



January 17, 2024

Mr. Clayton Wein
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
2023 Annual Reclamation Report**

Dear Mr. Wein,

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

In accordance with Rule 2.04.13(1), by February 15, or other such date as agreed on, each permittee shall file an annual reclamation report covering the previous calendar years for all areas under bond. New Horizon Mine by permit is required to submit the report annually by March 15. Therefore, enclosed please find the Annual Reclamation Report for the calendar year 2023 as required.

If you should have any additional questions or concerns, please feel free to contact Tony Tennyson at (970) 824-1232 at your convenience.

Sincerely,

DocuSigned by:

A handwritten signature in black ink that reads "Chris Gilbreath".

D250C711D0BF450...

Chris Gilbreath
Senior Manager
Remediation and Reclamation

CG:TT

Enclosure

Cc: Tony Tennyson (via email)
C.F. 11.1

Elk Ridge Mining and Reclamation, LLC.

PERMIT NO. C-1981-008

NEW HORIZON MINE

2023 ANNUAL RECLAMATION REPORT

JANUARY 1, 2023 to DECEMBER 31, 2023

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I. RULE REQUIREMENTS

Rule 2.04.13(1)(a-f) states, by February 15, or such date agreed on (which is March 15 in Permit No. C-1981-008), each permitted shall file an annual reclamation report covering the previous calendar year for all areas under bond. The report shall include, but is not limited to, text, discussion and maps which address:

- the name and address of the permittee and permit number
- location and number of acres disturbed during that year
- location and number of acres backfilled and graded during that year
- location and number of acres topsoiled during that year
- the species, location and number of acres of vegetation planted during that year, including any augmented seeding or cultural practices
- location, number of acres and date of planting for all previously revegetated areas

A. PERMITTEE

Elk Ridge Mining & Reclamation, LLC
New Horizon Mine
Permit No. C-1981-008
PO Box 628
Nucla, CO 81424

B. DISTURBED AREAS

During 2023, 0.0 acres of additional disturbance occurred onsite. There are currently 10.4 acres in non-permanent long-term facilities at the end of the year 2023, and 8.9 acres of long-term permanent facilities. Please see Figure 1.

C. BACKFILLING AND GRADING

During 2023, 0.0 acres were backfilled and/or graded.

D. RECLAMATION ACTIVITIES

1. Spoil Quality

The spoil sampling and analysis program for the New Horizon Mine is described in Section 2.05.4(2)(d) of the approved permit. The New Horizon Mine has conducted all spoil quality analysis for the entire disturbed mine site in 2022. Please refer to the 2022 Annual Reclamation Report. No additional sampling will occur for spoil quality.

2. Topsoil

The New Horizon Mine placed topsoil on 75.0 acres in 2023. Please refer to Table 1 for the current volume of topsoil in stockpiles.

3. Seeding

The approved seed mixtures utilized at the New Horizon Mine are located in Section 2.05.4(2)(e) of the approved permit. During 2023, 75.0 acres of permanent seeding occurred at the New Horizon Mine, and 7.6 acres of temporary seeding occurred.

4. Soil Fertility Testing, Topsoil Sampling and Fertilizer Application

Soil fertility testing was performed within reclamation parcel IC-1 in 2023. The results are presented on Figure 2.

In 2023, during topsoil replacement activities topsoil sampling including topsoil replacement depths occurred on reclamation units DP-20, DP-21, and PF-1. Results of the topsoil samples and topsoil replacement depths are presented on Figure 3. The analytical results from the samples taken meet the sample criteria presented on Table 2.05.4(2)(d)-5.

Fertilizer was applied to reclamation units IP-8 through IP-11, IC-1, and the reference area. Fertilizer rates that were applied in 2023 are as follows:

<u>Fertilizer</u>	<u>Pounds/Acre Applied</u>
11-52-0 Phosphate	60
46-0-0 Urea	20

5. Grazing

Data presented below includes reclamation parcels within the permit boundary that were grazed in 2023.

- ERM - Benson West & Lloyd Property (25 acres):
 - 22 head of cattle grazed from January 1 to 22, 2023.
- IP-10 (2.9 acres)
 - 95 head of cattle grazed from January 14, 2023 to February 15, 2023
 - Note: There is not fencing between the IP-10 and the larger property that is outside the permit boundary. The landowner grazes the property as whole which includes IP-10.
- Reference Area (6.3 acres):
 - 22 head of cattle grazed from January 1 to 29, 2023.

