Suzanne Steab <suzannesteab@utah.gov>

Dugout Inspection Reports

David Spillman <Dspillman@bowieresources.com> Tue, Jun 27, 2017 at 3:45 PM
To: Karl Houskeeper <karlhouskeeper@utah.gov>, "Suzanne Steab (suzannesteab@utah.gov)" <suzannesteab@utah.gov>
Cc: Kirt Tatton <Ktatton@bowieresources.com>, Bill King <bking@bowieresources.com>

Karl, Suzanne,

For your information, I've attached the 2nd quarter inspections / annual certifications for Dugout's refuse sediment pond and the mine facilities leach field. Also attached are the inspection reports / annual certifications for the Soldier Canyon sewage lagoon and Banning's sediment pond. Please let me know if you have any questions or comments.

Thanks,

Dave

David G. Spillman, P.E.
Technical Services Manager

Dugout Canyon Mine

Canyon Fuel Company, LLC

A Subsidiary of Bowie Resource Partners, LLC
P.O. Box 1029, Wellington, Utah 84542
O: (435) 636-2872
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4 attachments

170605 2nd Quarter - Impoundment Waste Rock - Signed.pdf
295K

170605 2nd Quarter - Leach Field Certification - Signed.pdf
299K

170622 2nd Quarter - Lagoon Certification - Signed.pdf
284K

170622 2nd Quarter - Banning Certification - Signed.pdf
283K

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 2
Permit Number	*ACT/007/039*	**Report Date**	*06/27/17*
Mine Name	*Dugout Canyon Mine*		
Company Name	*Canyon Fuel Company, LLC*		
Impoundment Identification	**Impoundment Name**	*Refuse Pile Sedimentation Pond*	
	Impoundment Number	*None*	
	UPDES Permit Number	*UT0025593*	
	MSHA ID Number	*Impoundment –None (Refuse Pile 1211-UT-09-01890-01)*	

IMPOUNDMENT INSPECTION

Inspection Date	*06/05/17*
Inspected By	*Dave Spillman*
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	*Quarterly Inspection / Certification*

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

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.

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 (as-built) - 100% = 0.67 acre-feet @ an elevation of 5,897.55 feet

- 60% = 0.40 acre-feet @ an elevation of 5,896.5 feet

At the time of the inspection, the estimated average elevation of the existing sediment was 5,895.5 feet.

3. Principle and emergency spillway elevations.

Emergency Spillway Elevation (as-built) - 5,902.5 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.

The pond was dry at the time of the inspection.

Sediment levels were observed as being below the established 60% levels.

This pond has never discharged.

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: _____ **Date:** _____

CERTIFIED REPORT

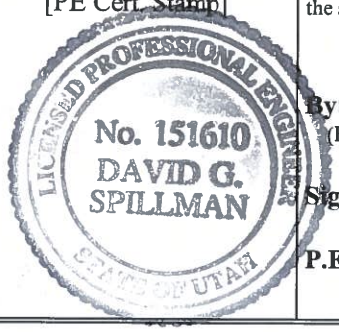
IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	X	
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?	X	
3. Has the impoundment met all applicable performance standards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

COMMENTS AND OTHER INFORMATION

Certification Statement:

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.

[PE Cert. Stamp]



By: *David G. Spillman, Technical Services Manager*
(Full Name and Title)

Signature: _____ **Date:** *06/27/17*

P.E. Number & State: *No. 151610, State of Utah*

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 2
Permit Number	*C/007/039*	**Report Date**	*06/27/17*
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	*06/05/17*
Inspected By	*Dave Spillman*
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	*Routine Quarterly Inspection and Annual Certification*

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

There were no signs of instability, structural weakness or other hazardous conditions observed during this 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.**
	3. Principle and emergency spillway elevations.

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.

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.

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 June 2017.

