



# 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:	C0250005
Inspection Type:	PARTIAL
Inspection Date:	Wednesday, August 31, 2016
Start Date/Time:	8/31/2016 8:30:00 AM
End Date/Time:	8/31/2016 1:00:00 PM
Last Inspection:	Tuesday, August 16, 2016

Representatives Present During the Inspection:	
OGM	Keenan Storrar
Company	Kirk Nicholes
State	Michael Herkimer

Inspector: Keenan Storrar

Weather: Sunny, 70F

InspectionID Report Number: 5626

Accepted by: DHADDOCK  
9/7/2016

Permittee: **ALTON COAL DEVELOPMENT LLC**  
 Operator: **ALTON COAL DEVELOPMENT LLC**  
 Site: **COAL HOLLOW**  
 Address: **463 North 100 West, Suite 1, CEDAR CITY UT 84720**  
 County: **KANE**  
 Permit Type: **PERMANENT COAL PROGRAM**  
 Permit Status: **ACTIVE**

#### Current Acreages

721.00	<b>Total Permitted</b>
394.00	<b>Total Disturbed</b>
144.50	<b>Phase I</b>
	<b>Phase II</b>
	<b>Phase III</b>

#### 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:

A site visit was conducted at the Coal Hollow mine on August 31st, 2016. The primary purpose of the inspection was to observe Mike Herkimer of the Division of Water Quality as he conducted inspections of the mine's UPDES and Storm Water Permits. Sediment pond 3, 5, and 6 were visited. ASCA's at the NPL and at the main mine were inspected as well as sediment control measures in Pit 10.

Inspector's Signature:

Keenan Storrar,  
Inspector ID Number: 71

Date Thursday, September 1, 2016



**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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Signs and Markers	<input 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 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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"/>

## **1. Permits, Change, Transfer, Renewal, Sale**

The Division of Water Quality issued the additional Outfalls 005, 006, 007, and 008, effective as of September 1, 2016, for the North Private Lease. The UPDES permit will expire July 31, 2018.

### **4.b Hydrologic Balance: Sediment Ponds and Impoundments**

Sediment pond 3, 5 and 6 were visited. A large rain event occurred at the site within the last week. Pond 5 held a foot of runoff that shed from the reclaimed area of pits 1 and 2 (Photo 1). The mining sequence has left Pond 6 with a very small contributing area. Pit 4, constituting the majority of the contributing area of Pond 6, is mined down to coal therefore reducing potential runoff volumes from rain storms (Photo 2). Pond 3 has been drawn down to remove accumulated sediment (Photo 3). Only water from the Pit 10 sump was discharging into the pond (Photo 4). The sump in the bottom of Pit 10 appears to be nearly complete (Photo 5). The pump was lowering the water level within the sump when we were there.

### **4.c Hydrologic Balance: Other Sediment Control Measures**

Multiple areas treated by BTCA's were overwhelmed by recent rain events. ASCA-1 in the North Private Lease (between the haul road and the county road) has failed and has not been maintained (Photo 6). This failure has allowed sediment to flow into the drop inlet of C-2 and off the permit area (Photos 7, 8, 9). NOV #21185 is issued for not maintaining ASCA-1 and for allowing suspended solids to exit the permit area.

The straw wattles along the ditch of ASCA-1 need immediate maintenance. The lowest wattle is full and no longer functioning as designed (Photo 10).

The ASCA at the entrance requires immediate maintenance (Photo 11). The straw bales need to be replaced in the borrow ditch south of the entrance road. The captured and accumulated sediment must be removed from the check dams on both sides of the road.

### **4.d Hydrologic Balance: Water Monitoring**

Mr. Herkimer spoke of the importance of taking an accurate flow measurement when an outfall is discharging. At this time Mr. Nicholes takes flow measurements using a graduated cylinder or a 5-gal bucket and stopwatch depending on the flow rate. Mr. Herkimer agreed the method of measuring discharge as volume/time is acceptable for flows ranging from a trickle up to 20 gpm. However, an additional method must be developed to more accurately capture flow rates exceeding 20 gpm at outfalls. It was suggested Mr. Nicholes work with the mine's hydrologist, Erik Peterson, to develop an acceptable method for measuring high flows.