6. Irrigation

The CCC Ditch Company commenced water deliveries on April 27, 2023, and New Horizon Mine began irrigation operations shortly thereafter. The CCC Ditch Company discontinued water delivery for the year on October 22, 2023.

7. Irrigated Pasture Yields

- ERM - IP-8 (12.2 acres)
 - First cutting – 1,040 bales averaging 60 lbs
 - Second cutting – 843 bales averaging 60 lbs
- ERM -IP-9 (12.9 acres) & IP-11 (14.9 acres)
 - First cutting – 1,775 bales averaging 60 lbs
 - Second cutting – 1,040 bales averaging 60 lbs
- IP-10 (2.9 acres)
 - First cutting – 11 - 3x3 bales averaging 876 lbs
 - Second cutting – 4 – 3x3 bales averaging 736 lbs
- IC-1 (107.8 acres) including irrigated cropland reference area
 - First Cutting – 166 bales averaging 1,543 lbs
 - Second Cutting – 96 bales averaging 1,633 lbs
 - Third Cutting – 88 bales averaging 1,640 lbs
- Reference Area (6.3 acres):
 - First cutting – 421 bales averaging 60 pounds per bale
 - Second cutting – Did not cut

E. WILDLIFE MONITORING

No wildlife monitoring occurred in 2023.

F. INTERIM REVEGETATION REPORT

New Horizon did not conduct any interim vegetation monitoring in 2023.

G. WEED MANAGEMENT

During 2023, various areas within the permit boundary were treated for noxious weeds by spot spraying and/or hand removal. The actual treatment sites were generally small and random and thus too small to accurately depict on a map.

Target species for noxious weeds included Knapweed(s), Thistle(s), White Top, Russian-olive, saltceder/tamarisk, burdock, buffalo bur, mullein, halogeton, purple loosestrife, and

Western whorled milkweed. Other target species are included in the Montrose County (2010) and San Miguel County (2002) Noxious Weed lists.

H. PEST MANAGMENT

The New Horizon Mine did not conduct any pest management in 2023.

Table 1 - Topsoil Stockpiled (End of Year 2023)

Topsoil Pile Name	Type of Topsoil	Volume (CY)
C	Lift B Topsoil	3,705
D	Mixed Topsoil	3,242
H	Lift A Topsoil	2,363
5	Mixed Topsoil	150
14	Mixed Topsoil	2,063
15	Mixed Topsoil	119
16	Mixed Topsoil	1,685
Sub Total		13,327
11A	Lift A Topsoil (Morgan)	5,550
11B	Lift B Topsoil (Morgan)	4,070
Sub Total		9,620
GRAND TOTAL		22,947

New Horizon Mine

Table 2 – New Horizon Reclamation Table

Area	Reclaim ed Acres	Year Seeded	Revegetat ed Years	Bond Release Granted			Notes:
				Phase 1	Phase 2	Phase 3	
DP-5	1.1	2006	13	Approved	Approved	Approved	
DP-6	1.9	2007	12	Approved	Approved	Approved	
DP-9	6.5	2009	10	Approved	Approved	Approved	
DP-10	8.1	2011	13	Approved	Partial		
DP-11	1.7	2011	13	Partial	Partial		
DP-12	0.7	2012	12				
DP-13	0.4	2013	11				
DP-14	2.0	2013	11	Partial	Partial		
DP-15	2.3	2014	10	Approved	Approved		
DP-16	1.4	2016	8	Approved			
DP-17	3.5	2018	6				
DP-18	6.5	2012	12				Reduced by 1.0 in 2023 for unit DP-20
DP-19	3.7	2021	3				
DP-20	42.2	2023	1				
DP-21	32.8	2023	1				
IP-8	12.2	2014	10	Approved	Approved		
IP-9	12.9	2014	10	Approved	Approved		
IP-10	2.9	2016	8	Approved			

New Horizon Mine

IP-11	12.3	2020	4				Spring seeding in 2020; therefore, one full growing season in 2020. Reduced in 2023 for unit IP-12.
IP-12	2.6	2024	0				Spring seeding in 2024; therefore, one full growing season in 2024.
IC-1	107.8	2015	9	Approved	Approved		Spring seeding in 2015; therefore, one full growing season in 2015.
PF-1	5.0	2024	0				Spring seeding in 2024; therefore, one full growing season in 2024.

Please see Map 1 for locations of the reclamation units noted above.

