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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:	**C0150015**
Inspection Type:	COURTESY
Inspection Date:	Wednesday, February 25, 2015
Start Date/Time:	2/25/2015 1:30:00 PM
End Date/Time:	2/25/2015 3:30:00 PM
Last Inspection:	Thursday, February 19, 2015

Inspector: Priscilla Burton,

Weather: WINDY 45 F

InspectionID Report Number: 4118

Accepted by: JHELFRIC
3/5/2015

Representatives Present During the Inspection:	
OGM	Priscilla Burton
Company	Russel Jensen

Permitee: **CONSOL MINING COMPANY, LLC**
Operator: **CONSOL MINING COMPANY, LLC**
Site: **EMERY DEEP MINE**
Address: **1000 CONSOL ENERGY DRIVE, CANONSBURG PA 15317**
County: **EMERY**
Permit Type: **PERMANENT COAL PROGRAM**
Permit Status: **INACTIVE**

Current Acreages

442.50	**Total Permitted**
248.50	**Total Disturbed**
	Phase I
	Phase II
	Phase III

Mineral Ownership

- [x] Federal
- [ ] State
- [ ] County
- [x] Fee
- [ ] Other

Types of Operations

- [x] Underground
- [ ] Surface
- [ ] Loadout
- [ ] Processing
- [ ] Reprocessing

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

Stantec geologist, James Sage, III was on site collecting soil samples from the topsoil and subsoil stockpile areas that were reclaimed in January 2015. I observed the procedure and recorded the area of each site.
The approximate area treated in January 2015 was 1.8 acres.
The rate of hay application placed in January 2015 at each reclamation area varied from 1.35 tons/ac to 2.22 tons/ac.
The January 2015 rate of seed application varied from 155 lbs PLS/ac to 31.5 PLS/ac.

Inspector's Signature: Priscilla Burton

Digitally signed by Priscilla Burton
DN: cn=Priscilla Burton, o, ou, email=priscillaburton@utah.gov, c=US
Date: 2015.03.05 17:12:58 -07'00'

Priscilla Burton,
Inspector ID Number: 37

Date Thursday, February 26, 2015

Note: This inspection report does not constitute an official finding of compliance with the regulatory program of the Division of Oil, Gas and Mining.

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 performace 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	☐	☐	☐	☐
2. Signs and Markers	☐	☐	☐	☐
3. Topsoil	☑	☐	☑	☐
4.a Hydrologic Balance: Diversions	☐	☐	☐	☐
4.b Hydrologic Balance: Sediment Ponds and Impoundments	☐	☐	☐	☐
4.c Hydrologic Balance: Other Sediment Control Measures	☐	☐	☐	☐
4.d Hydrologic Balance: Water Monitoring	☐	☐	☐	☐
4.e Hydrologic Balance: Effluent Limitations	☐	☐	☐	☐
5. Explosives	☐	☐	☐	☐
6. Disposal of Excess Spoil, Fills, Benches	☐	☐	☐	☐
7. Coal Mine Waste, Refuse Piles, Impoundments	☐	☐	☐	☐
8. Noncoal Waste	☐	☐	☐	☐
9. Protection of Fish, Wildlife and Related Environmental Issues	☐	☐	☐	☐
10. Slides and Other Damage	☐	☐	☐	☐
11. Contemporaneous Reclamation	☑	☐	☑	☐
12. Backfilling And Grading	☐	☐	☐	☐
13. Revegetation	☐	☐	☐	☐
14. Subsidence Control	☐	☐	☐	☐
15. Cessation of Operations	☐	☐	☐	☐
16.a Roads: Construction, Maintenance, Surfacing	☐	☐	☐	☐
16.b Roads: Drainage Controls	☐	☐	☐	☐
17. Other Transportation Facilities	☐	☐	☐	☐
18. Support Facilities, Utility Installations	☐	☐	☐	☐
19. AVS Check	☐	☐	☐	☐
20. Air Quality Permit	☐	☐	☐	☐
21. Bonding and Insurance	☐	☐	☐	☐
22. Other	☑	☐	☑	☐

3. Topsoil

One sample was taken from each reclamation area at each depth increment (0 - 6 inches and 6 - 12 inches). There were 6 locations x 2 depths = 12 samples) At one location and depth, a sample was duplicated (but not labeled as such) to provide an indication of sample variance . The total number of samples is thirteen (13).

The six locations are as follows:
regraded osmosis pond #4
undisturbed osmosis pond #4 (on the other side of the road)
regraded subsoil pile near #6 pond
regraded topsoil pile near #6 pond
regraded subsoil berm near pond #1
roughened subsoil berm near pond #1

Samples will be sent to ESC Labs in Kentucky and analyzed for pH, EC, SAR.

The combined topsoil/subsoil pile near pond #6 was signed, bermed and fenced.

