



January 3, 2023

Mr. Clayton Wein
Environmental Protection Specialist
Colorado Division of Reclamation, Mining and Safety
1313 Sherman Street, Room 215
Denver, CO 80203

**RE: New Horizon North Mine
Permit No. C-2010-089
2022 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 North Mine. The New Horizon North Mine operates under the Colorado Division of Reclamation, Mining, and Safety Permit No. C-2010-089.

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 North 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 2022 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:db

Enclosure

Cc: Tony Tennyson (via email)
C.F. 11.1 - G474-11.3(21)c-9

Elk Ridge Mining & Reclamation, LLC

PERMIT C-2010-089

NEW HORIZON NORTH MINE

2022 ANNUAL RECLAMATION REPORT

JANUARY 1, 2022 to DECEMBER 31, 2022

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Map 1 – Annual Reclamation Report Map

A. Rule Requirements

Rule 2.04.13(1)(a-f) states, by February 15, or such date agreed on, each permitted shall file an annual reclamation report covering the previous calendar year for all areas under bond. The report shall include, but are 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

Per Section 2.04.13 of Permit No. C-2010-089 the New Horizon North Mine submits the annual reclamation report annually by March 15. Additional requirements for contents of this annual reclamation report can be found in Section 2.05.4(2)(d), Section 2.05.4(2)(e), and Section 2.05.6(2).

B. Permittee

Elk Ridge Mining and Reclamation, LLC
New Horizon North Mine
Permit No. C-2010-089
PO Box 628
Nucla, CO 81424

C. Disturbed Areas

During 2022, 0.0 acres of new disturbance occurred at the New Horizon North Mine.

At the end of 2022, the total disturbance was 157.1 acres. Of this, 36.3 acres are in long-term mining, reclamation, or facilities. All of the active mining areas have been backfilled, graded, and topsoiled. Therefore, there are no active mining areas exist at the New Horizon North Mine.

D. Backfill and Grading

During 2022, 0.0 acres were backfilled and graded.

E. Reclamation Activities

1. Spoil Quality

The spoil sampling and analysis program for the New Horizon North Mine is described in Section 2.05.4(2)(d), Table 2.05.4(2)(d)-1 of the approved permit. All areas for spoil quality (Bench 1) have been sampled for the entire mine site. Please see previous annual reclamation reports for the results of the analyses.

2. Topsoil

During 2022, 0.0 acres were topsoiled. Table 1 provides the overall stockpile volumes for the mine.

3. Seeding

The New Horizon North Mine permanently seeded 0.0 acres in 2022. Please see Table 2 for specific details on each reclamation unit, and Map 1 for the reclamation areas seeded to date.

4. Soil Fertility Testing and Fertilizer Application

The landowner conducted soil testing in 2022. The results of the test are presented in Attachment 1.

The landowner ordered and fertilized reclamation unit IP-1 in 2022. Documentation of the fertilizer used by the surface landowner is presented in Attachment 2.

5. Irrigation

The CCC Ditch Company commenced water deliveries on April 20, 2022, and New Horizon North Mine began irrigation operations shortly thereafter. The CCC Ditch Company discontinued water delivery for the year on October 8, 2022.

6. Irrigated Pasture Yields

In 2022, the first cutting from reclamation unit NHN-04 yielded 164 tons, the second cutting produced 194 tons, and the third cutting produced 132 tons.

F. Wildlife Monitoring and Mitigation

No wildlife monitoring nor mitigation occurred in 2022.

G. Interim Revegetation Report

Interim vegetation monitoring did not occur at the New Horizon North Mine in 2022. Future Interim Vegetation Reports will be included as an attachment.

H. Weed Management

During 2022, 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, 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.

Table 1 – Stockpile Volumes at the End of Report Year

<u>Stockpile Type</u>	<u>Volume (Cubic Yards)</u>
Topsoil Pile 1 - Mixed	33,720
Topsoil Pile 2 - Mixed	32,290
Topsoil Pile 3 - Progresso	16,580

Table 2 – New Horizon North Reclamation Table

New Horizon North Reclamation Table							
Area	Reclamation Period		Status				Notes:
	Year	Acreage	Revegetated Years	Bond Release			
				Phase 1	Phase 2	Phase 3	
NHN-01	2017	3.7	5	2017	2022	2022	3.7 acres planted to Dryland Pasture
NHN-02	2017	2.7	5	2017	2022		2.7 Acres planted to Dryland Pasture
NHN-03	2018	20.6	4	2017	2022		20.6 Acres planted to Dryland Pasture
NHN-04	2019	88.3	3	2017	2022		88.3 Acres planted to Irrigated Pasture
NHN-05	2019	4.9	3	2017	2022		4.9 Acres planted to Dryland Pasture
NHN-06	2020	0.6	2				0.6 Acres planted to Dryland Pasture
Total		120.8					