**4.e Hydrologic Balance: Effluent Limitations**

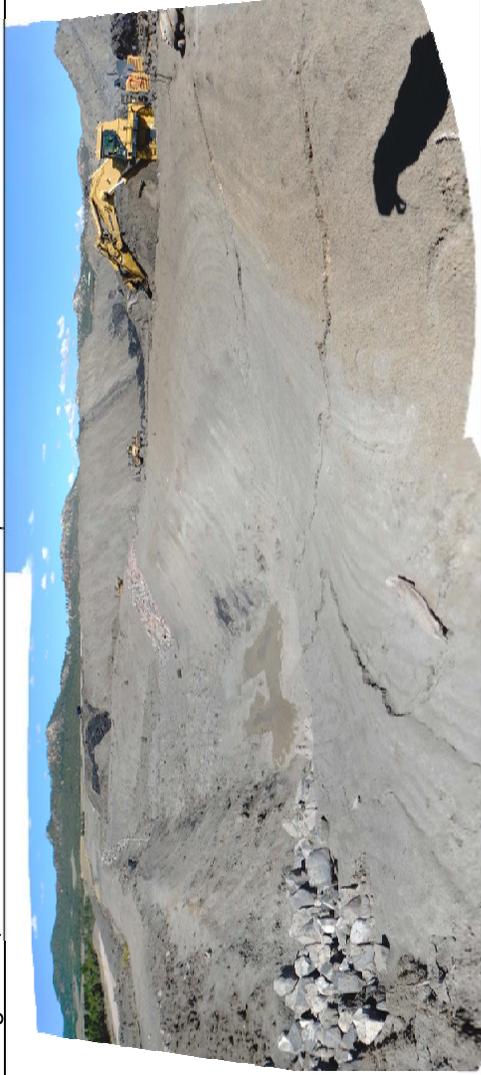
Sediment pond 5 is issued to Outfall 005 and sediment pond 6 is issued Outfall 006. Outfall 007 will be for sediment pond 7 and Outfall 008 will be for sediment pond 9 once they are constructed. Since sediment pond 7 will receive mine water discharge it is required that, "the permittee (will)... complete one chronic Whole Effluent Toxicity test on the first discharge".

**ATTACHMENT A – Photos August 31, 2016 site visit**



**PHOTO 1**

Pond 5 with 1 foot of standing water  
August 31, 2016



**PHOTO 2**

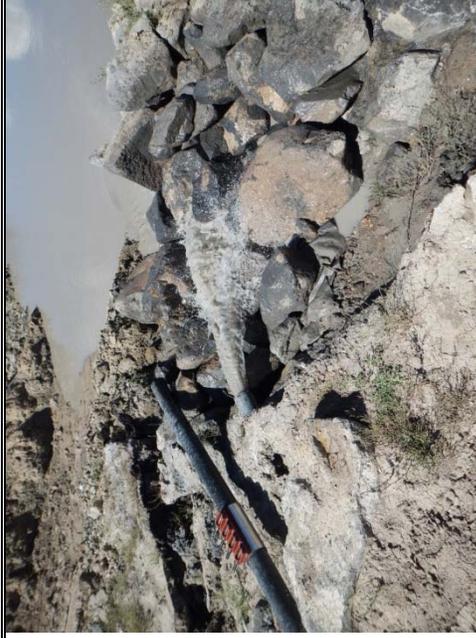
Pond 6 on the left with Pit 4 to its right. The track hoe is excavating the southern haul road.  
August 31, 2016

**ATTACHMENT A – Photos August 31, 2016 site visit**



**PHOTO 3**

Pond 3 with the water level drawn down.  
August 31, 2016



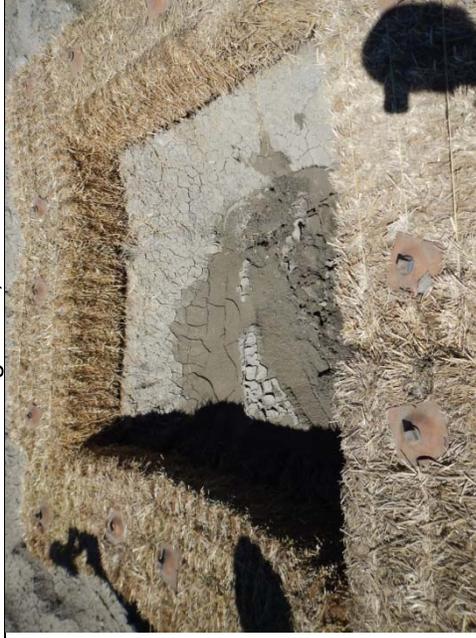
**PHOTO 4**

Pit 10 discharging to Pond 3.  
August 31, 2016



**PHOTO 5**

Sump in the bottom of Pit 10.  
August 31, 2016



**PHOTO 6**

NPL ASCA-1 has failed and has not been maintained.  
August 31, 2016

**ATTACHMENT A – Photos August 31, 2016 site visit**

	
<p><b>PHOTO 7</b> Outlet of C-2. Sediment deposited off permit area. August 31, 2016</p>	<p><b>PHOTO 8</b> Sediment plume is shown deposited further down from C-2. August 31, 2016</p>
	
<p><b>PHOTO 9</b> Lower extent of sediment plume deposit down from permit area. August 31, 2016</p>	<p><b>PHOTO 10</b> Straw wattle in ASCA-1 needs to be maintained. August 31, 2016</p>

**ATTACHMENT A – Photos August 31, 2016 site visit**



**PHOTO 11**

ASCA at main entrance must be maintained.  
August 31, 2016