



STATE OF  
COLORADO

Musick - DNR, Jason <jason.musick@state.co.us>

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## 2nd Quarter Pond Inspections

1 message

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**Blomquist, Miranda** <MBlomquist@peabodyenergy.com>  
To: "Musick - DNR, Jason" <jason.musick@state.co.us>

Mon, Aug 14, 2017 at 3:26 PM

Jason,

Attached are the 2<sup>nd</sup> quarter pond inspections for Hayden Gulch Loadout, Yoast Mine, and Seneca IIW. Let me know if you have any questions!

Thanks

*Miranda Kawcak* (Blomquist)

Engineering Technician – Environmental

Twentymile Coal, LLC

29515 Routt County Rd #27 Oak Creek, Colorado 80467

Office: (970) 870-2718 Cell: (970) 439-8273



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### 3 attachments



**2017 2QTR HGL Pond Insp.pdf**  
286K



**2017 2QTR IIW Pond Insp.pdf**  
865K



**2017 2QTR Yoast Pond Insp.pdf**  
525K



## Seneca Property, LLC

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July 26, 2017

Jason Musick  
Colorado Division of Reclamation, Mining, and Safety  
1313 Sherman Street, Room 215  
Denver, CO 80203

**RE: Yoast Mine, Permit C-94-082, 2Q17 IIR**

Dear Jason:

In accordance with Rule 4.05.9(17), please find enclosed the Yoast Mine Impoundment Inspection Report (IIR) and Impoundment Inspection Log (IIL) for Ponds: Pond #010, Pond #011, Pond #011A, Pond #012, Pond #012A, Pond #013, Pond #014 and Stock Tank ST-1.

Maintenance is required at Ponds: #012 (flume). Please contact me with any comments and/or questions.

Sincerely,

Miranda Kawcak (Blomquist)

TNS/*tns*

Enclosure: Yoast IIR

<b>Mining Area</b> <b>Date Inspected</b> <b>Impoundment</b> <b>NPDES ID No</b> <b>Owner's Rep</b>	Yoast Mine(Seneca Coal Co)	<b>Facility Configuration</b> <b>Date Last Inspected</b> <b>Pond Location</b> <b>Site Location</b> <b>Inspector</b>	Cross-Valley Pond	<b>Quarterly Impoundment Inspection Form</b>
	5/1/2017		3/14/2017	
	Pond #010		NW¼ NE¼, Sec. 8, T5N, R87W	
	CO-0000221 D.P. 010		8.5 mi SE of Hayden, CO	
	Brian Watterson		Jason Herden	

Mark or Write in Appropriate Response:			
FEATURE	PROBLEM		COMMENTS
	YES (Above)	NO (Below)	
<b>GENERAL</b>			
Water Level (above or below principal spillway)	X		water level 0.16 feet above spillway
Existing Embankment Freeboard ( 10.1 ft)	10.1		
Outflow (gpm)	X		78.2
<b>EROSION</b>			
Rills & Gullies on Embankment		X	
Wave Erosion		X	
Spillway Erosion		X	
Burrows		X	
Other		X	
<b>STRUCTURAL</b>			
Differential Settling		X	
Cracks or Slides		X	
Seepage		X	
Other		X	
<b>STRUCTURES</b>			
Principal Spillway			
Clogged Orifice		X	
Clogged or Damaged Culvert	X		Intake starting to rust out but still functional
Damaged Headgate		NA	
Emergency Spillway			
Erosion		X	
Riprap		X	
Clogged or Damaged Culvert		X	
Other		X	
<b>MAINTENACE</b>			
Maintenance Required	X		See comment above
Maintenance Performed		X	
Additional Comments		X	

<b>Mining Area</b>	Yoast Mine(Seneca Coal Co)	<b>Facility Configuration</b>	Cross-Vally Pond	<b>Quarterly Impoundment Inspection Form</b>
<b>Date Inspected</b>	5/2/2017	<b>Date Last Inspected</b>	3/14/2017	
<b>Impoundment</b>	Pond #011	<b>Pond Location</b>	NW¼ SW¼, Sec. 16, T5N, R87W	
<b>NPDES ID No</b>	CO-0000221 D.P.011	<b>Site Location</b>	8.5 mi SE of Hayden, CO	
<b>Owner's Rep</b>	Brian Watterson	<b>Inspector</b>	Jason Herden	
<b>Mark or Write in Appropriate Response:</b>				
<b>FEATURE</b>	<b>PROBLEM</b>		<b>COMMENTS</b>	
	<b>YES (Above)</b>	<b>NO (Below)</b>		
<b>GENERAL</b>				
Water Level (above or below principal spillway)		X	Water level 0.04 feet above spillway	
Existing Embankment Freeboard (5.1 ft)	5.2			
Outflow (gpm)	X		19.08	
<b>EROSION</b>				
Rills & Gullies on Embankment		X		
Wave Erosion		X		
Spillway Erosion		X		
Burrows		X		
Other		X		
<b>STRUCTURAL</b>				
Differential Settling		X		
Cracks or Slides		X		
Seepage		X		
Other		X		
<b>STRUCTURES</b>				
<b>Principal Spillway</b>				
Clogged Orifice		X		
Clogged or Damaged Culvert		X		
Damaged Headgate		NA		
<b>Emergency Spillway</b>				
Erosion		X		
Riprap		X		
Clogged or Damaged Culvert		X		
Other		X		
<b>MAINTENANCE</b>				
Maintenance Required		X		
Maintenance Performed		X		
Additional Comments		X		

<b>Mining Area</b>	Yoast Mine(Seneca Coal Co)	<b>Facility Configuration</b>	Cross-Vally Pond	<b>Quarterly Impoundment Inspection Form</b>
<b>Date Inspected</b>	5/1/2017	<b>Date Last Inspected</b>	3/14/2017	
<b>Impoundment</b>	Pond #011A	<b>Pond Location</b>	SW¼ NW¼, Sec. 16, T5N, R87W	
<b>NPDES ID No</b>	N/A	<b>Site Location</b>	8.5 mi SE of Hayden, CO	
<b>Owner's Rep</b>	Brian Watterson	<b>Inspector</b>	Jason Herden	
<b>Mark or Write in Appropriate Response:</b>				
<b>FEATURE</b>	<b>PROBLEM</b>		<b>COMMENTS</b>	
	YES (Above)	NO (Below)		
<b>GENERAL</b>				
Water Level (above or below principal spillway)		X	Water level is 0.04 above outlet pipe	
Existing Embankment Freeboard (4.6 ft)	5.3			
Outflow (gpm)	X			
<b>EROSION</b>				
Rills & Gullies on Embankment		X		
Wave Erosion		X		
Spillway Erosion		X		
Burrows		X		
Other		X		
<b>STRUCTURAL</b>				
Differential Settling		X		
Cracks or Slides		X		
Seepage		X		
Other		X		
<b>STRUCTURES</b>				
<b>Principal Spillway</b>				
Clogged Orifice		X		
Clogged or Damaged Culvert		X		
Damaged Headgate		NA		
<b>Emergency Spillway</b>				
Erosion		X		
Riprap		X		
Clogged or Damaged Culvert		X		
Other		X		
<b>MAINTENANCE</b>				
Maintenance Required		X		
Maintenance Performed		X		
Additional Comments	X			

Top of Sediment Storage = 2.1 feet below top of pipe

<b>Mining Area</b>	Yoast Mine(Seneca Coal Co)	<b>Facility Configuration</b>	Cross-Vally Pond	<b>Quarterly Impoundment Inspection Form</b>
<b>Date Inspected</b>	5/1/2017	<b>Date Last Inspected</b>	3/14/2017	
<b>Impoundment</b>	Pond #012	<b>Pond Location</b>	NE¼ NW¼, Sec. 19, T5N, R87W	
<b>NPDES ID No</b>	CO-0000221 D.P. 012	<b>Site Location</b>	8.5 mi SE of Hayden, CO	
<b>Owner's Rep</b>	Brian Watterson	<b>Inspector</b>	Jason Herden	
<b>Mark or Write in Appropriate Response:</b>				
<b>FEATURE</b>	<b>PROBLEM</b>		<b>COMMENTS</b>	
	<b>YES (Above)</b>	<b>NO (Below)</b>		
<b>GENERAL</b>				
Water Level (above or below principal spillway)	X		Water level 0.05 feet above spillway	
Existing Embankment Freeboard (9.0 ft)	9			
Outflow (gpm)	X		77.73	
<b>EROSION</b>				
Rills & Gullies on Embankment		X		
Wave Erosion		X		
Spillway Erosion		X		
Burrows		X		
Other		X		
<b>STRUCTURAL</b>				
Differential Settling		X		
Cracks or Slides		X		
Seepage		X		
Other		X		
<b>STRUCTURES</b>				
<b>Principal Spillway</b>				
Clogged Orifice		X		
Clogged or Damaged Culvert		X		
Damaged Headgate		NA		
<b>Emergency Spillway</b>				
Erosion		X		
Riprap		X		
Clogged or Damaged Culvert		X		
Other		X		
<b>MAINTENANCE</b>				
Maintenance Required	X		Erosion behind and underneath flume	
Maintenance Performed		X		
Additional Comments		X		

<b>Mining Area</b>	Yoast Mine(Seneca Coal Co)	<b>Facility Configuration</b>	Cross-Vally Pond	<b>Quarterly Impoundment Inspection Form</b>
<b>Date Inspected</b>	5/1/2017	<b>Date Last Inspected</b>	3/14/2017	
<b>Impoundment</b>	Pond #012A	<b>Pond Location</b>	NE¼ NW¼, Sec. 19, T5N, R87W	
<b>NPDES ID No</b>	N/A	<b>Site Location</b>	8.5 mi SE of Hayden, CO	
<b>Owner's Rep</b>	Brian Watterson	<b>Inspector</b>	Jason Herden	
<b>Mark or Write in Appropriate Response:</b>				
<b>FEATURE</b>	<b>PROBLEM</b>		<b>COMMENTS</b>	
	<b>YES (Above)</b>	<b>NO (Below)</b>		
<b>GENERAL</b>				
Water Level (above or below principal spillway)		X	Water level 0.9 feet below spillway	
Existing Embankment Freeboard (4.6 ft)	6.2			
Outflow (gpm)		X		
<b>EROSION</b>				
Rills & Gullies on Embankment		X		
Wave Erosion		X		
Spillway Erosion		X		
Burrows		X		
Other		X		
<b>STRUCTURAL</b>				
Differential Settling		X		
Cracks or Slides		X		
Seepage		X		
Other		X		
<b>STRUCTURES</b>				
<b>Principal Spillway</b>				
Clogged Orifice		X		
Clogged or Damaged Culvert		X		
Damaged Headgate		NA		
<b>Emergency Spillway</b>				
Erosion		X		
Riprap		X		
Clogged or Damaged Culvert		X		
Other		X		
<b>MAINTENANCE</b>				
Maintenance Required		X		
Maintenance Performed		X		
Additional Comments		X		

<b>Mining Area</b> <b>Date Inspected</b> <b>Impoundment</b> <b>NPDES ID No</b> <b>Owner's Rep</b>	Yoast Mine(Seneca Coal Co)	<b>Facility Configuration</b> <b>Date Last Inspected</b> <b>Pond Location</b> <b>Site Location</b> <b>Inspector</b>	Cross-Vally Pond	<b>Quarterly Impoundment Inspection Form</b>
	5/1/2017		3/14/2017	
	Pond #013		SE¼ NW¼, Sec. 19, T5N, R87W	
	CO-0000221 D.P. 013		8.5 mi SE of Hayden, CO	
	Brian Watterson		Jason Herden	

