



March 28, 2022

Mr. Zach Trujillo  
Environmental Protection Specialist  
Colorado Division of Reclamation, Mining & Safety  
Department of Natural Resources  
1313 Sherman Street, Room 215  
Denver, CO 80203

**RE: Colowyo Coal Mine**  
**Permit No. C-1981-019**  
**Valley Fill Monitoring Certifications**  
**First Quarter 2022**

Dear Mr. Trujillo:

Tri-State Generation and Transmission Association Inc. (Tri-State), is the parent company to Axial Basin Coal Company, which is the general partner to Colowyo Coal Company L.P. (Colowyo). Therefore, Tri-State on behalf of Colowyo is submitting the South Taylor Fill Construction Certifications for the first quarter of 2022.

If you should have any additional questions regarding the South Taylor Fill certifications, please feel free to contact Tony Tennyson at (970) 326-3560.

Sincerely,

DocuSigned by:  
A handwritten signature in blue ink that reads "Chris Gilbreath".  
D250C711D0BF450...

Chris Gilbreath  
Senior Manager  
Remediation and Reclamation

CG:TT:der

Enclosure

cc: Tony Tennyson (via email)  
Angela Aalbers (via email)  
File: CF 24.20.03  
G471-11.3(21)h-4

### **South Taylor Fill Inspection Certification**

On March 15, 2022, I inspected the South Taylor Fill areas, which includes the East Taylor Fill and the West Taylor Fill, identified on Map 23 and Map 45 of the approved permit. The purpose of this inspection was to observe the status of the fill placement. This inspection is necessary to satisfy the requirements of CDRMS Rule 4.09.1(1)(c) and Rule 4.09.1(11). Weather conditions at the time of inspection were approximately 40°F and sunny.

**West Taylor Fill with A-A' and B-B' Underdrain Area** The East Tributary of the West Taylor fill has rip-rap installed up to the 7840' elevation. The West Tributary of the West Taylor fill has rip-rap installed up to the 7820' elevation.

Six survey monuments were established and a baseline location survey on each one was performed on May 21<sup>st</sup> 2021. A first quarter comparison survey was performed on March 25<sup>th</sup> 2022. The survey showed no significant change from baseline. A table of the survey results are attached below.

The West Taylor Fill underdrain was flowing at the time of inspection.

No structural weakness, signs of instability, or other hazards were noted at the time of inspection.

**East Taylor Fill with C-C' Underdrain Area:** Reclamation activity including truck/excavator removal of material from the top of the fill area as well as dozer's cleaning various benches as the top surface is lowered has taken place within the East Taylor fill during this quarter.

No structural weakness, signs of instability, or other hazards were noted at the time of inspection.

Design requirements for the spoil pile are addressed in Volume 13, Exhibit 21, Item 1, Introductory Letter. Inspection requirements during construction are further detailed in Volume 12, Section 4.09.

I am a Registered Professional Engineer in the State of Colorado. Being familiar with the Colowyo operation, and relying on the information provided to me by Colowyo Personnel, the construction activities related to the West and East Taylor Fill are in conformance, to the best of my knowledge and experience, as specified in the Introductory pages and the associated report found in Volume 13, Exhibit 21, Item 1, and other applicable requirements of the approved permit documents, a portion of CDRMS Permit C-1981-019.



# West Taylor FILL - 7590 Mid MONUMENT

	DATE	ELEV.	NORTHING	EASTING	DeltaH
<b>BASELINE SURVEY</b>	<b>05/21/21</b>	<b>7591.73</b>	<b>337028.63</b>	<b>1344201.88</b>	
Difference	06/15/21	-0.007	-0.005	0.035	0.035
Difference	09/20/21	0.006	-0.002	-0.006	0.006
Difference	10/07/21	0.004	0.006	-0.012	0.013
Difference	03/25/22	0.005	0.006	0.017	0.018

# West Taylor FILL - 7670 East MONUMENT

	DATE	ELEV.	NORTHING	EASTING	DeltaH
<b>BASELINE SURVEY</b>	<b>05/21/21</b>	<b>7669.07</b>	<b>336769.27</b>	<b>1344339.66</b>	
Difference	06/15/21	-0.015	0.008	0.042	0.043
Difference	09/20/21	-0.009	0.011	-0.015	0.019
Difference	10/07/21	-0.003	0.022	-0.031	0.038
Difference	03/25/22	0.007	0.028	0.003	0.028

