



STATE OF
COLORADO

Ebert - DNR, Jared <jared.ebert@state.co.us>

Builder's Aggregate M-1981-112

tara@tessarawater.com <tara@tessarawater.com>
To: "Ebert - DNR, Jared" <jared.ebert@state.co.us>
Cc: jminer149@hotmail.com

Mon, Nov 19, 2018 at 7:33 PM

Hi Jared,

I am working with Jim Miner on his technical revision for Builder's Aggregate. I prepared the pre-mining and reclamation maps. Can you please take a look at this submittal and let us know if you have any questions or suggested revisions. We are happy to accommodate however necessary.

Please let me know that you received this ok!

Thanks so much!

Happy Thanksgiving!

Tara Schutter, PE

Tessara Water, Inc.

303-710-9108

3 attachments



TR01 Pre-Mining-Mining 11-19-18 A.pdf
1097K



TR01 Reclamation Plan 11-19-18 A.pdf
1081K



Builders Aggregate M 1981-112.PDF
1698K

Builders Aggregate M-191-112 technical revision.

A1 - The legal description is on the premining map that is provided.

C2 - The premining map and mining map is provided here in.

D3 - This is not a limited impact operation. It is a 112 permitted operation.

4, 5 - The affected land is going to be mined less than 180 days per year, so it will be an intermittent operation.

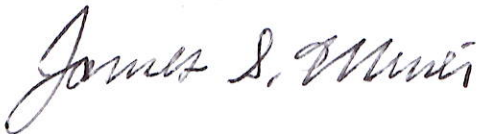
E6 - The natural resource conservation service has provided Builders Aggregate Co. with a grass seed mixture and species to be planted on the buffer zone. *See attached pages from conservation service*

F7, 8 ,9 - The reclamation map is provided herein and the land used after reclamation will be used for industrial and commercial use.

L10 - Reclamation cost : 35,000 cubic yards of material will be needed to backfill the excavation above the water table. There is more than enough fill material located on sight for this task. Also, when the temporary earthen diversion dams are removed for the final sight grading, the natural flow and river flooding over this area will also help reclaim this area, as it does approximately every two to three years. Most all of the twelve inch minus rip rap has already been placed on the south boundary, and we have the additional rip rap necessary to finish this process. The cost of backfilling the pond and final sight grading is approximately \$35,000. Cost of placing rip rap on south boundary \$3,000. Revegetation cost for the 25 foot buffer zone \$1,500.

Builders Aggregate Co.

James S. Miner

A handwritten signature in cursive script, reading "James S. Miner". The signature is written in dark ink and is positioned below the printed name.

Grass Seeding: Part I - Planned

Planner:	C. W. Scott			Date:	October 9, 2018	
Producer:	Jim Minor					
MLRA:	67	Contract/Agreement #:			Item Num:	
Seeding Operation:	Acres to be seeded:	1			Cropland:	non-irrigated
	Seedbed Prep:	Limited: less than 3 tillage operations				
	Planting Dates:	4/1/2018 to 4/30/2018				
	Planting Depth (in.):	1/4 - 1/2				
	Drill Type:	grass	Range Site: Sandy Plains			
	Drill Spacing (in.):	7-10"				
Fertilizer:	Pounds per acre recommended			(* Attach practice 590 job sheet if recommendation made)		
	Nitrogen (N)	Phosphorus (P)	Potassium (K)			
	*	*	*			
Weed Control:	Dates:	Jun. - Aug.				
	Description:	mechanical				
Cover:	Amount:					
	Description:					
	Application Method:					

Seed Recommendations:							
Species	Variety (table 6: PMTN 59)	PLS Rates Irr/Non-Irr	PLS/Ac to use (100%)	% in mix	Rate (PLS lb/ac)	Acres to be seeded	Total PLS
Western Wheatgrass	Arriba	8	8.0	60	4.8	1.0	4.8
Sideoats Grama	El Reno	4.5	4.5	20	0.9	1.0	0.9
Blue Grama	Hachita	1.5	1.5	10	0.2	1.0	0.2
		0	0.0	0	0.0	1.0	0.0
		0	0.0	0	0.0	1.0	0.0
Switchgrass	Blackwell	2	2.0	10	0.2	1.0	0.2
		0	0.0	0	0.0	1.0	0.0
Totals			16.0	100	6.1	1.0	6.1

Notes: Use adapted improved varieties and cultivars in the following order of preference, when available:

1. certified name varieties, 2. named varieties, 3. common seed

PLS = Pure Live Seed

Double drilled seeding rate to obtain broadcast seeding rate.

For critical area seedings use the irrigated rate.

