Incoming
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OGMCOAL - Skyline Mine Certified reports

From: "Galecki, Gregg" <GGalecki@archcoal.com>
To: "OGMCOAL@utah.gov" <OGMCOAL@utah.gov>, "Karl Houskeeper (karlhouskeeper@u...
Date: 1/25/2010 10:07 AM
Subject: Skyline Mine Certified reports
CC: "Galecki, Gregg" <GGalecki@archcoal.com>
Attachments: Refuse_4th09.pdf; Pond003_4th09.pdf; Pond001_4th09.pdf; Pond002_4th09.pdf

Attached are the 4th Quarter Certified reports for the Skyline Mine.

Gregg A. Galecki
Environmental Engineer
Skyline Mines,
Canyon Fuel Company, LLC
(435)448-2636

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE			
Permit Number	C/007/005	**Report Date**	January 22, 2010
Mine Name	Skyline Mines		
Company Name	Canyon Fuel Company, LLC		
Excess Spoil Pile or Refuse Pile Identification	**Pile Name**	Skyline Waste Rock Site	
	Pile Number	1211-UT-09-01566-01	
	MSHA Mine ID Number	42-01566	
Inspection Date	December 3, 2009		
Inspected By	Gregg Galecki / Carl Winters		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		Quarterly	
		Attachments to Report? ✗ **No** **Yes**	

Field Evaluation

No significant problems with the waste site were observed during the 4th quarter 2009.

1. **Foundation preparation, including the removal of all organic material and topsoil.**

No contemporaneous reclamation was performed at the site during the quarter.

2. **Placement of underdrains and protective filter systems.**

No underdrains are present or required at this site. Areas that are to final grade, are capped with the prescribed amount of topsoil, seeded, top-dressed with straw, then held in place with a matting material.

3. **Installation of final surface drainage systems.**

Existing surface is not at final contour. Therefore, final surface drainages have not yet been constructed. All surface runoff from the refuse pile is treated by the sediment pond. No water is allowed to impound on the pile. Runoff from the main access road below the sediment pond is treated by straw bale and silt fence dikes.

4. **Placement and compaction of fill materials.**

No waste rock material was hauled into the pile during the quarter. No re-allocation of Waste Rock from the pile was conducted in 2009. Waste rock deposited at the site is placed in lifts of 24-inches or less, and compacted in place using a tracked dozer and sheeps-foot roller or another method to insure stabilization at final placement. Minor settling of the top surface of the pile occurred during 2009. The top of the pile was re-graded do insure no impoundment of water was occurring and all surface flow reported to the sediment pond.

5. **Final grading and revegetation of fill.**

When the waste rock is placed permanently, contemporaneous reclamation of the waste rock pile will take place as the site is backfilled. The backfill slopes are built to 1 1/2h:1v or less and seeded as described in the final reclamation plan. The seed mix specified in the Reclamation Plan is planted after the placement of topsoil.

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		

6. Appearances of instability, structural weakness, and other hazardous conditions.

No obvious instability or structural weakness was noted during the 4th quarter 2009 inspection. No signs of slumping or heating were observed. A possible 'bulge' on the southwest side of the pile has been monitored for the last few quarters to gauge for any possible instability. No obvious changes have been noticed. The highwall that is reappearing due to the removal of material will be monitored to ensure no loose coal or rock is retained on the highwall.

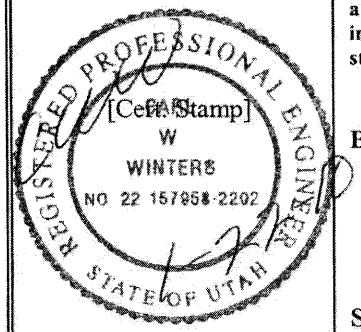
The sedimentation pond was snow covered and contained minor ice / water in the northwest ¼ of the poind. Drainage ditches reporting from the pile to the Sedimentation pond were functioning as designed.

No hazardous conditions were observed at the time of the inspection.

7. Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.

Historic records indicated the total storage capacity was approximately 334,125 tons. An application to expand the size of the refuse pile was approved February 29, 2008. A portion of the expansion area has been used for topsoil storage. During the quarter approximately 140 tons of subsoil (colluvium) removed from beneath the Overland Conveyor structure was placed at the Waste Rock site. The material was placed in a pile immediately adjacent to the topsoil pile. The pile was seeded and top-dressed with straw for protection from wind and water erosion.

Certification Statement



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 the certified and approved designs for this structure; that the fill structure 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: Carl W. Winters, Engineering Manager

(Full Name and Title)

Signature: **Date:** January 22, 2010

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			
Permit Number	C/007/005	**Report Date**	January 22, 2010
Mine Name	Skyline Mines		
Company Name	Canyon Fuel Company		
Impoundment Identification	**Impoundment Name**	Waste Rock Site Sediment Pond	
	Impoundment Number	003	
	UPDES Permit Number	UT0023540	
	MSHA ID Number	NA	

IMPOUNDMENT INSPECTION

Inspection Date	December 3, 2009
Inspected By	Carl Winters / Gregg Galecki
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Quarterly

1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

No instability, structural weakness or other hazardous condition was noted at the site during the quarterly pond site inspection.