# West Taylor FILL - 7670 West MONUMENT

	DATE	ELEV.	NORTHING	EASTING	DeltaH
<b>BASELINE SURVEY</b>	<b>05/21/21</b>	<b>7671.33</b>	<b>336791.55</b>	<b>1344032.85</b>	
Difference	06/15/21	-0.014	-0.012	0.038	0.040
Difference	09/20/21	-0.005	-0.003	-0.002	0.004
Difference	10/07/21	-0.004	0.009	-0.012	0.015
Difference	03/25/22	0	0.013	0.018	0.022

# West Taylor FILL - 7730 Mid MONUMENT

	DATE	ELEV.	NORTHING	EASTING	DeltaH
<b>BASELINE SURVEY</b>	<b>05/21/21</b>	<b>7728.08</b>	<b>336570.24</b>	<b>1344181.69</b>	
Difference	06/15/21	-0.020	0.001	0.055	0.055
Difference	09/20/21	-0.040	0.007	-0.001	0.007
Difference	10/07/21	-0.036	0.023	-0.013	0.026
Difference	03/25/22	-0.063	0.027	0.047	0.054

## West Taylor FILL - 7800 EAST MONUMENT

	DATE	ELEV.	NORTHING	EASTING	DeltaH
<b>BASELINE SURVEY</b>	<b>05/21/21</b>	<b>7803.62</b>	<b>336294.60</b>	<b>1344496.79</b>	
Difference	06/15/21	-0.030	0.013	0.064	0.065
Difference	09/20/21	-0.059	0.005	-0.018	0.019
Difference	10/07/21	-0.046	0.023	-0.046	0.051
Difference	03/25/22	-0.062	0.044	-0.013	0.046

# West Taylor FILL - 7800 West MONUMENT

	DATE	ELEV.	NORTHING	EASTING	DeltaH
<b>BASELINE SURVEY</b>	<b>05/21/21</b>	<b>7803.60</b>	<b>336342.73</b>	<b>1343942.01</b>	
Difference	06/15/21	-0.020	-0.001	0.050	0.050
Difference	09/20/21	-0.031	0.018	-0.017	0.025
Difference	10/07/21	-0.019	0.038	-0.028	0.047
Difference	03/25/22	-0.032	0.035	0.042	0.055

**INSPECTION REPORT ~ SOUTH TAYLOR FILL**  
(Including Both the East Taylor and West Taylor Fill Segments)

INDICATE QUARTER → 1<sup>ST</sup> ☒ 2<sup>ND</sup> ☐ 3<sup>RD</sup> ☐ 4<sup>TH</sup> ☐ 2022  
YEAR

\* ALL QUARTERS NEED TO BE CERTIFIED \*

THE FOLLOWING ITEMS ARE TO BE INSPECTED AND REPORTED AS NOTED:

- 1) Has any significant change been noted in the survey monuments on the fill?  
No ☒ Yes ☐  
If yes, explain: \_\_\_\_\_  
Date of Survey: 3/25/22  
Reviewed By: Trevor Ragsdale
  
- 2) Has any significant change been noted in the water level found in the fill monitoring well?  
No NA Yes ☐ Measured Level NA If yes, explain: \_\_\_\_\_  
Date of Measurement: NA  
Measured By: NA
  
- 3) Has there been any evidence of surficial slope failure on the face of the fill?  
No ☒ Yes ☐  
If yes, explain: \_\_\_\_\_  
Date of P.E. Inspection: 3/15/22  
Inspected By: Trevor Ragsdale, Thomas Fry
  
- 4) Has there been any formation of springs or seeps on the face of the fill?  
No ☒ Yes ☐  
If yes, explain: \_\_\_\_\_  
Date of Inspection: 3/15/22  
Inspected By: Trevor Ragsdale, Thomas Fry



I am a Registered Professional Engineer in the State of Colorado. Being familiar with the Colowyo operation and relying on the information provided to me by Colowyo Personnel, the West and East Taylor Fill are observed to be stable, at the time of inspection. Construction activities related to the West and East Taylor Fill are in conformance, to the best of my knowledge and experience, as specified in the Introductory pages and the associated report found in Volume 13, Exhibit 21, Item 1, and other applicable requirements of the approved permit documents, a portion of CDRMS Permit C-1981-019.