

TRI-STATE GENERATION AND TRANSMISSION ASSOCIATION, INC.

P.O. BOX 33695 DENVER, COLORADO 80233-0695 303-452-6111

December 10, 2020

Mrs. Janet Binns Environmental Protection Specialist Colorado Division of Reclamation, Mining and Safety 1313 Sherman Street, Room 215 Denver, CO 80203

RE: New Horizon Mine Permit No. C-1981-008 2020 Annual Impoundment Inspections

Dear Mrs. Binns:

Elk Ridge Mining and Reclamation, LLC (Elk Ridge) operates the New Horizon Mine. Tri-State Generation and Transmission Association, Inc. (Tri-State) is the parent company of Elk Ridge. The New Horizon Mine operates under Colorado Division of Reclamation, Mining and Safety (CDRMS) Permit No. C-1981-008.

In accordance with Rule 4.05.9(17), Tri-State is submitting the enclosed annual impoundment inspections on behalf of Elk Ridge.

If you have any questions about the enclosed quarterly impoundment reports, please contact Tony Tennyson at (970) 825-1232 at your convenience.

Sincerely,

-DocuSianed by: Daniel Lasiraro B70D69E114324DE

Dan Casiraro Senior Manager Environmental Services

DJC:TT:der

Enclosures

cc: Frank Ferris (via email) Chris Gilbreath (via email) Tony Tennyson (via email) G474-11.3(21)b-9

AN EQUAL OPPORTUNITY / AFFIRMATIVE ACTION EMPLOYER



CRAIG STATION P.O. BOX 1307 CRAIG, CO 81626-1307 970-824-4411 ESCALANTE STATION P.O. BOX 577 PREWITT, NM 87045 505-972-5200 NUCLA STATION P.O. BOX 698 NUCLA, CO 81424-0698 970-864-7316

Mine: New Horizon 2 Mine Pond Name: Pond 012 NPDES Permit & Outfall #s: CO-0000213 Date Inspected: 14-October-2020 Location Description: 2 miles NW of Nucla Owner's Rep.: Frank Ferris, Mine Manager Pond Type: Partly Incised CDRM & S #: C-1981-008 Date Last Inspected: 15-October-2019 Legal Location: Sec 36 of T47N R16W Inspector's Name: Frank Ferris

Pond Capacity Data

As Built Pond Embankment elev.: **5608.5** As Built Pond Emergency Spillway elev.: **NA** As Built Pond Capacity (pond bottom to primary spillway) per As Built **4.9 ac-ft** Existing Pond Capacity (pond bottom to primary spillway): As Built Volume - SV = **4.75 ac-ft** Sediment Volume (SV) unchanged: **3 areas =~0.15 ac-ft** Surface Water elev. **5596.5** - As Built Pond Bottom elev. **5596.5** = Water Depth **0 ft** Water Volume (WV) in Pond **0 ac-ft** (using as built capacity table & surface water elevation, and then subtracting sediment volume under water level) Pond Capacity Available below primary spillway **4.75 ac-ft** [As Built Pond Capacity – WV Inflow volume from 10-yr 24-hr storm runoff event **3.41 ac-ft**

Circle or Write appropriate Response

1.	Seepa	ge (specify location, color, and approx. volume)	Yes	2	N/A
2.	Cracks	s or scarps on crest or slopes	Yes	×	N/A
3.	Sloug	ning or bulging on slopes	_ Yes	X	N/A
4.	Major	erosion problems	Yes	136	N/A
5.	Surfac	e movements in valley bottom or on hillside	Yes	P.A.	N/A
6.	Water	impounded against toe	_ Yes	20	N/A
7.	Cloggi	ng			
	a)	Spillway channels and pipes	Yes	X	N/A
	b)	Decant system	_ Yes	150	N/A
	c)	Diversion Ditches	Yes	N	N/A
8.	Cracki	ng or crushing of pipes		24	
	a)	Spillway pipes	_ Yes	N	N/A
	b)	Decant system	Yes	N	N/A
9.	Trash racks clear and in place		YX	No	N/A
10.	Monitoring instrumentation		Yes	No	D,A

Comments: Sediment accumulation in 3 areas was = 0.18 ac-ft. 2020 -- 50 cu-yd of sediment was removed from NW corner =~.03 ac-ft. Thus, sediment accumulation is 0.18 – 0.03 = 0.15 ac-ft

