Peabody Sage Creek Mine
PO Box 250
36600 Routt County Road 27
Hayden, CO. 81639

July 18, 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, Second Quarter 2024 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 2Q24 IIR

PERIODIC INSPECTION FORM: Water, Sediment, or Slurry Impoundments				
INSPECTOR'S NAME: Jason Herden		**DATE: 06/10/24**		
NPDES I.D. NO.: CO-0048275 D.P. 002				
FACILITY CONFIGURATION: Incised Pond		**DATE LAST INSPECTION: 03/26/24**		
SITE NAME: Wadge Impoundment #002		**LOCATION: NW¼ NE¼, Sec. 2, T5N, R87W**		
MINE NAME: Peabody Sage Creek Mine		**LOCATION: 7.1 mi. SE of Hayden, CO**		
MINE I.D. NO.: CMLRD Permit No. C-2009-087		**OWNER'S REP.: Miranda Kawcak**		
	CIRCLE OR WRITE IN APPROPRIATE RESPONSE:	**YES**	**NO**	**N/A**
1	Foundation preparation (removal of vegetation, stumps, topsoil:			x
2	Lift thickness:			x
3	Compaction according to approved plan:			x
4	Burning (specify extent and location):			x
5	Angle of slope:_____upstream, _____downstream	Total = N/A		
6	*Seepage (specify location, color, and approximate volume)			
	From underdrain pipes			x
	At isolated points on embanckement slopes			x
	At natural hillside:			x
	Over widespread areas:			x
	From downstream foundation area:			x
	"Boils" beneath stream or ponded water:		x	
7	Cracks or scarps on crest:			x
8	Cracks or scarps on slope:			x
9	Sloughing or bulging on slope:			x
10	*Major erosion problems:		x	
11	Surface movements in valley bottom or on hillside:		x	
12	*Erosion of toe:			x
13	*Water impounded against toe:			x
14	Existing embankment freeboard: **0 FT**			
15	___ *Increase* _____ *Decrease in water level:* **0.4 FT ABOVE SPILLWAY**			
16	Cracks, bulging, or erosion on upstream face:			x
17	Visible sumps or sinkholes in slurry surface:			x
18	*Clogging			
	Spillway channels and pipes:		x	
	Decant system:			x
	Diversion ditches:		x	
19	*Cracking or crushing of pipes			
	Spillway pipes:			x
	Decant system:			x
20	Trash racks clear and in place:			x
21	Discharge rate: **246.7 GPM**			

Major adverse changes in these items could cause instability and should be reported to the Engineering Manager and Mine Superintendent for further evaluation. Adverse conditions noted in these items should normally be described (extextent, location, volume, etc.) here:* **FLUME NEEDS RESET, SLIGHTLY TILTED ALLOWING SOME WATER UNDER FLUME.

PERIODIC INSPECTION FORM: Water, Sediment, or Slurry Impoundments				
INSPECTOR'S NAME: Jason Herden		**DATE: 06/10/24**		
NPDES I.D. NO.: CO-0048275 D.P. 003				
FACILITY CONFIGURATION: Diked Pond		**DATE LAST INSPECTION: 03/26/24**		
SITE NAME: Shop Pond #003		**LOCATION: SE¼ SW¼, Sec. 27, T6N, R87W**		
MINE NAME: Peabody Sage Creek Mine		**LOCATION: 7.1 mi. SE of Hayden, CO**		
MINE I.D. NO.: CMLRD Permit No. C-2009-087		**OWNER'S REP.: Miranda Kawcak**		
	CIRCLE OR WRITE IN APPROPRIATE RESPONSE:	**YES**	**NO**	**N/A**
1	Foundation preparation (removal of vegetation, stumps, topsoil:	x		
2	Lift thickness: **12 IN**			
3	Compaction according to approved plan:	x		
4	Burning (specify extent and location):		x	
5	Angle of slope: **2:1** upstream, **3:1** downstream	**Total = 5:1**		
6	*Seepage (specify location, color, and approximate volume)			
	From underdrain pipes			x
	At isolated points on embanckement slopes		x	
	At natural hillside:		x	
	Over widespread areas:		x	
	From downstream foundation area:		x	
	"Boils" beneath stream or ponded water:		x	
7	Cracks or scarps on crest:		x	
8	Cracks or scarps on slope:		x	
9	Sloughing or bulging on slope:		x	
10	*Major erosion problems:		x	
11	Surface movements in valley bottom or on hillside:		x	
12	*Erosion of toe:		x	
13	*Water impounded against toe:		x	
14	Existing embankment freeboard (4.9 is normal): **4.8 FT**			
15	_____ *Increase* _____ *Decrease in water level:* **0.1 FT ABOVE SPILLWAY**			
16	Cracks, bulging, or erosion on upstream face:		x	
17	Visible sumps or sinkholes in slurry surface:			x
18	*Clogging			
	Spillway channels and pipes:		x	
	Decant system:			x
	Diversion ditches:		x	
19	*Cracking or crushing of pipes			
	Spillway pipes:			x
	Decant system:			x
20	Trash racks clear and in place:	x		
21	Discharge rate: **1.6 GPM**			

