June 18, 2025

Mr. Patrick Lennberg
Division of Reclamation, Mining, and Safety
1313 Sherman Street, Room 215
Denver, Colorado 80203

RE: Response to Preliminary Adequacy Review, 112c Construction Materials Permit Application Section 25 Sand Mine, Permit No. M-2025-015

Dear Mr. Lennberg:

This letter addresses the *Adequacy Review* letter dated June 4th, 2025 regarding the Section 25 Gravel Mine 112 Construction Materials Reclamation Permit Application Package. Responses to the Division's comments follow in **bold**:

EXHIBIT C – Pre-Mining and Mining Plan Map(s) of Affected Lands (Rule 6.4.3):

1. On Map C-1 please provide a table or clearly indicate on the map the coordinates, in decimal degrees, of the four corners of the permit boundary.

See attached survey plat showing the surveyed location of the four corners of the permit boundary.

2. Pursuant to Rule 6.4.3(b) and (g) the following items need to be identified on Map C-1:
• Please clearly identify the power line, and owner of the power line, that is located along the northern portion of the permit boundary.
• Another power/transmission line is in the northeast corner of the permit boundary that appears to be different from the one noted above that needs to be identified.
• In the southwest corner and within 200 feet of the permit boundary there appears to be oil and gas wells and tanks that have not been identified.
• Along the western permit boundary, near the mid-point, there appears to be a fenced storage yard, the fence should be identified.
• If there is a fence that borders the proposed permit boundary, please identify.

All items mentioned have been identified on the updated Map C-1.

EXHIBIT D – Mining Plan (Rule 6.4.4): 3. On page D-1, section a) third paragraph, it is stated that the site will contain one mining cell that is approximately 225 acres. The maps provided indicate the developed water reservoir will be approximately 222 acres but other areas outside this area may be mined as well, please clarify.

The water reservoir will be approximately 224 acres and the total mined acreage for this cell will be 396 acres. The maps and mine plan have been revised to reflect this.

Another change to the mine plan and maps is the inclusion of the mining the existing infiltration ponds. The bottom of the infiltration ponds will be mined down an additional five feet.

4. The permit and affected land boundaries are the same and that area is 640 acres. Please state what the area is of the proposed mine limit and if this will be the maximum disturbance area. Please update Map C-2 with this information as well.

The proposed mine limit for Cell 1 is approximately 396 acres. The maps and plan have been updated to reflect these changes.

5. On page D-2, under the processing header it is stated that material will be dry screened or not screened at all but under subsection (c) it states that wash cycle for the aggregate will be established, please clarify. Please clearly state if the existing lined pond will be utilized and if so in what capacity.

The plan has been updated to indicate that the aggregate will be washed and that the lined pond water will be utilized.

EXHIBIT E – Reclamation Plan (Rule 6.4.5):

6. In subsection (a) it is stated that if no reclamation phase is pen, any unsuitable materials will be stockpiled in the stockpile location shown on Map C-2. Map C-2 only indicates a topsoil stockpile location. Please clarify if this is location for overburden stockpile material. If it is, please reiterate that the overburden material will be segregated from topsoil material as stated in section 3.1.9.

The topsoil material and overburden material will be stockpiled in the same area but segregated. This has been reiterated in the plan.

7. In the reclamation plan and on Map F-1 clearly indicate the area, in acres, to be revegetated.

The disturbed areas one foot above the maximum water surface of the pond will be revegetated with the seed mix indicated. The hatch sizing has been increased on map F-1 to provide more clarity on reseeded areas.

8. On page E-5, subsection iv it is stated that the site will be revegetated with an upland seed mix. Please clarify that the seed mix to be used is the Weld County Sandy Site seed mix.

The language on page E-5 have been changed to Weld County Sandy Site seed mix.

9. Please clarify, on page E-4 subsection d second paragraph it is stated that 6-inches of topsoil will be placed in areas disturbed by mining above the high water line. On page E-6 subsection v it is stated that topsoil will be uniformly placed and spread on all areas disturbed by mining above the high water line at a minimum thickness of 12 inches. If different areas are to received different thicknesses of topsoil please clearly state that along with the anticipated area (in acres) to receive the different thicknesses. These areas should be shown or stated on Reclamation Plan Map.

All areas will receive a minimum of 6 inches. The text of the plan has been changed to be consistent in this regard.

EXHIBIT G – Water Information (Rule 6.4.7):

10. Will the source of water for dust control be the lined pond located within the permit boundary?

Correct.

EXHIBIT L – Reclamation Costs (Rule 6.4.12):

11. Please provide the dimensions of the wash plant concrete pad, footings for the office, and concrete base for the scale.

The plant will sit on a 30' by 50' by 2' concrete pad. The office has been removed from the mine plan. The concrete base for the scale will be approximately 15' x 70'.

12. Please provide the dimensions and the anticipated general construction details of the shop.

The shop has been removed from the mine plan.

EXHIBIT S – Permanent Man-made Structures (Rule 6.4.19):

13. It appears the Applicant did not submit an Exhibit S. The Division reviewed the provided maps and there are a permanent man-made structures, which the Operator needs to obtain structure agreements for, within 200 feet of the affected land boundary. Pursuant to Rule 6.4.19, Where the affected lands are within two hundred (200) feet of any significant, valuable and permanent man-made structure, the applicant shall:
• Provide a notarized agreement between the applicant and the person(s) having an interest in the structure, that the Applicant is to provide compensation for any damage to the structure; or*
• Where such an agreement cannot be reached, the applicant shall provide an engineering evaluation that demonstrates that such structure shall not be damaged by activities occurring at the mining operation; or
• Where such structure is a utility, the Applicant may supply a notarized letter, on utility letterhead, from the owner(s) of the utility that the mining and reclamation activities, as proposed, will have "no negative effect" on their utility.
** Structure agreements shall be sent by a trackable method, i.e. certified mail. In addition, the individual structure agreements shall be labeled with the certified mail number or other tracking number.*

Structure agreements have been sent out to the surrounding structure owners including, NGL Partners, Xcel Energy Transmission, Civitas Resources, and Noble Energy.

14. If the Applicant has attempted to get structure agreements from structure owners within 200 feet of the affected land boundary but have not received signed agreements, then please perform an engineering evaluation for the structures pursuant to Rule 6.4.19(b).
Other:

The stability analysis will be provided under a different letter.