Mine: New Ho	rizon 2 Mine				
Pond Name:	Pond 013				
NPDES Permit & Outfall #s: CO-0000213					
Date Inspected:	14-October-2020				
Location Descrip	tion: 2 miles West of Nucla				

Owner's Rep.: Frank Ferris, Mine Manager Pond Type: Partly Incised CDRM & S #: C-1981-008 Date Last Inspected: 15-October-2019 Legal Location: Sec 36 of T47N R16W Inspector's Name: Frank Ferris

Pond Capacity Data

As Built Pond Embankment elev.: **5560.4** As Built Pond Emergency Spillway elev.: **5557.0** As Built Pond Capacity (pond bottom to primary spillway) per As Built **6.14 ac-ft** Existing Pond Capacity (pond bottom to primary spillway): As Built Volume - SV = **6.14 ac-ft** Sediment Volume (SV) at Inspection: **no change since as-built** Surface Water elev. **5553.3** As Built Pond Bottom elev. **5548.0** = Water Depth **5.3 feet** Water Volume (WV) in Pond **3.9 ac-ft** (using as built capacity table & surface water elevation; and the subtracting sediment volume under water level) Pond Capacity Available below primary spillway **2.24 ac-ft** [As Built Pond Capacity – W **3**V] Inflow volume from 10-yr 24-hr storm runoff event **2.7 ac-ft**

Circle or Write appropriate Response

1.	Seepa	ge (specify location, color, and approx. volume)	Yes	NO	N/A
2.	Crack	s or scarps on crest or slopes	Yes	×	N/A
3.	Sloug	hing or bulging on slopes	Yes	NX	N/A
4.	Major	erosion problems	Yes	X	N/A
5.	Surfac	e movements in valley bottom or on hillside	Yes	NY	N/A
6.	Water	impounded against toe	Yes	X	N/A
7.	Cloggi	ing			
	a)	Spillway channels and pipes	Yes	No	N/A
	b)	Decant system	Yes	N.C-	N/A
	c)	Diversion Ditches	Yes	X	N/A
8.	Cracki	ng or crushing of pipes		1.0	
	a)	Spillway pipes	_ Yes	NO	N/A
	b)	Decant system	Yes	Pro	N/A
9.	Trash	racks clear and in place	Xs	No	N/A
10.	Monit	oring instrumentation Flume in place & functioning	YX	No	N/A

Comments: About a foot of soil was added to the settled embankment over the emergency spillway culverts.

Mine: New Horizon 2 Mine Pond Name: Pond 015 NPDES Permit & Outfall #s: CO-0000213 Date Inspected: 14-October-2020 Location Description: ~2 miles West of Nucla

Owner's Rep.: Frank Ferris, Mine Manager Pond Type: Partly Incised CDRM & S #: C-1981-008 Date Last Inspected: 15-October-2019 Legal Location: Sec 36 of T47N R16W Inspector's Name: Frank Ferris

Pond Capacity Data

As Built Pond Embankment elev.: **5671.0** Surveyed Pond Bottom elev.: **5560.7** As Built Pond Emergency Spillway elev.: **NA** As Built Pond Primary Spillway elev.: **NA** As Built Pond Capacity (pond bottom to top of embankment) per As Built **0.94 ac-ft** Existing Pond Capacity (pond bottom to top of embankment): As Built Volume - SV = **0.94 ac-ft** Existing Pond Capacity (pond bottom to top of embankment): As Built Volume - SV = **0.94 ac-ft** Sediment Volume (SV) at Inspection: length _____ ft X width _____ ft X depth _____ ft = **IA** actft ______ 10 20 Surface Water elev. **Dry** - As Built Pond Bottom elev. **5660.0** = Water Depth **NA** Water Volume (WV) in Pond **Dry** (using as built capacity table & surface water elevation subtracting sediment volume under water level) Pond Capacity Available **0.94 ac-ft** [As Built Pond Capacity – WV – SV] Inflow volume from 100-yr 24-hr storm runoff event **0.508 ac-ft** *Since the sediment volume between elevations 5560.0 to 5560.7 is less than .005 ac-ft, the volume*

does not show in the calculations. No significant sediment volume was added to Pond 015 in 2020.