Major adverse changes in these items could cause instability and should be reported to the Engineering Manager and Mine Superintendent for further evaluation. Adverse conditions noted in these items should normally be described (extextent, location, volume, etc.) here:* **ANIMAL BURROWS.

PERIODIC INSPECTION FORM: Water, Sediment, or Slurry Impoundments				
INSPECTOR'S NAME: Jason Herden		DATE: 06/11/24		
NPDES I.D. NO.: N/A				
FACILITY CONFIGURATION: Incised Pond		DATE LAST INSPECTION: 03/27/24		
SITE NAME: Spill Control Pond #2		LOCATION: NW¼ NE¼, Sec. 34, T6N, R87W		
MINE NAME: Peabody Sage Creek Mine		LOCATION: 7.1 mi. SE of Hayden, CO		
MINE I.D. NO.: CMLRD Permit No. C-2009-087		OWNER'S REP.: Miranda Kawcak		

	CIRCLE OR WRITE IN APPROPRIATE RESPONSE:	YES	NO	N/A
1	Foundation preparation (removal of vegetation, stumps, topsoil:	x		
2	Lift thickness: **N/A**			
3	Compaction according to approved plan:			x
4	Burning (specify extent and location):			x
5	Angle of slope:___upstream, ____downstream		N/A	
6	*Seepage (specify location, color, and approximate volume)			
	From underdrain pipes			x
	At isolated points on embanckement slopes		x	
	At natural hillside:		x	
	Over widespread areas:		x	
	From downstream foundation area:		x	
	"Boils" beneath stream or ponded water:		x	
7	Cracks or scarps on crest:		x	
8	Cracks or scarps on slope:		x	
9	Sloughing or bulging on slope:		x	
10	*Major erosion problems:		x	
11	Surface movements in valley bottom or on hillside:		x	
12	*Erosion of toe:		x	
13	*Water impounded against toe:		x	
14	Existing embankment freeboard (7.0 is normal when dry): **7 FT**			
15	____ *Increase* _____ *Decrease in water level:* **DRY**			
16	Cracks, bulging, or erosion on upstream face:		x	
17	Visible sumps or sinkholes in slurry surface:			x
18	*Clogging			
	Spillway channels and pipes:		x	
	Decant system:			x
	Diversion ditches:			x
19	*Cracking or crushing of pipes			
	Spillway pipes:			x
	Decant system:			x
20	Trash racks clear and in place:			x
21	Discharge rate: **0.0 GPM**			

**Major adverse changes in these items could cause instability and should be reported to the Engineering Manager and Mine Superintendent for further evaluation. Adverse conditions noted in these items should normally be described (extextent, location, volume, etc.) here:*

