April 9th, 2020

Mr. Eric Scott
Division of Reclamation, Mines, and Safety
1313 Sherman Street, Room 215
Denver, Colorado 80203

RE: Preliminary Review of a 112 Construction Materials Reclamation Permit Amendment Application Package AM03, Bestway Concrete Company, Permit M1998-013 -AM03; Response

Dear Mr. Scott:

This letter is being generated to satisfy the preliminary review dated August 21, 2019 for the Bernhardt Gravel Mine. The italicized items are the current comment and the bold text are the responses:

The Division of Reclamation, Mining, and Safety has completed its preliminary adequacy review of your 112 construction materials reclamation permit amendment application. The application was called complete for review on February 19, 2020. All comment and review periods began February 19, 2020. The decision date for this application is May 19 2020. Please be advised that if you are unable to satisfactorily address any concerns identified in this review before the decision date, it will be your responsibility to request an extension of the review period. If there are outstanding issues that have not been adequately addressed prior to the end of the review period, and no extension has been requested, the Division will deny this application. In order to allow the Division adequate time to review your responses to any adequacy issues, please submit your adequacy responses to the Division no later than one week prior to the decision date (May 12, 2020).

Please note that any changes or additions to the application on file in our office must also be reflected in the public review copy, which has been placed with the Weld County Clerk and Recorder. - Acknowledged.

The review consisted of comparing the application content with specific requirements of Rule 6.1, 6.2, 6.4 and 6.5 of the Minerals Rules and Regulations of the Colorado Mined Land Reclamation Board for the Extraction of Construction Materials. As with most applications, there are items that will require clarification of the existing information. Any inadequacies are identified under the respective exhibit heading.

APPLICATION FORM:
Item 3: Permitted Acreage – The change in permit acreage shown on line 3.1 of the application form is 140.7 acres, however the legal description provided as Exhibit A gives an acreage total of 159.148. Please revise as necessary and/or identify the reason for the acreage discrepancy. – Exhibit A has been updated to show the same acreage as the plan-set/maps. The Vogl Property contains 159.148 acres but the permit boundary is 140.7 acres as a portion (~15.1 acres) of the northeast part of Vogl will not be mined or permitted. See updated maps.

Signature Page – The corporate seal for the Burnco Corporation has not been provided as required on the signature page. If you wish I can return the executed page to you for correction, or you may complete a new signature page. – The signature page has not been changed. The bonding representative at the DRMS was contacted and a response is pending (see attached email).

6.2 GENERAL REQUIREMENTS OF EXHIBITS

6.2.1 General Requirements

(1) This Rule provides for the guidelines for, and information requirements of, each Exhibit required to be submitted with the permit application, as specified according to Section 6.1.

(2) Maps and Exhibits Maps, except the index map, must conform to the following criteria: - The maps were submitted with signatures and the dates prepared. See attached.

(a) show name of Applicant; - The maps were submitted with signatures and the dates prepared. See attached.

(b) must be prepared and signed by a registered land surveyor, professional engineer, or other qualified person; The maps were signed by Andy Rodriguez P.E. with Civil Resources and Mark Johnson with Bestway Concrete/Burnco Colorado, LLC.

(c) give date prepared; - The date prepared is shown on the cover sheet and the submittal package as February 2, 2020.

(d) identify and outline the area which corresponds with the application; - This is shown on the submitted maps.

(e) with the exception of the map of the affected lands required in Section 34-32.5-112(2)(d), C.R.S. 1984, as amended, shall be prepared at a scale that is appropriate to clearly show all elements that are required to be delineated by the Act and these Rules. The acceptable range of map scales shall not be larger than 1 inch = 50 feet nor smaller than 1 inch = 660 feet. Also, that a map scale, appropriate legend, map title, date and a north arrow shall be included. – All scales are within this range.

Please provide a set of maps that conforms to the above scale requirements. You may use color on the maps as needed to make the appropriate information easily identifiable. As a general note, it appears that the 200' offset line for the permit boundary on the provided maps is shown as "property line" in the legend provided.- The maps have been updated and the permit boundary v. property line has been corrected.

EXHIBIT A - Legal Description (Rule 6.4.1): Please see previous comment for item 3 of the Application form. Please also specify that the legal description provided is only for the new area to be amended to the previously permitted area. You may provide a legal description of the previously permitted area as well for clarity if you wish. The maps Cover Sheet and Exhibit A have been updated to show and describe the area to be permitted.