Circle or	Write	appropriate	Response
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0	••••••				
1.	Seep	age (specify location, color, and approx. volume)	Yes		N/A
2.	Crack	s or scarps on crest or slopes	Yes	X	N/A
3.	Sloug	hing or bulging on slopes	Yes	N	N/A
4.	Majo	r erosion problems	Yes	X 6	N/A
5.	Surfa	ce movements in valley bottom or on hillside	Yes	X	N/A
6.	Wate	r impounded against toe	Yes	No	N/A
7.	Clogg	ing			
	a)	Spillway channels and pipes	Yes	No	MA
	b)	Decant system	Yes	No	M A
	c)	Diversion Ditches	Yes	X	N/A
8.	Crack	ing or crushing of pipes		1.7	
	a)	Spillway pipes	Yes	No	N A
	b)	Decant system	Yes	No	MA
9.	Trash	racks clear and in place	Yes	No	N,A
10.	Moni	toring instrumentation	Yes	No	N A

Comments: The pond elevations indicate less than .005 ac-ft of sediment accumulation.

Mine: New Horizon 2 Mine Pond Name: Pond 016 NPDES Permit & Outfall #s: CO-0000213 Date Inspected: 14-October-2020 Location Description: ~2 miles West of Nucla Owner's Rep.: Frank Ferris, Mine Manager Pond Type: Partly Incised CDRM & S #: C-1981-008 Date Last Inspected: 15-October-2019 Legal Location: Sec 36 of T47N R16W Inspector's Name: Frank Ferris

Pond Capacity Data

As Built Pond Embankment elev.: **5620.5** As Built Pond Emergency Spillway elev.: **5618.5** As Built Pond Capacity (pond bottom to emergency spillway) per As Built **7.5 ac-ft** Existing Pond Capacity (pond bottom to emergency spillway): As Built Volume - SV = **7.5 ac-ft** ^{note} Sediment Volume (SV) at Inspection: length _____ ft X width _____ ft X depth _____ ft = **NA ac-ft** Surface Water elev. **Dry** - As Built Pond Bottom elev. **5611.0** = Water Depth **NA** Water Volume (WV) in Pond **Dry** (using as built capacity table & surface water elevation and then ^K subtracting sediment volume under water level) Pond Capacity Available **7.5 ac-ft** [As Built Pond Capacity – WV – SV] Inflow volume from 100-yr 24-hr storm runoff event **5.33 ac-ft**

Note: Sediment volume about equal to settling.

Circle or Write appropriate Response

1.	Seepa	ge (specify location, color, and approx. volume)	Yes	X	N/A
2.	Crack	s or scarps on crest or slopes	Yes	×	N/A
3.	Sloug	ning or bulging on slopes	Yes	NX	N/A
4.	Major	erosion problems	Yes	X	N/A
5.	Surfac	e movements in valley bottom or on hillside	Yes	N	N/A
6.	Wate	impounded against toe	_ Yes	×	N/A
7.	Cloggi	ng		27	
	a)	Spillway channels and pipes	Yes		N/A
	b)	Decant system	Yes	No	NA
	c)	Diversion Ditches	Yes	N	N/A
8.	Cracki	ng or crushing of pipes		17	
	a)	Spillway pipes	Yes	No	NA
	b)	Decant system	Yes	No	NA
9.	Trash	Trash racks clear and in place		No	NA
10.	Monitoring instrumentation		Yes	No	NA

Comments: The pond floor settling is offset by the sediment accumulation at the southeast entrance.

Mine: New Horizon 2 Mine Pond Name: Pond 018 NPDES Permit & Outfall #s: CO-0000213 Date Inspected: 14-October-2020 Location Description: ~¼ mile West of Nucla Owner's Rep.: Frank Ferris, Mine Manager Pond Type: Partly Incised CDRM & S #: C-1981-008 Date Last Inspected: 15-October-2019 Legal Location: Sec 6 of T46N R15W Inspector's Name: Frank Ferris

Pond Capacity Data

As Built Pond Embankment elev.: **5682.0** As Built Pond Emergency Spillway elev.: **5678.0** As Built Pond Capacity (pond bottom to emergency spillway) per As Built **4.03 ac-ft** Existing Pond Capacity (pond bottom to emergency spillway): As Built Volume - SV = **4.03 ac-ft** Sediment Volume (SV) at Inspection: length ____ ft X width ____ ft X depth ____ ft = **NA action** Surface Water elev. **Dry** - As Built Pond Bottom elev. **5670.0** = Water Depth **Dry ft** Water Volume (WV) in Pond **0 ac-ft** (using as built capacity table & surface water elevation, and then subtracting sediment volume under water level) Pond Capacity Available **4.03 ac-ft** [As Built Pond Capacity – WV – SV] Inflow volume from 100-yr 24-hr storm runoff event **2.25 ac-ft**

