



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 01, 2014
Start Date/Time:	7/1/2014 8:30:00 AM
End Date/Time:	7/1/2014 12:00:00 PM
Last Inspection:	Tuesday, June 10, 2014

Representatives Present During the Inspection:	
OGM	Karl Houskeeper

Inspector: Karl Houskeeper

Weather: Clear Skies, Temp. 68 Deg. F.

InspectionID Report Number: 3894

Accepted by: JHELFRIC
7/22/2014

Permitee: **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:

The Division Inspector checked in at the UtahAmerican Main Office located at the West Ridge Mine before conducting the Partial Inspection of the Crandall Canyon Mine. Jay Marshall or Karin Odendahl were not available. Proceeded to the Crandall Canyon Mine un-attended. Checked in with the Security Guard on site.

Water Samples were pulled from 002 and Pre-002.

Flocculant PPM MUU 0.49
 Coagulant PPM 11.80
 One Hour AVG FLOW 332 gpm

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

Inspector's Signature:

Date: Tuesday, July 01, 2014

Karl Houskeeper,
 Inspector ID Number: 49



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 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 type="checkbox"/>	<input type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Disposal of Excess Spoil, Fills, Benches	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Coal Mine Waste, Refuse Piles, Impoundments	<input checked="" type="checkbox"/>	<input checked="" 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 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 mine identification signs at the Burma Pond Facility and the Main Facility were inspected and found to contain the required information listed in the Utah R645 Coal Rules.

4.a Hydrologic Balance: Diversions

The diversions on site were open and functional according to their designs.

4.b Hydrologic Balance: Sediment Ponds and Impoundments

The Burma Pond is completely dry. The main sediment pond water level is below the markers.



Burma Pond



Crandall Creek



Crandall Creek @ Pond Discharge



Sediment Pond



Sediment Pond



Sediment Pond



Hilfiker/Road Slope Repair



Ditch DD-10



Mine Water Treatment Basin Outlet



Mine Water Treatment Basin (Looking West)



Mine Water Treatment Basin (Looking West)