New Horizon Mine

Figure 1 - Annual Reclamation Report Form Colorado Division of Reclamation, Mining and Safety Annual Reclamation Report for Calendar Year – 2023

New Horizon Mine	C-1981-008	Elk Ridge Mining & Reclamation, LLC.
Mine Name	Permit Number	Permittee
P.O Box 628 – 27646 W. 5 th Street Nucla, CO 81424		
Address		

This report, required by Rule 2.04.13, is due by February 15 of each year, or other date, as agreed upon by the Division. It should include text, discussion, and maps, at a minimum, in addition to any other reclamation monitoring data as required by the approved permit. The location of the acreage reported under each land status category and year of seeding (if applicable) should be clearly identified on a map included with the report.

Land Category	Last Year's Cumulative Total (from last year's ARR)	This Calendar Year			Cumulative Total
		Acres Added (+)	Acres Subtracted (-)		
Acreage in Active Mining Areas ¹	0	0	0	=	0

Land Category	Last Year's Cumulative Total (from last year's ARR)	This Calendar Year			Cumulative Total
		Acres Added (+)	Acres Subtracted (-)		
Acres Disturbed ²	313.9	0.0	3.6	=	310.3 ⁴
Acres Backfilled and Graded	268.6	0.0	3.6	=	265.0 ⁴
Acres Topsoiled	191.5	75.0	3.6	=	261.5 ⁴

Acreage in Long-term Facilities ³	Last Year's Cumulative Total (from last year's ARR)	This Calendar Year			Cumulative Total
		Acres Added (+)	Acres Subtracted (-)		
Non-Permanent Facilities	38.2	0	27.8	=	10.4
Permanent Facilities (permitted)	7.1	1.8	0	=	8.9
Totals	45.3			=	19.3

Acres Seeded (permanent)	Last Year's Cumulative Total (from last year's ARR)	This Calendar Year			Cumulative Total
		Acres Added (+)	Acres Subtracted (-)		
9 Years and Less	164.0	43.8	0	=	207.8
10 Years and Greater	27.5	29.8	3.6	=	53.7 ⁴
Totals	191.5			=	261.5

Bond Release	Last Year's Cumulative Total (from last year's ARR)	This Calendar Year			Cumulative Total
		Acres Added (+)	Acres Subtracted (-)		
Phase I Released	168.2	0	3.6	=	168.2 ⁴
Phase II Released	158.4	0	3.6	=	158.4 ⁴
Phase III Released	13.1	0	3.6	=	13.1 ⁴

¹Includes pits, topsoil stripped areas in advance of pits, and spoil not backfilled and graded

²Surface Mine Acres Disturbed = B&G + Long-Term Facilities + Active Mining Areas; Underground Mine Acres Disturbed = B&G + Long-Term Facilities; Separately-permitted Loadouts = B&G + Long-Term Facilities

New Horizon Mine

³Includes haul, access and light-use roads, temporary dams and impoundments; permanent dams and impoundments; diversion and collector ditches, water and air monitoring sites; topsoil stockpiles; overburden stockpiles; repair, storage and construction areas; office area, repair shops, and parking; coal stockpiles, loading, and processing areas; railroads; coal conveyors; refuse piles and coal mine waste impoundments; head-of-hollow fills; valley fills; ventilation shafts and entryways; and non-coal waste disposal area (garbage dumps and coal combustion by-products disposal areas).

⁴Disturbance Acres in 2023 were reduced by 3.6 acres which was a grass filter area for IP-10 that was removed from the permit boundary under TR-106.

Figure 2 – Topsoil Fertility Testing

SOIL ANALYSIS REPORT

CLIENT: 18393	FRUITA CONSUMERS COOP NUCLA COOP COUNTRY STORE 995 MAIN STREET PO BOX 399 NUCLA, CO 81424	 www.servitech.com	1602 Park West Dr. PO Box 169 Hastings, NE 68902 800.557.7509 402.463.3522 Fax 402.463.8132	LAB NO: 89321 - 89330 INVOICE NO: 600227 DATE RECEIVED: 03/13/2023 DATE REPORTED: 03/17/2023
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SOIL ANALYSIS RESULTS FOR: ELK RIDGE MINE & RECLAIM										FIELD IDENTIFICATION: MORGAN PROPERTY									
METHOD USED:																			
Lab Number	Sample ID	Sample Depth	Soil pH	Buffer pH	Excess Lime	% Organic Matter	Nitrate-Nitrogen ppm	Nitrite-Nitrogen ppm	Phosphorus ppm P	Potassium ppm K	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B	DTPA Sorbitol
89321	MSS 1	0 - 8					5.3	13	22										0.38
89322	MSS 2	0 - 8					4.8	12	39										0.56
89323	MSS 3	0 - 8					5.9	14	47										0.61
89324	MSS 4	0 - 8					7.2	17	40										0.48
89325	MSS 5	0 - 8					5.5	13	38										0.44
89326	MSS 6	0 - 8					8.2	20	40										0.66
89327	MSS 7	0 - 8					7.6	18	33										0.53
89328	MSS 8	0 - 8					6.7	16	37										0.66
89329	MSS 9	0 - 8					5	12	33										0.59
89330	MSS 10	0 - 8					6.8	16	37										0.58

