.6 gpm
pH: 6.95
Conductivity: 954
Temp: 11.7 centigrade
DO: 9.0 ppm
Ferrous Iron: .1 ppm
Total Iron: 1.5 ppm

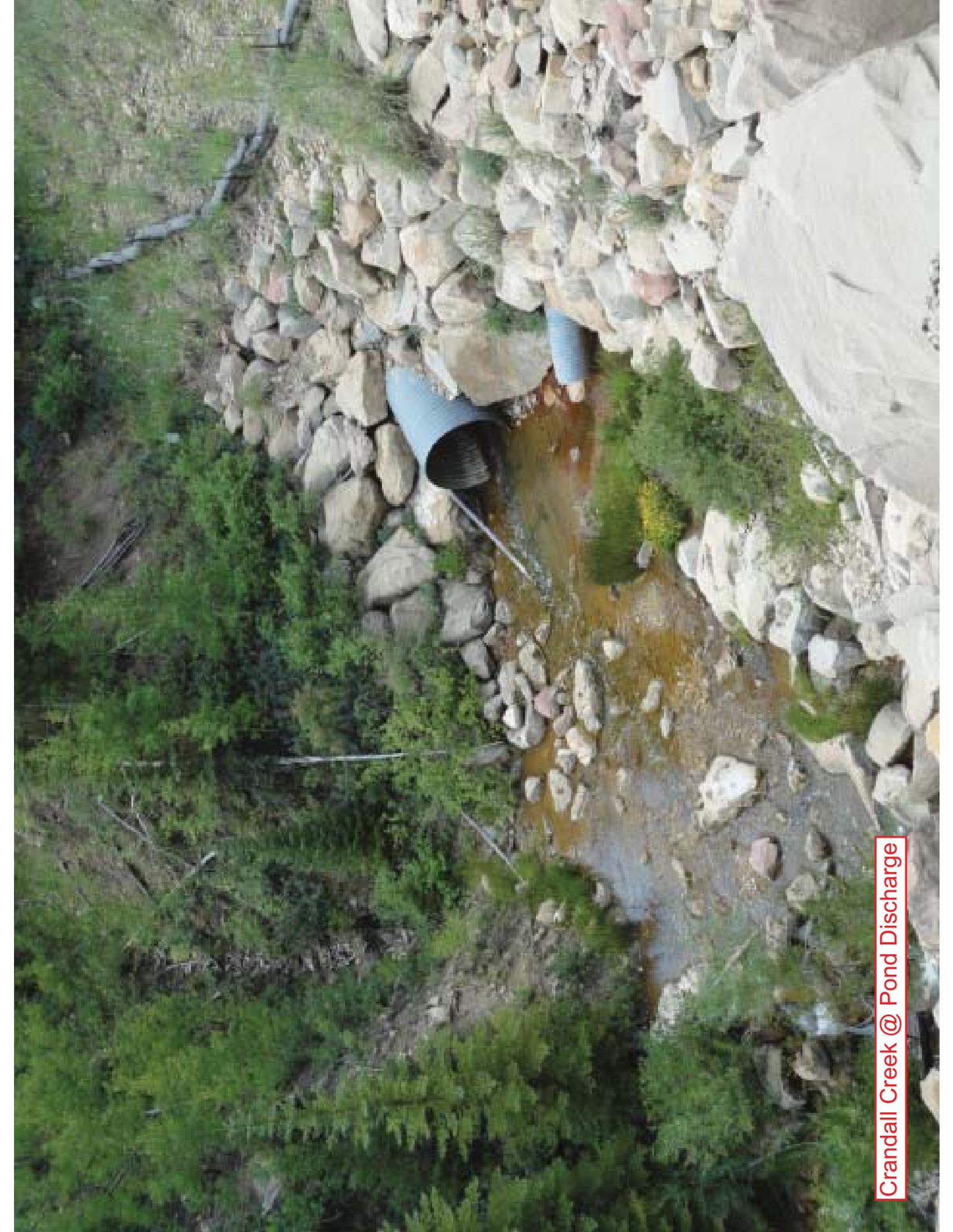
The Fresh water mixer pump for flocculent started to malfunction at 1:51 am according to the graph. This malfunction required the pump to be replaced. A spare pump was on site. Dale Davis UEI installed a new pump and the system was restored to normal service at 11:52 am according to the graph. The system was not operating in a normal condition at the time of the water samples. In addition Cell #2 was being cleaned at the time of the water samples



