TRI-STATE GENERATION AND TRANSMISSION ASSOCIATION, INC.

HEADQUARTERS:

P.O. BOX 33695

DENVER, COLORADO 80233-0695

303-452-6111

December 19, 2018

Sent via email: brock.bowles@state.co.us

Mr. Brock Bowles 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

4th Quarter 2018 Impoundment Inspections

Dear Mr. Bowles:

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 quarterly 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,

Dan Casiraro Senior Manager

Environmental Services

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Enclosures

cc:

Frank Ferris (via email)

Chris Gilbreath (via email) Tony Tennyson (via email) Jason Storey (via email) G474-11.3(21)b-9

2018 ANNUAL IMPOUNDMENT INSPECTION

Mine: New Horizon 2 Mine Owner's Rep.: Frank Ferris, Mine Manager
Pond Name: Pond 009 Pond Type: Partly Incised

Pond Name: Pond 009 Pond Type: Partly Incised NPDES Permit & Outfall #s: CO-0000213 CDRM & S #: C-1981-008

Date Inspected: 1-October-2018 Date Last Inspected: 25-October-2017
Location Description: 2 miles NW of Nucla
Legal Location: Sec 36 of T47N R16W

Inspector's Name: Frank Ferris

Pond Capacity Data

As Built Pond Embankment elev.: 5649.25 As Built Pond Bottom elev.: 5639.7

As Built Pond Emergency Spillway elev.: NA As Built Pond Primary Spillway elev.: 5647.2

As Built Pond Capacity (pond bottom to primary spillway) per As Built 4.7 ac-ft

Existing Pond Capacity (pond bottom to primary spillway): As Built Volume - SV = 4.67 ac-ft

Sediment Volume (SV) unchanged: length 90 ft X width 50 ft X depth 0.3 ft = .03 ac-ft

Surface Water elev. dry - As Built Pond Bottom elev. 5639.7 = Water Depth dry

Water Volume (WV) in Pond dry (using as built capacity table & surface water elevation, a

subtracting sediment volume under water level)

Pond Capacity Available below primary spillway 4.67 ac-ft [As Built Pond Capacity – WV – Inflow volume from 10-yr 24-hr storm runoff event 1.65 ac-ft

Circle or Write appropriate Response

1.	Seep	Seepage (specify location, color, and approx. volume)		r.e	N/A	
2.	Cracl	Cracks or scarps on crest or slopes		DA	N/A	
3.	Sloughing or bulging on slopes		Yes	×	N/A	
4.	Major erosion problems		Yes	×	N/A	
5.	Surface movements in valley bottom or on hillside		Yes	X ₀	N/A	
6.	Water impounded against toe		Yes	o K	N/A	
7.	Clogging					
	a)	Spillway channels and pipes	Yes	N	N/A	
	b)	Decant system	Yes	N	N/A	
	c)	Diversion Ditches	Yes	N.	N/A	
8.	Cracking or crushing of pipes					
	a)	Spillway pipes	Yes	N	N/A	
	b)	Decant system	Yes	N	N/A	
9.	Trash	racks clear and in place)\ s	No	N/A	
10.	Monitoring instrumentation		Yes	No	NA	

Comments: Minor sediment accumulation (90 ft L, 50 ft W, & 0.3 ft deep) = 0.03 ac-ft, unchanged since 2015

2018 ANNUAL IMPOUNDMENT INSPECTION

Mine: New Horizon 2 Mine Owner's Rep.: Frank Ferris, Mine Manager

Pond Name: Pond 012 Pond Type: Partly Incised NPDES Permit & Outfall #s: CO-0000213 CDRM & S #: C-1981-008

Date Inspected: 12-December-2018 Date Last Inspected: 25-October-2017
Location Description: 2 miles NW of Nucla 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 Bottom elev.: 5596.5

As Built Pond Emergency Spillway elev.: NA As Built Pond Primary Spillway elev.: 5606.5

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 = 4.72 ac-ft

Sediment Volume (SV) unchanged: 3 areas =~0.18 ac-ft

Surface Water elev. 5599.7 - As Built Pond Bottom elev. 5596.5 = Water Depth 3.2 ft

Water Volume (WV) in Pond 0.68 ac-ft (using as built capacity table & surface water elevat

subtracting sediment volume under water level)

Pond Capacity Available below primary spillway 4.04 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.	Seepage (specify location, color, and approx. volume)		Yes	*	N/A
2.	Cracks or scarps on crest or slopes		Yes	×	N/A
3.	Sloughing or bulging on slopes		Yes	X	N/A
4.	Major erosion problems		Yes	X	N/A
5.	Surface movements in valley bottom or on hillside		Yes		N/A
6.	Water impounded against toe		Yes	X	N/A
7.	Clogging				
	a)	Spillway channels and pipes	Yes		N/A
	b)	Decant system	Yes	×	N/A
	c)	Diversion Ditches	Yes	N	N/A
8.	Cracking or crushing of pipes				
	a)	Spillway pipes	Yes	N	N/A
	b)	Decant system	Yes	×	N/A
9.	Trash racks clear and in place		💥	No	N/A
10.	Monitoring instrumentation		Yes	No	A

Comments: Sediment accumulation in 3 areas = 0.18 ac-ft. No significant sediment change since 2015

2018 ANNUAL IMPOUNDMENT INSPECTION

Mine: New Horizon 2 Mine Owner's Rep.: Frank Ferris, Mine Manager

Pond Name: Pond 013 Pond Type: Partly Incised NPDES Permit & Outfall #s: CO-0000213 CDRM & S #: C-1981-008

Date Inspected: 12-December-2018 Date Last Examined: 25-October-2017
Location Description: 2 miles West of Nucla 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 Bottom elev.: 5548.0

As Built Pond Emergency Spillway elev.: 5557.0 As Built Pond Primary Spillway elev.: 5555.0

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. **5552.4** As Built Pond Bottom elev. **5548.0** = Water Depth **4.4 feet** Water Volume (WV) in Pond **2.87 ac-ft** (using as built capacity table & surface water elevated).

subtracting sediment volume under water level)

Pond Capacity Available below primary spillway 3.27 ac-ft [As Built Pond Capacity – WV ~ Inflow volume from 10-yr 24-hr storm runoff event 2.7 ac-ft

Circle or Write appropriate Response

1.	Seep	age (specify location, color, and approx. volume)	Yes	No	N/A
2.	Crac	Cracks or scarps on crest or slopes		×	N/A
3.	Slou	Sloughing or bulging on slopes		N	N/A
4.	Majo	Major erosion problems		×	N/A
5.	Surfa	Surface movements in valley bottom or on hillside		NX	N/A
6.	Wate	Water impounded against toe		*	N/A
7.	Clogg	Clogging		4.7	
	a)	Spillway channels and pipes	Yes	NS	N/A
	b)	Decant system	Yes	No	N/A
	c)	Diversion Ditches	Yes	×	N/A
8.	Cracking or crushing of pipes			3.7	
	a)	Spillway pipes	Yes	No	N/A
	b)	Decant system	Yes	X	N/A
9.	Trash	racks clear and in place	X s	No	N/A
10.	Monitoring instrumentation Flume in place & functioning		Y	No	N/A

Comments: Revised data from as-built