

State of Utah
DEPARTMENT OF NATURAL RESOURCES
Division of Oil, Gas & Mining

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Quarterly Inspection Form - Refuse Disposal Areas

(please provide to DOGM promptly after inspection is complete)

Permit Number : C/025/0005 Inspection Date : 03/15/16
 Mine Name : Coal Hollow Project Quarter / Year : 1st / 2016
 Mine Operator (Permittee) : Alton Coal Development Inspector Name : Dan W. Guy
 MSHA ID # : 42-02519 Inspector Signature: *Dan W. Guy*
 Facility Name / Location / Address : 2060 South Alton Road, Alton, UT 84710

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes):
Removing spoil to Highwall Miner Trench 2. Sub Soil has been pushed to the south.

2. Lift Height / Thickness Avg 4.0' Maximum 4.0' # _____ Elevation of Active Benches : 6918 , _____ , _____
 3. Vertical Angle of Outslope(s) / Location(s) where measured 3H:1V Avg. / No. Slope / So. Slope / _____
 4. Total storage capacity: 8,600,000 cy Remaining storage capacity 7,927,000 cy Volume placed during year : 0
 5. Describe foundation preparation (including removal of vegetation, stumps, topsoil, and all other organic material) :
Topsoil and subsoil removed and stored on site.

6. Describe placement and compaction of fill materials (including an explanation of how compaction is confirmed) :
Dumped by truck / Pushed by dozer / Compaction primarily from large trucks / Tested with nuclear density unit.

7. Is there any evidence of fires or burning on the structure ? (If YES, specify extent, location, and abatement/extinguishment of such fires) :
None

8. Describe placement of under drains, protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow) :
None

9. Describe any appearances of instability, structural weakness, or other hazardous conditions :
No instability noted.

10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)

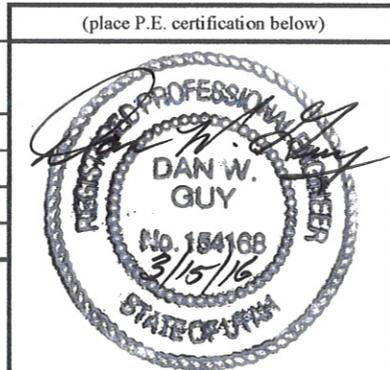
Are there cracks or scarps in crest ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	_____
Is there any detectable sloughing or bulging ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	_____
Do slope erosion problems exist ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	_____
Cracks or scarps in slope ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	_____
Surface movements? (valley bottom, hillsides)	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	_____
Erosion of Toe ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	_____
Water impounded by structure ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	_____
Are diversion ditches stable?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	_____
Is drainage positive ?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	_____

Could failure of structure create an impoundment (provide description) ? Possible small impoundment in swale below. Any impoundment would not present a major safety hazard due to location.

Are design standards established within the mining and reclamation plan for the disposal facility being met ?
Yes

Proctor Determination : 88% minimum - 98% maximum compaction as determined by nuclear density tests on 5/13/13.

I hereby certify that: I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with structure; that the fill structure has been maintained in accordance with the approved design and meets or exceeds the minimum design requirements under all applicable federal, state, and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.



IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	Report Date	03/18/16
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	Impoundment Name	Pond 1	
	Impoundment Number	Pond 1	
	MSHA Mine ID Number	42-02519	
IMPOUNDMENT INSPECTION			
Inspection Date	15-Mar-16		
Inspected By	Dan W. Guy, P.E. (Accompanied by Andrew Christensen.)		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)	Annual Inspection.		
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>N/A - None Noted.</p>			
Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.</p> <p>Sediment Storage Capacity:</p> <p>60 % Elevation: 1.26'</p> <p>100% Elevation: 2.03'</p> <p>The pond contained approximately 4.5' of water. The sediment marker is in place, and field observation shows the sediment level to be well below the cleanout elevation. The new channel to carry runoff to the single northwest inlet is completed and the inlet has been cleaned. The outlet pipe has developed a leak and is being repaired. The sediment level is estimated to be at approximately elevation 6912.5. Note: As of the report date, the outlet repair has been completed.</p>		
	<p>3. Principle and emergency spillway elevations.</p> <p>Principle and Emergency Spillway Elevation: 6920 feet (The outlet structure for Pond 1 serves as both the Principle and Emergency Spillways)</p> <p>Total volume of pond at Spillway: 3.1 Acre-Feet (Elev. 6920.00')</p> <p>Required runoff storage: 2.57 Acre-Feet</p>		

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outlooses of embankments, etc.

