



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:	Monday, August 20, 2018
Start Date/Time:	8/20/2018 12:45:00 PM
End Date/Time:	8/20/2018 2:00:00 PM
Last Inspection:	Tuesday, July 31, 2018

Representatives Present During the Inspection:
OGM Justin Eatchel

Inspector: Justin Eatchel

Weather: Mostly cloudy, light rain. 66F

InspectionID Report Number: 6224

Accepted by:

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: **INACTIVE**

Current Acreages

1,257.75	Total Permitted
34.23	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:

This partial inspection of the Crandall Canyon Mine was conducted in the early afternoon of Monday, August 20, 2018. Scamp Construction was on site with a vacuum truck, cleaning the iron sludge from cell #2 of the settling pond. The construction of a large, 14' concrete wall in the stream channel of Crandall Creek to the north of the Miner Memorial was recently completed. Outside of these activities, the site appeared stable.

Inspector's Signature:

Justin Eatchel,

Inspector ID Number: 73

Justin Eatchel

Date Thursday, August 23, 2018



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 type="checkbox"/>	<input type="checkbox"/>
3. Topsoil	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.a Hydrologic Balance: Diversions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Disposal of Excess Spoil, Fills, Benches	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Coal Mine Waste, Refuse Piles, Impoundments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Noncoal Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Protection of Fish, Wildlife and Related Environmental Issues	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Slides and Other Damage	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Contemporaneous Reclamation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Backfilling And Grading	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Revegetation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Subsidence Control	<input type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.b Roads: Drainage Controls	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Other Transportation Facilities	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Support Facilities, Utility Installations	<input checked="" 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"/>

4.a Hydrologic Balance: Diversions

The trash racks that had been supplemented with larger, more robust structures last month are free of debris and in good condition. Jersey barriers had been recently placed on the USFS road at the entrance to the site, where Crandall Creek flows under the road. There had been rainfall in the region, and the Jersey barriers were placed along the road in an effort to divert potential flood waters away from the road (see photos). The barriers will not be a permanent feature, and will be removed from the road when not needed.

4.b Hydrologic Balance: Sediment Ponds and Impoundments

Very little water in the sediment pond.

4.d Hydrologic Balance: Water Monitoring

Water continues to flow from the mine. Water samples were taken at the intake to the treatment pond as well as the outfall. The treatment facility resumed normal operations less than a week ago, on Wednesday, August 15. Flow = 258 gpm, Flocculant = 2.6 ppm, Coagulant = 29.79ppm.

10. Slides and Other Damage

The construction of a large concrete wall in Crandall Creek was recently completed in an effort to protect the Miner Memorial from a potential debris flow from the burn scar at the head of Crandall Canyon. The construction effort resulted in some minor damage as a trackhoe and other equipment blazed two small trails from the Memorial parking lot to the section of Crandall Creek just north of the Memorial. In all, some trees were pruned, and a small section of sidewalk was removed in the effort. The Forest Service has committed to reclaim/reseed the dirt paths that were created from the equipment, and replace the section of sidewalk that was removed.

ATTACHMENT A – Crandall Canyon partial inspection, August 20, 2018



PHOTO 1 – WATER TREATMENT FACILITY

Looking east over cells 1, 2, and 3. Water sampling location Pre-002 is from the end of the white PVC. Scamp is cleaning cell #2.
August 20, 2018



PHOTO 2 – SETTLING POND OUTFALL

This is sampling location 002.

August 20, 2018



PHOTO 3 – SEDIMENT POND

The sediment pond currently holds very little water.

August 20, 2018



PHOTO 4 – GABION WALL

The steel pylons and other support structures have not shown any signs of movement recently, and appear stable.

August 20, 2018

ATTACHMENT A – Crandall Canyon partial inspection, August 20, 2018



PHOTO 5 – CRANDALL CREEK
The outlet of the 72" culvert that runs beneath the main mine site.
August 20, 2018



PHOTO 6 – TEMPORARY JERSEY BARRIERS
These Jersey barriers were placed on the paved USFS road at the entrance in anticipation of possible flooding from Crandall Creek.
August 20, 2018



PHOTO 7 – CRANDALL CREEK
This is at the intake of the 72" culvert running beneath the main site. Trash racks appear clear and stable.
August 20, 2018



PHOTO 8 – MINER MEMORIAL PARKING LOT
These two dirt paths were created as a result of construction traffic to and from the Memorial site.
August 20, 2018

ATTACHMENT A – Crandall Canyon partial inspection, August 20, 2018



PHOTO 9 – MEMORIAL FLOOD CONTROL WALL
Memorial is in front of the wall in the trees on the left. Notice section of missing sidewalk at center.
August 20, 2018



PHOTO 10 – MEMORIAL WALKWAY DAMAGE
Sidewalk was destroyed/removed from construction traffic. It will be replaced.
August 20, 2018



PHOTO 11 – MEMORIAL FLOOD CONTROL WALL
Memorial site is on the left, and Crandall Creek is to the right of the wall.
August 20, 2018

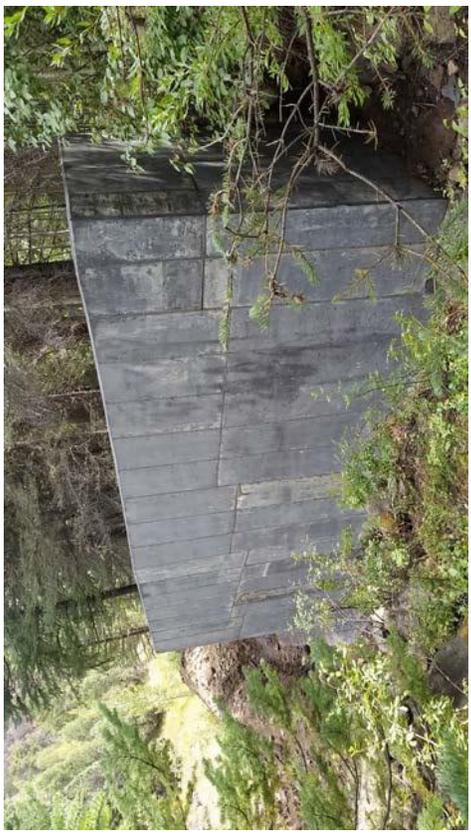


PHOTO 12 - MEMORIAL FLOOD CONTROL WALL
This is the upstream end of the wall. It has been keyed into the stream bank at this point.
August 20, 2018

ATTACHMENT A – Crandall Canyon partial inspection, August 20, 2018



PHOTO 13 – MEMORIAL FLOOD CONTROL WALL
 This photo illustrates the distance between the Miner Memorial and the flood control wall.
 August 20, 2018



PHOTO 14 – MEMORIAL FLOOD CONTROL WALL
 This is the downstream end of the wall. These stairs were poured to provide access for the construction crews building the wall. Notice trackhoe in the background.
 August 20, 2018



PHOTO 15 – MEMORIAL FLOOD CONTROL WALL
 A view from the footings on the creek side. These will be buried once the concrete has fully cured.
 August 20, 2018



PHOTO 16 - MEMORIAL FLOOD CONTROL WALL
 Highly technical methods illustrate the thickness of the wall. This potato chip container measures 8.75 inches.
 August 20, 2018

ATTACHMENT A – Crandall Canyon partial inspection, August 20, 2018



PHOTO 17 – MINER MEMORIAL
With finished wall in background.

August 20, 2018



PHOTO 18 – MINER MEMORIAL
With finished wall in background.

August 20, 2018