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: 9939 ft^3
60% Elevation: 7857.2 feet ASL (above sea level)
100% Elevation: 7858.1 ASL
Current Sediment Level Elevation: The pond was cleaned of sediment in August 2007. The pond was resurveyed to estimate the available sediment capacity following the cleaning. A bedrock shelf exists in the bottom of the pond, enabling portions of the pond to be deeper in areas where the shelf does not exist. The pond was snow covered during the inspection with little ice / water in it.

3. Principle and emergency spillway elevations.

Principal and Emergency Spillways Elevation: 7864.0 feet ASL (The outlet of Pond 003 serves as both the principal and emergency spillway). A manual decant pipe in the pond marks the sediment cleanout elevation of 7857.2 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 including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

This pond did not discharge during the 4th quarter of 2009, therefore no water samples were obtained. The out slopes of the pond embankment do not appear to present any type of hazardous conditions. No instability was noted in the pond embankment. The pond embankment is stabilized with native grasses – and portions of the outslope of the embankment were widened in 2009 to accommodate the existing road on top of the embankment.. The pond was thoroughly cleaned in August 2007, and the capacity land surveyed. Based on the survey, the pond has a sediment capacity of approximately 9939 cu-ft.

The current sediment storage capacity is based on the 2007 survey. The perimeter footprint of the pond did not change during the cleaning project, only the depth of the pond was modified.

The pond is routinely inspected during weekly water monitoring, with the exception late 4th quarter and the 1st quarter when the site is inaccessible to vehicles due to snow.

5. Field Evaluation. Describe any changes in the geometry of the impounding 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 pond was cleaned in August 2007. No changes or modifications from the cleaning have been noted in the geometry or perimeter footprint of the pond since the last inspection. Typically, the pond was dry during the quarter – containing minor water immediately after precipitation event. The estimated sediment storage capacity is approximately 95 percent of the 9939 cu-ft capacity. Minimal run off was encountered during the quarter, with the pond functioning as designed.

Qualification 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 and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability. **Signature:** _____ **Date:**

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	Yes	
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?	Yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	Yes	

COMMENTS AND OTHER INFORMATION

The pond did not discharge in 2009.

Certification Statement:

[PE Cert. Stamp]

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify 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 in accordance with the Utah R645 Coal Mining Rules.

By:
Carl W. Winters, Engineering Manager

Signature: **Date:** January 22, 2010

P.E. Number & State:

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			
Permit Number	C/007/005	**Report Date**	January 22, 2010
Mine Name	Skyline Mine		
Company Name	Canyon Fuel Company		
Impoundment Identification	**Impoundment Name**	Mine Site Sediment Pond	
	Impoundment Number	001	
	UPDES Permit Number	UT0023540	
	MSHA ID Number	NA	

IMPOUNDMENT INSPECTION

Inspection Date	December 3, 2009
Inspected By	Carl Winters / Gregg Galecki
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Quarterly

1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

No signs of instability were observed. No hazardous conditions were observed during the inspection of the pond. The pond was iced over with no water discharging at the time of the inspection. The pond is incised, with all the banks appearing stable. Particular attention was paid to the pond banks looking for signs of instability or structural weakness. The pond was last cleaned in the 3rd Quarter 2008.

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: 132,013 ft^3 (based on 2008 survey)
60% Elevation: 8571.23 feet ASL (above sea level)
100% Elevation: 8573.50 feet ASL
The elevation of the sediment within the pond at the discharge point was not measured due to thick ice. No significant increase of sediment accumulation was noted with the exception of moderate delta of sediment from the pond inlet to the first turbidity curtain.

3. Principle and emergency spillway elevations.

Principal and Emergency Spillway Elevations: 8579.6 feet ASL (The outlet structure for Pond 001 serves as both the Principal and Emergency Spillways)
Total volume of pond at Spillway: 295,023 ft^3
Required runoff storage: 163,010 ft^3
100% Sediment storage: 132,013 ft^3
60% Sediment storage: 79,208 ft^3

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		

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 including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

Water level at discharge point (8579.6 ft ASL) was 'flush' with the discharge outlet, but not discharging. The sediment pond discharged periodically the quarter, ranging in flow from 0 to approximately 111 gpm. A sample of the mine discharge water, (normally) including this pond's discharge, is taken on weekly basis throughout the quarter as required by the Mine's UPDES permit. On a biweekly basis the water sample is analyzed for total iron. The frequency of analysis for Total Phosphorus has been reduced from monthly to quarterly per DWQ direction in June 2007. Weekly samples include oil and grease, total dissolved solids, total suspended solids, pH and conductivity. Flow is record by in-line flow meters.

Surface water is collected from the upper mine pad and discharged to the pond through a culvert located on the west end of the pond. The culvert is functioning as designed. The outlet structure was working as designed and appears to be in good working condition. The pond is an incised structure. Minimal vegetation exists on the banks.

A series of turbidity curtains are installed in the pond to help reduce the suspended load within the pond. The spillway was clear of debris, and functioning as designed.