15. Pursuant to Rule 1.6.2(2), please demonstrate that the Applicant's response to these adequacy issues have been placed with the application materials previously placed with the County Clerk or Recorders Office and made available for public review.

See attached confirmation email.

Please feel free to contact me with any questions or concerns at Kyle@civilresources.com or my cell number 408-930-2544.

Regards,

CIVIL RESOURCES, LLC

Kyle Regan
Project Geologist

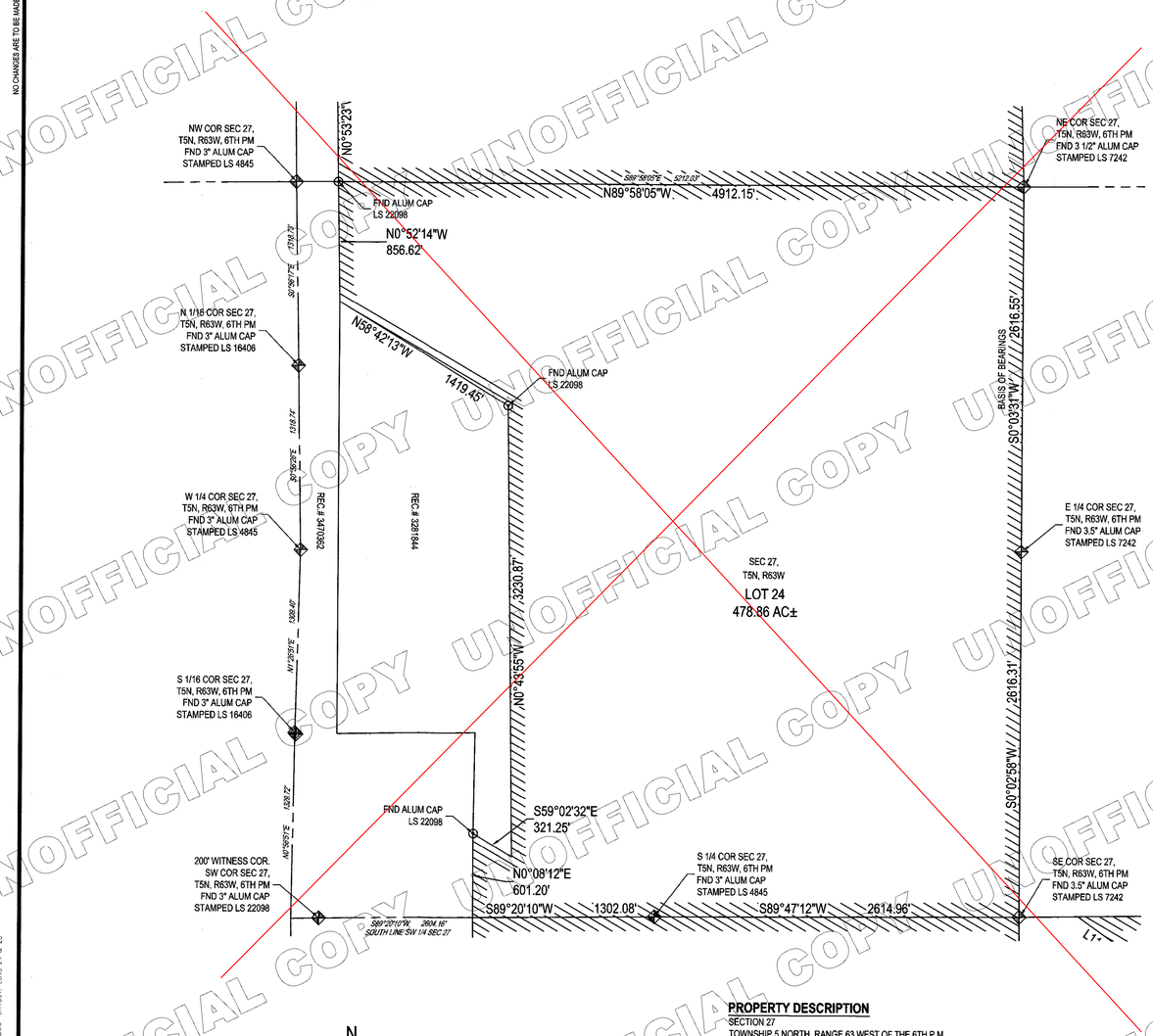
J:\United Water & San - 141\Section 20\DRMS\Correspondence\DRMS\Adequacy\ADQ Response 7.doc

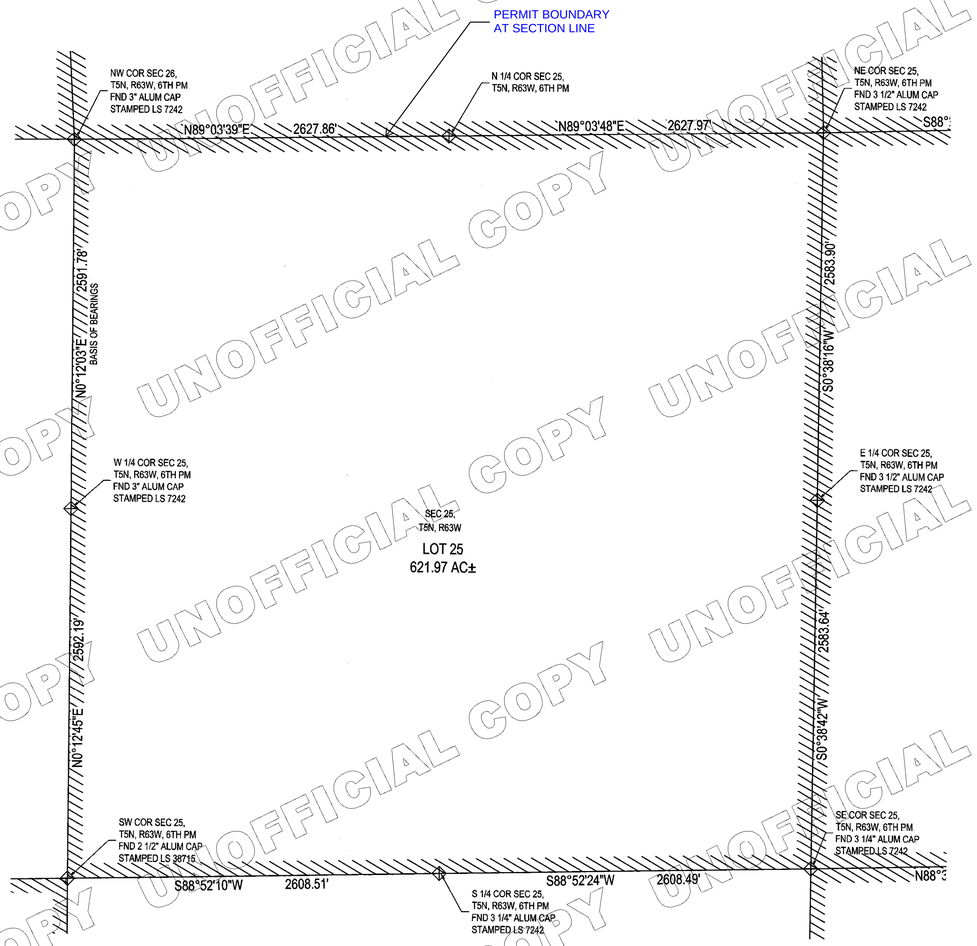
4093867 Pages: 14 of 20
03/27/2015 10:30 am Fee:$281.00
Carly Koppes - Clerk and Recorder, Weld County, CO