PERIODIC INSPECTION FORM: Water, Sediment, or Slurry Impoundments				
INSPECTOR'S NAME: Jason Herden		**DATE: 06/11/24**		
NPDES I.D. NO.: N/A				
FACILITY CONFIGURATION: Final Pit Impoundment		**DATE LAST INSPECTION: 03/27/24**		
SITE NAME: Pecoco Reservoir		**LOCATION: SW¼ NW¼, Sec. 2, T5N, R87W**		
MINE NAME: Peabody Sage Creek Mine		**LOCATION: 7.1 mi. SE of Hayden, CO**		
MINE I.D. NO.: CMLRD Permit No. C-2009-087		**OWNER'S REP.: Miranda Kawcak**		
	CIRCLE OR WRITE IN APPROPRIATE RESPONSE:	**YES**	**NO**	**N/A**
1	Foundation preparation (removal of vegetation, stumps, topsoil:	x		
2	Lift thickness: **N/A**			
3	Compaction according to approved plan:	x		
4	Burning (specify extent and location):		x	
5	Angle of slope: **5:1** upstream, **2:1** downstream	**Total = 7:1**		
6	*Seepage (specify location, color, and approximate volume)			
	From underdrain pipes			x
	At isolated points on embanckement slopes		x	
	At natural hillside:		x	
	Over widespread areas:		x	
	From downstream foundation area:		x	
	"Boils" beneath stream or ponded water:		x	
7	Cracks or scarps on crest:		x	
8	Cracks or scarps on slope:		x	
9	Sloughing or bulging on slope:		x	
10	*Major erosion problems:		x	
11	Surface movements in valley bottom or on hillside:		x	
12	*Erosion of toe:		x	
13	*Water impounded against toe:		x	
14	Existing embankment freeboard (6.1 is normal): **6.0 FT**			
15	___ *Increase* _____ *Decrease in water level:* **0.1 FT ABOVE SPILLWAY**			
16	Cracks, bulging, or erosion on upstream face:		x	
17	Visible sumps or sinkholes in slurry surface:			x
18	*Clogging			
	Spillway channels and pipes:		x	
	Decant system:			x
	Diversion ditches:			x
19	*Cracking or crushing of pipes			
	Spillway pipes:		x	
	Decant system:			x
20	Trash racks clear and in place:			x
21	Discharge rate: **102.6 GPM**			

**Major adverse changes in these items could cause instability and should be reported to the Engineering Manager and Mine Superintendent for further evaluation. Adverse conditions noted in these items should normally be described (extextent, location, volume, etc.) here:*

PERIODIC INSPECTION FORM: Water, Sediment, or Slurry Impoundments				
INSPECTOR'S NAME: Jason Herden		**DATE: 06/11/24**		
NPDES I.D. NO.: N/A				
FACILITY CONFIGURATION: Diked Pond		**DATE LAST INSPECTION: 03/27/24**		
SITE NAME: Lower Sump		**LOCATION: SE¼, Sec. 34, T6N, R87W**		
MINE NAME: Peabody Sage Creek Mine		**LOCATION: 7.1 mi. SE of Hayden, CO**		
MINE I.D. NO.: CMLRD Permit No. C-2009-087		**OWNER'S REP.: Miranda Kawcak**		
	CIRCLE OR WRITE IN APPROPRIATE RESPONSE:	**YES**	**NO**	**N/A**
1	Foundation preparation (removal of vegetation, stumps, topsoil:	x		
2	Lift thickness =			
3	Compaction according to approved plan:	x		
4	Burning (specify extent and location):		x	
5	Angle of slope:___upstream, ____downstream		N/A	
6	*Seepage (specify location, color, and approximate volume)			
	From underdrain pipes			x
	At isolated points on embanckement slopes		x	
	At natural hillside:		x	
	Over widespread areas:		x	
	From downstream foundation area:		x	
	"Boils" beneath stream or ponded water:		x	
7	Cracks or scarps on crest:		x	
8	Cracks or scarps on slope:		x	
9	Sloughing or bulging on slope:		x	
10	*Major erosion problems:		x	
11	Surface movements in valley bottom or on hillside:		x	
12	*Erosion of toe:		x	
13	*Water impounded against toe:		x	
14	Existing embankment freeboard: **0 FT**			
15	____ *Increase* _____ *Decrease in water level:* **0.1 FT ABOVE SPILLWAY**			
16	Cracks, bulging, or erosion on upstream face:		x	
17	Visible sumps or sinkholes in slurry surface:			x
18	*Clogging			
	Spillway channels and pipes:		x	
	Decant system:			x
	Diversion ditches:		x	
19	*Cracking or crushing of pipes			
	Spillway pipes:			x
	Decant system:			x
20	Trash racks clear and in place:	x		
21	Discharge rate: **96.7 GPM**			