Circle or Write appropriate Response

1.	Seepa	ge (specify location, color, and approx. volume)	_ Yes	X	N/A
2.	Crack	s or scarps on crest or slopes	Yes	D.C.	N/A
3.	Sloug	ning or bulging on slopes	_ Yes	X	N/A
4.	Major	erosion problems	Yes	NJ	N/A
5.	Surfac	e movements in valley bottom or on hillside	_ Yes	No.	N/A
6.	Water	impounded against toe	Yes	20	N/A
7.	Clogging			11	
	a)	Spillway channels and pipes	Yes	X	N/A
	b)	Decant system	_ Yes	No	N/A
	c)	Diversion Ditches	_ Yes	×	N/A
8.	Cracki	ng or crushing of pipes		10	
	a)	Spillway pipes	Yes	No	N/A
	b)	Decant system	_ Yes	No	N./.A
9.	Trash racks clear and in place		Yes	No	N, A
10.	Monitoring instrumentation		Yes	No	NA

Comments: Dry, salt cedar and Russian olive removed and sprayed

Pond N NPDES Date E	lame: Permit xamine	Horizon 2 Mine Goforth Stock Pond & Outfall #s: CO-0000213 d: 14-October-2020 ription: 0.2 miles West of Nucla	Owner's Rep.: Fr Pond Type: CDRM & S #: Date Last Examin Legal Location: Inspector's Nam	Cross valle C-1981-003 ned: 25-No Sec 6 of T4	y 3 ovember 6N 415	RADO LICOLD
Circle o		appropriate Response				MUNICIPAL ENGLAND
1.		(specify location, color, and approx. volume			₩ ð	N/A
2.	Cracks o	r scarps on crest or slopes		Yes	20	N/A
3.	Sloughir	ng or bulging on slopes		Yes	X	N/A
4.	Major e	rosion problems		Yes	2	N/A
5.	Surface	movements in valley bottom or on hillside		Yes	N	N/A
6.	Water in	npounded against toe		Yes	X	N/A
7.	Clogging	l l				
	a)	Spillway channels and pipes		Yes	X	N/A
	b)	Decant system		Yes	Ň	N/A
	c)	Diversion Ditches		Yes	No	NA
8.	Cracking	or crushing of pipes				
	a)	Spillway pipes		Yes	X	N/A
	b)	Decant system			X	N/A
9.	,	cks clear and in place			No	NA
10.	wonitor	ing instrumentation		Yes	No	XA

Comments: Water is following through the metal pipe spillway

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Mine: New Horizon 2 Mine Pond Name: Stock Pond SP2 NPDES Permit & Outfall #s: CO-0000213 Date Inspected: 14-October-2020 Location Description: 2 miles NW of Nucla Owner's Rep.: Frank Ferris, Mine Manager Pond Type: Partly Incised CDRM & S #: C-1981-008 Date Last Examined: 17-September-2020 Legal Location: Sec 36 of T47N R16W Inspector's Name: Frank Ferris

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Circle or Write appropriate Response

1.	Seepa	Seepage (specify location, color, and approx. volume)			N/A
2.	Crack	Cracks or scarps on crest or slopes			N/A
3.	Sloug	hing or bulging on slopes	_ Yes	26	N/A
4.	Majo	r erosion problems	Yes	56	N/A
5.	Surfa	ce movements in valley bottom or on hillside	Yes	26	N/A
6.	Wate	r impounded against toe	Yes	2	N/A
7.	Clogg	ing			
	a)	Spillway channels and pipes	Yes	X	N/A
	b)	Decant system	_ Yes	No	NA
	c)	Diversion Ditches	Yes	No	NA
8.	Crack	ing or crushing of pipes			
	a)	Spillway pipes	Yes	No	XA
	b)	Decant system	_ Yes	No	XA
9.	Trash	racks clear and in place	Yes	No	
10.	Monit	oring instrumentation	Yes	No	NA
Comments: Pond bottom is dry.		Pond bottom is dry.			
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