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT PRIOR WRITTEN PERMISSION OF SURVEY SYSTEMS INC.

CENTRAL WELD LAND SURVEY PLAT

PARCELS OF LAND SITUATED IN TOWNSHIP 4 NORTH, RANGES 62, 63 & 66 WEST,
TOWNSHIP 5 NORTH, RANGES 62, 63 & 64 WEST AND
TOWNSHIP 6 NORTH, RANGE 64 WEST,
OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF WELD, STATE OF COLORADO





N

PROPERTY DESCRIPTION

SECTION 27
TOWNSHIP 5 NORTH, RANGE 63 WEST OF THE 6TH P.M.
COUNTY OF WELD, STATE OF COLORADO.

ALSO EXCEPTING FROM SAID SECTION 27 THAT PARCEL OF LAND AS CONVEYED TO DUANE D. HELTON AND BRENDA S. HELTON BY DEED RECORDED APRIL 29, 2005 AS RECEPTION NO. 3281844.
ALSO EXCEPTING FROM SAID SECTION 27 THAT PARCEL OF LAND CONVEYED TO 70 RANCH INVESTMENT TRUST BY DEED RECORDED APRIL 20, 2007 AS RECEPTION NO. 3470362.

AND

SECTION 25
TOWNSHIP 5 NORTH, RANGE 63 WEST OF THE 6TH P.M.
COUNTY OF WELD, STATE OF COLORADO.

NOTES

1. THE PROPERTY DESCRIPTION WAS PROVIDED BY THE CLIENT.
2. PER THE CLIENT'S REQUEST NO RIGHTS-OF-WAY OR EASEMENTS ARE SHOWN ON THIS SURVEY.
3. NOTICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT, IN NO EVENT MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF THE CERTIFICATION SHOWN HEREON.
4. BASIS OF BEARINGS: THE BEARINGS ARE BASED ON THE EAST LINE OF THE NORTHEAST QUARTER OF SECTION 27, TOWNSHIP 5 NORTH, RANGE 63 WEST OF THE 6TH PRINCIPAL MERIDIAN AS MONUMENTED BY A 3.5" ALUMINUM CAP STAMPED LS 7242 ON THE NORTH AND ON THE SOUTH. SAID LINE BEARS SOUTH 0°03'31" WEST (FOR LOT 24).
5. BASIS OF BEARINGS: THE BEARINGS ARE BASED ON THE WEST LINE OF THE NORTHWEST QUARTER OF SECTION 25, TOWNSHIP 5 NORTH, RANGE 63 WEST OF THE 6TH PRINCIPAL MERIDIAN AS MONUMENTED BY A 3" ALUMINUM CAP STAMPED LS 7242 ON THE NORTH AND ON THE SOUTH. SAID LINE BEARS NORTH 0°12'03" EAST (FOR LOT 25).
6. THE UNITS FOR THIS SURVEY ARE U.S. SURVEY FEET.

COLORADO REGISTERED PROFESSIONAL LAND SURVEYOR 38026 PROFESSIONAL LAND SURVEYOR

LEGEND:

- FND SECTION CORNER AS NOTED
- FOUND PIN & CAP LS
- FOUND PIN WITHOUT CAP
- SET #5 REBAR WITH RED PLASTIC CAP LS 38026
- PLATTED/RECORD BEARING AND OR DISTANCE RELATIVE TO BASIS OF BEARING
- AS MEASURED BEARING AND DISTANCE

NXX°XX'XX"E [P] YYYY.YY' [P]
NXX°XX'XX"E YYYY.YY'

Know what's below. Call before you dig.
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

GRAPHICAL SCALE
1"=500'
-500' 0' 500' 1000'

SURVEY SYSTEMS
A Professional Land Surveying Company
P.O. Box 2168 - Evergreen, CO 80437 Tel: 303.679.8122 - Fax: 303.679.8123
Info@SurveySystems.net www.SurveySystemsInc.com
A Service-Disabled Veteran-Owned Small Business SDVOSB | SBE

CENTRAL WELD COUNTY
LAND SURVEY PLAT
LOTS 24 & 25
SECTION 27, T5N, R63W
SECTION 25, T5N, R63W

PROPERTY LOCATION AND INFORMATION			
ADDRESS:	SECTION:		
LOT:	TOWNSHIP:	4, 5 & 6 NORTH	
BLOCK:	RANGE:	62, 63, 64 & 66 WEST	
SUBDIVISION:	PRINCIPAL MERIDIAN:	6TH	
PARCEL #:	CITY:		
ZONING:	COUNTY: WELD	STATE:	COLORADO

ISSUE DATE: 2/26/14

DATE	REVISION COMMENTS

CHECKED BY: MW
DRAWN BY: CH
JOB NUMBER: 2013-325-01-123
CLIENT CODE: UNWC9

SHEET NO.
14
14 OF 20

PLOTTED: MON, 03/23/15 2:13:29P BY: JREGARD
PLOT FILE: G:\2013-325-02-123 UNWRD AND UNWCD\SURVEY\SURVEY PLAT\UNWRD-LSP-2.DWG LAYOUT: LOTS 24 & 25

UNOFFICIAL COPY

LEGEND:

- PROPOSED PERMIT BOUNDARY
- SLURRY WALL ALIGNMENT
- SOIL TYPE
- 5740 PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING BARBED WIRE FENCE

SOILS LEGEND:

- 69 VALENT SAND, 0-3% SLOPES
- 70 VALENT SANDS, 3-9% SLOPES

NORTH

0 150 300
(IN FEET)

Know what's below. Call before you dig.