Burma Pond



Crandall Creek



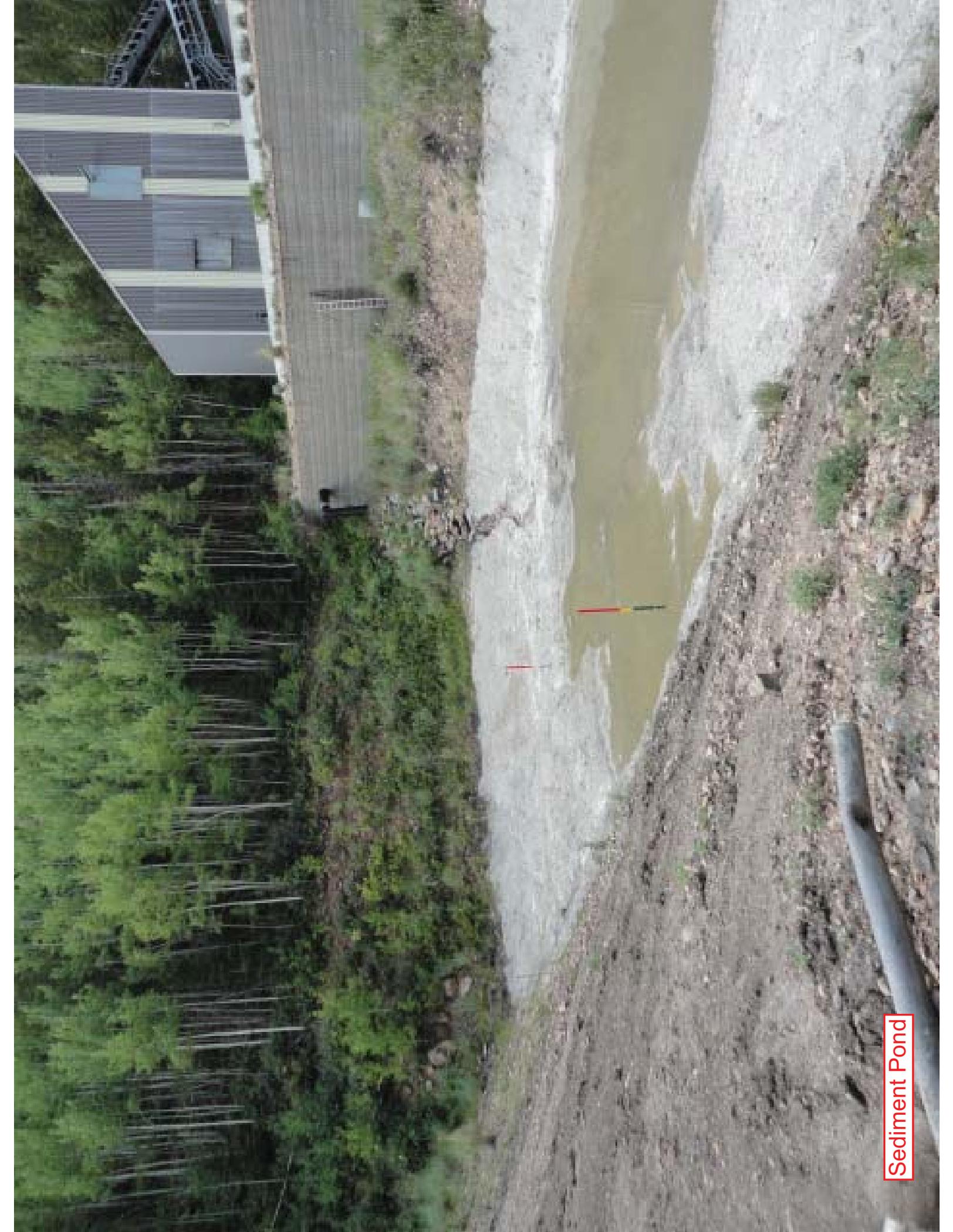
Crandall Creek @ Pond Discharge



