

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of 2	
Permit Number	ACT/007/039	Report Date	6/04/2019
Mine Name	Dugout Canyon Mine		
Company Name	Canyon Fuel Company, LLC		
Impoundment Identification	Impoundment Name	Refuse Pile Sedimentation Pond #1	
	Impoundment Number	None	
	UPDES Permit Number	UT0025593	
	MSHA ID Number	Impoundment -None (Refuse Pile 1211-UT-09-01890-01)	
IMPOUNDMENT INSPECTION			
Inspection Date	2/08/2019		
Inspected By	Seth McCourt		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Quarterly Inspection / Certification		
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p><i>Construction of the Refuse Pile Sedimentation Pond has been completed in accordance with the approved plan. There were no signs instability, structural weakness or other hazardous conditions observed during this inspection.</i></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><i>Sediment Storage Capacity (as-built) - 100% = 0.67 acre-feet @ an elevation of 5,897.55 feet</i> <i>- 60% = 0.40 acre-feet @ an elevation of 5,896.5 feet</i></p> <p><i>At the time of the inspection, the estimated average elevation of the existing sediment was 5,895.5 feet.</i></p>		
	<p>3. Principle and emergency spillway elevations.</p> <p><i>Emergency Spillway Elevation (as-built) - 5,902.5 feet</i></p>		
<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 including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on out slopes of embankments, etc.</p> <p><i>The pond was wet at the time of the inspection.</i></p> <p><i>Sediment levels were observed as being below the established 60% levels.</i></p> <p><i>This pond has never discharged.</i></p>			

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.

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: *Sety McEant* Date: 6/4/19

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)

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

COMMENTS AND OTHER INFORMATION

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: R. Jay Marshall, Engineering Supervisor
(Full Name and Title)

Signature: _____ Date: 10/16/18

P.E. Number & State: No. 152606, State of Utah

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of 2	
Permit Number	ACT/007/039	Report Date	6/04/2019
Mine Name	Dugout Canyon Mine		
Company Name	Canyon Fuel Company, LLC		
Impoundment Identification	Impoundment Name	Surface Facility Sedimentation Pond	
	Impoundment Number	None	
	UPDES Permit Number	UT0025593	
	MSHA ID Number	Impoundment - None (Mine - 42-01890)	
IMPOUNDMENT INSPECTION			
Inspection Date	2/02/19		
Inspected By	Jay Marshall		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Routine Quarterly Inspection		
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p><i>There were no signs of instability, structural weakness or other hazardous conditions observed during this inspection.</i></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><i>Sediment Storage Capacity - 100% = 0.34 acre-feet @ an elevation of 6,953.56 feet</i> <i>- 60% = 0.20 acre-feet @ an elevation of 6,951.66 feet</i></p> <p><i>At the time of the inspection, a conservative estimate on sediment volume is 34%, which would correspond to an elevation of approximately 6,950.25 feet. With the increase in storm events in the fall it appears that the sediment level is increasing slightly.</i></p>		
	<p>3. Principle and emergency spillway elevations.</p> <p><i>Principal Spillway Elevation - 6,964.44 feet</i> <i>Emergency Spillway Elevation - 6,964.5 feet</i></p>		
<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 including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on out slopes of embankments, etc.</p> <p><i>In 2017, Nielson Construction completed the last sedimentation pond cleanout on August 5th & 6th.</i></p>			

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.

At the time of the inspection, the level of the impounded water was approximately 2.0 feet below the bottom of the skimmer at the principal spillway riser.