CIVIL RESOURCES
323 5th STREET
P.O. Box 680
FREDERICK, CO 80530
303.833.1416
WWW.CIVILRESOURCES.COM

70 RANCH LLC.
8301 EAST PRENTICE AVE. SUITE 120
GREENWOOD VILLAGE, CO 80111
303.659.5000 (p)
CONTACT: JASON VONLEMBKE

70 RANCH SECTION 25
PROPPANT MINE
WELD COUNTY, COLORADO

REVISIONS

NO.	DESCRIPTION	DATE

DESIGNED BY: KSR
DRAWN BY: KSR
CHECKED BY: ARR
DATE: 6/18/2025
SCALE: AS NOTED
AS NOTED
JOB NO.: ####
DWG NAME: 70-RANCH MP3.DWG

EXISTING

SHEET:
EXHIBIT C1

LEGEND:

— — —	PROPOSED PERMIT BOUNDARY
— - —	SLURRY WALL ALIGNMENT
·······	PROPOSED MINE LIMIT
—5740—	PROPOSED MAJOR CONTOUR
——	PROPOSED MINOR CONTOUR
—x—x—	EXISTING BARBED WIRE FENCE

NORTH

0 150 300
(IN FEET)

811 Know what's below. Call before you dig.

CIVIL RESOURCES
323 5th STREET
P.O. Box 680
FREDERICK, CO 80530
303.833.1416
WWW.CIVILRESOURCES.COM

70 Ranch

70 RANCH LLC.
8301 EAST PRENTICE AVE. SUITE 120
GREENWOOD VILLAGE, CO 80111
303.659.5000 (p)
CONTACT: JASON VONLEMBKE

70 RANCH SECTION 25 PROPPANT MINE WELD COUNTY, COLORADO

REVISIONS

NO.	DESCRIPTION	DATE

DESIGNED BY: KSR DATE: 6/17/2025
DRAWN BY: KSR SCALE: AS NOTED
CHECKED BY: ARR AS NOTED
JOB NO.: ####
DWG NAME: 70-RANCH MP2.DWG

MINE PLAN MAP

SHEET: C-2

EXHIBIT D – MINING PLAN

The information provided in this Exhibit is intended to satisfy the requirements outlined in Section 6.4.4 of the Colorado Mined Land Reclamation Board Construction Material Rules and Regulations:

(a) Description of the method(s) of mining to be employed in each stage of the operation as related to any surface disturbance on affected lands;

The permit area includes a significant deposit of windblown sands located in dunes in Weld County. The site is located north of the South Platte River and is accessible through private roads owned by property the owner. It encompasses 640 acres (plus or minus) and consists of one slurry wall lined pond. Prior to starting construction of any slurry wall, a Technical Revision to update the site bonding will be applied for and will include the slurry wall design report.

Site Preparation:
Initial disturbance on the property will be stripping overburden and flattening the area in the northeast portion of the Site to establish the processing area footprint. An access road will be constructed to the plant area.

Mining:
The property boundary/affected land boundary is delineated by a barbed wire fence surrounding the section. The site will contain one (1) mine cell of approximately 396 acres. Excavation will start in the northeast corner of the Site to establish a flat area for the plant. After establishing the plant and access road mining will proceed from east to west. Initially, topsoil will be removed from the current phase and stockpiled in the stockpile area depicted on Map C2. Subsequent to initial stripping, the mine cell will be excavated down to bedrock with 3:1 side slopes utilizing scrapers, loaders, and/or excavators. Haul trucks will move the mined material to the plant location.

Groundwater was not encountered at the Site during exploratory drilling except in isolated areas. Since groundwater is not expected to be encountered during mining, mining will be performed in an unlined cell. There are plans to line the western side of the cell tying into bedrock at elevation 4,555 feet. The slurry wall will be utilized for water storage and will be ancillary to the mining operation. The slurry wall will be constructed once the western side of the site has been mined to 4,555 feet.

The sand deposit is an average of 30-feet in thickness and ranges from 15 feet to 45 feet deep within the windblown sand deposit. The deposit is overlain by an average of 6 inches of topsoil and no overburden. The pit is made up of the primary sand layer overlain with topsoil. An additional alluvium sand layer exists within the windblown sand deposit, found primarily in the areas approaching bedrock along the south of the site. It reaches an average thickness of 1 foot in the southernmost mining area of the main pit. The bedrock is an tan to olive-gray siltstone and some grey sandstone that exists between approximately 15 to 45 feet below the surface.

All mining will continue to the bottom of the sand deposit with 3H:1V final mining slopes along the perimeter. The active highwall will be at a near vertical slope and will progress to the halfway point of the final mining slope. This allows for the remaining highwall to be knocked down via dozer to create the completed mining slope. Slopes will then be backfilled with sand or overburden to the reclaimed 3H:1V slopes.

The operator will develop and comply with a Stormwater Management Plan and Spill, Prevention, Control and Countermeasures Plan. The operator will notify the Division of Reclamation and Mine Safety and in the event of a reportable spill.

Processing:
The material will be washed and screened or not screened at all and transported offsite by truck. The processing area will be located on the north side of the site closest to the entrance.

Import Material:
The Operator may import material from and export material to other sites. The applicant is aware that in accordance with Rule 3.1.5(9) of the Construction Material Rules and Regulations, if any offsite material is used as backfill, a notarized letter will be submitted to the Division indicating the materials are inert. The applicant will supply such a letter to the Division if, at the time of Reclamation, the applicant intends to use off-site material as backfill.