5. Field Evaluation. Describe any changes in the geometry of the impounding 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 overall geometry of the pond has not changed based on both the cleaning and land survey conducted in 3rd Quarter 2008. The survey indicated portions of the pond are slightly deeper than the as-built construction. The pond discharged periodically during this quarter. The minimum water elevation was approximately 0.10 feet below the spillway structure. Based on the September 2008 survey, approximately 132,013 ft^3 of sediment storage is available in the pond. With the 3rd quarter sediment elevation of 8568.20 feet, approximately 44,776 ft^3 of sediment storage remains to fill the pond to the 60% sediment storage level.

The pond is scheduled for cleaning in 2010.

Qualification 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 and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability. **Signature:** _____ **Date:**

CERTIFIED REPORT

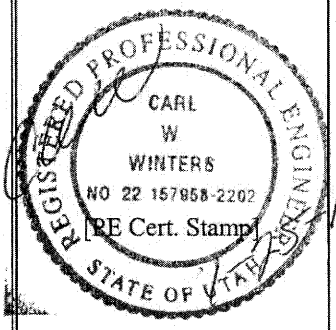
IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	Yes	
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?	Yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	Yes	

COMMENTS AND OTHER INFORMATION

Exceedances of the tons/per day permit limit have occurred in this quarter and throughout 2009. However, since the water quality was acceptable with regard to all other parameters and Skyline Mine is participating in a downstream salinity reduction program with the Utah Division of Water Quality (as allowed in the Mine's UPDES Permit), no enforcement action is warranted.

The pond is inspected from a general perspective on a weekly basis while collecting discharge samples.

Certification Statement:



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By: Carl W. Winters, Engineering Manager

Signature: _____ **Date:** January ~~22~~ 25, 2010

P.E. Number & State:

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			
Permit Number	C/007/005	**Report Date**	January 22, 2009
Mine Name	Skyline Mines		
Company Name	Canyon Fuel Company		
Impoundment Identification	**Impoundment Name**	Rail Loadout Sediment Pond	
	Impoundment Number	002	
	UPDES Permit Number	UT0023540	
	MSHA ID Number	NA	

IMPOUNDMENT INSPECTION

Inspection Date	December 3, 2009
Inspected By	Gregg Galecki / Carl Winters
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Quarterly

1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

No instability of the embankment or hazardous conditions was noted during the inspection. The inlet is slightly eroding; armoring rock / rip rap will be added in the Spring.

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 averag elevation of existing sediment.

Sediment Storage Capacity: 22,963 ft^3
60% Elevation: 7914.46 feet ASL (above sea level)
100% Elevation: 7915.40 ASL
The current elevation of the sediment within the pond was not measured due to thick ice and snow. Nc significant amount of material appears to have been added to the pond since the last inspection. The turbidity curtain at the southeast corner of pond was inundated with sediment – the surface crew repaired this situation following the inspection.

3. Principle and emergency spillway elevations.

Principle Spillway Elevation: 7919.7 feet ASL
Emergency Spillway Elevation: 7922 feet ASL
Total volume of pond at Spillway: 68,701 ft^3
Required runoff storage: 45,738 ft^3
100% Sediment Storage: 22,963 ft^3
60% Sediment Storage: 13,778 ft^3

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 including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

The depth of the ice/snow was 2.27 feet below the spill point of the principal spillway at the time of the inspection.

The pond did not discharge during the quarter. The pond embankment appears stable and without noticeable erosion. The footprint of the pond remains unchanged.

Two turbidity curtains contain a majority of material in the upper, west side and south sides (inlets) of the pond where sediment can be periodically removed. The pond currently has three (3) turbidity curtains. The discharge pipe or outlet is in good condition and functioning as designed.

The pond was completely drained and cleaned during the 3rd quarter 2007. The 2007 survey indicated the available sediment capacity is approximately 22,963 ft^3.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding 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 geometry of the pond does not appear to have changed significantly with the removing of sediment in September 2007. Minor deltas continuously upstream of the turbidity curtains installed at the inlets. On average, the water depth was 2-3 feet below the depth of the discharge pipe during the quarter. With a current sediment elevation of approximately 7913.8 ft, approximately 5,814 ft^3 of sediment storage remains to fill the pond to the 60% sediment storage level. The volume calculations are based on a survey conducted in the Fall 2007 following the cleaning of the pond. The visual inspection indicated minimal additional sediment was accumulated during the quarter.

The pond is routinely inspected on a weekly basis during weekly water monitoring.

The pond is scheduled for cleaning in 2010.

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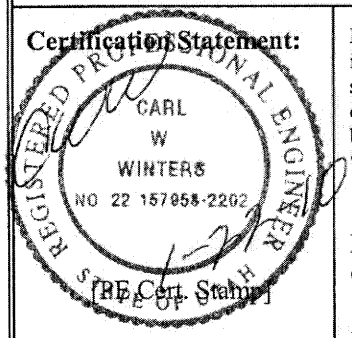
CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	Yes	
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?	Yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	Yes	

COMMENTS AND OTHER INFORMATION

Certification Statement:



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By:
Carl W. Winters, Engineering Manager

Signature: **Date:** January 22, 2010

P.E. Number & State: