

STATE OF
COLORADO

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

2nd Quarter Pond Inspections

1 message

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 2nd 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

Peabody

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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

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

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep	Yoast Mine(Seneca Coal Co)	Facility Configuration Date Last Inspected Pond Location Site Location Inspector	Cross-Valley Pond	Quarterly Impoundment Inspection Form
	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)		
GENERAL				
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	
EROSION				
Rills & Gullies on Embankment		X		
Wave Erosion		X		
Spillway Erosion		X		
Burrows		X		
Other		X		
STRUCTURAL				
Differential Settling		X		
Cracks or Slides		X		
Seepage		X		
Other		X		
STRUCTURES				
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		
MAINTENANCE				
Maintenance Required	X		See comment above	
Maintenance Performed		X		
Additional Comments		X		

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep	Yoast Mine(Seneca Coal Co)	Facility Configuration Date Last Inspected Pond Location Site Location Inspector	Cross-Vally Pond	Quarterly Impoundment Inspection Form
	5/2/2017		3/14/2017	
	Pond #011		NW¼ SW¼, Sec. 16, T5N, R87W	
	CO-0000221 D.P.011		8.5 mi SE of Hayden, CO	
Brian Watterson		Jason Herden		
Mark or Write in Appropriate Response:				
FEATURE	PROBLEM		COMMENTS	
	YES (Above)	NO (Below)		
GENERAL				
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	
EROSION				
Rills & Gullies on Embankment		X		
Wave Erosion		X		
Spillway Erosion		X		
Burrows		X		
Other		X		
STRUCTURAL				
Differential Settling		X		
Cracks or Slides		X		
Seepage		X		
Other		X		
STRUCTURES				
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		
MAINTENANCE				
Maintenance Required		X		
Maintenance Performed		X		
Additional Comments		X		

Mining Area	Yoast Mine(Seneca Coal Co)	Facility Configuration	Cross-Vally Pond	Quarterly Impoundment Inspection Form
	Date Inspected		5/1/2017	
Impoundment	Pond #011A	Pond Location	SW¼ NW¼, Sec. 16, T5N, R87W	
NPDES ID No	N/A	Site Location	8.5 mi SE of Hayden, CO	
Owner's Rep	Brian Watterson	Inspector	Jason Herden	
Mark or Write in Appropriate Response:				
FEATURE	PROBLEM		COMMENTS	
	YES (Above)	NO (Below)		
GENERAL				
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		1.6	
EROSION				
Rills & Gullies on Embankment		X		
Wave Erosion		X		
Spillway Erosion		X		
Burrows		X		
Other		X		
STRUCTURAL				
Differential Settling		X		
Cracks or Slides		X		
Seepage		X		
Other		X		
STRUCTURES				
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		
MAINTENANCE				
Maintenance Required		X		
Maintenance Performed		X		
Additional Comments	X			

Top of Sediment Storage = 2.1 feet below top of pipe

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep	Yoast Mine(Seneca Coal Co)	Facility Configuration Date Last Inspected Pond Location Site Location Inspector	Cross-Vally Pond	Quarterly Impoundment Inspection Form
	5/1/2017		3/14/2017	
	Pond #012		NE¼ NW¼, Sec. 19, T5N, R87W	
	CO-0000221 D.P. 012		8.5 mi SE of Hayden, CO	
Brian Watterson		Jason Herden		
Mark or Write in Appropriate Response:				
FEATURE	PROBLEM		COMMENTS	
	YES (Above)	NO (Below)		
GENERAL				
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	
EROSION				
Rills & Gullies on Embankment		X		
Wave Erosion		X		
Spillway Erosion		X		
Burrows		X		
Other		X		
STRUCTURAL				
Differential Settling		X		
Cracks or Slides		X		
Seepage		X		
Other		X		
STRUCTURES				
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		
MAINTENANCE				
Maintenance Required	X		Erosion behind and underneath flume	
Maintenance Performed		X		
Additional Comments		X		