Figure 1 - CDRMS Annual Reclamation Report Form

Colorado Division of Reclamation, Mining and Safety

Annual Reclamation Report for Calendar Year – 2022

New Horizon North Mine	C-2010-089	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	157.1	0	0	=	157.1
Acres Backfilled and Graded	83.0	0	0	=	83.0
Acres Topsoiled	120.8	0	0	=	120.8

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	42.9	0	6.6	=	36.3
Permanent Facilities (permitted)	0	0	0	=	0
Totals	42.9			=	36.3

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	120.8	0	0	=	120.8
10 Years and Greater	0	0	0	=	0
Totals	120.8			=	120.8

Bond Release	Last Year's Cumulative Total (from last year's ARR)	This Calendar Year			Cumulative Total
		Acres Added (+)	Acres Subtracted (-)		
Phase I Released	0	0	0	=	120.2
Phase II Released	0	118.6	0	=	118.6

New Horizon North Mine

Phase III Released	0	3.7	0	=	3.7
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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

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).

Attachment 1
Soil Testing Report

SOIL ANALYSIS REPORT

CLIENT: 18393	FRUITA CONSUMERS COOP 995 MAIN STREET PO BOX 399 NUCLA, CO 81424
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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:	97684
INVOICE NO:	639053
DATE RECEIVED:	03/11/2022
DATE REPORTED:	03/21/2022

SOIL ANALYSIS RESULTS FOR: GARVEY BROTHERS													FIELD IDENTIFICATION: COAL MINE PIVOT														
METHOD USED:								Cd Reduction				Mehlich 3												DTPA Sorbitol			
Lab Number	Sample ID	Sample Depth	Soil pH	Buffer pH		Excess Lime	% Organic Matter	Nitrate-Nitrogen ppm lb. N/A		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						
97684	COALMINE PVT	0 - 8						4.9	12	19											0.48						
METHOD USED:																											
				Hg Thiocyanate		KCl Extr.		Bicarb P	Bray P1	KCl Extr.																	
Lab Number	Sample ID	Sample Depth	Date Sampled	Chloride ppm Cl/A	Ammonium Nitrogen ppm lb. /A	Phosphorus ppm P	Aluminum ppm Al																				
97684	COALMINE PVT	0 - 8	02/20/22	4	9.6	3	7	11	<1	<1																	
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	CEC	%H	%K	%Ca	%Mg	%Na	
97684	COALMINE PVT	ALFALFA				6 tons	6.0	6.5	7.0		50								1								

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
Approved By: Lab Manager

Page 1 of 1
03/21/2022 5:24 pm

The reported analytical results apply only to the sample as it was supplied. The report may not be reproduced, except in full, without permission of ServiTech.

Your opinion is valuable to us. Please let us know what you think about our services! Send an email to feedback@servitech.com.

Attachment 2

Fertilizer

- HARDWARE
- ELECTRICAL
- APPLIANCES
- FARM SUPPLIES
- FEED



- FERTILIZERS
- CHEMICALS
- HOME & GARDEN
- OIL-GREASE
- PETROLEUM

FRUITA CONSUMERS CO-OP ASS'N

1650 HWY. 6 & 50 - FRUITA, COLORADO 81521

Fruita Phone
858-3667

3730

Fertilizer Plant
858-7092SCALE
TICKET NO. _____☐ APPLIED BY CERTIFIED
APPLICATORS
O
L
D

TO

Stan Garvey (Garvey Bros)
FertilizerL
L
A
O
N
R
D
D

INVOICE DATE	DATE ORDERED	ORDER TAKEN BY	DELIVERY DATE	TRAILER	BAGGED	CO-OP TRUCK	BULK	DEL. BY	REG.	SPRING PAY	EXT. BY	RET'D.
ORDERED	POUNDS DELIVERED	DESCRIPTION						PRICE		AMOUNT		
20		UREA	46-0-0									
33		11-52 AVAIL										
23		AMMONIUM SULFATE	21-0-0									
29		SULFATE OF POTASH	0-0-50									
1430	109.84	11-52-0								2443	70	
		LOCK-N										
49		32-0-0 LIQUID										
1430	18.06	11-52-0								1031	92	

TANK DU FOR SHOPPING AT
NUCLA CO-OP
(970) 864-7323

04/06/22 2:24PM SAMMY

1430 69 84HW

11-52-0 BULK

1430 18 06HW

11-52-0 BULK

TAX: \$

TOTAL: \$

CK AMT: \$

SUB-TOTAL: \$

K#005479 ABA



==> JRNL#G84217

CUST NO: 3730

Cu tomer Copy

FERTILIZER
ACCT: GARVEY BROTHERS P EPAY

per acre

per ton

TAX

per ton

TOTAL
INVOICEh. 1 1/2% per month (18% per annum) late payment charge will
for any account, plus reasonable attorney fees.
OF AGRICULTURE.

SIGNATURE X

76700