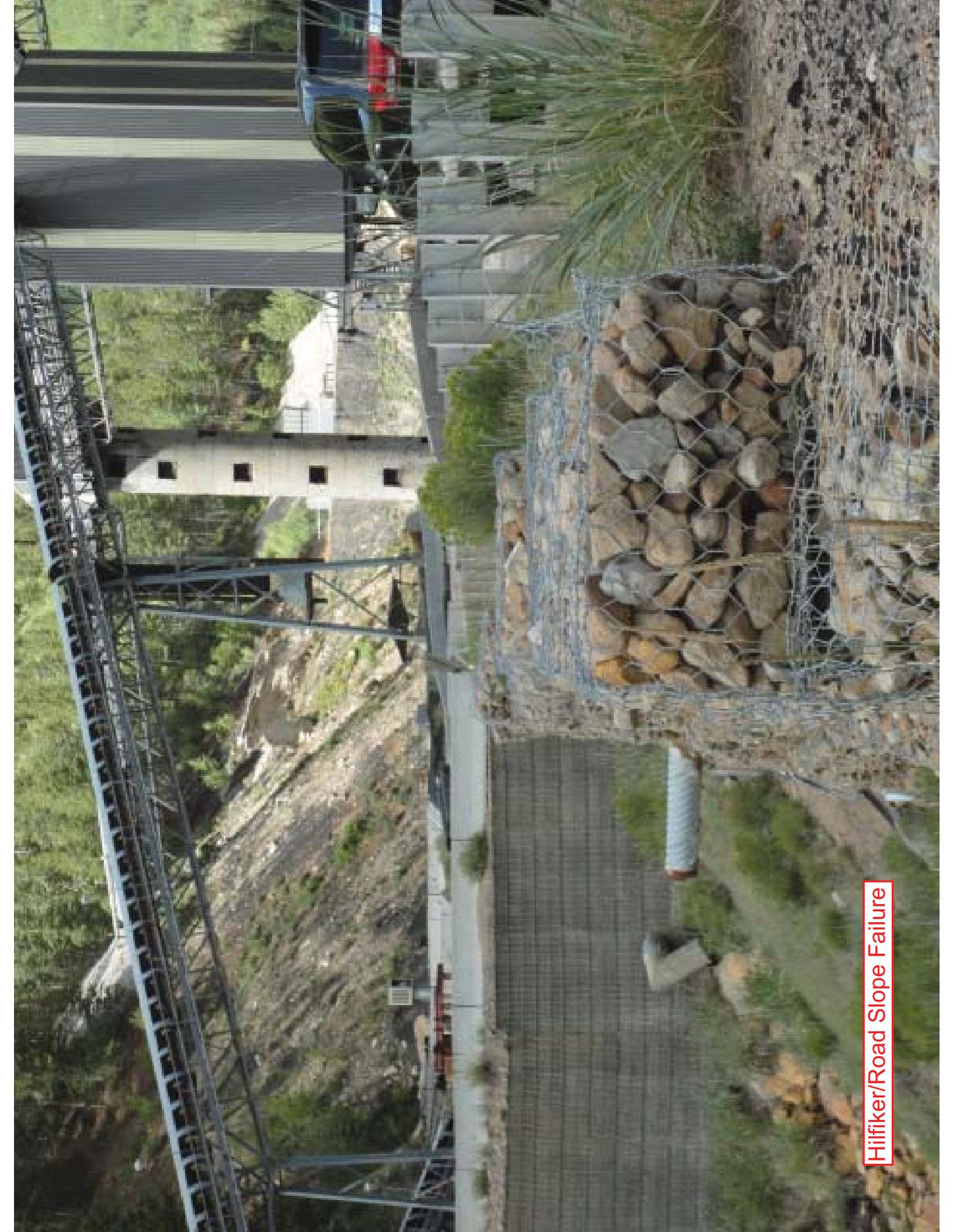
Sediment Pond



Sediment Pond



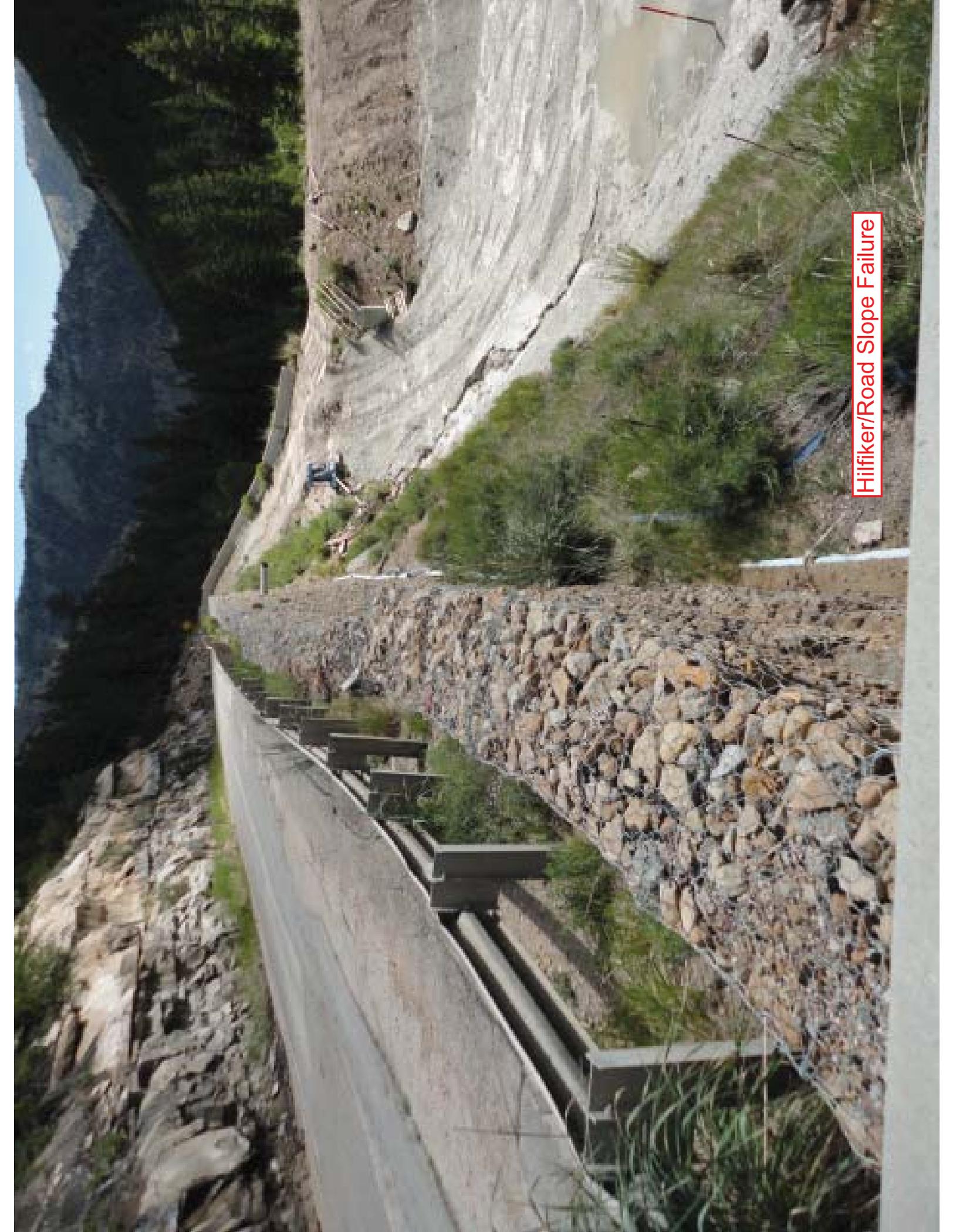
Sediment Pond



