

Soil Baseline Map



New Horizon Mine
Permit No. C-1981-008
P.O. Box 628, Nucle, CO. 81424

SCALE: 1" = 400'
ORIGINAL DATE: 6/25/2015
DWG. BY: ESI/TCP
APPROVED BY: FKF

DWG NO.

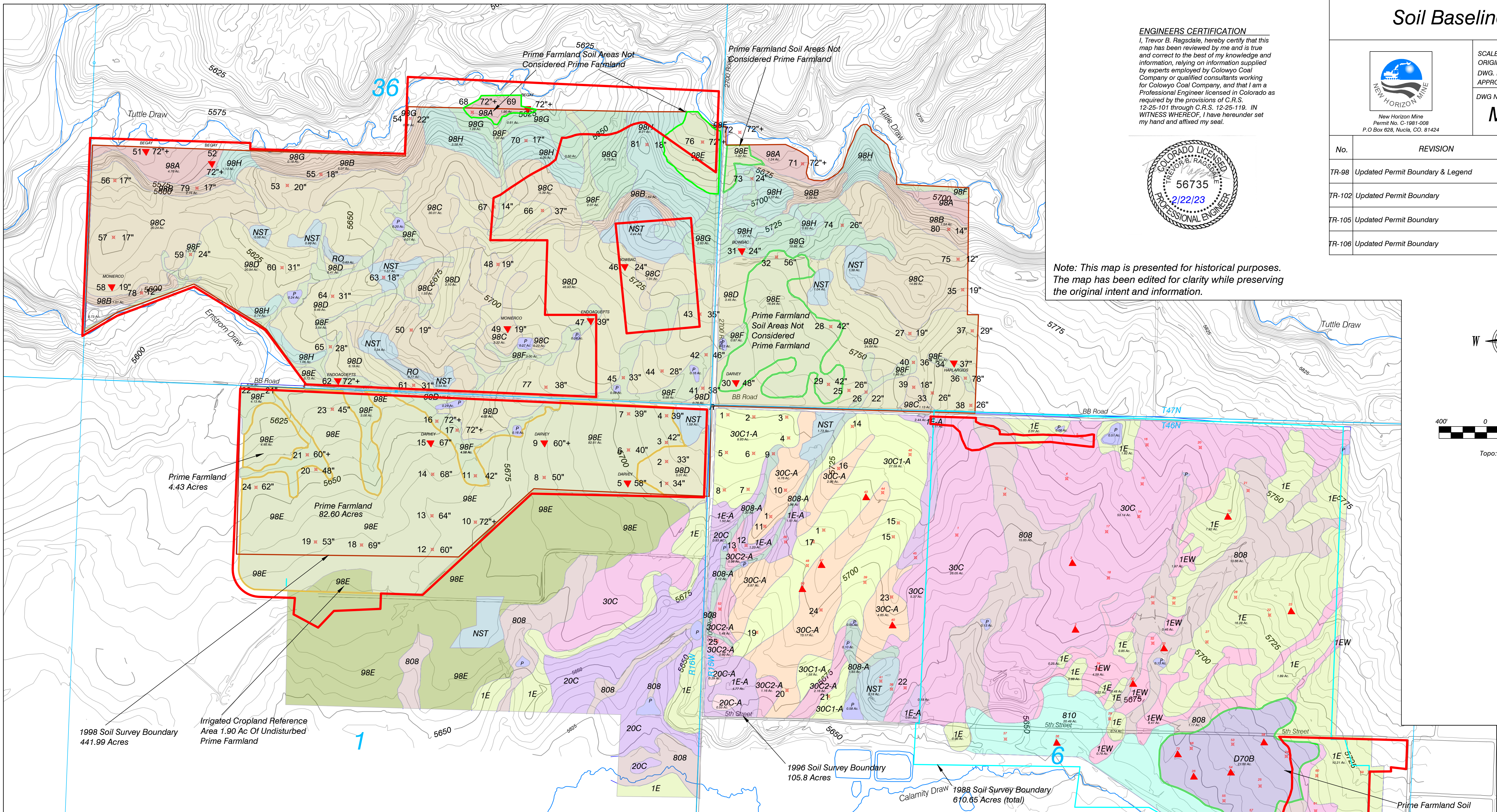
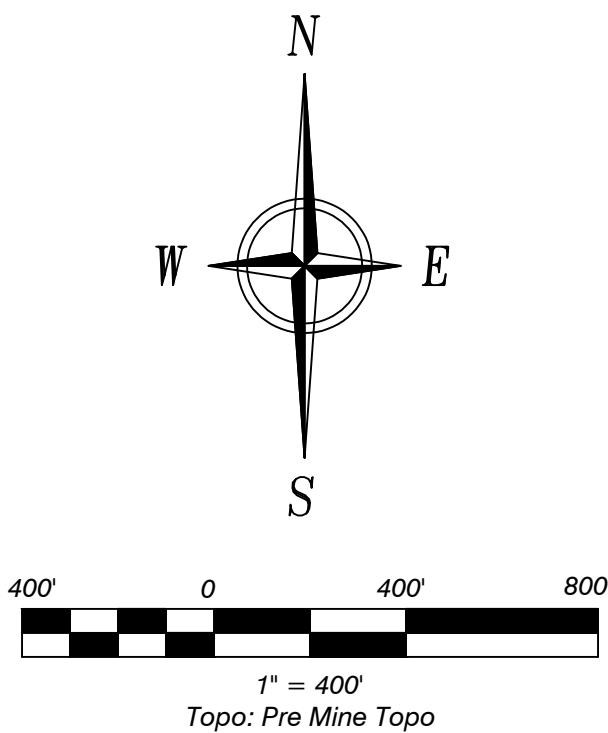
Map 2.04.9-1