**Major adverse changes in these items could cause instability and should be reported to the Engineering Manager and Mine Superintendent for further evaluation. Adverse conditions noted in these items should normally be described (extextent, location, volume, etc.) here:*

PERIODIC INSPECTION FORM: Water, Sediment, or Slurry Impoundments				
INSPECTOR'S NAME: Jason Herden		DATE: 06/11/24		
NPDES I.D. NO.: N/A				
FACILITY CONFIGURATION: Incised Pond		DATE LAST INSPECTION: 03/27/24		
SITE NAME: Truck Wash Settling Pond		LOCATION: NW¼ NE¼, Sec. 34, T6N, R87W		
MINE NAME: Peabody Sage Creek Mine		LOCATION: 7.1 mi. SE of Hayden, CO		
MINE I.D. NO.: CMLRD Permit No. C-2009-087		OWNER'S REP.: Miranda Kawcak		

	CIRCLE OR WRITE IN APPROPRIATE RESPONSE:	YES	NO	N/A
1	Foundation preparation (removal of vegetation, stumps, topsoil:	x		
2	Lift thickness: **N/A**			
3	Compaction according to approved plan:			x
4	Burning (specify extent and location):			x
5	Angle of slope:___upstream, ____downstream		N/A	
6	*Seepage (specify location, color, and approximate volume)			
	From underdrain pipes			x
	At isolated points on embanckement slopes			x
	At natural hillside:			x
	Over widespread areas:			x
	From downstream foundation area:			x
	"Boils" beneath stream or ponded water:		x	
7	Cracks or scarps on crest:			x
8	Cracks or scarps on slope:			x
9	Sloughing or bulging on slope:			x
10	*Major erosion problems:		x	
11	Surface movements in valley bottom or on hillside:			x
12	*Erosion of toe:			x
13	*Water impounded against toe:			x
14	Existing embankment freeboard (5.0 is normal when dry): **5 FT**			
15	____ *Increase* _____ *Decrease in water level:* **DRY**			
16	Cracks, bulging, or erosion on upstream face:			x
17	Visible sumps or sinkholes in slurry surface:			x
18	*Clogging			
	Spillway channels and pipes:		x	
	Decant system:			x
	Diversion ditches:			x
19	*Cracking or crushing of pipes			
	Spillway pipes:		x	
	Decant system:			x
20	Trash racks clear and in place:	x		
21	Discharge rate: **0 GPM**			

**Major adverse changes in these items could cause instability and should be reported to the Engineering Manager and Mine Superintendent for further evaluation. Adverse conditions noted in these items should normally be described (extextent, location, volume, etc.) here:*

PERIODIC INSPECTION FORM: Water, Sediment, or Slurry Impoundments				
INSPECTOR'S NAME: Jason Herden		DATE: 06/11/24		
NPDES I.D. NO.: N/A				
FACILITY CONFIGURATION: Diked Pond		DATE LAST INSPECTION: 03/27/24		
SITE NAME: Upper Sump		LOCATION: NW¼, Sec. 3, T5N, R87W7W		
MINE NAME: Peabody Sage Creek Mine		LOCATION: 7.1 mi. SE of Hayden, CO		
MINE I.D. NO.: CMLRD Permit No. C-2009-087		OWNER'S REP.: Miranda Kawcak		