11. Contemporaneous Reclamation

The approximate area treated in January 2015 was 1.8 acres. The area of each reclamation area was calculated as follows:
regraded osmosis pond #4 = 0.74 ac (area calculated by hand held GPS unit)
regraded subsoil pile near #6 pond = 0.23 acre (stepped out)
regraded topsoil pile near #6 pond = 0.71 acre (stepped out)
combined subsoil/topsoil piles near pond #6 = 0.99 acres (area calculated by hand held GPS unit)
regraded subsoil berm near pond #1 = 0.05 ac (area calculated by hand held GPS unit)
roughened subsoil berm near pond #1 = 0.01 ac (area calculated by hand held GPS unit)

The rate of hay application placed in January 2015 at each reclamation area varied from 1.35 tons/ac to 2.22 tons/ac. The rate of hay application was calculated from the GPS'd area as follows:

regraded osmosis pond #4 = 0.74 ac, therefore [50 bales X 40 lbs each / 0.74 ac] X 1 ton/2000 lbs = 1.35 tons/acre hay.

combined subsoil/topsoil piles near pond #6 = 0.99 acres, therefore [58 bales X 40 lbs each / 1 ac] X 1 ton/2000 lbs = 1.16 tons/ac hay

combined berm areas near pond #1 = 0.06 ac, therefore [6.66 bales X 40 lbs each / 0.06 ac] X 1 ton/2000 lbs = 2.22 tons/acre hay

The January 2015 rate of seed application varied from 155 lbs PLS/ac to 31.5 PLS/ac. The rate of seed application was calculated as follows:

Pond #1 combined area had 14.74 lbs of bulk seed applied. Therefore 14.74 / 0.06 ac = 245 lbs bulk seed/ac. From the label, 14.74 lbs contained 9.34 lbs Pure Live Seed. Therefore 9.34 lbs PLS/0.06 ac = 155 lbs PLS/acre.

Similar logic for the pond #4 area calculates to 42 lbs PLS/ac. 50 lbs bulk seed/ 0.74 acre = 67 lbs/acre. Using the ratio of 0.63% PLS to bulk (as described above) then, 67 bulk lbs/ac X .63 = 42 lbs PLS/ac.

The combined pond #6 topsoil/subsoil areas = 31.5 lbs PLS/ac As follows: 50 lbs bulk seed/ 1 acres = 50lbs bulk seed/ac. and 50 lbs bulk seed/ac X 0.63 = 31.5 lbs PLS/ac.

22. Other

The reclamation work was completed January 12. A light snow that blanketed the area immediately after seeding and light rainstorms hit the area on January 27 and January 31 and a snow storm put down a few inches of snow on Feb 28 and March 1st and March 2nd.

Technical Inspection Report #4118
February 25, 2015
Attachment A

Pond #4 Photos

Above: East side Pond #4 where the berm was graded and reclaimed.
Soil samples were taken from East and West side Pond #4 locations.

Soil sample location on the west side of Pond 4 (not reclaimed).

Pond #6 Topsoil and Subsoil Stockpile Photos

Soil sampling at Pond #6 Topsoil stockpile. After treatment the topsoil is dry and has a very fine consistency

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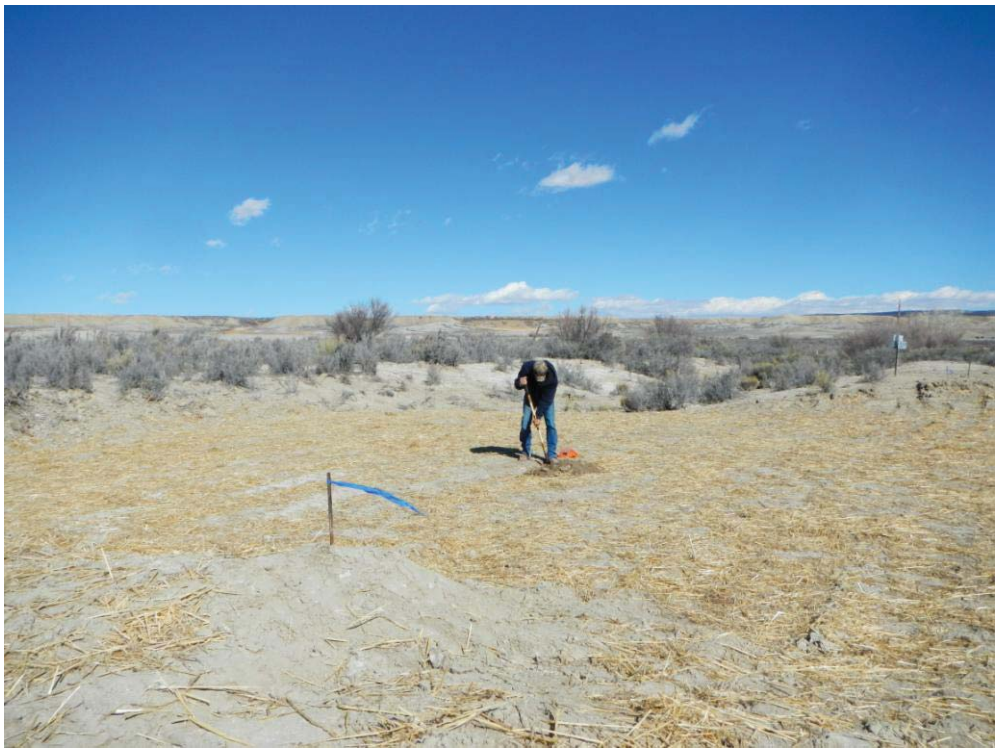
Pond #6 subsoil stockpile has more rock fragments and was slightly moist at depth.

Pond #1 Subsoil Berm Photos

February 25, 2015. James Sage III sampling 0-6 and 6-12 inches at the pond #1 subsoil berm.

Both the graded and ungraded berm soils were moist below the surface.



A compacted layer was encountered six inches below the graded surface of the subsoil berm .
The image below is a close up of the sample location above.

The ring in the sample hole denotes the six inch depth and corresponds with increased compaction. It is likely that the original ground surface was encountered at six inches.