

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	Yoast Mine(Seneca Coal Co)	Facility C	Configuration	Cross-	Valley Pond		
Date Inspected	6/2/2020	Date La	st Inspected	3/	2/2020		
Impoundment	Pond #010	Pond	Location	NW¼ NE¼, 9	Sec. 8, T5N, R87W	Qua	rterly Impoundment Inspection Form
NPDES ID No	CO-0000221 D.P. 010	Site	Location	8.5 mi SE	ni SE of Hayden, CO		
Owner's Rep	Miranda Kawcak	Ins	spector	Jason Herden			
			Mark o	r Write in	Appropriate l	Response:	
	FEATURE		PROBLEM				COMMENTS
			YES (At	ove)	NO (Bel	ow)	
GENERAL							
Water Level (above or	below principal spillway)		X				water level 0.1 feet above spillway
Existing Embankment	Existing Embankment Freeboard (10.1 ft)			l			
Outflow (gpm)			X				167.6
EROSION							
Rills & Gullies on Em	bankment				X		
Wave Erosion					X		
Spillway Erosion					Х		
Burrows					Х		
Other					X		
STRUCTURAL							
Differential Settling					X		
Cracks or Slides					X		
Seepage					Х		
Other					Х		
STRUCTURES							
Principal Spillway							
Clogged Orifice					Х		
Clogged or Damage			Х				Outlet culvert starting to rust out but still functionable
Damaged Headgate	;				NA		
Emergency Spillway			1		T		
Erosion					Х		
Riprap					Х		
Clogged or Damage	d Culvert				Х		
Other					Х		
MAINTENACE			1		1		
Maintenance Required			X				See comment above
Maintenance Performe	ed				Х		

Additional Comments

Mining Area	Yoast Mine(Seneca Coal Co)	Facility C	onfiguration	Cross	s-Vally Pond		
Date Inspected	6/2/2020	Date Las	st Inspected	3	/2/2020		
Impoundment	Pond #011	Pond	Location	NW¼ SW¼,	Sec. 16, T5N, R87W	Quai	rterly Impoundment Inspection Form
NPDES ID No	CO-0000221 D.P.011	Site I	Location	8.5 mi SE	of Hayden, CO	•	
Owner's Rep	Miranda Kawcak	Ins	pector	ector Jason Herden			
			Mark o		n Appropriate R	Response:	
	FEATURE		PROBLEM				COMMENTS
			YES (At	oove)	NO (Belo	w)	
GENERAL							
	below principal spillway)		X				Water level 0.1 feet above spillway
Existing Embankment	Freeboard (5.1 ft)		8.5				
Outflow (gpm)			Х				32.7
EROSION							
Rills & Gullies on Eml	bankment				Х		
Wave Erosion					Х		
Spillway Erosion					X		
Burrows					Х		
Other					X		
STRUCTURAL							
Differential Settling					X		
Cracks or Slides					X		
Seepage Other					X		
STRUCTURES			X				
Principal Spillway							
Clogged Orifice					Х		
Clogged or Damage	ed Culvert				X		
Damaged Headgate					NA NA		
Emergency Spillway					IN/A		
Erosion					Х		
Riprap					X		
Clogged or Damage	d Culvert				X		
Other					X		
MAINTENACE							
Maintenance Required					Х		
Maintenance Performe	d				Х		
Additional Comments					Х		

Mining Area	Yoast Mine(Seneca Coal Co)	Facility (Configuration	Cross	s-Vally Pond	<u>_</u>	
Date Inspected	6/2/2020	Date La	st Inspected	3,	/2/2020		
Impoundment	Pond #011A	Pond	Location	SW¼ NW¼,	SW¼ NW¼, Sec. 16, T5N, R87W		rterly Impoundment Inspection Form
NPDES ID No	N/A	Site	Location	8.5 mi SE	of Hayden, CO	•	
Owner's Rep	Miranda Kawcak	Ins	spector	Jason Herden			
_			Mark	or Write i	n Appropriate F	Response:	
	FEATURE			PRC	BLEM		COMMENTS
			YES (Ab	oove)	NO (Belo	w)	
GENERAL							
Water Level (above or	below principal spillway)				Х		Water Level 0.6 feet below spillway
Existing Embankment	Freeboard (4.6 ft)		6				
Outflow (gpm)					X		
EROSION							
Rills & Gullies on Emb	bankment				X		
Wave Erosion					X		
Spillway Erosion					X		
Burrows				Х			
Other				Х			
STRUCTURAL							
Differential Settling					Х		
Cracks or Slides					Х		
Seepage					X		
Other					Х		
STRUCTURES							
Principal Spillway					r		
Clogged Orifice					Х		
Clogged or Damage					Х		
Damaged Headgate					NA		
Emergency Spillway					T		
Erosion					Х		
Riprap					Х		