EXHIBIT C - Pre-mining and Mining Plan Map(s) of Affected Lands (Rule 6.4.3):
Please show the proposed locations of topsoil and overburden stockpiles on the mining plan map. The majority of the stockpiles will occur at Pond A on the main Shores Site. The overburden from Cell 1 will be stockpiled in thirds and then pushed back by dozers to native grade. The remaining overburden from the other mining cells will be used to restore Cell 1 back to native grade.

EXHIBIT D - Mining Plan (Rule 6.4.4):
The last sentence in the first paragraph of section (a) seems to be incomplete – please edit as needed.
This has been updated.

The site preparation paragraph states that some structures within the amended/permit area will be removed and some will remain. Please show the structures to be removed/kept on the mining plan map. All structures to remain.

Section (c) states that water required to operate the facility will likely be provided by existing water rights associated with the property. Which property is being referred to, and are the water rights referred to currently approved for this kind of consumptive use? Later in the application it is stated that the site will be reclaimed as "dryland" because there are no water rights. Please edit for consistency. – The property owners do own water rights, should those specific water rights be used they will have to be included in an SEO approved Substitute Water Supply Plan (SWSP). The areas will be reclaimed as water storage and irrigated lands. The amended portion of the property will be included in the main properties SWSP and submitted to the SEO for approval. The miner will not expose or put waters to beneficial use until the SWSP is approved.

Section (f)(i) – what is the approximate thickness of the overburden on the amended property? - The approximate thickness ranged from two to five feet.

At what point in the mining of the amended property will the slurry walls/spillways for cells 2A and 3 be installed? – The slurry wall will be installed in approximately 18 months. The spillways will not be installed until reclamation, which typically coincides with the end of each phase.

What activity is planned for the approximately 20 acre area north of the section line north of Cell 3? It appears that this area may contain sensitive areas such as wetlands, and there is no discussion of use in the mining plan or anything shown on the mining plan map. If that area is not going to be affected, why is it included in the proposed permit area? – This area contains a few mineable areas, the chances of the miner mining these areas is very remote but they would like to have the option if it is viable, that is why there are no cells shown on the maps but it would be beneficial to keep this area in the permit than do an amendment in the future. A wetlands and wildlife study was performed as shown on the plans showing more sensitive areas which the miner intends on avoiding. The entire property boundary was not included in the permit boundary as the miner is aware that the area to the north is not a viable resource.

What type of conveyor crossings are proposed to move material across the county roads, and what approvals will be required prior to construction of the conveyor crossing(s)? – The conveyor crossing will require a crossing agreement with Weld County and further a fully approved Use by Special Review submittal. Bestway has obtained crossing agreements with the County in the past and will inform the County of this request during the Use by Special Review Process. The miner will not proceed with a crossing until the agreement is obtained.

What, if any, replacement will be provided for the function of the private lateral that will be removed during mining of Cell 1? – The private lateral is owned by the property owner and the property owner is in agreement that removing and rebuilding the private lateral is the most economical way to mine Cell 1. No further irrigation occurs downstream of the privately owned lateral. The lateral will either be built back to its existing location or relocated to the west. Current survey of the entire area with detailed spot elevations has been obtained.

EXHIBIT E - Reclamation Plan (Rule 6.4.5):

Pond E has been omitted from the summary of the Main Shores Mine Area. Has the clay liner for Pond E been approved by the SEO? This has been updated. Pond E has been approved by SEO.

Section (a) states that the mined area will be returned to existing grade. Would it be correct to assume that this is only applicable to all areas other than Cells 2A and 3? The mined area in Cell 1 will be returned to native grade. The other areas will be reclaimed water storage.

Section (a) states that once the site is returned to pre-mining grade, the site can return to being farmed. The reclamation plan provided (6" topsoil replaced, dryland grass seed mix, etc.) does not appear to lend itself to crop production or pastureland. What type of farming is proposed? If farming is not proposed, please revise as appropriate. – Farming is proposed, the miner will replace the entire site with a mix of wash fines and overburden. These material are well suited for farming.

EXHIBIT F - Reclamation Plan Map (Rule 6.4.6):

Figure 6 shows Pond A as reclaimed to native grade, please revise as appropriate. – A small section of Pond will be reclaimed to native grade. The plans have been updated to be more specific.

