



January 16, 2024

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

RE: Peabody Sage Creek Mine, Permit C-2009-087, Fourth Quarter 2023 IIR

CDRMS-

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

Best regards,

Miranda Kawcak

Miranda Kawcak Environmental Manager Peabody, Colorado Operations

Enclosure: PSCM 4Q23 IIR

	PERIODIC INSPECTION FORM: Water, Se	diment, or Slurry Impoundm	ents		
INS	PECTOR'S NAME: Jason Herden	DATE: 11/06/23			
NPI	DES I.D. NO.: CO-0048275 D.P. 002				
FAC	CILITY CONFIGURATION: Incised Pond	DATE LAST INSPECTION: 09/2	20/23		
SITI	E NAME: Wadge Impoundment #002	LOCATION: NW¼ NE¼, Sec. 2	, T5N, R	87W	
MI	NE NAME: Peabody Sage Creek Mine	LOCATION: 7.1 mi. SE of Hay	den, CO		
MI	NE I.D. NO.: CMLRD Permit No. C-2009-087	OWNER'S REP.: Miranda Kaw	<i>ı</i> cak		
	CIRCLE OR WRITE IN APPROPRIATE RESP	ONSE:	YES	NO	N/A
1	Foundation preparation (removal of vegetation, stumps, tops	oil:			х
2	Lift thickness:				х
3	Compaction according to approved plan:				х
4	Burning (specify extent and location):				х
5	Angle of slope:upstream,downstream		Tota	al = N/A	١
6	*Seepage (specify location, color, and approximate volume)				
	From underdrain pipes				х
	At isolated points on embanckement slopes				х
	At natural hillside:				х
	Over widespread areas:				х
			х		
	"Boils" beneath stream or ponded water:			х	
7	Cracks or scarps on crest:				х
8	Cracks or scarps on slope:				х
9	Sloughing or bulging on slope:				х
10	*Major erosion problems:			х	
11	Surface movements in valley bottom or on hillside:			х	
12	*Erosion of toe:				х
13	*Water impounded against toe:				х
14	Existing embankment freeboard: 0 FT				
15	Increase Decrease in water level: <b>0.1 FT ABOVE SP</b>	ILLWAY			
16	Cracks, bulging, or erosion on upstream face:				х
17	Visible sumps or sinkholes in slurry surface:				х
18	*Clogging				
	Spillway channels and pipes:			Х	
	Decant system:				х
	Diversion ditches:			Х	
19	*Cracking or crushing of pipes				
	Spillway pipes:				х
	Decant system:				х
20	Trash racks clear and in place:				х
21	Discharge rate: <b>38.9 GPM</b>				
ana des	ajor adverse changes in these items could cause instability and I Mine Superintendent for further evaluation. Adverse condition cribed (extextent, location, volume, etc.) here: DISCHARGE W. SET.	ons noted in these items shoul	d norma	lly be	

	PERIODIC INSPECTION FORM: Water, Se	diment, or Slurry Impoundn	nents		
INS	PECTOR'S NAME: Jason Herden	DATE: 11/06/23			
NPI	DES I.D. NO.: CO-0048275 D.P. 003				
FAC	CILITY CONFIGURATION: Diked Pond	DATE LAST INSPECTION: 09/	20/23		
SITI	NAME: Shop Pond #003	LOCATION: SE¼ SW¼, Sec. 2	7, T6N, I	R87W	
MII	NE NAME: Peabody Sage Creek Mine	LOCATION: 7.1 mi. SE of Hay	/den, CO	)	
MI	NE I.D. NO.: CMLRD Permit No. C-2009-087	OWNER'S REP.: Miranda Ka	wcak		
	CIRCLE OR WRITE IN APPROPRIATE RESI	PONSE:	YES	NO	N/A
1	Foundation preparation (removal of vegetation, stumps, tops	oil:	х		
2	Lift thickness: 12 IN				
3	Compaction according to approved plan:		x		
4	Burning (specify extent and location):			х	
5	Angle of slope: 2:1 upstream, 3:1 downstream		То	tal = 5:1	
6	*Seepage (specify location, color, and approximate volume)				
	From underdrain pipes				х
	At isolated points on embanckement slopes			х	
	At natural hillside:			х	
	Over widespread areas:			х	
	From downstream foundation area:			х	
	"Boils" beneath stream or ponded water:		х		
7	Cracks or scarps on crest:			х	
8	Cracks or scarps on slope:			х	
9	Sloughing or bulging on slope:			х	
10	*Major erosion problems:			х	
	Surface movements in valley bottom or on hillside:			х	
12	*Erosion of toe:			х	
	*Water impounded against toe:			х	
14	Existing embankment freeboard (4.9 is normal): <b>4.8 FT</b>				
15	IncreaseDecrease in water level: <b>0.1 FT ABOVE</b>	SPILLWAY			•
	Cracks, bulging, or erosion on upstream face:			х	
_	Visible sumps or sinkholes in slurry surface:				X
18	*Clogging			1	
	Spillway channels and pipes:			х	
	Decant system:				Х
	Diversion ditches:			х	
19	*Cracking or crushing of pipes				
	Spillway pipes:				Х
	Decant system:				Х
	Trash racks clear and in place:		X		
	Discharge rate: <b>1.5 GPM</b>				
ana	ajor adverse changes in these items could cause instability and Mine Superintendent for further evaluation. Adverse condition cribed (extextent, location, volume, etc.) here: RODENT BURR	ons noted in these items shou	ıld norm	ally be	ger