No.	REVISION	DATE	BY	CHK
TR-98	Updated Permit Boundary & Legend	3/13/20	Tony	FKF
TR-102	Updated Permit Boundary	2/22/21	Tony	FKF
TR-105	Updated Permit Boundary	5/19/22	Tony	TR
TR-106	Updated Permit Boundary	2/22/23	Tony	TR

ENGINEERS CERTIFICATION
I, Trevor B. Raggsdale, hereby certify that this map has been reviewed by me and is true and correct to the best of my knowledge and information, relying on information supplied by experts employed by Colowyo Coal Company or qualified consultants working for Colowyo Coal Company, and that I am a Professional Engineer licensed in Colorado as required by the provisions of C.R.S. 12-25-101 through C.R.S. 12-25-119. IN WITNESS WHEREOF, I have hereunder set my hand and affixed my seal.



Note: This map is presented for historical purposes. The map has been edited for clarity while preserving the original intent and information.



The two tables below show the soil salvage predictions from the original soil surveys. Actual soil salvage is shown in Section 2.04.9.

Soil Survey Boundaries by Year	
	1988 Soil Survey Boundary
	1998 Soil Survey Boundary
	1988 Soil Sample Point
	1988 Lab Sample Point
	1996 Soil Sample Point
	1988 Soil Description Site
	1988 Soil Observation Site
	Soil Map Unit

1998 Disturbed Area Map Unit Acreage and Soil Salvage Volumes (See 2.04.9 Soil Resource Information)			
Map Unit	Volume of Salvage Material Lift 1 (cu. yards)	Volume of Salvage Material Lift 2 (cu. yards)	Total Volume (cu. yards)
98A	6.31	17134	34267
98B	18.42	0	38633
98C	77.89	100530	125663
98D	122.16	216793	275919
98E	104.38	235780	505198
98F	26.15	63283	97034
98G	27.63	49034	80238
98H	24.30	0	58806
C	0.75	0	0
NST	13.32	0	0
P	1.55	0	0
R	6.08	0	0
RO	1.40	0	0
Totals	429.34	682334	1215759

New Horizon Mine Baseline Topsoil Data									
Map Unit Symbol	Map Unit Name	Mean Topsoil Salvage Thickness (ft.)			Map Unit Symbol	Map Unit Name	Mean Topsoil Salvage Thickness (ft.)		
		1st Lift	2nd Lift	Mixed Lift			1st Lift	2nd Lift	Mixed Lift
1E	Travesilla - Pinion Channery Sandy Loam Complex, 3 to 30 Percent Slopes	0.0	0.0	0.8	98A	Begay Fine Sandy Loam, 1 to 3 Percent Slopes	2.0	4.0	0.0
1E-A	Travesilla - Pinion Channery Sandy Loam Complex, 3 to 30 Percent Slopes	0.0	0.0	0.8	98B	Valley City - Rock Outcrop Complex, 30 to 60 Percent Slopes	0.0	0.0	1.3
1EW	Lithic Haplaquolls, 1 to 6 Percent Slopes	0.0	0.0	0.8	98C	Monierco Fine Sandy Loam, 0 to 10 Percent Slopes	0.8	1.0	0.0
20C	Bowdish - Lazear Complex, 3 to 15 Percent Slopes	0.0	0.0	1.2	98D	Bowbac - Bowdish Complex, 0 to 3 Percent Slopes	1.1	1.4	0.0
20C-A	Bowdish - Lazear Complex, 3 to 15 Percent Slopes	0.8	1.4	0.0	98E	Darvey - Barx Complex, 0 to 3 Percent Slopes	1.4	3.0	0.0
30C	Progresso - Bond Complex, 2 to 15 Percent Slopes	0.8	1.3	0.0	98F	Haplagrids - Endoaqupts Association, 0 to 3 Percent Slopes	1.5	2.3	0.0
30C-A	Progresso - Bond Complex, 2 to 8 Percent Slopes	0.8	1.4	0.0	98G	Bowdish - Bowbac Complex, 3 to 15 Percent Slopes	1.1	1.8	0.0
30C-A-1	Progresso Sandy Loam, 2 to 4 Percent Slopes	0.9	2.2	0.0	98H	Wahweap Fine Sandy Loam, 10 to 30 Percent Slopes	0.0	0.0	1.5
30C-A-2	Progresso Sandy Loam, 4 to 15 Percent Slopes	1.1	2.8	0.0	C	Coal	0.0	0.0	0.0
70B	Barx Sandy Loam, 1 to 4 Percent Slopes	1.3	3.5	0.0	NST	No Suitable Topsoil	0.0	0.0	0.0
D70B	Barx - Barx, Scalloped - Barx, Buried Complex, 1 to 4 Percent Slopes	0.8	3.5	0.0	P	Ponds	0.0	0.0	0.0
80B	Lithic - Typic Haplaquolls, Shallow to Deep, 1 to 3 Percent Slopes	0.0	0.0	2.4	R	Roads	0.0	0.0	0.0
80B-A	Lithic - Typic Haplaquolls, Shallow to Deep, 1 to 3 Percent Slopes	1.0	2.8	0.0	RO	Rock Outcrop	0.0	0.0	0.0
810	Typic Haplaquolls, Deep, 1 to 3 Percent Slopes	0.0	0.0	0.0					

Legend

- Permit Boundary
- Prime Farmland Soils - Designated Prime Farmland
- Prime Farmland Soils - Designated Not Prime Farmland
- Streams
- Roads
- Township & Range