



Seneca Coal Company

29515 Routt County

Road 27

Oak Creek, CO 80467

July 18, 2020

Robin Reilley
Colorado Division of Reclamation, Mining and Safety
1313 Sherman Street
Denver, CO 80203

RE: Yoast Mine, Permit C-94-082, Second Quarter 2020 IIR

Dear Robin:

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.

Please contact me with any comments and/or questions.

Sincerely,

Miranda Kawcak
Environmental Manager

Enclosure: Yoast IIR

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep	Yoast Mine(Seneca Coal Co)	Facility Configuration	Cross-Valley Pond	Quarterly Impoundment Inspection Form
	6/2/2020	Date Last Inspected	3/2/2020	
	Pond #010	Pond Location	NW¼ NE¼, Sec. 8, T5N, R87W	
	CO-0000221 D.P. 010	Site Location	8.5 mi SE of Hayden, CO	
	Miranda Kawcak	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 0.1 feet above spillway
Existing Embankment Freeboard (10.1 ft)		10.1		
Outflow (gpm)		X		167.6
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	Outlet culvert starting to rust out but still functional
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		See comment above
Maintenance Performed			X	
Additional Comments			X	

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep	Yeast Mine(Seneca Coal Co)	Facility Configuration Date Last Inspected Pond Location Site Location Inspector	Cross-Vally Pond	Quarterly Impoundment Inspection Form
	6/2/2020		3/2/2020	
	Pond #011		NW¼ SW¼, Sec. 16, T5N, R87W	
	CO-0000221 D.P.011		8.5 mi SE of Hayden, CO	
	Miranda Kawcak		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 0.1 feet above spillway
Existing Embankment Freeboard (5.1 ft)		8.5		
Outflow (gpm)		X		
32.7				
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
	6/2/2020		3/2/2020	
	Pond #011A		SW¼ NW¼, Sec. 16, T5N, R87W	
	N/A		8.5 mi SE of Hayden, CO	
	Miranda Kawcak		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 0.6 feet below spillway
Existing Embankment Freeboard (4.6 ft)		6		
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	
MAINTENACE				
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
	6/1/2020		3/2/2020	
	Pond #012		NE¼ NW¼, Sec. 19, T5N, R87W	
	CO-0000221 D.P. 012		8.5 mi SE of Hayden, CO	
	Miranda Kawcak		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 0.1 feet above spillway
Existing Embankment Freeboard (9.0 ft)		9		
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	
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
	6/3/2020		3/2/2020	
	Pond #012A		NE¼ NW¼, Sec. 19, T5N, R87W	
	N/A		8.5 mi SE of Hayden, CO	
	Miranda Kawcak		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 0.3 feet below spillway
Existing Embankment Freeboard (4.6 ft)		6.6		
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	

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
	6/1/2020		3/2/2020	
	Pond #013		SE¼ NW¼, Sec. 19, T5N, R87W	
	CO-0000221 D.P. 013		8.5 mi SE of Hayden, CO	
	Miranda Kawcak		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 0.1 feet below outlet	
Existing Embankment Freeboard (4.0 ft)	5.5			
Outflow (gpm)		X		
EROSION				
Rills & Gullies on Embankment		X		
Wave Erosion		X		
Spillway Erosion		X		
Burrows		X		
Other		X		
STRUCTURAL				
Differential Settling		X	Seep below toe of dam on south side is from a native spring. Not affecting dam embankment	
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
	6/1/2020		3/2/2020	
	Pond #014		NE¼ SW¼, Sec. 19, T5N, R87W	
	CO-0000221 D.P. 014		8.5 mi SE of Hayden, CO	
	Miranda Kawcak		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 0.2 feet below spillway
Existing Embankment Freeboard (6.8 ft)		8		
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	

Mining Area	Yeast Mine(Seneca Coal Co)	Facility Configuration	Stockpond	Quarterly Impoundment Inspection Form
Date Inspected	6/2/2020	Date Last Inspected	3/2/2020	
Impoundment	Stock Tank ST-1	Pond Location	SW¼ Sec. 20, T5N, R87W	
NPDES ID No	N/A	Site Location	8.5 mi SE of Hayden, CO	
Owner's Rep	Miranda Kawcak	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		
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): 2018-005 T1-SCC, 2018-006 T1-PSCM		