EXHIBIT G - Water Information (Rule 6.4.7):

(2) If the operation is expected to directly affect surface or groundwater systems, you shall:

(a) Locate on the map (in Exhibit C) tributary water courses, wells, springs, stock water ponds, reservoirs, and ditches on the affected land and on adjacent lands where such structures may be affected by the proposed mining operations; - All water courses and water features are shown.

Residential wells referred to in Exhibit G(a) are not shown on the provided figures for existing conditions, or structures (Figures 2 and 3). The figures and maps have been updated to show the wells listed in Exhibit G. Owners names do not typically get updated so please cross reference the permit numbers as verification was used from the Weld County Assessor's chain of title.

Rule 3.6.1(1) of the Minerals Rules and Regulations of the Colorado Mined Land Reclamation Board for the Extraction of Construction Materials states: "Disturbances to the prevailing hydrologic balance of the affected land and of the surrounding area and to the quantity or quality of water in surface and groundwater systems both during and after the mining operation and during reclamation shall be minimized…" To address these concerns, a Groundwater Mitigation Plan was provided by the operator to supplement the information provided for exhibit G. After reviewing the provided Groundwater Mitigation Plan DRMS has the following comments and additional requirements.

The Lee Well is not shown on the map provided. – This well is shown on the updated maps and figures, permit #298013-A.

Neumann Well is referred to in text of plan, but not shown on map. This well is shown on the updated maps and figures, permit #226509-A.

Rindour Well is shown on map, but not referred to in the text of the plan. This well is shown on the updated maps and figures and referenced in the groundwater memo. The Neumann well us eto be the Rindour well.

Please provide a table/figures showing all available monitoring data and trends over time for the eight wells listed, not just average values. A table showing all the data has been provided.

DRMS will require 2 more groundwater monitoring wells adjacent to Cell 1; one on the west side/southwest corner, and one near the southeast corner. These wells should be installed and made part of the monthly

groundwater level monitoring program as soon as possible. – Acknowledged, this has been scheduled. Data will be provide once these wells have been drilled.

DRMS will also require the permittee to attempt to document background conditions in the five listed domestic alluvial wells prior to initiating dewatering activity associated with AM03. In order to minimize the impacts to the hydrologic balance, it is vital to determine what the existing "pre-mining" conditions are for wells that may be impacted. This data is especially important for this site, where mining activity has already been documented to have potential adverse impacts on nearby alluvial wells. For the five listed domestic wells, DRMS will require that the permittee attempt to obtain the following data, in addition to whatever basic well construction data is currently available: A table has been attached showing the data. The miner will reach out via personal communication and a certified mailing requesting data directly to the property owners adjacent to the west of Phase 1 to discuss testing their wells and obtaining the requested data (Lee, Bielz, Neumann & Ailor).

Total well depth,

Depth to static water level,

Depth of pump intake

Conduct pump test to determine well yield

Conduct analytical sampling of all Domestic Drinking Water parameters

All data collection will be completed at the permittee's expense. Data will be provided to DRMS and the well owner upon their request. If a well owner chooses not to allow the permittee access to collect the above data, they should be provided with a form that they can sign and date to document that they have been provided with an opportunity to have their well characterized at the permittee's expense, but have chosen to decline to participate. None of the wells are used for drinking water as all of these residents are on a municipal water supply. The miner sent a certified mailing and agreement to the surrounding well owners listed above. A copy of the mailing is attached to this response, once the proof of delivery has been received a copy will be provided to the DRMS.

If during the course of mining or reclamation complaints from a well owner are received by the permittee, the permittee will commence an evaluation and investigation, including providing replacement water to the well owner if necessary, within 48 hours. DRMS shall be notified within two business days of the complaint and the proposed initial steps for the evaluation of the complaint. A written report will be submitted to DRMS within 30 days detailing the information collected during the investigation of the complaint, and proposed mitigation activity, if required. Please make the appropriate edits to the Groundwater Mitigation Plan, and acknowledge the additional DRMS requirements listed above. – The miner acknowledges this.

EXHIBIT L - Reclamation Costs (Rule 6.4.12): All information necessary to calculate the costs of reclamation must be submitted and broken down into the various major phases of reclamation. You must provide sufficient information to calculate the cost of reclamation that would be incurred by the state. The tables include updated costs and should any backup costs be required they can be provided.