1016	PERIODIC INSPECTION FORM: Water, Se		nents		
	PECTOR'S NAME: Jason Herden	DATE: 11/07/23			
	DES I.D. NO.: N/A	DATE LAST INSPECTION OF	(20./22		
	CILITY CONFIGURATION: Incised Pond	DATE LAST INSPECTION: 09/		D0714/	
SITE NAME: Spill Control Pond #2 LOCATION: NW% NE%, Sec. 34, T6N					
	NE NAME: Peabody Sage Creek Mine	LOCATION: 7.1 mi. SE of Ha	-	)	
IVIII	NE I.D. NO.: CMLRD Permit No. C-2009-087	OWNER'S REP.: Miranda Ka			1
	CIRCLE OR WRITE IN APPROPRIATE RESP		YES	NO	N/A
	Foundation preparation (removal of vegetation, stumps, tops	oil:	Х		
	Lift thickness: N/A				
	Compaction according to approved plan:				Х
	Burning (specify extent and location):				Х
	Angle of slope: upstream, downstream			N/A	
6	*Seepage (specify location, color, and approximate volume)			1	1
	From underdrain pipes				Х
	At isolated points on embanckement slopes			х	
	At natural hillside:			х	
	Over widespread areas:			х	
	From downstream foundation area:			х	
	"Boils" beneath stream or ponded water:			х	
7	Cracks or scarps on crest:			х	
8	Cracks or scarps on slope:			х	
	Sloughing or bulging on slope:			х	
10	*Major erosion problems:			х	
	Surface movements in valley bottom or on hillside:			х	
12	*Erosion of toe:			x	
13	*Water impounded against toe:			x	
14	Existing embankment freeboard (7.0 is normal when dry): <b>7 F</b>	Т			
15	Increase Decrease in water level: DRY				
	Cracks, bulging, or erosion on upstream face:			x	
17	Visible sumps or sinkholes in slurry surface:				х
18	*Clogging				
	Spillway channels and pipes:			x	
	Decant system:				х
	Diversion ditches:				х
19	*Cracking or crushing of pipes				
	Spillway pipes:				х
	Decant system:				х
20	Trash racks clear and in place:				х
21	Discharge rate: <b>0 GPM</b>				
ana	ajor adverse changes in these items could cause instability and I Mine Superintendent for further evaluation. Adverse conditio cribed (extextent, location, volume, etc.) here:	· ·	_	_	ger