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X

Clogged or Damaged Culvert

Other

MAINTENACE
Maintenance Required

Maintenance Performed
Additional Comments
Top of Sediment Storage = 2.1 feet below top of pipe

Mining Area	Yoast Mine(Seneca Coal Co)	Facility C	onfiguration	Cross	s-Vally Pond		
Date Inspected	6/1/2020	Date Las	st Inspected	3,	/2/2020		
Impoundment	Pond #012	Pond	Location	NE¼ NW¼,	Sec. 19, T5N, R87W	Qua	rterly Impoundment Inspection Form
NPDES ID No	CO-0000221 D.P. 012	Site I	Location	8.5 mi SE	8.5 mi SE of Hayden, CO		
Owner's Rep	Miranda Kawcak	Ins	pector Jase		ason Herden		
			Mark		n Appropriate F	Response:	
	FEATURE				OBLEM		COMMENTS
			YES (Ab	ove)	NO (Belo	w)	
GENERAL							
	below principal spillway)		Х				Water level 0.1 feet above spillway
Existing Embankment	Freeboard (9.0 ft)		9				
Outflow (gpm)			Х				198.7
EROSION					T		
Rills & Gullies on Emb	ankment				X		
Wave Erosion					X		
Spillway Erosion					X		
Burrows					X		
Other STRUCTURAL					Х		
Differential Settling					х		
Cracks or Slides					X		
Seepage Seepage					X		
Other					X		
STRUCTURES							
Principal Spillway							
Clogged Orifice					Х		
Clogged or Damage	d Culvert				Х		
Damaged Headgate					NA		
Emergency Spillway							
Erosion					Х		
Riprap					X		
Clogged or Damaged	d Culvert				Х		
Other					Х		
MAINTENACE							
Maintenance Required					Х		
Maintenance Performe	d				Х		
Additional Comments					Х		

Mining Area	Yoast Mine(Seneca Coal Co)	acility Co	nfiguratio	Cross-	Vally Pond				
Date Inspected	6/3/2020	Date Last	Inspected	3/	2/2020				
Impoundment	Pond #012A	Pond L	ocation	NE¼ NW¼,S	ec. 19, T5N, R87W	Ouai	rterly Impoundment Inspection Form		
NPDES ID No	N/A	Site Lo	ocation	8.5 mi SE of Hayden, CO					
Owner's Rep	Miranda Kawcak	Insp	ector	Jaso	n Herden				
_			Mark	or Write	in Appropriat	Response	e:		
FEATURE					OBLEM	_	COMMENTS		
	YES (Above)	NO (Bel	ow)					
GENERAL									
Water Level (above or	below principal spillway)				Х		Water level 0.3 feet below spillway		
Existing Embankment	Freeboard (4.6 ft)		6	.6					
Outflow (gpm)					Х				
EROSION									
Rills & Gullies on Em	bankment				Х				
Wave Erosion					Х				
Spillway Erosion					Х				
Burrows					Х				
Other					Х				
STRUCTURAL									
Differential Settling					X				
Cracks or Slides					X				
Seepage					Х				
Other				X					
STRUCTURES									
Principal Spillway									
Clogged Orifice					X				
Clogged or Damage					X				
Damaged Headgate)				NA				
Emergency Spillway									
Erosion					Х				
Riprap					Х				
Clogged or Damage	d Culvert				Х				
Other					Х				
MAINTENACE			1			-			
Maintenance Required					Х				
Maintananaa Darfarma	A				V				