FLOW DATA

SITE ID	COMPANY	MINE	DATE	TIME	WATER LEVEL (FT)	OUTFLOW (GPM)	OBSERVATIONS	MAINTENANCE (Y/N)
002	Sage Creek	Sage Creek	6-2-20	13:35	0.57	208.6	Flume unclear, seeping water	Y
003	Sage Creek	Sage Creek	6-2-20	12:55	0.10	36.7	Culvert flume broken animal burrows	Y
004	Sage Creek	Sage Creek	6-2-20	14:40	0.15	177		N
Lower Sump	Sage Creek	Sage Creek	6-4-20	06:20	0.1	117.6		N
PECOCO	Sage Creek	Sage Creek	6-3-20	11:25	0.1	157		N
Portal Sump 1	Sage Creek	Sage Creek	6-4-20	07:20	0.1	14		N
Portal Sump 2	Sage Creek	Sage Creek	6-4-20	07:00	-	-	NOT Pumping	N
Spill Control 2	Sage Creek	Sage Creek	6-4-20	06:45	-	-	Dry	N
Truck Wash	Sage Creek	Sage Creek	6-4-20	06:05	-	-	Dry	N
Upper Sump	Sage Creek	Sage Creek	6-4-20	07:45	0.1	161		N
001	Seneca	Hayden Gulch	6-4-20	09:00	-1.5	-	NO Flow	N
002	Seneca	Hayden Gulch	6-4-20	09:25	-2.5	-	NO Flow	N
005	Seneca	Seneca II West	6-1-20	10:25	0.05	53.8	Spring @ dam no impact	N
006	Seneca	Seneca II West	6-1-20	08:50	0.1	197.3	skate on S. side, no impact	N
009	Seneca	Seneca II West	6-1-20	11:00	-0.3	-	NO Flow	N
015	Seneca	Seneca II West	6-1-20	11:30	0.10	77.2		N
016	Seneca	Seneca II West	6-1-20	09:15	0.1	152.1	Small seep under flume	X
017	Seneca	Seneca II West	6-1-20	09:35	0.1	154.6		N
T-1	Seneca	Seneca II West	6-4-20	09:50	-	-	Dry	N
T-18	Seneca	Seneca II West	6-4-20	11:45	-1.0	-	NO Flow	N
T-2	Seneca	Seneca II West	6-4-20	10:10	-	-	Dry	N
T-20	Seneca	Seneca II West	6-4-20	12:10	-2.8	-	NO Flow	N
T-22	Seneca	Seneca II West	6-4-20	12:30	-0.8	-	NO Flow	N
T-24	Seneca	Seneca II West	6-4-20	13:10	-	-	Dry	N
T-25	Seneca	Seneca II West	6-4-20	10:45	-	-	Dry	N
T-26	Seneca	Seneca II West	6-4-20	11:10	-1.0	-	NO Flow	N

SITE ID	COMPANY	MINE	DATE	TIME	WATER LEVEL (FT)	OUTFLOW (GPM)	OBSERVATIONS	MAINTENANCE (Y/N)
T-27	Seneca	Seneca II West	6-4-20	11:20	-1.5	—	no Flow	N
T-3	Seneca	Seneca II West	6-4-20	10:25	-2.5	—	no Flow	N
T-5	Seneca	Seneca II West	6-4-20	09:50	-2.7	—	no Flow	N
010	Seneca	Yoast	6-2-20	16:30	0.1	167.6	outlet pipe rusted, cat tails	Y
011	Seneca	Yoast	6-2-20	07:30	0.1	32.7		N
011A	Seneca	Yoast	6-2-20	17:30	-0.6	—	no Flow	N
012	Seneca	Yoast	6-1-20	11:50	0.1	198.7	cat tails in panel	N
012A	Seneca	Yoast	6-3-20	06:30	-0.3	—	no Flow	N
013	Seneca	Yoast	6-1-20	12:10	-0.1	—	no Flow	N
014	Seneca	Yoast	6-1-20	12:20	-0.2	—	no Flow	N
ST-1	Seneca	Yoast	6-2-20	17:50	-1.2	—	no Flow	N

NOTES