



Seneca II West Mine
29515 Routt County Road 27
Oak Creek, CO 80467

November 23, 2021

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

RE: Seneca II W Mine, Permit C-82-057, Fourth Quarter 2021 IIR

CDRMS:

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

Sincerely,

Miranda Kawcak
Environmental Manager
Peabody, Colorado Operations

Enclosure: SIIW IIR

Mining Area	Seneca II West Mine	Facility Configuration	Cross-Vally Pond	Quarterly Impoundment Inspection Form
Date Inspected	10/27/2021	Date Last Inspected	9/23/2021	
Impoundment	Pond #006	Pond Location	NW¼ NW¼, Sec. 22, T5N, R88W	
NPDES ID No	CO-0000221 D.P. 006	Site Location	8 mi. S 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 (ft above or below principal spillway)	X		0.1	
Existing Embankment Freeboard (7.5 ft)	7.4			
Outflow (gpm)	X		23.7	
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	SLUFF ON SOUTH SIDE (NO IMPACT)	
Maintenance Performed		X		
Additional Comments	X			

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep	Seneca II West Mine	Facility Configuration Date Last Inspected Pond Location Site Location Inspector	Cross-Vally Pond	Quarterly Impoundment Inspection Form
	10/27/2021		9/23/2021	
	Pond #015		NE¼ SE¼, Sec. 23, T5N, R88W	
	CO-0000221 D.P. 015		8 mi. S of Hayden, CO	
	Miranda Kawcak		Jason Herden	
Mark or Write in Appropriate Response:				
FEATURE		PROBLEM		COMMENTS
		YES (Above)	NO (Below)	
GENERAL				
Water Level (ft above or below principal spillway)			X	0.4
Existing Embankment Freeboard (4.0 ft)		4.4		
Outflow (gpm)			X	0.0
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	
MAINTENANCE				
Maintenance Required			X	
Maintenance Performed			X	
Additional Comments			X	

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep	Seneca II West Mine	Facility Configuration Date Last Inspected Pond Location Site Location Inspector	Cross-Vally Pond	Quarterly Impoundment Inspection Form
	10/27/2021		9/23/2021	
	Pond #016		NE¼ SE¼, Sec. 27, T5N, R88W	
	CO-0000221 D.P. 016		8 mi. S of Hayden, CO	
	Miranda Kawcak		Jason Herden	
Mark or Write in Appropriate Response:				
FEATURE		PROBLEM		COMMENTS
		YES (Above)	NO (Below)	
GENERAL				
Water Level (ft above or below principal spillway)		X		0.1
Existing Embankment Freeboard (6.8 ft)		6.9		
Outflow (gpm)		X		21.3
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	Seneca II West Mine	Facility Configuration	Cross-Vally Pond	Quarterly Impoundment Inspection Form
Date Inspected	10/27/2021	Date Last Inspected	9/23/2021	
Impoundment	Pond #017	Pond Location	SW¼ NE¼, Sec. 34, T5N, R88W	
NPDES ID No	CO-0000221 D.P. 017	Site Location	8 mi. S 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 (ft above or below principal spillway)		X	0.4	
Existing Embankment Freeboard (3.1 ft)	3.5			
Outflow (gpm)		X	0.0	
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		
MAINTENANCE				
Maintenance Required		X		
Maintenance Performed		X		
Additional Comments		X		

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep	Seneca II West Mine	Facility Configuration Date Last Inspected Pond Location Site Location Inspector	Stockpond	Quarterly Impoundment Inspection Form
	10/27/2021		9/23/2021	
	Stock Tank T-2		NW¼SW¼, Sec 22, T5N, R88W	
	N/A		8 mi S of Hayden, CO	
	Miranda Kawcak		Jason Herden	
Mark or Write in Appropriate Response:				
FEATURE		PROBLEM		COMMENTS
		YES (Above)	NO (Below)	
GENERAL				
Water Level (ft above or below principal spillway)			X	4.0, DRY
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	

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep	Seneca II West Mine	Facility Configuration Date Last Inspected Pond Location Site Location Inspector	Stockpond	Quarterly Impoundment Inspection Form
	10/27/2021		9/23/2021	
	Stock Tank T-3		NW¼SE¼, Sec 22, T5N, R88W	
	N/A		8 mi S 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	DRY
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 Services	CLIENT: Peabody	JOB(s): 2021-095 (PSCM), 2021-096 (SCC)
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FLOW DATA

SITE ID	COMPANY	MINE	DATE	WATER LEVEL (FT)	OUTFLOW (GPM)	OBSERVATIONS	MAINTENANCE (Y/N)
002	Sage Creek	Sage Creek	10-27-21	0.04	28.7	Flume locking & flowing under	Y
003	Sage Creek	Sage Creek	10-27-21	-0.15	—	no flow, animal burrows	N
004	Sage Creek	Sage Creek	10-27-21	0.10	46.4		N
Lower Sump	Sage Creek	Sage Creek	10-28-21	0.05	47		N
PECOCO	Sage Creek	Sage Creek	10-28-21	0.06	49		N
Portal Sump 1	Sage Creek	Sage Creek	10-28-21	-1.0	—	no flow	N
Portal Sump 2	Sage Creek	Sage Creek	10-28-21	—	—	not pumping	N
Spill Control 2	Sage Creek	Sage Creek	10-28-21	—	—	Dry	N
Truck Wash	Sage Creek	Sage Creek	10-28-21	—	—	Dry	N
Upper Sump	Sage Creek	Sage Creek	10-28-21	0.1	38		N
001	Seneca	Hayden Gulch	10-28-21	—	—	no flow, dry	N
002	Seneca	Hayden Gulch	10-28-21	—	—	Dry	N
005	Seneca	Seneca II West	10-27-21	-3.0	—	no flow	N
006	Seneca	Seneca II West	10-27-21	0.1	23.7	sluff on S. side	N
009	Seneca	Seneca II West	10-27-21	-2.7	—	no flow	N
015	Seneca	Seneca II West	10-27-21	-0.4	—	no flow	N
016	Seneca	Seneca II West	10-27-21	0.1	21.3		N
017	Seneca	Seneca II West	10-27-21	-0.4	—	no flow	N
T-1	Seneca	Seneca II West	10-27-21	—	—	Dry	N
T-18	Seneca	Seneca II West	10-27-21	-4.0	—	no flow	
T-2	Seneca	Seneca II West	10-27-21	—	—	Dry	N
T-20	Seneca	Seneca II West	10-27-21	—	—	no flow	N
T-22	Seneca	Seneca II West	10-27-21	—	—	Dry	N
T-24	Seneca	Seneca II West	10-27-21	—	—	Dry	N
T-25	Seneca	Seneca II West	10-27-21	—	—	gone	N
T-26	Seneca	Seneca II West	10-27-21	-3.3	—	no flow	N