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Maintenance Performed

Additional Comments

Mining Area	Yoast Mine(Seneca Coal Co)	Facility C	Configuration	Cross	-Vally Pond		
Date Inspected	6/1/2020		st Inspected		2/2020		
Impoundment	Pond #013	Pond	Location	SE¼ NW¼, S	ec. 19, T5N, R87W	Oua	rterly Impoundment Inspection Form
NPDES ID No	CO-0000221 D.P. 013	Site 1	Location	8.5 mi SE of Hayden, CO			, , ,
Owner's Rep	Miranda Kawcak	Ins	pector	Jaso	n Herden		
_		•	Mark o	r Write ir	Appropriate l	Response:	
	FEATURE			PRO	BLEM		COMMENTS
			YES (Ab	oove)	NO (Belo	ow)	
GENERAL							
Water Level (above or	Water Level (above or below principal spillway)				X		water level 0.1 feet below outlet
Existing Embankment	5.5						
Outflow (gpm)					Х		
EROSION							
Rills & Gullies on Em	bankment				X		
Wave Erosion					X		
Spillway Erosion					X		
Burrows					Х		
Other					Х		
STRUCTURAL			1		1		
Differential Settling					X		Seep below toe of dam on south side is from a native spring.
Cracks or Slides					Х		Not affecting dam embankment
Seepage					X		
Other					Х		
STRUCTURES							
Principal Spillway			Г			-	
Clogged Orifice					X		
Clogged or Damage					Х		
Damaged Headgate					NA		
Emergency Spillway			T			1	T
Erosion					X		
Riprap	101				X		
Clogged or Damage	d Culvert				X		
Other					X		
MAINTENACE			I				
Maintenance Required					Х		

Maintenance Performed Additional Comments

Mining Area	Yoast Mine(Seneca Coal Co)	Facility Configu	ration	Cross-	Vally Pond		
Date Inspected	6/1/2020	Date Last Inspe	ected	3/2	2/2020		
Impoundment	Pond #014	Pond Location	on	NE¼ SW¼, Se	SW¼, Sec. 19, T5N, R87W Mi SE of Hayden, CO		rterly Impoundment Inspection Form
NPDES ID No	CO-0000221 D.P. 014	Site Location	n	8.5 mi SE			
Owner's Rep	Miranda Kawcak	Inspector	pector Jason Herden				
		N	Iark o		Appropriate F	Response:	
	FEATURE			PROI			COMMENTS
		7	YES (Al	bove)	NO (Bel	ow)	
GENERAL							
	below principal spillway)				Х		water level 0.2 feet below spillway
Existing Embankment	Freeboard (6.8 ft)		8				
Outflow (gpm)					Х		0
EROSION							
Rills & Gullies on Emb	pankment				Х		
Wave Erosion					Х		
Spillway Erosion					Х		
Burrows					Х		
Other					Х		
STRUCTURAL							
Differential Settling					X		
Cracks or Slides					X X		
Seepage Other					X		
STRUCTURES					^		
Principal Spillway							
Clogged Orifice					Х		
Clogged or Damage	d Culvert				X		
Damaged Headgate					NA NA		
Emergency Spillway		l			101		
Erosion Erosion					Х		
Riprap					X		
Clogged or Damaged	d Culvert				Х		
Other					Х		
MAINTENACE		,					
Maintenance Required					Х		
Maintenance Performe	d				Х		
Additional Comments					Х		