(b) Earthmoving;

Topsoil will be stripped with scrapers or bulldozers and stockpiled in segregated piles at the edge of the active mine phase or as described above and shown in Figure C-6. Excavators, front-end loaders, and bulldozers will be used to excavate the material. Haul trucks will be utilized to transport the raw material from the active mine phase to the processing area.

(c) All water diversions and impoundments;

Storm water will be discharged per a CDPHE discharge permit. There are no planned diversions or impoundments of existing water bodies. A wash cycle for the aggregate processing area will be established using the existing pond as a source and the silt pond for return flow, with natural groundwater filtration between the source pond and the return pond. Any water consumed will be provided by the existing water rights associated with the property with associated substitute water supply plan (see Exhibit G).

(d) The size of area(s) to be worked at any one time.

Each phase is approximately 30-55 acres in size. The Operator will mine multiple phases concurrently in order to obtain a range of material for production. In addition to mining, the Operator, will begin reclaiming slopes as mining is finished in each stage. Since multiple phases will be being worked at any one time, the approximate size of the areas to be worked at any one time will range from 25 acres to 120 acres and will depend on market conditions.

(e) An approximate timetable to describe the mining operation. The timetable is for the purpose of establishing the relationship between mining and reclamation during the different phases of a mining operation.

The Operator anticipates that mining will commence as soon as all permits are in place. The Operator anticipates extracting approximately 250,000 in the first year and up to 1,000,000 tons at peak capacity. Production rates will vary based on market demands. There is approximately 24 million tons of sand at the mine which will take approximately 26 years to fully mine out.

(f) Use Mining Plan Map in conjunction with narrative to present:

(i.) Nature, depth and thickness of the deposit and thickness and type of overburden to be removed

Overburden consists mainly of sandy topsoil. Overburden thickness varied across the site from non-existent to a few feet thick.

The aggregate reserves at the site consist mainly of fine windblown sand, with thin alluvium sand deposits near above. No cobble units (grain size 4" or greater), or gravel units (grain size .08" to 2.5") were encountered at the site. Sands unit thickness varied from 45 feet in BH-8 in the southern side of the site to 10-15 feet in BH-18, BH-12, in the northeastern side of the site.

(ii.) Nature of the stratum immediately beneath the material to be mined in sedimentary deposits

Depth to bedrock ranges from 45 feet in BH-15 in the southern side of the site to 11 feet in BH-18 in the northeast corner of the site. The bedrock encountered at the site consists of wet brown weathered siltstone drilled/tested to a depth of up to 10' and brown to blue/gray claystone for the first 1 to 5 feet; in the far western side of the site.

(g) Identify the primary and secondary commodities to be mined/extracted and describe the intended use.

The primary commodities are sands intended for use as proppants in oil and gas development.

(h) Name and describe the intended use of all expected incidental products to be mined/extracted by the proposed operation.

Gold may be extracted as an adjunct component of any wash equipment installed at the site.

(i) Specify if explosives will be used in conjunction with the mining (or reclamation)

No explosive material will be used on-site.

(j) Specify the dimensions of any existing or proposed roads that will be used for the mining operation. Describe any improvements necessary on existing roads and the specifications to be used in the construction of new roads. New or improved roads must be included as part of the affected lands and permitted acreage. Affected land shall not include off-site roads which existed prior to the date on which notice was given or permit application was made to the office and which were constructed for purposes unrelated to the proposed mining operation and which will not be substantially upgrades to support the mining operation. Describe any associated drainage and runoff conveyance structures to include sufficient information to evaluate structure sizing.

The affected land and permitted acreage is inclusive of over one and one-half miles of land directly abutting private roadways; there is no need for any additional driveways, and on-site haul roads will be incidental to mining areas depicted on the Mining Plan Map. No roadways

are affected by the mining operation other than access roads within the permit boundary and existing private roads to the site. The Operator will apply for a Weld County Access Permit for the site.

EXHIBIT E – RECLAMATION PLAN

This information provided in this Exhibit is intended to satisfy the requirements outlined in Section 6.4.5 of the Colorado Mined Land Reclamation Board Construction Material Rules and Regulations: The proposed mining and reclamation plan focuses on minimizing the ecological impacts of mining, minimizing the length of time of impact, and maximizing long-term benefits.

(a) A description of the type(s) of reclamation the Operator proposes to achieve in the reclamation of the affected land, why each was chosen, the amount of acreage accorded to each, and a general discussion of methods of reclamation as related to the mechanics of earthmoving;

The majority of the excavation will be reclaimed to a slurry wall lined water storage reservoir due to a need within the county and state for water storage facilities. Refer to Exhibit F for the acreages of the reservoir and additional details.

Topsoil will be stripped prior to mining and will be stored in the stockpile area depicted on map C2. Areas above the highwater line of the proposed reservoir will receive one (1) foot of the native topsoil and reseeded with the seed mix indicated on map F1. Topsoil may be replaced by a scraper or haul truck, excavator and bulldozer, and will generally be graded with a blade. All grading will be done in a manner that controls erosion and siltation of the affected lands, to protect areas outside the affected land from slides and other damage.

Reclamation will be performed concurrent with mining. Once an area has been mined to final depth reclamation on that area will begin. Materials not suitable for the proposed end use will be removed from mining phases and placed near reclamation phases or directly in the reclamation slope. If no reclamation phase is open, the unsuitable materials will be stockpiled in the stockpile location shown in Figure C-2. All disturbed areas will be regraded and smoothed to a finished grade that is suitable for revegetation.

(b) A comparison of the proposed post-mining land use to other land uses in the vicinity and to adopted state and local land use plans and programs.

The water storage reservoirs will be compatible with the other land uses in the vicinity, which includes water storage and energy exploration.

(c) A description of how the Reclamation Plan will be implemented to meet each applicable requirement of Section 3.1.

The Operator will carry reclamation to completion with reasonable diligence. Each area of reclamation will be generally completed with completion of mining, since mining will be done at a 3H:1V slope required for reclamation.

Section 3.1.5 Reclamation Measures Material Handling:

Grading will be performed to help control erosion and siltation of the affected lands through phased mining, implementing good operation techniques to handle material as little as possible, and vegetation of stockpiles remaining in place for more than 180 days with the Weld County Sandy Site seed mix:

Weld County - Sandy Site Mix
Bluestem (Champ, Chet) 1.00 lbs pls/acre
Sand Lovegrass (Bend, Native, Ne27) 2.50 lbs pls/acre
Indian Ricegrass (Nezpar, Rimrock) 3.00 lbs pls/acre
Prairie Sandreed (Goshen) 0.75 lbs pls/acre
Green Needlegrass (Lodorm) 1.50 lbs pls/acre
Little bluestem (Blaze, Cimarron, Camper) 0.75 lbs pls/acre
Yellow Indiangrass (Cheyenne, Holt, Scout) 0.50 lbs pls/acre
Switchgrass (Blackwell, Nebraska 28) 1.50 lbs pls/acre
Sand Dropseed 0.50 lbs pls/acre
Total: 12.00 pounds pls/acre

Although the use of erosion protection devices is not anticipated, if deemed necessary by the operator at the time of excavation, silt fence, haybale dams or other erosion control devices will be installed. Backfilling and grading will be completed as soon as feasible as the mining process is completed for each phase.

Maximum slopes and slope combinations will be compatible with the configuration of surrounding conditions and selected land use. Mining will occur at a slope that is stable. Reclaimed slopes in the water storage reservoir will not be steeper than a 3:1 ratio and will be mined/reclaimed at a 3:1 ratio for the slurry wall lined cell mined at 3:1 ratio. A representative sample of the fill material will be analyzed for shear strength and optimal moisture content prior to backfilling the slope. The material will be worked to the optimal moisture content as determined by Proctor compaction tests and placed back into the slope at no more than one-foot lifts. The lifts will be compacted with a sheepsfoot roller to tie lifts together. The upland area will be reclaimed to grades consistent with pre-mining drainage patterns.

The operator will backfill using fill material generated on-site, or imported inert fill generated outside the permit area. If any inert off-site material is used as backfill, a notarized letter will be submitted to the Division as required by Section 3.1.5(9) of the MLRB Construction Material Rules and Regulations.

It is not anticipated that mining will uncover any refuse or acid-forming or toxic producing materials, however if any such materials are encountered the operator will take precaution to handle the materials in a manner that will control unsightliness and protect the drainage system.

Drill or auger holes that are part of the mining operation shall be plugged with non-combustible material, which shall prevent harmful or polluting drainage. Any test pits, soils boring holes, or monitoring wells not located within the mine excavation limits will be plugged as soon as it can be confirmed that they are no longer needed for the operation.

Mined material to be disposed of within the affected area will be handled in such a manner to prevent any unauthorized release of pollutants to the surface drainage system. No unauthorized release of pollutants to groundwater shall occur from any materials mined, handled or disposed of within the permit area.

***Section 3.1.6 Water-General Requirements*:**

The Operator will comply with applicable Colorado water laws governing injury to existing water rights and with applicable state and federal water quality and dredge and fill laws and regulations.

The operator will develop and comply with a stormwater management plan and will use best management practices (BMPs) to ensure groundwater and surface water are protected to the greatest possible extent. BMPs include schedules of activities, prohibitions of practices, maintenance procedures and other management practices to prevent or reduce the pollution in runoff from the site.

***Section 3.1.7 Groundwater - Specific Requirements*:**

The Operator will comply with the applicable standards and conditions for classified and unclassified groundwater.

***Section 3.1.8 Wildlife*:**

The mining and reclamation plans have been designed to account for the safety and protection of wildlife on the mine site. The Operator will mine the site in phases and use concurrent reclamation methods to minimize the impact on wildlife. The proposed reclamation plan may improve wildlife habitat. The proposed seed mix and plantings will create improved cover, foraging, roosting, and nesting areas for wildlife. The water area within the reservoir will serve as habitat for waterfowl and other bird species and the fringes of the reservoir will be used by mammal, bird, reptile and amphibian species. Control and/or removal of noxious and weedy species during the project and the introduction of desirable graminoid, forb and potential woody species during reclamation will result in enhancement of wildlife habitat on the project site.

***Section 3.1.9 Topsoiling*:**

Topsoil shall be removed and segregated from other spoil. Topsoil stockpiles shall be stored in places and configurations to minimize erosion and located in areas where disturbance by ongoing mining operations will be minimized. Once stockpiled, topsoil shall be re-handled as little as possible. Stockpiles that will remain in place for more than one growing season will receive vegetative cover.

Section 3.1.10 Revegetation:

In those areas where revegetation is part of the reclamation plan, the land shall be revegetated in a manner that establishes a diverse, effective, and long-lasting vegetative cover that is capable of self-regeneration without continued dependence on irrigation or fertilizer and is at least equal in extent of cover to the natural vegetation of the surrounding area. The proposed seed-mix and plantings for reclamation are outlined on the Reclamation Plan Map included in Exhibit F of this application.

Section 3.1.11 Buildings and Structures:

There is a lined pond and water line that are both owned by the applicant on the property. In addition to the water infrastructure, there are five (5) plugged and abandoned wells within the permit boundary all belonging to Noble Energy.

An aggregate processing plant will be located at the site during the duration of mining operations. These structures will be removed and the areas below mined out prior to final reclamation. The plant structures are shown on Figure C-2.

Conveyors may be constructed at the site to move material from the cells to the processing plant.

Section 3.1.12 Signs and Markers:

The Operator will post appropriate signage at the entrance to the mine site. The permit area perimeter is marked by barbed wire fencing.

(d) Plans for topsoil segregation, preservation and replacement; for stabilization, compaction and grading of spoil; and for revegetation.

Topsoil will be removed and segregated from other spoil. Topsoil will likely not needed for reclamation and may be sold or removed from the site. For reclamation, mining will be done at a 3:1 reclamation slope and will not need additional placing of topsoil material. Grading shall be done in a manner that controls erosion and siltation of the affected land and protects areas outside the affected land from slides and other damage. In addition, backfilling and grading shall be completed as soon as feasible during the mining process.

Final grading will create a final topography that is appropriate for the final land use. For example, final grading of the reservoir above the high water line will replace material no steeper than 3:1 slope to meet the grade at the top of the banks. Topsoil will be uniformly placed and spread on areas disturbed by the mining, above the anticipated high water line. The minimum thickness shall be 6 inches above the surrounding finished grade. The topsoil shall be keyed to the underlying and surrounding material by the use of harrows, rollers or other equipment suitable for the purpose.

In those areas where revegetation is part of the reclamation plan, the Operator will revegetate the land in such a manner to establish a diverse, effective, and long-lasting vegetative cover that is capable of self-regeneration without continued dependence on

irrigation or fertilizer and is at least equal in extent of cover to the natural vegetation of the surrounding area. Seed will be drilled and mulched.

The revegetation seeding and plant list on the Reclamation Plan Map contains the preferred species of grasses, shrubs and trees to be planted.

Seeding will take place once final grading and replacement of topsoil have been completed for each phase. Timing of seeding will be consistent with standard horticultural practice for dryland applications - generally between late September and the middle of April to ensure there is adequate moisture for germination.

(e) A plan or schedule indicating how and when reclamation will be implemented. Include:

i. An estimate of the periods of time which will be required for the various stages or phases of reclamation.
Reclamation for any given stage of mining may take up to five years to allow for successful revegetation. Please refer to the Timetable for Mining and Reclamation in Section (e) of Exhibit D.

ii. A description of the size and location of each area to be reclaimed during each phase.

Please refer to the Reclamation Plan Map (Exhibit F).

iii. Outlining the sequence in which each stage or phase of reclamation will be carried out.
Please refer to the Timetable for Mining and Reclamation in Section (e) of Exhibit D.

(f) A description of:

i. Final grading – maximum anticipated slope gradient or expected ranges thereof;
The finished slopes of the reservoir will be no steeper than 3:1 for slopes mined at a 3:1.

ii. Seeding – types, mixtures, quantities and time of application;
The operator will utilize the Weld County Sandy Site Seed Mix which is listed above and on the Reclamation Plan Map. The operator will seed during the appropriate season to ensure adequate moisture for germination and implement weed controls to allow the grasses to successfully establish. Additional plantings may be installed once the reservoirs are full of water and the grasses are established.

All disturbed areas 1 foot above the maximum water surface elevation will be seeded.

iii. Fertilization – types, mixtures, quantities, and time of application;
The type and application rate of fertilizer shall be determined based on a soil test at the time of final reclamation.

iv. Revegetation – types of trees, shrubs, etc.;

The site is historically windblown dunes and cattle grazeland . The site will be revegetated with the Weld County Sandy Site grass seed mix in areas that are above the highwater line.

v. *Topsoiling – specify anticipated minimum depth or range of depths for those areas where topsoil will be replaced.*

Topsoil will be uniformly placed and spread on all areas disturbed by the mining above the anticipated high water line and areas graded back to native grade. The minimum thickness shall be 6 inches above the surrounding finished grade.

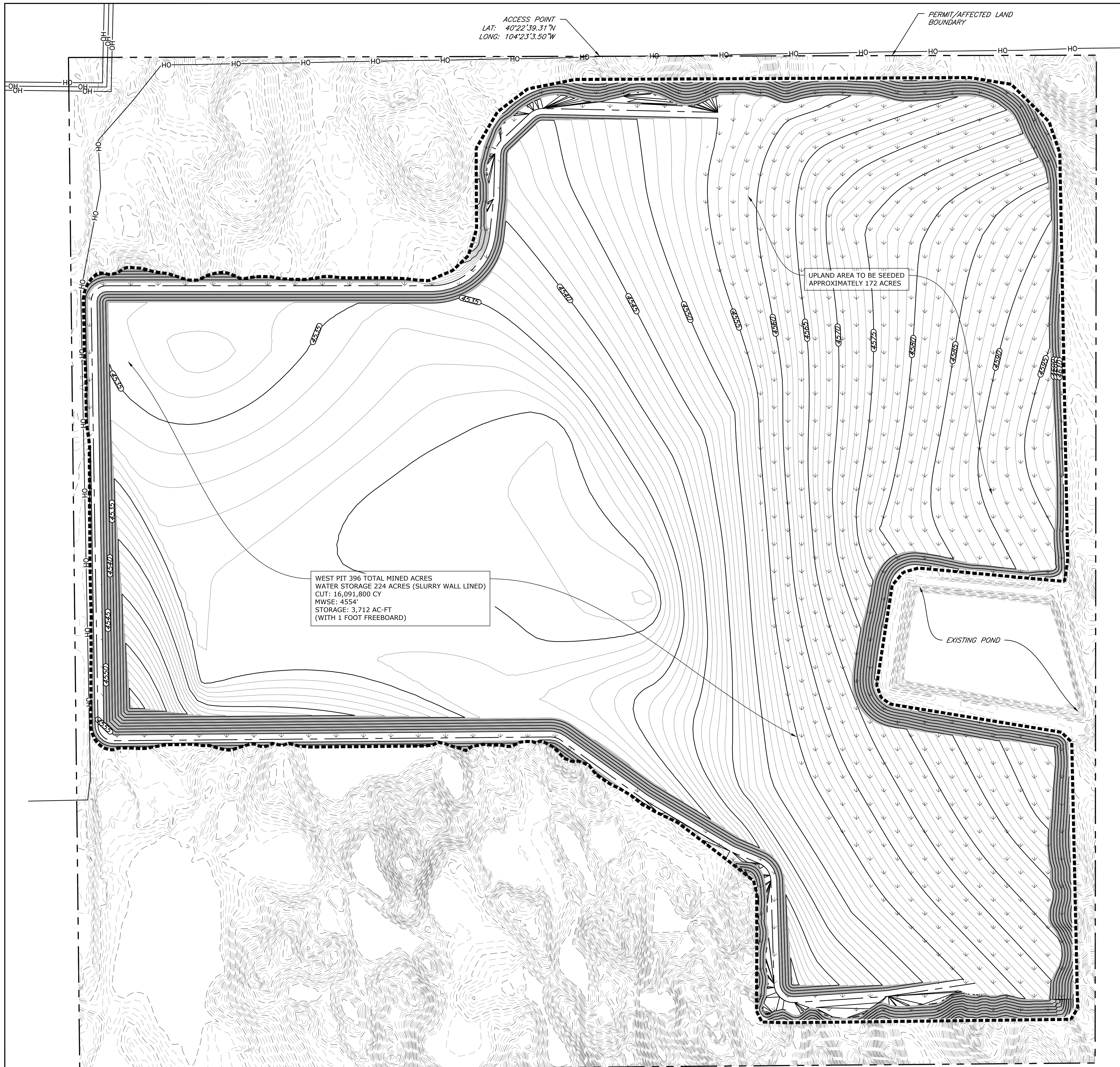
WEED MANAGEMENT PLAN

Noxious weeds will be eradicated or managed within the Section 25 Sand & Gravel Mine operations areas. Noxious weed species to be managed are defined as those plant species currently identified by the Colorado State Department of Agriculture (CDA) as noxious under the Colorado Noxious Weed Act. Management efforts will be directed to those species identified under List A or List B by the CDA. List A species are required to be eradicated, while List B species will be controlled.