Hilfiker/Road Slope Failure



Sediment Pond



Hilfiker/Road Slope Failure



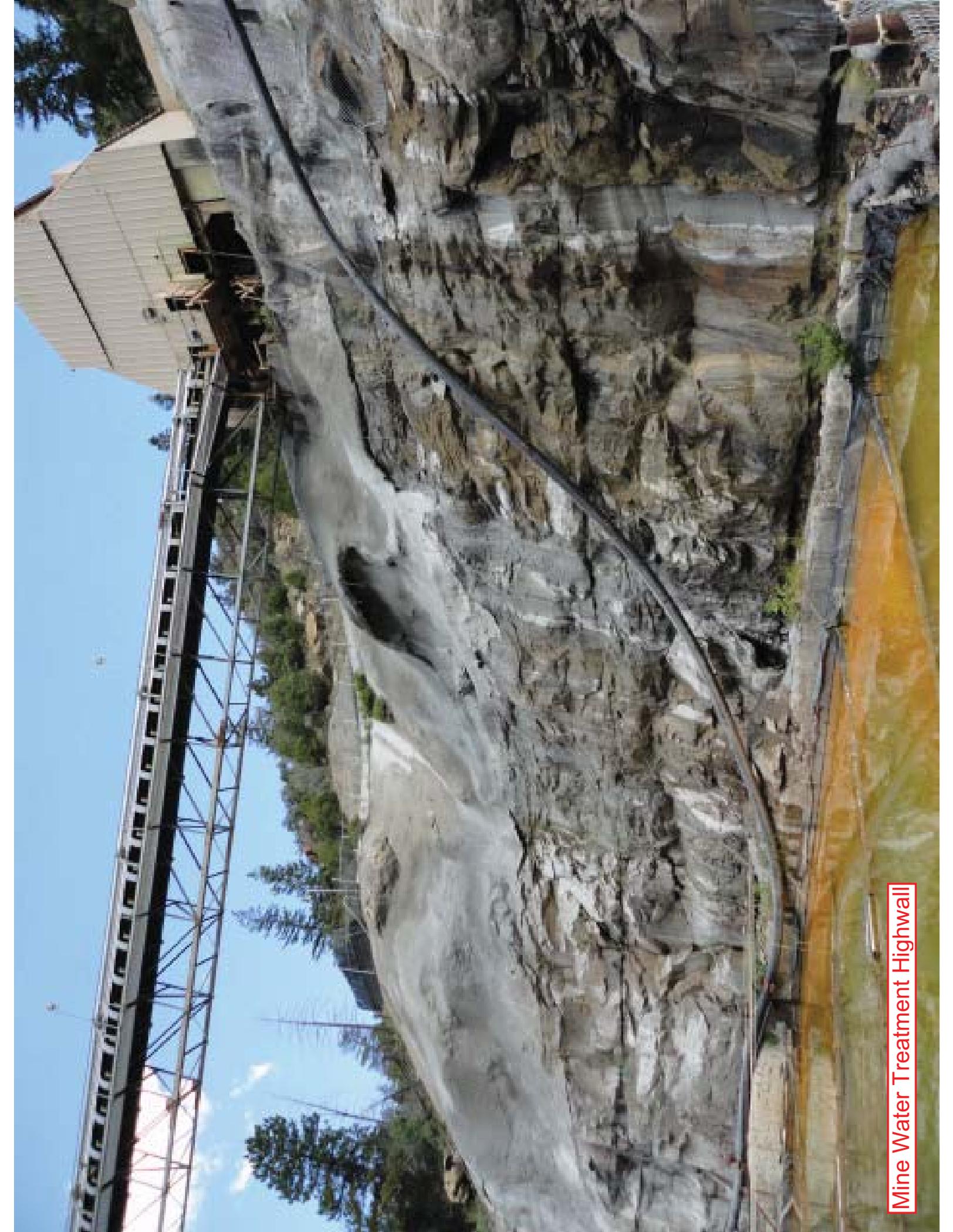