Qualification Statement

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Signature: _____ **Date:** _____

CERTIFIED REPORT

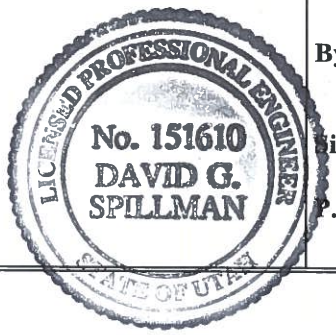
IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	X	
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?	X	
3. Has the impoundment met all applicable performance standards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



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: *David G. Spillman, Technical Services Manager*
(Full Name and Title)

Signature: _____ **Date:** *06/27/17*

P.E. Number & State: *No. 151610, State of Utah*

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 2
Permit Number	*C/007/034*	**Report Date**	*06/27/17*
Mine Name	*Banning Loadout*		
Company Name	*Canyon Fuel Company, LLC*		
Impoundment Identification	**Impoundment Name**	*Banning Loadout Sedimentation Pond*	
	Impoundment Number	*None*	
	UPDES Permit Number	*UTG040011*	
	MSHA ID Number	*Impoundment -None (Loadout - 42-01756)*	

IMPOUNDMENT INSPECTION

Inspection Date	*06/22/17*
Inspected By	*Dave Spillman*
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	*Routine Quarterly Inspection and Annual Certification*

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

There were no signs of instability, structural weakness or other hazardous conditions observed during this 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 - 100% = 0.27 acre-feet @ an elevation of 5,487.8 feet

- 60% = 0.16 acre-feet @ an elevation of 5,486.6 feet

The existing sediment level was measured on 06/22/2016 and found to be at an average elevation of 5,486.25 feet or 0.36 feet below the established cleanout elevation.

3. Principle and emergency spillway elevations.

Principal Spillway Elevation - 5,494.2 feet

Emergency Spillway Elevation - 5,495.1 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 out slopes of embankments, etc.

At the time of the inspection, the pond was dry. To date, there has been no discharge from this pond.

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 spraying efforts, intended to eliminate the tamarisk trees within the bottom of the pond, have been somewhat successful in the past. However, new growth was observed this spring and an additional application of herbicide was applied in June.

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

Certification Statement:

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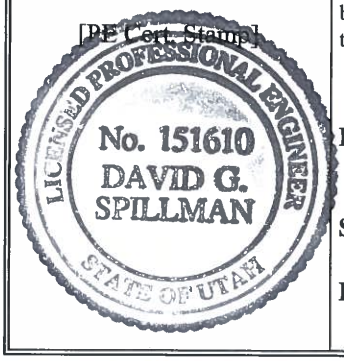

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By: *David G. Spillman, Technical Services Manager*
(Full Name and Title)

Signature: _____ **Date:** *06/27/17*

P.E. Number & State: *No. 151610, State of Utah*

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 2
Permit Number	*ACT/007/018*	**Report Date**	*06/27/17*
Mine Name	*Soldier Canyon Mine*		
Company Name	*Canyon Fuel Company, LLC*		
Impoundment Identification	**Impoundment Name**	*Sewage Lagoon*	
	Impoundment Number	*None*	
	UPDES Permit Number	*None*	
	MSHA ID Number	*Impoundment -None (Mine - 42-00077)*	

IMPOUNDMENT INSPECTION

Inspection Date	*06/22/17*
Inspected By	*Dave Spillman*
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	*Routine Quarterly Inspection & Annual Certification*

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

There were no signs of instability, structural weakness or other hazardous conditions observed during this 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.

N/A

3. Principle and emergency spillway elevations.

N/A

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 sewage lagoon is designed for total containment and has never discharged.

At the time of the inspection, both the south cell and the north cell were dry. This sewage lagoon has been idle and out of service for several years. Some additional vegetation control for this facility would be appropriate.

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.

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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

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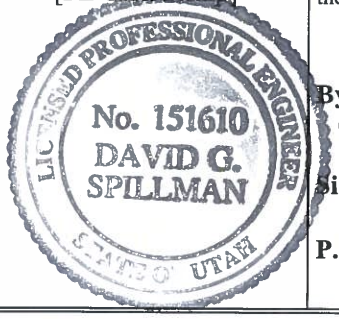

By: *David G. Spillman, Technical Services Manager*
(Full Name and Title)

Signature: _____ **Date:** *06/27/17*

P.E. Number & State: *No. 151610, State of Utah*