	CIRCLE OR WRITE IN APPROPRIATE RESPONSE:	YES	NO	N/A
1	Foundation preparation (removal of vegetation, stumps, topsoil:	x		
2	Lift thickness:			
3	Compaction according to approved plan:	x		
4	Burning (specify extent and location):		x	
5	Angle of slope:___upstream, ____downstream		N/A	
6	*Seepage (specify location, color, and approximate volume)			
	From underdrain pipes			x
	At isolated points on embanckement slopes		x	
	At natural hillside:		x	
	Over widespread areas:		x	
	From downstream foundation area:	x		
	"Boils" beneath stream or ponded water:		x	
7	Cracks or scarps on crest:		x	
8	Cracks or scarps on slope:		x	
9	Sloughing or bulging on slope:		x	
10	*Major erosion problems:		x	
11	Surface movements in valley bottom or on hillside:		x	
12	*Erosion of toe:		x	
13	*Water impounded against toe:		x	
14	Existing embankment freeboard: **0 FT**			
15	____ *Increase* _____ *Decrease in water level:* **0.1 FT ABOVE SPILLWAY**			
16	Cracks, bulging, or erosion on upstream face:		x	
17	Visible sumps or sinkholes in slurry surface:			x
18	*Clogging			
	Spillway channels and pipes:		x	
	Decant system:			x
	Diversion ditches:			x
19	*Cracking or crushing of pipes			
	Spillway pipes:		x	
	Decant system:			x
20	Trash racks clear and in place:	x		
21	Discharge rate: **104.4 GPM**			

**Major adverse changes in these items could cause instability and should be reported to the Engineering Manager and Mine Superintendent for further evaluation. Adverse conditions noted in these items should normally be described (extextent, location, volume, etc.) here:*

PERIODIC INSPECTION FORM: Water, Sediment, or Slurry Impoundments				
INSPECTOR'S NAME: Jason Herden		DATE: 06/11/24		
NPDES I.D. NO.: N/A				
FACILITY CONFIGURATION: Diked Pond		DATE LAST INSPECTION: 03/27/24		
SITE NAME: Portal Sump #1 (Upper North)		LOCATION: NW¼, Sec. 3, T5N, R87W		
MINE NAME: Peabody Sage Creek Mine		LOCATION: 7.1 mi. SE of Hayden, CO		
MINE I.D. NO.: CMLRD Permit No. C-2009-087		OWNER'S REP.: Miranda Kawcak		

	CIRCLE OR WRITE IN APPROPRIATE RESPONSE:	YES	NO	N/A
1	Foundation preparation (removal of vegetation, stumps, topsoil:	x		
2	Lift thickness = **12 IN**			
3	Compaction according to approved plan:	x		
4	Burning (specify extent and location):		x	
5	Angle of slope:___upstream, ____downstream		N/A	
6	*Seepage (specify location, color, and approximate volume)			
	From underdrain pipes			x
	At isolated points on embanckement slopes			x
	At natural hillside:			x
	Over widespread areas:			x
	From downstream foundation area:			x
	"Boils" beneath stream or ponded water:		x	
7	Cracks or scarps on crest:			x
8	Cracks or scarps on slope:			x
9	Sloughing or bulging on slope:			x
10	*Major erosion problems:		x	
11	Surface movements in valley bottom or on hillside:		x	
12	*Erosion of toe:			x
13	*Water impounded against toe:			x
14	Existing embankment freeboard:			
15	____ *Increase* _____ *Decrease in water level:* **1.3 FT BELOW SPILLWAY**			
16	Cracks, bulging, or erosion on upstream face:			x
17	Visible sumps or sinkholes in slurry surface:			x
18	*Clogging			
	Spillway channels and pipes:		x	
	Decant system:			x
	Diversion ditches:			x
19	*Cracking or crushing of pipes			
	Spillway pipes:		x	
	Decant system:			x
20	Trash racks clear and in place:			x
21	Discharge rate: **0 GPM**			

**Major adverse changes in these items could cause instability and should be reported to the Engineering Manager and Mine Superintendent for further evaluation. Adverse conditions noted in these items should normally be described (extextent, location, volume, etc.) here:*