The reclamation costs will be calculated when all remaining adequacy issues have been resolved. At this time, DRMS notes that the mining plan states that Cells 2A and 3 will be mined at 2:1 slopes, but no volumes or costs have been provided for backfilling from 2:1 to the required final 3:1 internal slopes. – The tables have been update slightly. Cell 1 and 2b will be mined at 2:1 and reclaimed to native grade, therefore fully backfilled. There is approximately 390,000 cubic yards of additional overburden for backfill on the Vogl site, this material is designated for backfill. Plus an additional of 410,000 cubic

yards in the bond so a total of 800,000 cubic yards available for backfill. The Vogl site will require 530,000 cubic yards and the Shore Site will require ~270,000 cubic yards for a total of 800,000 cubic yards of backfill.

The costs are included under Phase 1 of the cost estimate table, but there has been no additional cost for Pond 2b on the Vogl site as that pond might not be mined for about 5 years. Bonding of that site will be require once that area is mined.

EXHIBIT M - Other Permits and Licenses (Rule 6.4.13):

Please list the appropriate permits that the operator has obtained for the existing operation and any additional permits required, or existing permits that may require modification, for the proposed additional areas/activities. It seems likely that, at least, the Weld County permitting will require modification for the additional area, and for the proposed conveyor crossing of the county roads.

The miner will obtain:

- CDPHE discharge permit. There is currently an active one for the Shores Gravel Mine.
- A Weld County Use by Special Review and any further crossing or right-of-way agreements.
- A renewed Substitute Water supply Plan.

EXHIBIT N - Source of Legal Right to Enter (Rule 6.4.14): - See updated legal right to enter documents.

Exhibit O states that the property to be amended into the permit is owned by Jerrilyn Sitnar; Richard Vogl and Margaret Vogl, however, the legal right to enter provided is only executed by Jerrilyn Sitnar. Please provide executed agreements with all property owners, or provide documentation that demonstrates that Jerrilyn Sitnar has the authority to execute the agreement on behalf of the Vogls. - See updated legal right to enter documents.

EXHIBIT S - Permanent Man-Made Structures (Rule 6.4.19): Please note that roadways and above-ground or underground utilities (if present) within 200 feet of the proposed affected area are considered permanent man-made structures. In accordance with Rule 6.4.19, when mining operations will adversely affect the stability of any significant, valuable and permanent man-made structure located within 200 feet of the affected area, the applicant may either: All roadways and utilities were taken into account when performing the stability analyses. In all cases, roadways and utilities, if not specifically mentioned in the stability analyses, are further away from the mining and are more stable than the structures specifically mentioned each section analyzed. A structure agreement has been sent to all structure owners. See attached table and proof of delivery. A structure agreement has been sent to all structure owners. See attached table and proof of delivery.

(a) 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; - Notarized agreements have been obtained from Central Colorado Water Conservancy District, the Doyle residents and the Conway residents and Central Weld Water District.

or

(b) Where such an agreement cannot be reached, the applicant shall provide an appropriate engineering evaluation that demonstrates that such structure shall not be damaged by activities occurring at the mining operation. – A stability report has been provided to the DRMS and a copy is on file at the County. All structure owners were provided an agreement.

Please provide evidence (certified letter to structure owners) that a notarized agreement between the structure owners and the applicant was pursued. Due to the large number of structure agreements required for this application it will likely be useful to provide a separate figure depicting the utilities and structures within 200 feet of the permit cross-referenced with a table for the ownership of the structure. A table and map showing all the structure owners is attached along with a figure showing all residents within 200-feet. During this cross check one resident was missed during the notification period (Bauer, Jeffry south of Pond D, over 200' from the disturbed area and just inside the 200' offset from the permit boundary so a notification was sent). Mountains Shadows HOA was notified but a structure agreement was not sent there way as they own a right-of-way south of Pond D, we followed up with a structure agreement mailing.

If an agreement is unable to be reached a geotechnical assessment may be provided to demonstrate that the structures shall not be damaged. You must provide information sufficient to demonstrate that the stability of any structures located within two hundred (200) feet of the operation or affected land will not be adversely affected. A stability analysis has been performed.

DRMS notes that a geotechnical evaluation has been provided with the amendment submittal package. - A stability analysis has been performed.

The provided stability report states that it was prepared for the Nix Gravel Mine and refers to the Nix site within the text of the report. Please correct as appropriate and verify that the data contained in the provided report is correct for the Shores amendment. – This is typo and the report references the correct property.

