



Seneca Coal Company
29515 Routt County Road 27
Oak Creek, CO 80467

November 18, 2020

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

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

Dear Robin:

In accordance with Rule 4.05.9(17), please find enclosed the Yoast Mine (YM) Impoundment Inspection Report (IIR) and Impoundment Inspection Log (IIL). Please contact me with any comments and/or questions.

Sincerely,

Miranda Kawcak

Miranda Kawcak
Environmental Manager
Peabody, Colorado Operations

Enclosure: YM 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
	10/22/2020		9/24/2020	
	Pond #010		NW¼ NE¼, Sec. 8, T5N, R87W	
	CO-0000221 D.P. 010		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 (10.1 ft)		10.1		
Outflow (gpm)		X		
1.1				
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
	10/22/2020		9/24/2020	
	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 1.1 feet below spillway
Existing Embankment Freeboard (5.1 ft)		8.5		
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
	10/22/2020		9/24/2020	
	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 1.2 feet below spillway	
Existing Embankment Freeboard (4.6 ft)	9			
Outflow (gpm)		X	0	
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
	10/22/2020		9/24/2020	
	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		76.3
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
	10/22/2020		9/24/2020	
	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 1.5 feet below spillway
Existing Embankment Freeboard (4.6 ft)		6.1		
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
	10/22/2020		9/24/2020	
	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 2.0 feet below outlet	
Existing Embankment Freeboard (4.0 ft)	6			
Outflow (gpm)		X	0	
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
	10/22/2020		9/24/2020	
	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 1.2 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	10/22/2020	Date Last Inspected	9/24/2020	
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	Water level is 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): 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	10-22-20	08:50	0.06	47.6	Flume unlevel, most water going under	X
003	Sage Creek	Sage Creek	10-22-20	08:30	0.10	2.5	cubert Flume broken	X
004	Sage Creek	Sage Creek	10-22-20	09:20	0.12	46.7		N
Lower Sump	Sage Creek	Sage Creek	10-2-20	07:10	0.06	70		
PECOCO	Sage Creek	Sage Creek	10-2-20	07:20	0.07	28		
Portal Sump 1	Sage Creek	Sage Creek	10-2-20	07:30	-0.3	10		
Portal Sump 2	Sage Creek	Sage Creek	10-2-20	07:25	—	—	not pumping	
Spill Control 2	Sage Creek	Sage Creek	10-2-20	07:45	—	—	Dry	
Truck Wash	Sage Creek	Sage Creek	10-2-20	07:00	—	—	Dry	
Upper Sump	Sage Creek	Sage Creek	10-2-20	08:00	0.1	33		
001	Seneca	Hayden Gulch	10-22-20	15:05	-1.5	—	no Flow	N
002	Seneca	Hayden Gulch	10-22-20	15:15	-2.5	—	no Flow	N
005	Seneca	Seneca II West	10-22-20	14:35	-2.3	—	no Flow	N
006	Seneca	Seneca II West	10-22-20	12:45	0.1	78.9	sluff on S. side no impact	N
009	Seneca	Seneca II West	10-22-20	11:20	-2.3	—	no Flow	N
015	Seneca	Seneca II West	10-22-20	11:35	0.05	1.0		N
016	Seneca	Seneca II West	10-22-20	13:00	0.1	73.7		N
017	Seneca	Seneca II West	10-22-20	13:20	0.04	1.6		N
T-1	Seneca	Seneca II West	10-22-20	12:40	—	—	Dry	N
T-18	Seneca	Seneca II West	10-22-20	14:10	-4	—	no Flow	N
T-2	Seneca	Seneca II West	10-22-20	12:55	—	—	Dry	N
T-20	Seneca	Seneca II West	10-22-20	14:20	—	—	no Flow Dry	N
T-22	Seneca	Seneca II West	10-22-20	14:30	—	—	no Flow Dry	N
T-24	Seneca	Seneca II West	10-24-20	14:40	—	—	Dry	N
T-25	Seneca	Seneca II West	10-22-20	15:20	—	—	gone	N
T-26	Seneca	Seneca II West	10-22-20	13:45	-3	—	no Flow	N

SITE ID	COMPANY	MINE	DATE	TIME	WATER LEVEL (FT)	OUTFLOW (GPM)	OBSERVATIONS	MAINTENANCE (Y/N)
T-27	Seneca	Seneca II West	10-22-20	13:50	-2	—	NO Flow	N
T-3	Seneca	Seneca II West	10-22-20	12:50	—	—	Dry	
T-5	Seneca	Seneca II West	10-22-20	14:00	-4	—	NO Flow	N
010	Seneca	Yoast	10-22-20	10:45	0.02	1.1	outlet pipe rusted through	Y
011	Seneca	Yoast	10-22-20	10:51:00	-1.1	—	NO Flow	N
011A	Seneca	Yoast	10-22-20	10:55	-1.2	—	NO Flow	N
012	Seneca	Yoast	10-22-20	12:00	0.1	76.3	catfish in pond	N
012A	Seneca	Yoast	10-22-20	12:10	-1.5	—	NO Flow	N
013	Seneca	Yoast	10-22-20	12:15	-2	—	NO Flow	N
014	Seneca	Yoast	10-22-20	12:30	-1.4	—	NO Flow	N
ST-1	Seneca	Yoast	10-22-20	07:30	-3	—	NO Flow	N

CLIMATIC CONDITIONS:

FIELD PERSONNEL: 54

FIELD PERSONNEL SIGNATURE:

NOTES

[illegible]