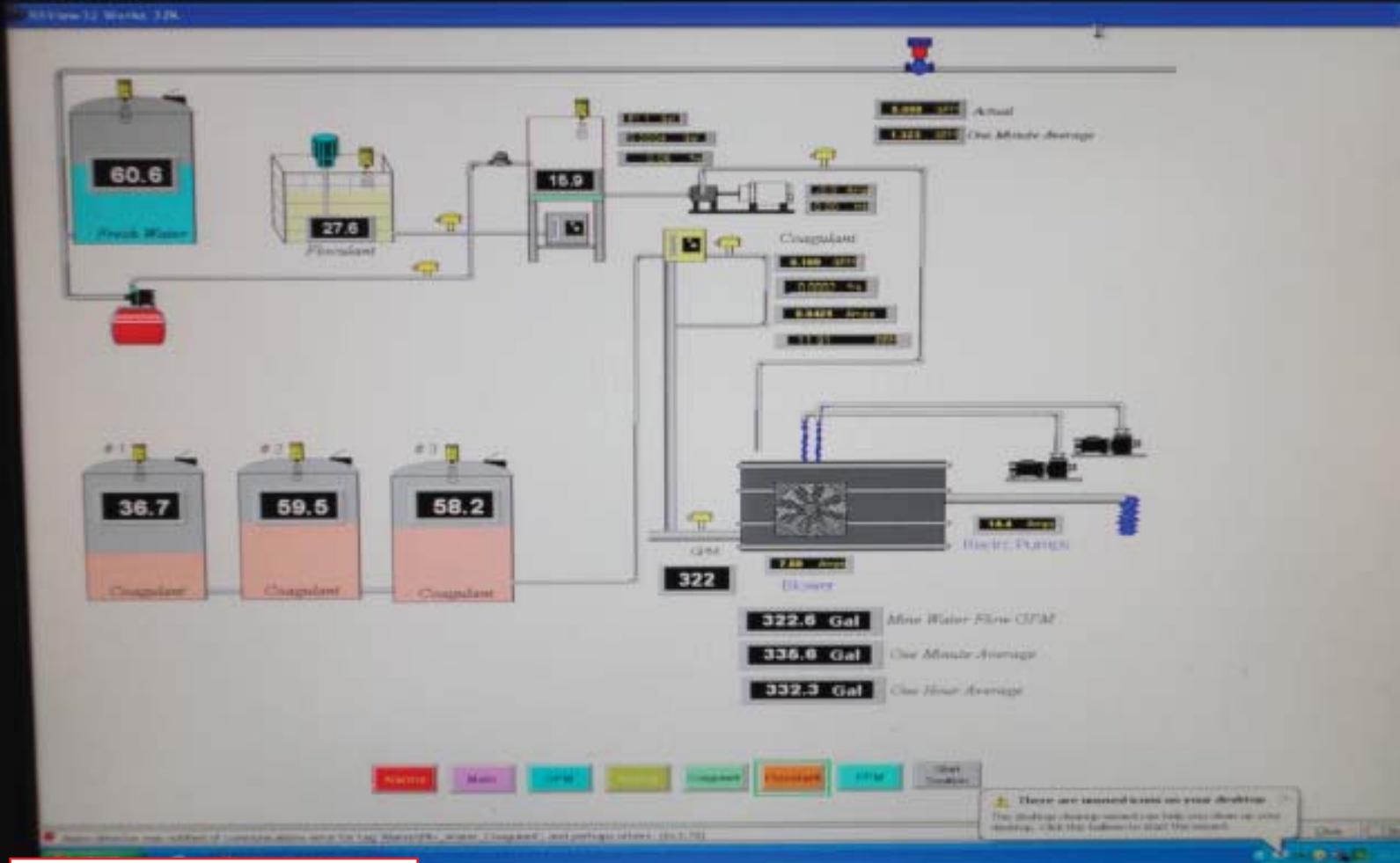


Mine Water Treatment Highwall



Mine Water Treatment Highwall

Brandon Kimb...



Iron Treatment Monitoring Screen

WIDER

	1	2	3	4	5	6	7	8	9	10
Avg. Meter-Total	342.65	376.87	386.76	342.28	337.38	336.26	337.84	376.88	371.64	379.87
Meter-Flow-Total	383844	465888	488467	883882	485823	484788	485348	483838	483588	475462
Coagulant-Completed	8.273	8.273	8.273	8.273	8.273	8.273	8.273	8.273	8.273	8.273
Meter-Completed	17.884	18.588	18.759	17.875	17.887	17.847	17.847	17.885	17.845	17.887
Coagulant-Flowed	8.188	8.188	8.188	8.188	8.188	8.188	8.188	8.188	8.188	8.188
Meter-Flowed	8.89	8.286	8.283	8.282	8.288	8.287	8.286	8.287	8.286	8.288
FFM	11	12	13	14	15	16	17	18	19	20
Avg. Meter-Total	348.24	324.64	359.77	374.86	363.77	387.67	395.23	368.88	336.43	348.24
Meter-Flow-Total	488888	888887	888488	578224	532282	588247	588774	578278	484245	488222
Coagulant-Completed	8.273	8.273	8.273	8.273	8.273	8.273	8.273	8.273	8.273	8.273
Meter-Completed	18.273	17.882	18.275	15.328	15.838	14.888	14.528	15.528	12.878	18.854
Coagulant-Flowed	8.188	8.188	8.188	8.188	8.188	8.188	8.188	8.188	8.188	8.188
Meter-Flowed	8.28	8.288	8.188	8.188	8.188	8.178	8.178	8.188	8.188	8.248
FFM	21	22	23	24	25	26	27	28	29	30
Avg. Meter-Total	338.77	338.79	332.88	372.84	235.88	383.45	385.42	358.82	348.24	334.28
Meter-Flow-Total	478888	484827	488362	472223	483247	588864	578288	54388	488844	472888
Coagulant-Completed	8.273	8.273	8.265	8.273	8.273	8.273	8.428	8.873	8.873	8.873
Meter-Completed	17.888	17.888	17.287	17.815	17.888	18.288	12.223	11.888	13.873	13.888
Coagulant-Flowed	8.188	8.188	8.188	8.188	8.188	8.188	8.188	8.188	8.188	8.188
Meter-Flowed	8.24	8.288	8.288	8.247	8.287	8.188	8.188	8.188	8.284	8.248
FFM	31	32	33	34	35	36	37	38	39	40
Avg. Meter-Total	338.47	33451824	2812808	3871882						
Meter-Flow-Total	478422	488	4781888	4781888						
Coagulant-Completed	8.273	8.273	8.273	8.273						
Meter-Completed	17.884	17.884	17.884	17.884						
Coagulant-Flowed	8.188	8.188	8.188	8.188						
Meter-Flowed	8.24	8.275216	51284744	3828888						