PERIODIC INSPECTION FORM: Water, Sediment, or Slurry Impoundments				
INSPECTOR'S NAME: Jason Herden		DATE: 06/11/24		
NPDES I.D. NO.: N/A				
FACILITY CONFIGURATION: Diked Pond		DATE LAST INSPECTION: 03/27/24		
SITE NAME: Portal Sump #2 (Lower South)		LOCATION: NW¼, Sec. 3, T5N, R87W		
MINE NAME: Peabody Sage Creek Mine		LOCATION: 7.1 mi. SE of Hayden, CO		
MINE I.D. NO.: CMLRD Permit No. C-2009-087		OWNER'S REP.: Miranda Kawcak		
	CIRCLE OR WRITE IN APPROPRIATE RESPONSE:	YES	NO	N/A
1	Foundation preparation (removal of vegetation, stumps, topsoil:	x		
2	Lift thickness: **12 IN**			
3	Compaction according to approved plan:	x		
4	Burning (specify extent and location):		x	
5	Angle of slope:___upstream, ____downstream		N/A	
6	*Seepage (specify location, color, and approximate volume)			
	From underdrain pipes			x
	At isolated points on embanckement slopes			x
	At natural hillside:			x
	Over widespread areas:			x
	From downstream foundation area:			x
	"Boils" beneath stream or ponded water:		x	
7	Cracks or scarps on crest:			x
8	Cracks or scarps on slope:			x
9	Sloughing or bulging on slope:			x
10	*Major erosion problems:		x	
11	Surface movements in valley bottom or on hillside:		x	
12	*Erosion of toe:			x
13	*Water impounded against toe:			x
14	Existing embankment freeboard:			
15	____ *Increase* _____ *Decrease in water level:* **0.1 FT ABOVE SPILLWAY**			
16	Cracks, bulging, or erosion on upstream face:			x
17	Visible sumps or sinkholes in slurry surface:			x
18	*Clogging			
	Spillway channels and pipes:		x	
	Decant system:			x
	Diversion ditches:			x
19	*Cracking or crushing of pipes			
	Spillway pipes:		x	
	Decant system:			x
20	Trash racks clear and in place:			x
21	Discharge rate: **0 GPM**			

Major adverse changes in these items could cause instability and should be reported to the Engineering Manager and Mine Superintendent for further evaluation. Adverse conditions noted in these items should normally be described (extextent, location, volume, etc.) here:* **NOT PUMPING.

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	6-10-24	0.4	246.7	some water under flume	Y
003	Sage Creek	Sage Creek	6-10-24	0.1	1.6	some animal burrows	N
Lower Sump	Sage Creek	Sage Creek	6-11-24	0.1	96.7		N
Pecoco	Sage Creek	Sage Creek	6-11-24	0.1	107.6		N
Portal Sump 1	Sage Creek	Sage Creek	6-11-24	—	—	NO Flow	N
Portal Sump 2	Sage Creek	Sage Creek	6-11-24	0.1	—	not pumping	N
Spill Control 2	Sage Creek	Sage Creek	6-11-24	—	—	no flow	N
Truck Wash	Sage Creek	Sage Creek	6-11-24	—	—	Dry	N
Upper Sump	Sage Creek	Sage Creek	6-11-24	0.1	104.4		N
006	Seneca	Seneca II West	6-10-24	0.1	179.97	sluff on S. side, no issues	N
015	Seneca	Seneca II West	6-10-24	0.1	44.3		N
016	Seneca	Seneca II West	6-10-24	0.1	138.6		N
017	Seneca	Seneca II West	6-10-24	0.1	58.6		N
T-2	Seneca	Seneca II West	6-11-24	—	—	Dry	N
T-3	Seneca	Seneca II West	6-11-24	-2.8	—	NO Flow	N
010	Seneca	Yoast	6-10-24	0.05	8.7	outlet install	Y
011	Seneca	Yoast	6-11-24	-0.9	—	NO Flow	N
011A	Seneca	Yoast	6-13-24	-1.4	—	NO Flow	N
012	Seneca	Yoast	6-10-24	0.1	107.6		N
012A	Seneca	Yoast	6-13-24	-1.0	—	NO Flow	N
013	Seneca	Yoast	6-10-24	-0.5	—	NO Flow	N
014	Seneca	Yoast	6-10-24	-0.9	—	NO Flow	N

FIELD PERSONNEL: JH	FIELD PERSONNEL SIGNATURE:

NOTES