INIC	PERIODIC INSPECTION FORM: Water, Se		nents		
	PECTOR'S NAME: Jason Herden	DATE: 11/07/23			
	DES I.D. NO.: N/A	DATE LACT INCRECTION: 00	/20/22		
	CILITY CONFIGURATION: Final Pit Impoundment	DATE LAST INSPECTION: 09/		20714	
	NAME: Pecoco Reservoir	LOCATION: SW¼ NW¼, Sec.			
	NE NAME: Peabody Sage Creek Mine	LOCATION: 7.1 mi. SE of Hay			
IVIII	NE I.D. NO.: CMLRD Permit No. C-2009-087	OWNER'S REP.: Miranda Ka			1
1	CIRCLE OR WRITE IN APPROPRIATE RESI		YES	NO	N/A
	Foundation preparation (removal of vegetation, stumps, tops Lift thickness: <b>N/A</b>	011.	Х		
	Compaction according to approved plan:				
	Burning (specify extent and location):		Х		
	Angle of slope: <u>5:1</u> upstream, <u>2:1</u> downstream		To	x tal = 7:1	
6	*Seepage (specify location, color, and approximate volume)		10	tai – 7.1	
U	From underdrain pipes				l v
	At isolated points on embanckement slopes			х	х
	At natural hillside:				
	Over widespread areas:			X X	
	From downstream foundation area:			x	
	"Boils" beneath stream or ponded water:			x	
7	Cracks or scarps on crest:			X	
	Cracks or scarps on slope:			X	
	Sloughing or bulging on slope:			X	
	*Major erosion problems:			х	
	Surface movements in valley bottom or on hillside:			x	
	*Erosion of toe:			X	
	*Water impounded against toe:			×	
	Existing embankment freeboard (6.1 is normal): <b>6.1 FT</b>				
15	Increase Decrease in water level: 0.05 FT ABOVE S	PILLWAY			
16	Cracks, bulging, or erosion on upstream face:			х	
17	Visible sumps or sinkholes in slurry surface:				х
18	*Clogging		-		
	Spillway channels and pipes:			х	
	Decant system:				х
	Diversion ditches:				х
19	*Cracking or crushing of pipes				
	Spillway pipes:			х	
	Decant system:				х
20	Trash racks clear and in place:				х
21	Discharge rate: <b>62 GPM</b>				
ana	ajor adverse changes in these items could cause instability and Mine Superintendent for further evaluation. Adverse condition or ibed (extextent, location, volume, etc.) here:	•	_	_	ger

	PERIODIC INSPECTION FORM: Water, Se	ediment, or Slurry Impoundr	nents		
	PECTOR'S NAME: Jason Herden	DATE: 11/07/23			
NPI	DES I.D. NO.: N/A				
FAC	/20/23				
SITI	E NAME: Lower Sump	LOCATION: SE¼, Sec. 34, T6	N, R87V	V	
MII	NE NAME: Peabody Sage Creek Mine	LOCATION: 7.1 mi. SE of Ha	yden, C	0	
MI	NE I.D. NO.: CMLRD Permit No. C-2009-087	OWNER'S REP.: Miranda Ka	wcak		
	CIRCLE OR WRITE IN APPROPRIATE RES	PONSE:	YES	NO	N/A
1	Foundation preparation (removal of vegetation, stumps, top:	soil:	х		
2	Lift thickness =				
3	Compaction according to approved plan:		х		
4	Burning (specify extent and location):			х	
5	Angle of slope:upstream,downstream			N/A	
6	*Seepage (specify location, color, and approximate volume)				
	From underdrain pipes				х
	At isolated points on embanckement slopes			х	
	At natural hillside:			х	
	Over widespread areas:			х	
	From downstream foundation area:			х	
	"Boils" beneath stream or ponded water:		х		
7	Cracks or scarps on crest:			х	
8	Cracks or scarps on slope:			х	
9	Sloughing or bulging on slope:			х	
10	*Major erosion problems:			х	
11	Surface movements in valley bottom or on hillside:			х	
12	*Erosion of toe:			х	
13	*Water impounded against toe:			х	
14	Existing embankment freeboard: <b>0 FT</b>			•	
15	Increase Decrease in water level: 0.05 FT ABOVE	SPILLWAY			
16	Cracks, bulging, or erosion on upstream face:			х	
17	Visible sumps or sinkholes in slurry surface:				х
18	*Clogging				
	Spillway channels and pipes:			х	
	Decant system:				х
	Diversion ditches:			х	
19	*Cracking or crushing of pipes				
	Spillway pipes:				х
	Decant system:				х
20	Trash racks clear and in place:		х		
21	Discharge rate: <b>58 GPM</b>				
ana	ajor adverse changes in these items could cause instability and I Mine Superintendent for further evaluation. Adverse condition cribed (extextent, location, volume, etc.) here:	· · · · · · · · · · · · · · · · · · ·	_	_	iger