Meter to Total: 202953696
 Filtered Meters: 1
 Coagulant Meters: 15

Meter Discharge Sum: 337.88
 One Hour Average: 337.88

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 The security settings on your desktop may prevent you from viewing this message. Click this button to start the wizard.

Iron Treatment Monitoring Screen

	1	2	3	4	5	6	7
Floculant	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MinFlow	283279	485089	459667	452897	485039	484298	485348
FFM	0.44	0.286	0.294	0.287	0.290	0.297	0.296

	8	9	10	11	12	13	14
Floculant	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MinFlow	483838	483838	475347	484988	483838	500488	539274
FFM	0.24	0.240	0.240	0.284	0.288	0.498	0.140

	15	16	17	18	19	20	21
Floculant	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MinFlow	532304	548746	569774	533377	488385	454223	476486
FFM	0.44	0.479	0.476	0.488	0.288	0.248	0.240

	22	23	24	25	26	27	28
Floculant	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MinFlow	484977	484969	472233	483247	500568	576767	533883
FFM	0.24	0.288	0.247	0.287	0.498	0.288	0.288

Floculant

Meters: 1.000000

FFM: 0.491532

Frequency: 0.151325

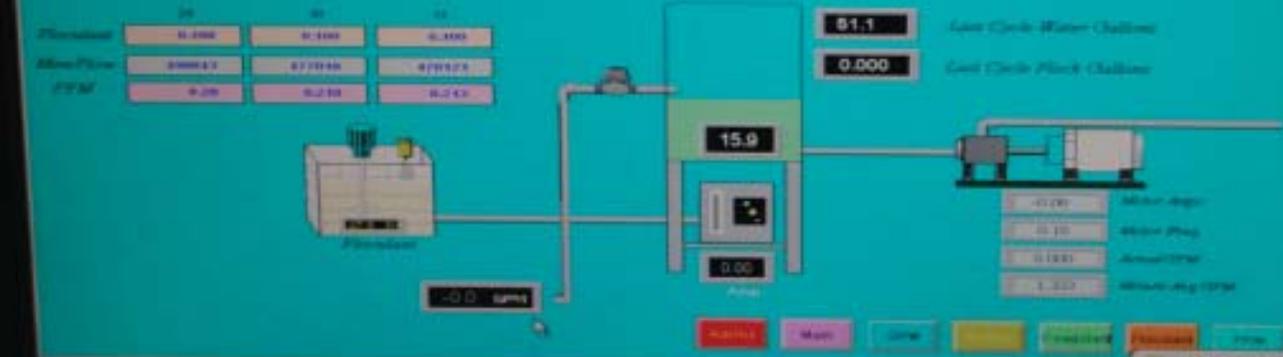
Solution GPM: 0.000000

Amper: 0.041563

Min Flow: 331.934

Mixer Setting: 1

Fing. Setting: 1



Iron Treatment Monitoring Screen