Certified Planner: C.W. Scott

Date: March 12, 2012

All Ecological Sites — Rangeland

Map unit symbol	Map unit name	Component name (percent)	Ecological site	Acres in AOI	Percent of AOI
Bk	Ellicott-Glenberg complex, 0 to 3 percent slopes, occasionally flooded	Ellicott, occasionally flooded (65%)	R067BY031CO — Sandy Bottomland	13.9	13.5%
		Glenberg, rarely flooded (20%)	R067BY031CO — Sandy Bottomland		
		Las Animas, occasionally flooded (10%)	R067BY038CO — Wet Meadow		
		Ellicott sandy-skeletal, occasionally flooded (5%)	R067BY031CO — Sandy Bottomland		
EaA	Ellicott-Ellicott sandy-skeletal complex, 0 to 3 percent slopes, rarely flooded	Ellicott, rarely flooded (65%)	R067BY031CO — Sandy Bottomland	8.6	8.3%
		Ellicott sandy-skeletal, rarely flooded (25%)	R067BY031CO — Sandy Bottomland		
		Haverson (10%)	R067BY036CO — Overflow		
GP	Pits, Gravel	Pits, gravel (100%)		10.0	9.7%
HhA	Haverson sandy loam, 0 to 1 percent slopes	Haverson (90%)	R067BY024CO — Sandy Plains	3.9	3.8%
		Bijou (6%)			
		Gilcrest (4%)			
Rv	Riverwash	Riverwash (75%)		21.6	21.0%
		Fluvaquentic haplustoll (12%)			
		Bankard (6%)			
		Cascajo (4%)			
		Limon (3%)			
W	Water	Water (100%)		25.9	25.2%
Wf	Wann fine sandy loam, saline	Wann (85%)	R067BY035CO — Salt Meadow	1.0	1.0%
		Haverson (7%)			
		Limon (6%)			
		Fluvaquentic Haplustolls (2%)			
Wt	Wet alluvial land	Wet alluvial land (75%)	R067BY035CO — Salt Meadow	18.0	17.5%

Map unit symbol	Map unit name	Component name (percent)	Ecological site	Acres in AOI	Percent of AOI
		Typic Haplaquolls (12%)			
		Wann (10%)			
		Other soils (3%)			
Totals for Area of Interest				102.9	100.0%

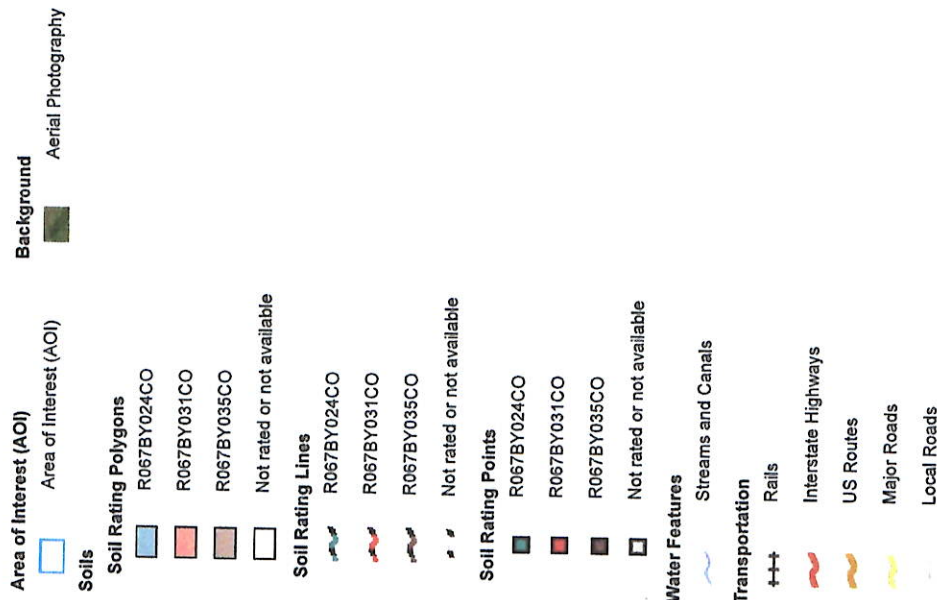
All Ecological Sites -- Rangeland—Morgan County, Colorado
(Jim Minor)



Map Scale: 1:4,530 if printed on A landscape (11" x 8.5") sheet.

Map projection: Web Mercator Corner coordinates: WGS84 Edge ties: UTM Zone 13N WGS84

MAP LEGEND



MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.
 Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Morgan County, Colorado
 Survey Area Data: Version 19, Sep 10, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 17, 2015--Sep 17, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

STATE OF COLORADO

RULE FEEDERS LLC

NORTHWEST CORNER OF THE SOUTH HALF OF THE NORTHWEST QUARTER, SECTION 31, TOWNSHIP 4 NORTH, RANGE 57 WEST OF THE 6TH P.M.

BUILDERS AGGREGATE CO.
PERMIT AREA: 43.0 ac

PINTAIL PROPERTIES LLC

DOUBLE J CONCRETE

DOUBLE J CONCRETE

WESTERN SUGAR COOPERATIVE

SOILS

MAP SYMBOL	MAP UNIT NAME
Bk	ELLICOTT GLENBERG COMPLEX
Rv	ELLICOTT GLENBERG COMPLEX
Wt	ELLICOTT GLENBERG COMPLEX
W	ELLICOTT GLENBERG COMPLEX
EaA	ELLICOTT GLENBERG COMPLEX

0 TO 3 PERCENT SLOPES

WEST ALLUVIAL LAND

1. TOPOGRAPHY GENERATED FROM LIDAR DATA DOWNLOADED FROM COLORADO GEODATA CACHE. DATA DATED OCTOBER 2013.
2. PROPERTY OWNERS FROM MORGAN COUNTY GIS DOWNLOADED PARCEL SHAPEFILES. DATA DATED MARCH 26, 2018.

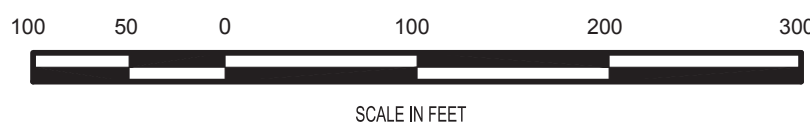
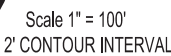


EXHIBIT C
PRE-MINING / MINING PLAN MAP

M-1981-112

[illegible]

Date:	19/NOV/18
Job No:	706
Drawn:	LD
Design:	TLS
Checked:	
Scale:	1" = 100'

Sheet:

C

Of