1016	PERIODIC INSPECTION FORM: Water, Se		nents		
	PECTOR'S NAME: Jason Herden	DATE: 11/07/23			
	DES I.D. NO.: N/A	DATE LAST INSPECTION OF	(20./22		
	CILITY CONFIGURATION: Incised Pond	DATE LAST INSPECTION: 09/		D0714/	
SITE NAME: Truck Wash Settling Pond LOCATION: NW¼ NE¼, Sec. 34, T6N, R					
	NE NAME: Peabody Sage Creek Mine	LOCATION: 7.1 mi. SE of Ha	-	<u> </u>	
IVIII	NE I.D. NO.: CMLRD Permit No. C-2009-087	OWNER'S REP.: Miranda Ka			1
	CIRCLE OR WRITE IN APPROPRIATE RESI		YES	NO	N/A
	Foundation preparation (removal of vegetation, stumps, tops	oil:	х		
	Lift thickness: N/A			1	
	Compaction according to approved plan:				х
	Burning (specify extent and location):			<u> </u>	Х
	Angle of slope: upstream, downstream			N/A	
6	*Seepage (specify location, color, and approximate volume)			1	
	From underdrain pipes				х
	At isolated points on embanckement slopes				х
	At natural hillside:				Х
	Over widespread areas:				Х
	From downstream foundation area:				х
	"Boils" beneath stream or ponded water:			х	
7	Cracks or scarps on crest:				х
8	Cracks or scarps on slope:				х
9	Sloughing or bulging on slope:				х
10	*Major erosion problems:			х	
	Surface movements in valley bottom or on hillside:				х
12	*Erosion of toe:				х
13	*Water impounded against toe:				х
14	Existing embankment freeboard (5.0 is normal when dry): 5 F	Т			
15	Increase Decrease in water level: <b>DRY</b>				
	Cracks, bulging, or erosion on upstream face:				х
17	Visible sumps or sinkholes in slurry surface:				х
18	*Clogging				
	Spillway channels and pipes:			х	
	Decant system:				х
	Diversion ditches:				х
19	*Cracking or crushing of pipes				
	Spillway pipes:			х	
	Decant system:				х
20	Trash racks clear and in place:		х		
21	Discharge rate: <b>0 GPM</b>				•
ana	ajor adverse changes in these items could cause instability and I Mine Superintendent for further evaluation. Adverse condition Cribed (extextent, location, volume, etc.) here:	· · · · · · · · · · · · · · · · · · ·	_	_	iger

	PERIODIC INSPECTION FORM: Water, S	ediment, or Slurry Impound	ments		
INS	PECTOR'S NAME: Jason Herden	DATE: 11/07/23			
NPI	DES I.D. NO.: N/A				
FAC	CILITY CONFIGURATION: Diked Pond	DATE LAST INSPECTION: 09	/20/23		
SIT	E NAME: Upper Sump	LOCATION: NW¼, Sec. 3, T	5N, R87V	V7W	
MII	NE NAME: Peabody Sage Creek Mine	LOCATION: 7.1 mi. SE of H	ayden, Co	)	
MII	NE I.D. NO.: CMLRD Permit No. C-2009-087	OWNER'S REP.: Miranda Ka	awcak		
	CIRCLE OR WRITE IN APPROPRIATE RES	PONSE:	YES	NO	N/A
1	Foundation preparation (removal of vegetation, stumps, top	soil:	х		
2	Lift thickness:				
3	Compaction according to approved plan:		х		
4	Burning (specify extent and location):			х	
5	Angle of slope:upstream,downstream			N/A	
6	*Seepage (specify location, color, and approximate volume)		•		
	From underdrain pipes				х
	At isolated points on embanckement slopes			х	
	At natural hillside:			х	
	Over widespread areas:			х	
	From downstream foundation area:		х		
	"Boils" beneath stream or ponded water:			х	
7	Cracks or scarps on crest:			х	
8	Cracks or scarps on slope:			х	
9	Sloughing or bulging on slope:			х	
10	*Major erosion problems:			х	
11	Surface movements in valley bottom or on hillside:			х	
12	*Erosion of toe:			х	
13	*Water impounded against toe:			х	
14	Existing embankment freeboard: <b>0 FT</b>			•	
15	Increase Decrease in water level: <b>0.1 FT ABOVE</b>	SPILLWAY			
16	Cracks, bulging, or erosion on upstream face:			х	
17	Visible sumps or sinkholes in slurry surface:				х
18	*Clogging				
	Spillway channels and pipes:			х	
	Decant system:				х
	Diversion ditches:				х
19	*Cracking or crushing of pipes				
	Spillway pipes:			х	
	Decant system:				х
20	Trash racks clear and in place:		х		
21	Discharge rate: <b>47 GPM</b>				
and	ajor adverse changes in these items could cause instability an I Mine Superintendent for further evaluation. Adverse conditi cribed (extextent, location, volume, etc.) here:	· · · · · · · · · · · · · · · · · · ·	_	_	ger