Please provide a figure that shows where sections H, and I in Pond A are located as referred to in Table 1. Stability Figures 2 shows the location of Section H & I. The stability report is attached to this response. The entire report was not reattached just the updated text and Figure 2.

Was any analysis done to verify the offsets are sufficient between Cell 2A and the structures located to the east? Also for structures located on the SE corner, south site and west sides of Cell 3? All structures are safe as the critical structures is closer to the mine and/or with taller highwalls were analyzed so any structure that is further from the mine high wall is safer than the reported numbers in the stability analysis.

Additional Information: You will also need to provide the Division with proof of notice publication as well as proof of notice to surrounding property owners within 200' of the permit. As with Exhibit S, due to the large number of adjacent property owners within 200 feet of this application, it will likely be useful to provide a separate figure depicting the property owners within 200 feet of the permit cross-referenced with a table for the ownership information. – See attached property owner and structure tables, along with a crossed referenced table on Sheet 3 showing property owners in red in the upper right (a property owner that was also sent a structure agreement has "*S" next to its name). Structure owners are shown in green and the property owners that have structures are also shown in green in the lower left hand corner.

With such a large amount of property owner, continued effort was put forth to notify all the residents using the Weld County Assessors records. Some notifications were returned as undeliverable. A copy of the certified mail deliveries, and the status of the deliveries is attached to this response along with a cross reference table on Sheet 3 of the maps.

Any letters from other commenting agencies/entities received by the Division for this permit to date are available for review through the imaged document data link provided below, or through the DRMS website. https://www.colorado.gov/pacific/drms/data-search

This concludes the Division's preliminary adequacy review of this application. This letter shall not be construed to mean that there are no other technical deficiencies in your application. Other issues may arise as additional information is supplied. Please remember that the decision date for this amendment application is May 19, 2020. As previously mentioned, if you are unable to provide satisfactory responses to any inadequacies prior to this date, it will be your responsibility to request an extension of time to allow for continued review of this application. If there are still unresolved issues when the decision date arrives and no extension has been requested, the application will be denied. If you have any questions, please contact me at (303) 866-3567 x8140.

Included in this response is:

- A copy of all the 200' spacing and structure agreement proof of mailings.
- Sign posting photo.
- DOW due diligence, an extensive wildlife assessment and wetlands study has been performed on the site along with an onsite visit with the Corp of Engineers. This data has been attached. The miner does not plan to remove any cotton wood trees and the miner will re-survey the site for active raptor nesting prior to commencing.
- Copy of the proof of advertisement.

If there are any questions please do not hesitate to call or email me.

CIVIL RESOURCES, LLC

Andy Rodriguez, P.E

Encl:

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MAPS/PLANS

DIVISION OF RECLAMATION MINING AND SAFETY PERMIT M-1998-013-AM03

BESTWAY CONCRETE & AGGREGATE

SHORES GAVEL MINE AM03 - VOGL AMENDMENT

WELD COUNTY, COLORADO

SET #:_____

PERMIT BOUNDARY DESCRIPTION:

AMENDED PARCEL DESCRIPTION (140.7 AMENDED ACRES +/-):

PROPERTY DESCRIPTION (FROM TITLE COMMITMENT)