The noxious species are not listed here as the list of noxious species changes regularly. The Colorado State Department of Agriculture maintains a list of noxious weed species on their web site (https://www.colorado.gov/pacific/agconservation/noxious-weed-species).

The presence of noxious weeds will be monitored annually during the summer growing season at the Section 25 Sand & Gravel Mine site. Weed management measures will be undertaken where a single or combination of noxious weed species comprises or shows a deleterious effect to more than ten (10) percent of the live site vegetation. Further, where noxious weed species or plant pests constitute more than 25 percent relative vegetation cover in a contiguous area of 1000 square feet, the area will be identified as requiring weed management.
Noxious weeds will be controlled by any combination of cultural, mechanical, biological or chemical measures. Weed control measures will be developed specifically for the noxious weed species encountered and in conjunction with the local county weed control district and/or the Colorado State Department of Agriculture. Weed control measures will be undertaken by trained and/or licensed (if required by law) personnel. Weed management control will initiate within two weeks of noxious weed identification at any operation, or as specified by the county weed control specialist.

Where noxious weed control measures cause elimination of vegetation at a revegetated site, seeding or planting of desirable replacement vegetation will occur during the first normal planting or seeding season after weed control measures have been implemented.



SEED MIX:

Bluestem (Champ, Chet)	1.00 lbs pls/acre
Sand Lovegrass (Bend, Native, Ne27)	2.50 lbs pls/acre
Indian Ricegrass (Nezpar, Rimrock)	3.00 lbs pls/acre
Prairie Sandreed (Goshen)	0.75 lbs pls/acre
Green Needlegrass (Lodorm)	1.50 lbs pls/acre
Little bluestem (Blaze, Cimarron, Camper)	0.75 lbs pls/acre
Yellow Indiangrass (Cheyenne, Holt, Scout)	0.50 lbs pls/acre
Switchgrass (Blackwell, Nebraska 28)	1.50 lbs pls/acre
Sand Dropseed	0.50 lbs pls/acre
Total:	12.00 pounds pls/acre

LEGEND:

- PROPOSED PERMIT BOUNDARY
- SLURRY WALL ALIGNMENT
- PROPOSED MINE LIMIT
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING BARBED WIRE FENCE
- REVEGETATED AREAS

NORTH

0 150 300
(IN FEET)

811 Know what's below. Call before you dig.

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323 5th STREET
P.O. Box 680
FREDERICK, CO 80530
303.833.1416
WWW.CIVILRESOURCES.COM

70 RANCH LLC.
8301 EAST PRENTICE AVE. SUITE 120
GREENWOOD VILLAGE, CO 80111
303.659.5000 (p)
CONTACT: JASON VONLEMBKE

70 RANCH SECTION 25 PROPPANT MINE WELD COUNTY, COLORADO

REVISIONS

NO.	DESCRIPTION	DATE

DESIGNED BY: KSR DATE: 6/17/2025
DRAWN BY: KSR SCALE: AS NOTED
CHECKED BY: ARR AS NOTED
JOB NO.: ####
DWG NAME: 70-RANCH MP2.DWG

RECLAMATION PLAN MAP

SHEET: F-1

EXHIBIT L - RECLAMATION COST

Activity	Quantity	Units	Unit Costs	Cost
A. Area Above Highwater Line (Equipment: Excavators, Dozers, Tractor, Water Truck)				
1 Remove concrete pad for wash plant	33	CY	$ 65.00	$ 2,164.50
2 Remove concrete base for scale	111	CY	$ 65.00	$ 7,215.00
3 Scarify ground	172	Acres	$ 150.00	$ 25,810.80
4 Spread 6" topsoil	138,666	CY	$ 1.50	$ 207,998.90
5 Seed and Mulch	172	Acres	$ 900.00	$ 154,864.79
			Subtotal	$ 398,054.00
B. Slurry Wall @ 100% Installation Cost ($10.50 per SF) per DRMS Bonding Requirement. Slurry wall will not be constructed for more that 2 years. Equipment used- Excavators, Dozers, Scrapers, Water Truck (BOND AT A LATER DATE)				
Slurry Wall @100%, 320,600 linear feet of slurry wall approx 40' deep	320,600	SF	$ 10.50	$ -
			Subtotal	$ -
Total Disturbance Costs				**$ 398,054.00**
Indirect Costs				
Overhead & Profit				
Performance Bond (2.02%) - Based on DRMS estimate				$ 8,040.69
Performance Bond (3.07%) - Based on DRMS estimate				$ 4,179.57
Job Superintendent (240 hours @ $75/hr) - Based on DRMS estimate				$ 18,000.00
Contractor Mob and DeMob (3%) - Based on DRMS estimate not including slurry wall				$ 11,941.62
Contractor Overhead and Profit (10%) - Based on DRMS estimate not including slurry wall				$ 39,805.40
			Subtotal	$ 81,967.28
Contract Amount (direct + O & P)				**$ 480,021.27**
Legal, Engineering & Project Management				
Financial warranty processing (legal/related costs) ($500)				$ 500.00
Engineering Work and/or contract/bid preparation (4.25%)				$ 20,400.90
Reclamation management and/or administration (5%) - Based on DRMS estimate				$ 24,001.06
Contingency (3%)				$ 11,941.62
			Subtotal	$ 56,843.59
Total Indirect Costs				$ 138,810.86
Total Bond Amount				$ 536,865

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