



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, April 16, 2019
Start Date/Time:	4/16/2019 12:30:00 PM
End Date/Time:	4/16/2019 3:00:00 PM
Last Inspection:	Wednesday, March 20, 2019

Representatives Present During the Inspection:	
OGM	Justin Eatchel
Company	Karin Madsen

Inspector: Justin Eatchel

Weather: Overcast, steady drizzle. 38F

InspectionID Report Number: 6397

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:

Met with Karin Madsen for this partial inspection. Water samples were taken from the treatment facility and delivered to the Utah State Health Laboratory.

Inspector's Signature:

Justin Eatchel

Date Thursday, April 18, 2019

Justin Eatchel,

Inspector ID Number: 73

Note: This inspection report does not constitute an affidavit of compliance with the regulatory program of 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 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 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 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 checked="" 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 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 checked="" 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"/>

4.a Hydrologic Balance: Diversions

Diversions ditches along the USFS road leading into the mine showed evidence of being washed out in recent weeks. Maintenance work on the UD culvert above the main offices will commence once conditions dry up and heavy equipment can be mobilized up the slopes.

4.b Hydrologic Balance: Sediment Ponds and Impoundments

Sediment pond holding a modest amount of water. The layer of ice that used to be on the top of the pond has been replaced by a layer of slush.

4.d Hydrologic Balance: Water Monitoring

Water still flows from the sealed adits and the flowrate fluctuates according to the barometric pressure. Since there has been a low pressure system over the area the flow has increased to 318 gpm. The water is not currently being treated with flocculant and/or coagulant.

10. Slides and Other Damage

The shoulder of the USFS road adjacent to the sediment pond has sloughed and failed where the old support structures were installed last year. The road is still stable and no new cracks appear to have formed, although it is likely that more sloughing could occur considering the amount of rain this area has been receiving recently. Karin last visited the site on April 1, and no sloughing had occurred at that time. SCAMP was notified immediately at the beginning of the inspection, and barricades have been installed to divert traffic around the damaged area. Plans to repair the road as soon as possible are currently in place.

16.b Roads: Drainage Controls

Rain water appears to be seeping into inset drains installed into the pavement of the USFS road above the section that recently failed, but no obvious outlet is visible (see photos).

ATTACHMENT A – Crandall Canyon Partial Inspection, April 16, 2019



PHOTO 1 – WATER TREATMENT FACILITY
Overlooking the water treatment pond. Water sampling location Pre-002 is from the end of the white PVC left of center.



PHOTO 2 – TREATMENT POND OUTFALL
The water flowing through the outlet is sampling point for UPDES discharge #002.



PHOTO 3 – WEEPING HIGHWALL
The face of the highwall overlooking the water treatment facility. No recent spalling or sloughing is evident.



PHOTO 4 – C-6 CULVERT (ABOVE MAIN OFFICE)
This culvert will be cleaned and rehabilitated later this year when conditions are less muddy.

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PHOTO 5 – CRANDALL CREEK

The discharging culvert at center is the 72" bypass that runs beneath the main mine site.



PHOTO 6 – USFS ROAD

Notice that although the shoulder has sloughed slightly on the left, the road otherwise appears stable.



PHOTO 7 – SEDIMENT POND

The sediment pond currently covered by a layer of slush. Gabion basket failure on the left.



PHOTO 8 – SHOULDER FAILURE

The wet weather and melting snow are likely causes for this failure.

ATTACHMENT A – Crandall Canyon Partial Inspection, April 16, 2019



PHOTO 9 – SHOULDER FAILURE

A different perspective, overlooking the sediment pond.

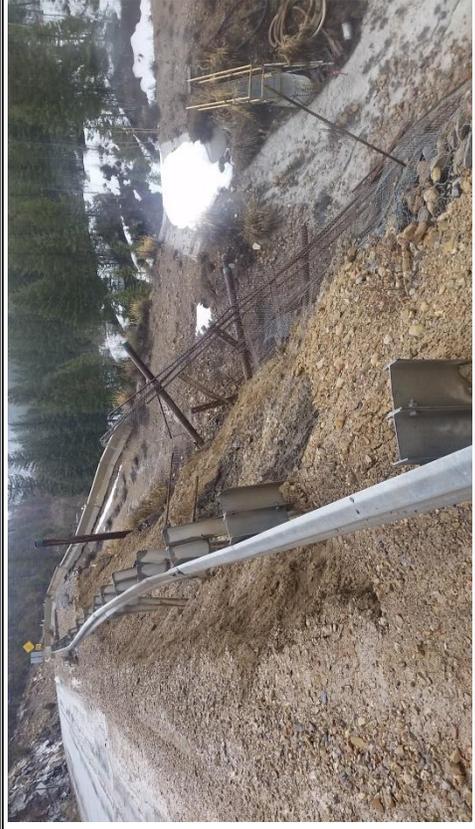


PHOTO 10 – SHOULDER FAILURE

View of the failure, straddling the guard rail.



PHOTO 11 – INSTALLED ROAD DRAIN

This section of drain is located adjacent to the failure. The red lines highlight the path of flow, and the water disappears at the yellow circle. It is not clear where the water goes from there.

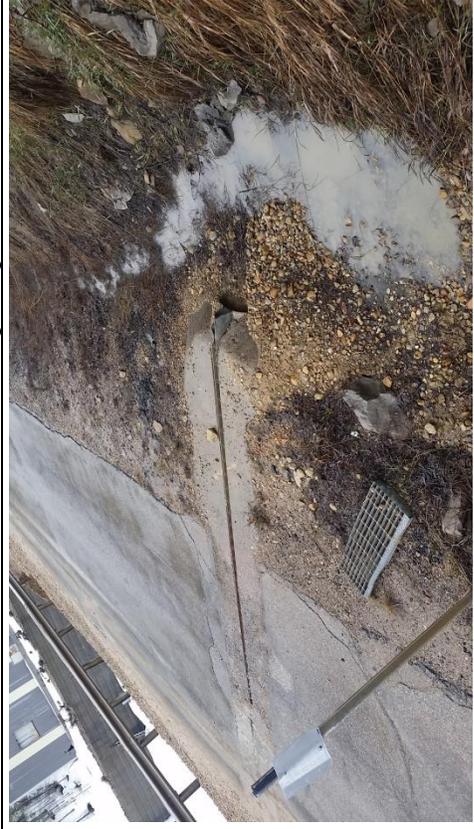


PHOTO 12 – INSTALLED DRAIN

This is the highlighted drain in Photo 11. Notice the ponding water in the drainage ditch. This is a common phenomenon, and may have contributed to the failure.