Ditch DD-10



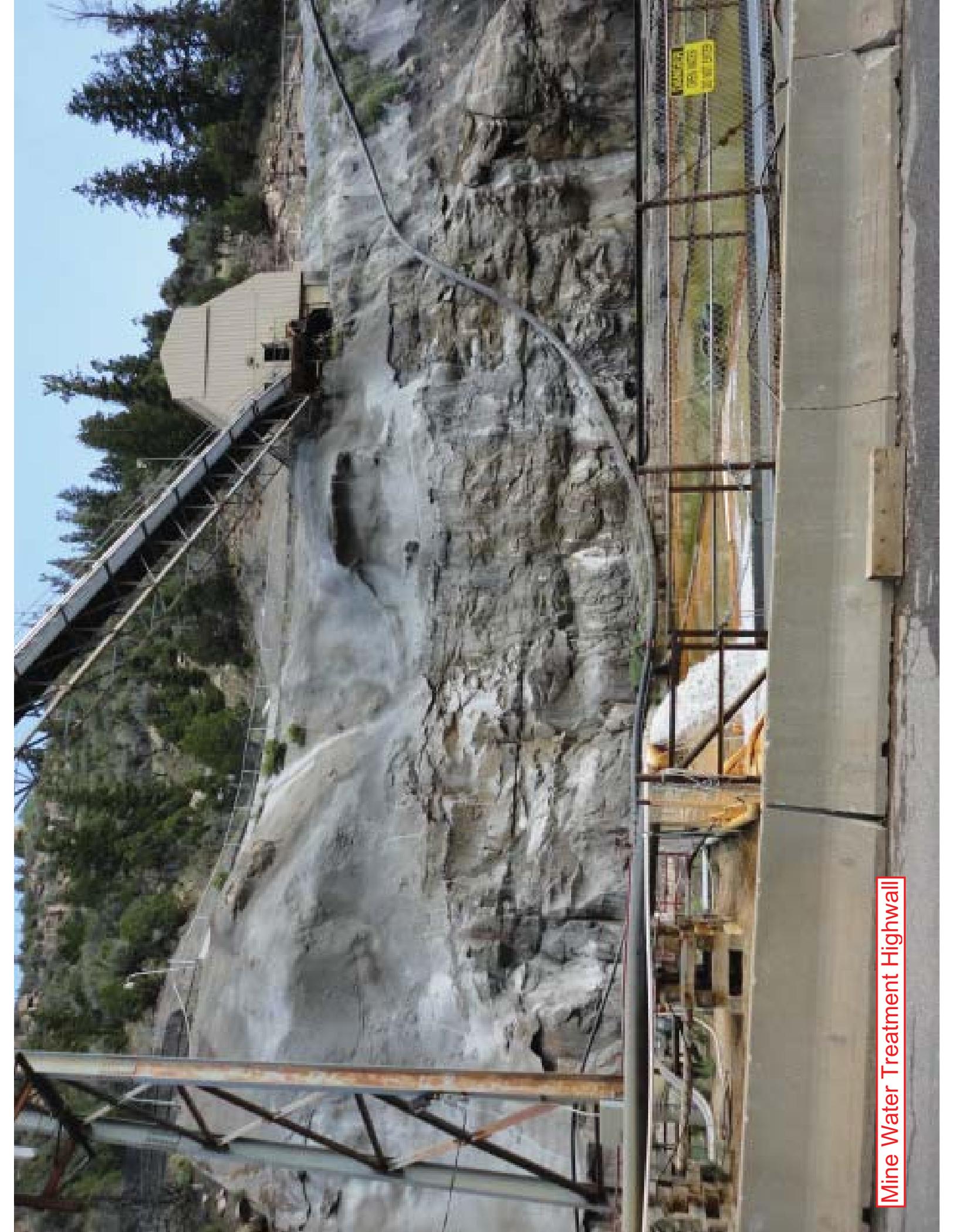
Mine Water Treatment Basin Outlet



Mine Water Treatment Basin (Looking West)



Mine Water Treatment Highwall



Mine Water Treatment Highwall



Mine Water Treatment Highwall