The water level is approximately at elevation 6917.0. The sediment accumulation in the inlet has been removed. The work is completed to route all of the runoff to a single inlet at the northwest corner of the pond. The outlet pipe is being repaired to stop the leak. (As of the report date, the outlet repair has been completed).

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The only noted changes in the structure during the 1st quarter, other than those listed in No.4 above, was a slight increase in the depth of the water.

Certification Statement



I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: Dan W. Guy, P.E.

(Full Name and Title)

Signature: *Dan W. Guy* Date: 3/18/16

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	Report Date	03/18/2016
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	Impoundment Name	Pond 1B	
	Impoundment Number	Pond 1B	
	MSHA Mine ID Number	42-02519	
IMPOUNDMENT INSPECTION			
Inspection Date	15-Mar-16		
Inspected By	Dan W. Guy, P.E. (Accompanied by Andrew Christensen.)		
Reason for Inspection <small>(Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)</small>	Annual Inspection.		
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>N/A - No appearance of any instability, structural weakness or other hazardous condition was noted.</p>			
Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.</p> <p>Sediment Storage Capacity: 60 % Elevation: 6900.00 (6.00') 100% Elevation: 6902.08 (8.08')</p> <p>The pond contained approximately 3.0' of water. The sediment marker is in place. Field observation shows the sediment level to be well below the cleanout elevation. The approximate sediment elevation is 6898.0. Inlets have been cleaned.</p>		
	<p>3. Principle and emergency spillway elevations.</p> <p>Principle and Emergency Spillway Elevation: 6906 feet (The outlet structure for Pond 1B serves as both the Principle and Emergency Spillways)</p> <p>Total volume of pond at Spillway: 0.894 Acre-Feet (Elev. 6906.45)</p> <p>Required runoff storage: 0.50 Acre-Feet</p>		

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

The water level is approximately at elevation 6901.0. There are 2 inlets to the pond - both have been rip-rapped. Both inlets appear stable and are functioning properly. Both inlets have been cleaned. The outlet is also open and functional.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The only change to the pond since the last inspection is a decrease in the water level and the inlets have been cleaned.

Certification Statement



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By: Dan W. Guy, P.E.

(Full Name and Title)

Signature

Dan W. Guy

Date:

3/18/16

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	Report Date	03/18/2016
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	Impoundment Name	Pond 2	
	Impoundment Number	Pond 2	
	MSHA Mine ID Number	42-02519	
IMPOUNDMENT INSPECTION			
Inspection Date	15-Mar-16		
Inspected By	Dan W. Guy, P.E. (Accompanied by Andrew Christensen.)		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)	Annual Inspection.		
1. Describe any appearance of any instability, structural weakness, or any other hazardous condition. N/A - No appearance of any instability, structural weakness or other hazardous condition was noted.			
Required for an impoundment which functions as a SEDIMENTATION POND.	2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment. Sediment Storage Capacity: 60 % Elevation: 6894.07 (3.07') 100% Elevation: 6895.72 (4.72') The pond contained approximately 5.0' of water. The sediment marker is in place, and field observation shows the sediment level to be well below the cleanout elevation. The approximate sediment elevation is 6891.5. The outlet pipe is leaking and is being repaired. Note: As of the report date, the outlet repair has been completed.		
	3. Principle and emergency spillway elevations. Principle and Emergency Spillway Elevation: 6900 feet (The outlet structure for Pond 2 serves as both the Principle and Emergency Spillways) Total volume of pond at Spillway: 2.675 Acre-Feet (Elev. 6901.09') Required runoff storage: 1.70 Acre-Feet		

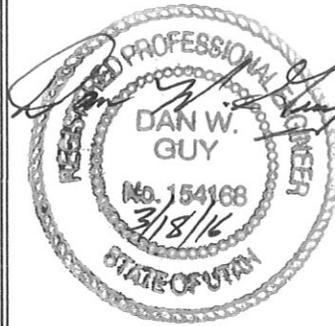
4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on out slopes of embankments, etc.