METHOD USED:																			
Lab Number	Sample ID	Sample Depth	Date Sampled	Hg Thiocyanate	Chloride ppm	Cl/A	KCl Extr. Ammonium Nitrogen ppm	IB. IA	Bicarb P Phosphorus ppm P	KCl Extr. Aluminum ppm Al	c-Bray P1 Bray Phosphorus ppm P	c-Bray P2 Phosphorus ppm P							
89321	MSS 1	0 - 8	03/07/23	Pending	21.6	2	5	9	<1	19	55								
89322	MSS 2	0 - 8	03/07/23	Pending	45.6	2	5	16	18	34	83								
89323	MSS 3	0 - 8	03/07/23	Pending	4.8	2	5	20	1	41	97								
89324	MSS 4	0 - 8	03/07/23	Pending	33.6	2	5	21	<1	36	86								
89325	MSS 5	0 - 8	03/07/23	Pending	4.8	2	5	17	<1	33	81								
89326	MSS 6	0 - 8	03/07/23	Pending	2.4	2	5	16	11	36	86								
89327	MSS 7	0 - 8	03/07/23	Pending	12	3	7	13	<1	29	73								
89328	MSS 8	0 - 8	03/07/23	Pending	2.4	2	5	16	<1	32	79								
89329	MSS 9	0 - 8	03/07/23	Pending	2.4	2	5	13	1	29	73								
89330	MSS 10	0 - 8	03/07/23	Pending	2.4	2	5	14	<1	32	79								

Analyses are representative of the samples submitted Samples are retained 30 days after report of analysis Explanations of soil analysis terms are available upon request

Reviewed and Hans Burken Page 1 of 3
Approved By: Lab Manager 03/17/2023 4:52 pm

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SOIL ANALYSIS REPORT

CLIENT: 18393	FRUITA CONSUMERS COOP NUCLA COOP COUNTRY STORE 995 MAIN STREET PO BOX 399 NUCLA, CO 81424
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PO Box 169
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Fax 402.463.8132

LAB NO:	89321 - 89330
INVOICE NO:	600227
DATE RECEIVED:	03/13/2023
DATE REPORTED:	03/17/2023

SOIL ANALYSIS RESULTS FOR: ELK RIDGE MINE & RECLAIM

FIELD IDENTIFICATION: MORGAN PROPERTY

FERTILIZER RECOMMENDATIONS:

POUNDS ACTUAL NUTRIENT PER ACRE

Cation Exchange Capacity

Lab Number	Sample ID	Crop To Be Grown	Yield Goal	Lime: ECC Tons/A to raise pH to			N	P ₂ O ₅	K ₂ O	Zn	S	Mn	Cu	MgO	B	Ca	Cl	Cation Exchange Capacity					
				5.0	6.5	7.0												CEC	%H	%K	%Ca	%Mg	%Na
89321	MSS 1	ALFALFA	5 tons					50							1								
89321	MSS 1	ALFALFA	6 tons					60							1								
89322	MSS 2	ALFALFA	5 tons					15							0.5								
89322	MSS 2	ALFALFA	6 tons					20							0.5								
89323	MSS 3	ALFALFA	5 tons					0							0								
89323	MSS 3	ALFALFA	6 tons					0							0								
89324	MSS 4	ALFALFA	5 tons					0							1								
89324	MSS 4	ALFALFA	6 tons					0							1								
89325	MSS 5	ALFALFA	5 tons					10							1								
89325	MSS 5	ALFALFA	6 tons					15							1								
89326	MSS 6	ALFALFA	5 tons					15							0								
89326	MSS 6	ALFALFA	6 tons					20							0								
89327	MSS 7	ALFALFA	5 tons					25							0.5								
89327	MSS 7	ALFALFA	6 tons					35							0.5								
89328	MSS 8	ALFALFA	5 tons					15							0								
89328	MSS 8	ALFALFA	6 tons					20							0								
89329	MSS 9	ALFALFA	5 tons					25							0.5								
89329	MSS 9	ALFALFA	6 tons					35							0.5								
89330	MSS 10	ALFALFA	5 tons					20							0.5								
89330	MSS 10	ALFALFA	6 tons					30							0.5								

SPECIAL COMMENTS AND SUGGESTIONS:

Lab Number(s): 89321, 89322, 89323, 89324, 89325, 89326, 89327, 89328, 89329, 89330

PHOSPHORUS: The Mehlich-3 phosphorus value was used to calculate the phosphate fertilizer recommendation.