1016	PERIODIC INSPECTION FORM: Water, So		nents			
	PECTOR'S NAME: Jason Herden	DATE: 11/07/23				
	DES I.D. NO.: N/A	<u></u>				
FACILITY CONFIGURATION: Diked Pond DATE LAST INSPECTION: 09/20/23						
SITE NAME: Portal Sump #1 (Upper North) LOCATION: NW¼, Sec. 3, T5N, R87W						
	NE NAME: Peabody Sage Creek Mine	LOCATION: 7.1 mi. SE of Ha		)		
MII	NE I.D. NO.: CMLRD Permit No. C-2009-087	OWNER'S REP.: Miranda Ka	wcak			
	CIRCLE OR WRITE IN APPROPRIATE RES	PONSE:	YES	NO	N/A	
1	Foundation preparation (removal of vegetation, stumps, top:	soil:	х			
2	Lift thickness = 12 IN					
3	Compaction according to approved plan:		X			
4	Burning (specify extent and location):			х		
5	Angle of slope:upstream,downstream			N/A		
6	*Seepage (specify location, color, and approximate volume)					
	From underdrain pipes				х	
	At isolated points on embanckement slopes				х	
	At natural hillside:				х	
	Over widespread areas:				х	
	From downstream foundation area:				х	
	"Boils" beneath stream or ponded water:			х		
7	Cracks or scarps on crest:				х	
8	Cracks or scarps on slope:				х	
9	Sloughing or bulging on slope:				х	
10	*Major erosion problems:			х		
11	Surface movements in valley bottom or on hillside:			х		
12	*Erosion of toe:				х	
13	*Water impounded against toe:				х	
14	Existing embankment freeboard:					
15	Increase Decrease in water level: 1.3 FT BELOW	SPILLWAY				
16	Cracks, bulging, or erosion on upstream face:				х	
17	Visible sumps or sinkholes in slurry surface:				х	
18	*Clogging					
	Spillway channels and pipes:			х		
	Decant system:				х	
	Diversion ditches:				х	
19	*Cracking or crushing of pipes					
	Spillway pipes:			х		
	Decant system:				х	
20	Trash racks clear and in place:				х	
21	Discharge rate: <b>0 GPM</b>					
	ajor adverse changes in these items could cause instability and	d should be reported to the E	ngineerii	ng Mana	ıger	
ana	I Mine Superintendent for further evaluation. Adverse condition cribed (extextent, location, volume, etc.) here:	<u>=</u>	_	_	J -	