The water level is approximately at elevation 6896.5. The single pond inlet is rip-rapped and has some sediment accumulation. The outlet is leaking at a joint below the riser, and is being repaired to stop the leak. (As of the report date, the outlet repair has been completed).

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The only changes in the pond since the last inspection was the increase in water level and the leak at the outlet pipe. The leak was under repair at the time of the inspection, and as of the date of this report, the repair has been completed.

Certification Statement



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By: Dan W. Guy, P.E.

(Full Name and Title)

Signature: Dan W. Guy Date: 3/18/16

IMPOUNDMENT INSPECTION AND REPORT

Permit Number	C/025/0005	Report Date	03/18/2016
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	Impoundment Name	Pond 3	
	Impoundment Number	Pond 3	
	MSHA Mine ID Number	42-02519	

IMPOUNDMENT INSPECTION

Inspection Date	15-Mar-16
Inspected By	Dan W. Guy, P.E. (Accompanied by Andrew Christensen.)
Reason for Inspection <small>(Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)</small>	Annual Inspection.

1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.
 No instability or hazardous conditions were noted.

Required for an impoundment which functions as a SEDIMENTATION POND.	2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment. Sediment Storage Capacity: 60 % Elevation: 6807.80 (7.74') 100% Elevation: 6808.50 (8.44') The pond contained approximately 8.0' of water. The sediment marker is in place, and field observation shows the sediment level to be well below the cleanout elevation. The approximate average sediment elevation is 6801.2. An additional mine water discharge pipe has been added at the upper edge of the pond.
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	3. Principle and emergency spillway elevations. Principle and Emergency Spillway Elevation: 6811 feet (The outlet structure for Pond 3 serves as both the Principle and Emergency Spillways) Total volume of pond at Spillway: 12.96 Acre-Feet (Elev. 6811.00') Required runoff storage: 6.72 Acre-Feet Decant Elevation: 6808.0
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4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outlopes of embankments, etc.

The water level is approximately at elevation 6809.0. A decant has been installed at elevation 6808.0. An extra mine discharge pipe has also been installed with rip-rap at the upper edge of the pond adjacent to the previously installed pipe. This is a back-up pipe, and only one pipe is used at a time.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The only change since the last inspection is the slight increase in the water level and the addition of the back-up mine discharge line.

Certification Statement



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By: **Dan W. Guy, P.E.**

(Full Name and Title)

Signature:

Dan W. Guy

Date:

3/18/16

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	Report Date	03/18/2016
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	Impoundment Name	Pond 4	
	Impoundment Number	Pond 4	
	MSHA Mine ID Number	42-02519	
IMPOUNDMENT INSPECTION			
Inspection Date	15-Mar-16		
Inspected By	Dan W. Guy, P.E. (Accompanied by Andrew Christensen.)		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)	Annual Inspection.		
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>No instability of the embankment or hazardous condition was noted during the inspection.</p>			
Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.</p> <p>Sediment Storage Capacity: 60 % Elevation: 6832.0 (3.78') 100% Elevation: 6833.0 (4.82')</p> <p>The pond contained approximately 2.5' of water . The sediment marker is in place, and field observation shows the sediment level to be well below the cleanout elevation. The bottom of pond and approximate sediment elevation is 6828.7.</p>		
	<p>3. Principle and emergency spillway elevations.</p> <p>Principle and Emergency Spillway Elevation: 6834 feet (The outlet structure for Pond 4 serves as both the Principle and Emergency Spillways)</p> <p>Total volume of pond at Spillway: 5.50 Acre-Feet (Elev. 6834.00')</p> <p>Required runoff storage: 2.10 Acre-Feet</p>		

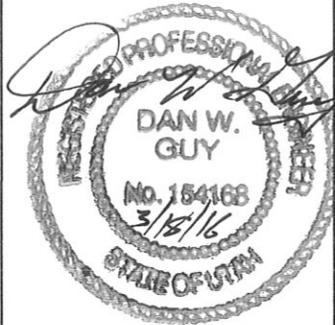
4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outlopes of embankments, etc.

The average water elevation is approximately 6831.0. The open-channel spillway is in place and ripped. No discharge.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The only change since the last inspection is the pond is no longer frozen.

Certification Statement



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By: **Dan W. Guy, P.E.**

(Full Name and Title)

Signature: *Dan W. Guy* Date: 3/8/16