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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?	X	
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?	X	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	X	

COMMENTS AND OTHER INFORMATION

Certification Statement:

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By: R. Jay Marshall Engineering Supervisor
(Full Name and Title)

Signature: _____ Date: 6/04/2019

P.E. Number & State: No. 152606, State of Utah

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of 2	
Permit Number	C/007/039	Report Date	6/04/2019
Mine Name	Dugout Canyon Mine		
Company Name	Canyon Fuel Company, LLC		
Impoundment Identification	Impoundment Name	Surface Facility Wastewater Disposal System (Leach Field)	
	Impoundment Number	None	
	UPDES Permit Number	None	
	MSHA ID Number	None (Mine - 42-01890)	
IMPOUNDMENT INSPECTION			
Inspection Date	2/08/2019		
Inspected By	Jay Marshall		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Routine Quarterly Inspection		
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p><i>There were no signs of instability, structural weakness or other hazardous conditions observed during this inspection.</i></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>3. Principle and emergency spillway elevations.</p>		
<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 including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on out slopes of embankments, etc.</p> <p><i>At the time of the inspection, the leach field site appeared to be functioning as designed. There was no evidence to suggest that any effluent was improperly flowing to the surface at the facility site, at the septic tank, at the distribution line clean-outs or air vent.</i></p>			

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.

During the 2015 repair and maintenance activities, all rubber rabbitbrush was grubbed from the site. This removal of the rubber rabbitbrush was intended to help minimize the root impact to the facilities subsurface laterals. Control of the rubber rabbitbrush has continued, with the most recent select spraying being implemented during July 2018.

Qualification Statement

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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?	X	
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?	X	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	X	

COMMENTS AND OTHER INFORMATION

The Dugout Canyon Mine wastewater disposal system was approved for operation on October 30, 2001. The Utah Department of Environmental Quality, Southeast Utah District, granted this approval.

Certification Statement:

[PE Cert. Stamp]

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By: R. Jay Marshall, Engineering Supervisor
(Full Name and Title)

Signature: _____ **Date:** 6/04/2019

P.E. Number & State: No. 152606, State of Utah

To enter text, click in the box and type your response. If a box already contains an entry select the entry and type the replacement. You can use the tab key to move from one field to the next. To select a check box, click in the box or type an x.

GENERAL INFORMATION

Report Date April 16, 2019
Permit Number C/007/039
Company Name Canyon Fuel Company, LLC - Dugout Canyon Mine

EXCESS SPOIL PILE OR REFUSE PILE IDENTIFICATION

Pile Name Dugout Canyon Mine Refuse Pile
Pile Number 1211-UT-09-01890-01
MSHA ID Number 42-01890

Inspection Date March 28, 2019
Inspected By Jay Marshall
Reason for Inspection Quarterly Inspection & Certification

Attachment to Report? Yes No

Field Evaluation

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

The foundation preparation was found to be in accordance with the approved plan.

2. Placement of underdrains and protective filter systems.

N/A

3. Installation of final surface drainage systems

All necessary drainage systems were constructed, functional and well established at the time of the inspection.

On June 7, 2017, DOGM granted the final approval of the Phase II expansion of this facility. Construction of the Phase II expansion commenced on August 14, 2017. This initial work concentrated on the construction of the 2nd sediment pond for the facility. The 2nd sediment pond has subsequently been completed and the "as-built" details were submitted to DOGM on 2/20/18. DOGM's conditional approval was granted on 3/9/18, pending the resubmittal of "clean" copies. Dugout submitted the "clean" copies on 3/14/18 and final approval was received from DOGM on 3/20/18.

4. Placement and compaction of fill materials

Placement and compaction of this refuse appears to have been completed in accordance with the approved plan.

5. Final grading and revegetation of fill.

As part of the Phase II expansion process, newly recovered soils were relocated and utilized for the contemporaneous reclamation of the northern portion of the existing refuse pile. All planned contemporaneous reclamation is now complete. This work included subsoil placement, topsoil placement, seeding and finalizing with select erosion control stabilization methods. With the wet winter and spring faint signs of vegetation is appearing on the reclaimed portion of the site.

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

There was no appearance of instability, structural weakness or other hazardous conditions observed during this 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

The site was not active at the time of the inspection. However, refuse placement has now expanded into the southern slope of the refuse pile. This new refuse volume is actively being placed in the additional space provided by the Phase II expansion.