	PERIODIC INSPECTION FORM: Water, Se	ediment, or Slurry Impoundn	nents				
INS	PECTOR'S NAME: Jason Herden	DATE: 11/07/23					
NP	DES I.D. NO.: N/A						
FAC	FACILITY CONFIGURATION: Diked Pond DATE LAST INSPECTION: 09/20/23						
SITE NAME: Portal Sump #2 (Lower South) LOCATION: NW¼, Sec. 3, T5N, R87W							
MIN	NE NAME: Peabody Sage Creek Mine	LOCATION: 7.1 mi. SE of Ha	yden, CC	)			
MIN	NE I.D. NO.: CMLRD Permit No. C-2009-087	OWNER'S REP.: Miranda Ka	wcak				
	CIRCLE OR WRITE IN APPROPRIATE RESP	ONSE:	YES	NO	N/A		
1	Foundation preparation (removal of vegetation, stumps, tops	oil:	х				
2	Lift thickness: 12 IN						
3	Compaction according to approved plan:		Х				
4	Burning (specify extent and location):			х			
5	Angle of slope:upstream,downstream			N/A			
6	*Seepage (specify location, color, and approximate volume)						
	From underdrain pipes				х		
	At isolated points on embanckement slopes				х		
	At natural hillside:				х		
	Over widespread areas:				х		
	From downstream foundation area:				х		
	"Boils" beneath stream or ponded water:		X				
7	Cracks or scarps on crest:				х		
8	Cracks or scarps on slope:				х		
9	Sloughing or bulging on slope:			х			
				Х			
	Surface movements in valley bottom or on hillside:			х			
12	*Erosion of toe:				х		
	*Water impounded against toe:				х		
14	Existing embankment freeboard:						
15							
	Cracks, bulging, or erosion on upstream face:				х		
	Visible sumps or sinkholes in slurry surface:				х		
18	66 5						
	Spillway channels and pipes:			Х			
	Decant system:				х		
	Diversion ditches:				х		
19	3 11						
	Spillway pipes:			X			
	Decant system:				х		
	Trash racks clear and in place:				X		
	Discharge rate: <b>0 GPM</b>						
and des	ajor adverse changes in these items could cause instability and Mine Superintendent for further evaluation. Adverse condition cribed (extextent, location, volume, etc.) here: PUMPS NOT PATROLLED VIA PUMPS ON FLOAT.	ons noted in these items shou	ıld norma	ally be			
l							

## **IMPOUNDMENT INSPECTION LOG**

**JOB DATA** 

JOB NAME: PEC Hydrologic Services	CLIENT: Peabody	JOB(s): 2023-086 (PSCM), 2023-087 (SCC)

FLOW DATA							
SITE ID	COMPANY	MINE	DATE	WATER LEVEL (FT)	OUTFLOW (GPM)	OBSERVATIONS	MAINTENANCE (Y/N)
002	Sage Creek	Sage Creek	11-6-27	0.1	35.9		N
003	Sage Creek	Sage Creek	11-6-33	0.	1.5	some animal barrows	N
Lower Sump	Sage Creek	Sage Creek	11-7-23	0.05	58		N
Pecoco	Sage Creek	Sage Creek	11-7-23	0.05	63		N
Portal Sump 1	Sage Creek	Sage Creek	11-7-23	-1.7	~	No Flow	N
Portal Sump 2	Sage Creek	Sage Creek	11-7-23	~	~	NOT Pumping	N
Spill Control 2	Sage Creek	Sage Creek	11.7-23	_	~	DIS	r
Truck Wash	Sage Creek	Sage Creek	11-7-23			Din	N
Upper Sump	Sage Creek	Sage Creek	11-7-27	0.1	47		N
006	Seneca	Seneca II West	(1-6-3)	0.1	35.9	sheffons. side, no impect	N
015	Seneca	Seneca II West	11-6-27	0.1	1,2	NO Flow	N
016	Seneca	Seneca II West	11-6-23	0.1	25,7		N
017	Seneca	Seneca II West	11-6-27	0.1	2,1	.0	N
T-2	Seneca	Seneca II West	11-6-53			01-	N
T-3	Seneca	Seneca II West	(1-6-3)	~3,1	~	NO Flow	N
010	Seneca	Yoast	11-6-27	0.1	2.1	autlet susted	Y
011	Seneca	Yoast	11-7-23	_1,5	~	NO FION	N
011 <b>A</b>	Seneca	Yoast	11-6-27	-2.6	_	NO FIN	N
012	Seneca	Yoast	11-6-27	0.1	36.7		N
012 <b>A</b>	Seneca	Yoast	(1-6-2)	11.5	_	NO FI-	N
013	Seneca	Yoast	11-6-27	~l, 3		No Flow	
014	Seneca	Yoast	11-6-23	-1.3	-	NO FIOW	

FIELD PERSONNEL:	HE	FIELD PERSONNEL SIGNATURE: Long	
NOTES			