Mark or Write in Appropriate Response:			COMMENTS
FEATURE	PROBLEM		
	YES (Above)	NO (Below)	
<b>GENERAL</b>			
Water Level (above or below principal spillway)	X		water level 0.04 feet above spillway
Existing Embankment Freeboard (4.0 ft)	4		
Outflow (gpm)	X		6
<b>EROSION</b>			
Rills & Gullies on Embankment		X	
Wave Erosion		X	
Spillway Erosion		X	
Burrows		X	
Other		X	
<b>STRUCTURAL</b>			
Differential Settling		X	
Cracks or Slides		X	
Seepage		X	
Other		X	
<b>STRUCTURES</b>			
Principal Spillway			
Clogged Orifice		X	
Clogged or Damaged Culvert		X	
Damaged Headgate		NA	
Emergency Spillway			
Erosion		X	
Riprap		X	
Clogged or Damaged Culvert		X	
Other		X	
<b>MAINTENACE</b>			
Maintenance Required		X	
Maintenance Performed		X	
Additional Comments		X	



<b>Mining Area</b>	Yoast Mine(Seneca Coal Co)	<b>Facility Configuration</b>	Cross-Vally Pond	<b>Quarterly Impoundment Inspection Form</b>
<b>Date Inspected</b>	5/1/2017	<b>Date Last Inspected</b>	3/14/2017	
<b>Impoundment</b>	Pond #014	<b>Pond Location</b>	NE¼ SW¼, Sec. 19, T5N, R87W	
<b>NPDES ID No</b>	CO-0000221 D.P. 014	<b>Site Location</b>	8.5 mi SE of Hayden, CO	
<b>Owner's Rep</b>	Brian Watterson	<b>Inspector</b>	Jason Herden	

  

Mark or Write in Appropriate Response:			
FEATURE	PROBLEM		COMMENTS
	YES (Above)	NO (Below)	
<b>GENERAL</b>			
Water Level (above or below principal spillway)		X	water level 0.03 feet above spillway
Existing Embankment Freeboard (6.8 ft)	6.8		
Outflow (gpm)	X		
<b>EROSION</b>			
Rills & Gullies on Embankment		X	
Wave Erosion		X	
Spillway Erosion		X	
Burrows		X	
Other		X	
<b>STRUCTURAL</b>			
Differential Settling		X	
Cracks or Slides		X	
Seepage		X	
Other		X	
<b>STRUCTURES</b>			
Principal Spillway			
Clogged Orifice		X	
Clogged or Damaged Culvert		X	
Damaged Headgate		NA	
Emergency Spillway			
Erosion		X	
Riprap		X	
Clogged or Damaged Culvert		X	
Other		X	
<b>MAINTENANCE</b>			
Maintenance Required		X	
Maintenance Performed		X	
Additional Comments		X	

<b>Mining Area</b>	Yeast Mine(Seneca Coal Co)	<b>Facility Configuration</b>	Stockpond	<b>Quarterly Impoundment Inspection Form</b>
<b>Date Inspected</b>	5/1/2017	<b>Date Last Inspected</b>	3/14/2017	
<b>Impoundment</b>	Stock Tank ST-1	<b>Pond Location</b>	SW¼ Sec. 20, T5N, R87W	
<b>NPDES ID No</b>	N/A	<b>Site Location</b>	8.5 mi SE of Hayden, CO	
<b>Owner's Rep</b>	Brian Watterson	<b>Inspector</b>	Jason Herden	
<b>Mark or Write in Appropriate Response:</b>				
<b>FEATURE</b>	<b>PROBLEM</b>		<b>COMMENTS</b>	
	YES (Above)	NO (Below)		
<b>GENERAL</b>				
Water Level (above or below principal spillway)		X	Water level is 1.3 feet below spillway	
<b>EROSION</b>				
Rills & Gullies on Embankment		X		
Wave Erosion		X		
Spillway Erosion		X		
Burrows		X		
Other		X		
<b>STRUCTURAL</b>				
Differential Settling		X		
Cracks or Slides		X		
Seepage		X		
Other		X		
<b>STRUCTURES</b>				
<b>Principal Spillway</b>				
Clogged Orifice		NA		
Clogged or Damaged Culvert		NA		
Damaged Headgate		NA		
<b>Emergency Spillway</b>				
Erosion		X		
Riprap		X		
Clogged or Damaged Culvert		NA		
Other		X		
<b>MAINTENACE</b>				
Maintenance Required		X		
Maintenance Performed		X		
Additional Comments	X			