A check of the records indicates that 8,674.51 Tons / 12,881.65 Yards was delivered from the Castle Valley Prep Plant to this facility YTD. Records also indicate that the most recent sample of refuse taken for analysis was obtained on 3/27/19.

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 the 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.

By R. Jay Marshall, Engineering Supervisor
Full Name and Title

Signature *R. Jay Marshall* Date 4/16/19

P.E. Number and State No. 152606, State of Utah

[Cert. Stamp]



IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of 2	
Permit Number	ACT/007/039	Report Date	6/04/2019
Mine Name	Dugout Canyon Mine		
Company Name	Canyon Fuel Company, LLC		
Impoundment Identification	Impoundment Name	Refuse Pile Sedimentation Pond #2	
	Impoundment Number	None	
	UPDES Permit Number	UT0025593	
	MSHA ID Number	Impoundment -None (Refuse Pile 1211-UT-09-01890-01)	
IMPOUNDMENT INSPECTION			
Inspection Date	2/08/2019		
Inspected By	Seth McCourt		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Quarterly Inspection and Annual Certification		
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p><i>Construction of the Refuse Pile Sedimentation Pond #2 was completed in October 2017. There were no signs of instability, structural weakness or other hazardous conditions observed during this inspection.</i></p>			
<p>Required for an impoundment which functions as a SEDIMENTATION POND.</p>	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</p> <p><i>Sediment Storage Capacity (as-built) - 100% = 0.68 acre-feet @ an elevation of 5,862.67 feet</i> <i>- 60% = 0.41 acre-feet @ an elevation of 5,861.45 feet</i> <i>At the time of the inspection, the estimated average elevation of the existing sediment was 5,858.0 feet.</i></p>		
	<p>3. Principle and emergency spillway elevations.</p> <p><i>Emergency Spillway Elevation (as-built) – crest at 5,867.25 feet</i></p>		
<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 including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on out slopes of embankments, etc.</p> <p><i>The pond was constructed in October 2017.</i> <i>The pond was wet at the time of the inspection.</i> <i>Given the dry weather conditions since construction, it appears that this impoundment has yet to receive any significant runoff and the existing sediment accumulation is negligible.</i></p>			

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.

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: *[Handwritten Signature]* Date: 6/4/19

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)

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

COMMENTS AND OTHER INFORMATION

Certification Statement:

[PE Cert. Stamp]

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By: R. Jay Marshall Engineering Supervisor
(Full Name and Title)

Signature: _____ Date: 6/04/2019

P.E. Number & State: No. 152606 State of Utah

Pace Cyn. Sediment Trap		Date	Time	Inspector(s) Signature		Quarterly Inspection Form	
		3/20/2019	9:29				
Site: 006				Person Notified		Date Corrected	
Permit # UT0025593							
Stability of Pond							
Basin stability/weakness		X					
Erosion/Stability of banks		X					
Vegetation problem around basin		NO					
Hazardous Condition							
Any visible contaminants		NO					
Hazardous condition observed		NO					
Inlet Conditions							
Inlet functioning		X					
Culvert(s)/ditches		X					
Principle & Emergency Spillways							
Water Discharging (rate)		X					
Pond water level		X					
Spillway is clear of debris		X					
Oil skimmer		X					
Emergency spillway		X					
Primary spillway		X					
Other Useful Information							
Last cleaning date for basin		Value NA		Sediment Storage Capacity/ Elevation 100% sediment storage capacity (ft ³)		Value 5,714.5	
Primary Spillway elevation (ft.)		6,991		50% sediment storage capacity (ft ³) Cleaning is recommended at this elev.		0.1312 acre-ft.	
Emergency Spillway elevation (ft.)		6,993		Current sediment Volume ft ³ (est.)		2,175.2	
				Remaining storage capacity ft ³ (est.)		486	
				Percent sediment volume		1,689	
						9%	
Other Observations:							