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep	Yoast Mine(Seneca Coal Co)	Facility Configuratio Date Last Inspected Pond Location Site Location Inspector	Cross-Vally Pond	Quarterly Impoundment Inspection Form
	5/1/2017		3/14/2017	
	Pond #012A		NE¼ NW¼, Sec. 19, T5N, R87W	
	N/A		8.5 mi SE of Hayden, CO	
Brian Watterson		Jason Herden		
Mark or Write in Appropriate Response:				
FEATURE	PROBLEM		COMMENTS	
	YES (Above)	NO (Below)		
GENERAL				
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		
EROSION				
Rills & Gullies on Embankment		X		
Wave Erosion		X		
Spillway Erosion		X		
Burrows		X		
Other		X		
STRUCTURAL				
Differential Settling		X		
Cracks or Slides		X		
Seepage		X		
Other		X		
STRUCTURES				
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		
MAINTENANCE				
Maintenance Required		X		
Maintenance Performed		X		
Additional Comments		X		

Quarterly Impoundment Inspection Form

Mining Area	Yoast Mine(Seneca Coal Co)	Facility Configuration	Cross-Vally Pond	
Date Inspected	5/1/2017	Date Last Inspected	3/14/2017	
Impoundment	Pond #013	Pond Location	SE¼ NW¼, Sec. 19, T5N, R87W	
NPDES ID No	CO-0000221 D.P. 013	Site Location	8.5 mi SE of Hayden, CO	
Owner's Rep	Brian Watterson	Inspector	Jason Herden	
Mark or Write in Appropriate Response:				
FEATURE	PROBLEM		COMMENTS	
	YES (Above)	NO (Below)		
GENERAL				
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	
EROSION				
Rills & Gullies on Embankment		X		
Wave Erosion		X		
Spillway Erosion		X		
Burrows		X		
Other		X		
STRUCTURAL				
Differential Settling		X		
Cracks or Slides		X		
Seepage		X		
Other		X		
STRUCTURES				
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		
MAINTENACE				
Maintenance Required		X		
Maintenance Performed		X		
Additional Comments		X		

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep	Yoast Mine(Seneca Coal Co)	Facility Configuration Date Last Inspected Pond Location Site Location Inspector	Cross-Vally Pond	Quarterly Impoundment Inspection Form
	5/1/2017		3/14/2017	
	Pond #014		NE¼ SW¼, Sec. 19, T5N, R87W	
	CO-0000221 D.P. 014		8.5 mi SE of Hayden, CO	
Brian Watterson		Jason Herden		
Mark or Write in Appropriate Response:				
FEATURE	PROBLEM		COMMENTS	
	YES (Above)	NO (Below)		
GENERAL				
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		1.66	
EROSION				
Rills & Gullies on Embankment		X		
Wave Erosion		X		
Spillway Erosion		X		
Burrows		X		
Other		X		
STRUCTURAL				
Differential Settling		X		
Cracks or Slides		X		
Seepage		X		
Other		X		
STRUCTURES				
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		
MAINTENANCE				
Maintenance Required		X		
Maintenance Performed		X		
Additional Comments		X		

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

SITE ID	COMPANY	MINE	DATE	TIME	WATER LEVEL (FT)	OUTFLOW (GPM)	OBSERVATIONS	MAINTENANCE (Y/N)
T-27	Seneca	Seneca II West	5-1-17	10:40	-1.4	~	NO FLOW	N
T-3	Seneca	Seneca II West	5-1-17	09:15	-1.9	~	NO FLOW	N
T-5	Seneca	Seneca II West	5-1-17	10:20	-1.3	—	NO FLOW	N
010	Seneca	Yoast	5-1-17	11:20	0.16	78.20	outlet is rusted through	Y
011	Seneca	Yoast	5-1-17	11:35	0.04	19.08		N
011A	Seneca	Yoast	5-1-17	16:35	0.04	1.6		N
012	Seneca	Yoast	5-1-17	13:05	0.05	77.73	undercutting under & behind Flume V	N
012A	Seneca	Yoast	5-1-17	13:20	-0.9	—	NO FLOW	N
013	Seneca	Yoast	5-1-17	13:45	0.04	6.0		N
014	Seneca	Yoast	5-1-17	14:20	0.03	1.66		N
ST-1	Seneca	Yoast	5-1-17	17:15	-1.3	—	NO FLOW	N

CLIMATIC CONDITIONS: 37°F - 55°F, wind calm - 22MPH variable, clear - mostly cloudy

FIELD PERSONNEL: _____ FIELD PERSONNEL SIGNATURE: _____

NOTES