# IMPOUNDMENT INSPECTION LOG

## JOB DATA

JOB NAME: PEC Hydrologic Support Services	CLIENT: Peabody	LOCATION: Routt County, CO
JOB(s): 2016-037 T1-SCC, T2-PSCM		

## FLOW DATA

SITE ID	COMPANY	MINE	DATE	TIME	WATER LEVEL (FT)	OUTFLOW (GPM)	OBSERVATIONS	MAINTENANCE (Y/N)
002	Sage Creek	Sage Creek	5-1-17	15:55	.40	180.4		N
003	Sage Creek	Sage Creek	5-1-17	15:30	0.10	15.10	animal burrows on Dam	N
004	Sage Creek	Sage Creek	5-1-17	16:15	0.16	93		N
Lower Sump	Sage Creek	Sage Creek	5-1-17	18:15	0.09	111.5		N
PECOCO	Sage Creek	Sage Creek	5-1-17	19:10	0.1	155		N
Portal Sump 1	Sage Creek	Sage Creek	5-1-17	18:30	0.3	10		N
Portal Sump 2	Sage Creek	Sage Creek	5-1-17	18:45	—	—		N
Spill Control 2	Sage Creek	Sage Creek	5-1-17	18:05	—	—	Dry	N
Truck Wash	Sage Creek	Sage Creek	5-1-17	17:50	—	—	Dry	N
Upper Sump	Sage Creek	Sage Creek	5-1-17	19:30	0.1	147		N
001	Seneca	Hayden Gulch	5-3-17	07:45	-1.3	—	NO Flow	N
002	Seneca	Hayden Gulch	5-3-17	08:20	—	—	Dry	N
005	Seneca	Seneca II West	5-1-17	11:30	0.08	17.23	spring @ dam, no problems	N
006	Seneca	Seneca II West	5-1-17	08:50	0.15	118.02	big sluff on S. side, no impact	N
009	Seneca	Seneca II West	5-1-17	12:40	-2.3	—	small leak in standpipe	N
015	Seneca	Seneca II West	5-1-17	12:30	0.03	48.33	standpipe has hole	
016	Seneca	Seneca II West	5-1-17	09:30	0.1	132.80	small leak under flume	Y
017	Seneca	Seneca II West	5-1-17	10:00	0.1	199.36		N
T-1	Seneca	Seneca II West	5-1-17	11:30	—	—	Dry	N
T-18	Seneca	Seneca II West	5-1-17	11:00	-1.0	—	NO Flow	N
T-2	Seneca	Seneca II West	5-1-17	09:05	-1.4	—	NO Flow	N
T-20	Seneca	Seneca II West	5-1-17	11:15	-1.7	—	NO Flow	N
T-22	Seneca	Seneca II West	5-1-17	11:40	-1.3	—	NO Flow	N
T-24	Seneca	Seneca II West	5-1-17	11:55	—	—	Dry	N
T-25	Seneca	Seneca II West	5-1-17	09:50	—	—	Dry	N
T-26	Seneca	Seneca II West	5-1-17	10:30	-2.0	—		N

008

5-1-17 17:30 0.35 59.06 Pipe slightly sticking up N