Mining Area	Yoast Mine(Seneca Coal Co)	Facility (Configuration	St	ockpond		
Date Inspected	6/2/2020	Date La	st Inspected	3,	/2/2020		
Impoundment	Stock Tank ST-1	Pond	Location	SW¼ Sec	. 20, T5N, R87W	Quai	rterly Impoundment Inspection Form
NPDES ID No	N/A	Site	Location 8.5 mi SE of Hayden,		of Hayden, CO	•	
Owner's Rep	Miranda Kawcak	Ins	spector	Jaso	on Herden		
_			Mark or	Write in	Appropriate I	Response:	
	FEATURE		PROBLEM				COMMENTS
			YES (Ab	ove)	NO (Belo	ow)	
GENERAL							
Water Level (above or	below principal spillway)				X		
EROSION							
Rills & Gullies on Em	bankment				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			1		1		
Clogged Orifice					NA		
Clogged or Damage					NA		
Damaged Headgate)				NA		
Emergency Spillway			ı		1	-	
Erosion					Х		
Riprap					X		
Clogged or Damage	d Culvert				NA		
Other					Х		
MAINTENACE			1		1		
Maintenance Required					X		
Maintenance Performe	ed				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

FLOW DA	ΓΑ	ř=	-			_		
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	Fune unlevely seeping weeker	У
003	Sage Creek	Sage Creek	6-2-20	12:55	6,10	36.7	Contract France broken conimalba	roug y
004	Sage Creek	Sage Creek	6-2-30	14:40	0,15	177		N
Lower Sump	Sage Creek	Sage Creek	6-42	06:20	0.1	117.6		N
PECOCO	Sage Creek	Sage Creek	6-3-20	11725	0.1	157		N
Portal Sump 1	Sage Creek	Sage Creek	64-20	011:50	0.1	14		N
Portal Sump 2	Sage Creek	Sage Creek	6-4-20	o7'.as	~		Not pumping	N
Spill Control 2	Sage Creek	Sage Creek	6-4-20	06:45		_	DIS	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	6420	09'00	-15	~	No Flow	N
002	Seneca	Hayden Gulch	6-4-20	S9;≥5	-2ج		no Flow	لبر
005	Seneca	Seneca II West	6-1-8	b:25	005	53,8	Spring Coten no impact	N
006	Seneca	Seneca II West	61-20	Ø;50	0.1	197.3	spring@oten no impact skecon sister no impact	N
009	Seneca	Seneca II West	61-20	11:00	-0,3		20 FbW	N
015	Seneca	Seneca II West	6-1-2	11:30	0.10	77.2		N
016	Seneca	Seneca II West	6-1-30	09:15	0.1	હર,1	small sup under flume	Y
017	Seneca	Seneca II West	61-20	09;3S	0,1	154.6	· · · · · · · · · · · · · · · · · · ·	N
T-1	Seneca	Seneca II West	6420	09150		_	Pr	N
T-18	Seneca	Seneca II West		11:45	-1,0	_	NO Flow	N
T-2	Seneca	Seneca II West	640	to'le	_		Pro	N
T-20	Seneca	Seneca II West	6-4-20	12:10	-7.8	_	No Flow	N
T-22	Seneca	Seneca II West	6-4-8		8	_	NO Flow	N
T-24	Seneca	Seneca II West		13:10			Din	N
T-25	Seneca	Seneca II West		10:45		_	Dry	N
T-26	Seneca	Seneca II West			-10	_	NO Flow	N

SITE ID	COMPANY	MINE	DATE	TIME	WATER LEVEL (FT)	OUTFLOW (GPM)	OBSERVATIONS	MAINTENANCE (Y/N)
T-27	Seneca	Seneca II West	6-4-3	11:20	-1.5	_	NO Flow	N
T-3	Seneca	Seneca II West	6-4-2	10'.25	- 52		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 tains	У
011	Seneca	Yoast	622	া,ভ	0.1	32,7		N
011A	Seneca	Yoast	6-2-20	17:30	4	_	no Flow	N
012	Seneca	Yoast	6-1-35	11:50	0,1	1987	cathis in And	N
012A	Seneca	Yoast	6-3-20	06:30	-,3	_	No Flow	ىد
013	Seneca	Yoast	6-1-20	15,10	1	~	NO Flow	N
014	Seneca	Yoast	6-1-30	13:20	-,2	-	NO Flow	N
ST-1	Seneca	Yoast	6-2.20	17:50	~1. 3	_	NO Flow	N

CLIMATIC CONDITIONS:	1	
FIELD PERSONNEL: JH	FIELD PERSONNEL SIGNATURE:	

NOTES	