Analyses are representative of the samples submitted

Samples are retained 30 days after report of analysis

Explanations of soil analysis terms are available upon request

Reviewed and
Approved By:Hans Burken
Lab Manager

Page 2 of 3
03/17/2023 4:52 pm

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SOIL ANALYSIS REPORT

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SOIL ANALYSIS RESULTS FOR: ELK RIDGE MINE & RECLAIM

FIELD IDENTIFICATION: MORGAN PROPERTY

Lab Number(s): 89321, 89322, 89323, 89324, 89325, 89326, 89327, 89328, 89329, 89330

PHOSPHORUS: The c-Bray-P1 equivalent was calculated from the Mehlich-3 phosphorus concentrations.

Lab Number(s): 89321, 89322, 89323, 89324, 89325, 89326, 89327, 89328, 89329, 89330

PHOSPHORUS: The c-Bray-P2 equivalent was calculated from the Mehlich-3 phosphorus and calcium concentrations using the Louisiana NRCS correlation.

Analyses are representative of the samples submitted

Samples are retained 30 days after report of analysis

Explanations of soil analysis terms are available upon request

Reviewed and
Approved By:

Hans Burken
Lab Manager

Hans Burken

Page 3 of 3

03/17/2023 4:52 pm

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Figure 3 Topsoil Sampling Results

Sample ID	Sample Date	Topsoil Replacement Depth (in)	pH (s.u.)	Electrical Conductivity (mmho/cm)	Saturation (%)	Sodium Absorption Ratio	USDA Soil Texture
TS104	9/12/23	17	7.9	0.42	42.9	<0.05	Sandy Clay Loam
TS105	9/12/23	17	7.6	0.55	46.3	<0.05	Sandy Clay Loam
TS106	9/12/23	24	7.5	2.30	49.8	0.22	Sandy Clay Loam
TS107	9/12/23	24	7.9	0.53	42.3	0.34	Sandy Clay Loam
TS108	9/12/23	13	7.9	0.53	41.6	0.34	Clay Loam
TS109	12/11/23	>24	7.1	2.76	41.4	0.33	Sandy Clay Loam
TS110	12/11/23	>24	7.2	2.90	42.3	0.25	Sandy Clay Loam
TS111	11/27/23	19	7.1	2.92	41.1	0.40	Sandy Clay Loam
TS112	11/27/23	12	7.2	2.52	41.9	0.47	Sandy Clay Loam
TS114	10/24/23	16	7.4	3.54	39.5	0.41	Sandy Clay Loam
TS115	11/27/23	18	7.1	2.59	41.8	0.31	Sandy Clay Loam
TS116	10/24/23	15	7.6	3.07	39.5	0.05	Sandy Clay Loam
TS117	10/24/23	16	7.5	4.19	40.8	0.36	Sandy Clay Loam
TS119	9/12/23	15	7.5	2.76	38.3	0.63	Sandy Clay Loam
TS120	11/27/23	17	7.3	2.50	42.3	0.74	Sandy Clay Loam
TS121	10/24/23	24	7.5	3.42	43.5	0.45	Sandy Clay Loam
TS124	9/12/23	12	7.3	3.22	39.2	0.49	Sandy Clay Loam
TS125	10/24/23	13	7.7	2.72	38.6	0.53	Sandy Clay Loam
TS128	9/12/23	19	7.6	2.40	40.2	0.53	Sandy Clay Loam
TS129	9/12/23	23	7.8	2.39	37.4	0.55	Sandy Clay Loam
TS130	11/27/23	24	7.5	3.04	37.3	0.38	Sandy Loam
TS131	11/27/23	>24	7.2	3.62	38.4	0.63	Sandy Loam
TS132	10/24/2023	14	7.7	2.35	40.3	0.56	Sandy Clay Loam
TS133	11/29/2023	24	7.5	2.92	36.9	0.94	Sandy Clay Loam