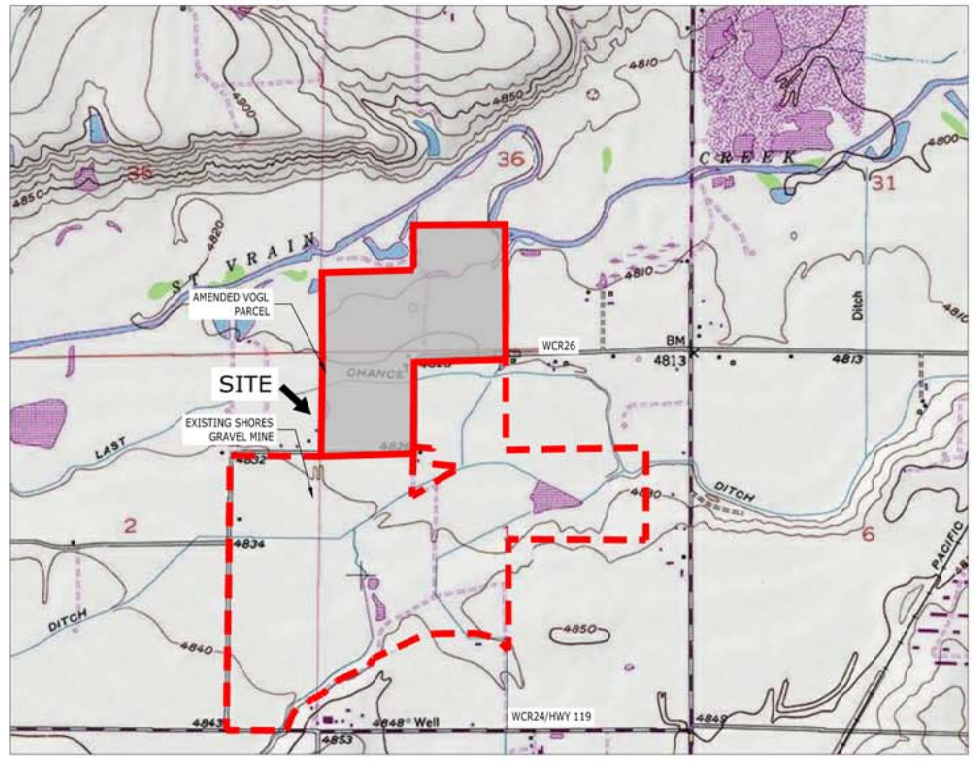
PARCEL 1:
THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER (NW ¼ NW ¼) OF SECTION ONE (1), TOWNSHIP 2 NORTH, RANGE 68 WEST OF THE 6TH P.M., COUNTY OF WELD, STATE OF COLORADO;

PARCEL 2:
THE EAST HALF OF THE SOUTHWEST QUARTER (E ½ SW ¼) OF SECTION 36, TOWNSHIP 3 NORTH, RANGE 68 WEST OF THE 6TH P.M., COUNTY OF WELD, STATE OF COLORADO; A PORTION OF THIS PARCEL WILL BE EXCLUDED IN THE PERMIT BOUNDARY CONSISTING OF 15.1 ACRES.

PARCEL 3:
THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER (SW ¼ SW ¼) OF SECTION 36, TOWNSHIP 3 NORTH, RANGE 68 WEST OF THE 6TH P.M., COUNTY OF WELD, STATE OF COLORADO.

ORIGINAL PERMIT BOUNDARY (370.1 ACRES +/-):

A PARCEL OF LAND LOCATED IN SECTION 1 AND THE EAST ONE-HALF OF SECTION 2, TOWNSHIP 2 NORTH, RANGE 68 WEST OF THE SIXTH PRINCIPAL MERIDIAN, TOWN OF FIRESTONE, COUNTY OF WELD, STATE OF COLORADO (309.8 ACRES +/-) & LOT B OF RECORDED EXEMPTION NO. 1313-1-2-RE 2024, RECORDED AUGUST 7, 1997 IN BOOK 1620 AT RECEPTION NO. 2562346, BEING A PART OF THE EAST 1/2 OF THE NORTHWEST 1/4 OF SECTION 1, TOWNSHIP 2 NORTH, RANGE 68 WEST OF THE 6TH P.M., COUNTY OF WELD, STATE OF COLORADO (60.3 ACRES +/-).



PROJECT LOCATION MAP

SCALE: NTS

CERTIFICATION:

I HEREBY CERTIFY THAT THESE PLANS FOR THE CONSTRUCTION THE VOGL AMENDMENT WERE PREPARED UNDER MY DIRECT SUPERVISION FOR THE OWNERS THEREOF.

BY: _____ DATE: 4/09/2020 ~~2/4/2020~~

ANDREW R. RODRIGUEZ, P.E.

THE BESTWAY CONCRETE & AGGREGATE DOES HEREBY ACCEPT AND APPROVE THESE PLANS FOR THE DRMS PERMIT.

BY: _____ DATE: 4/09/2020 ~~2/4/2020~~

AUTHORIZED REPRESENTATIVE
BESTWAY CONCRETE & AGGREGATE

PREPARED FOR:

BESTWAY CONCRETE & AGGREGATE
301 Centennial Dr.
Milliken, CO 80543
Value

PREPARED BY:

CIVIL RESOURCES, LLC
323 5th STREET
P.O. BOX 680
FREDERICK, CO 80530
303 833 1416

REVISIONS				DATE: JANUARY 17, 2020
NO.	DESCRIPTION	DATE	BY	DWG: drms-vogl-overall.dwg
1	ADQ REVIEW 1	04/8/20	AR	SHEET: 1

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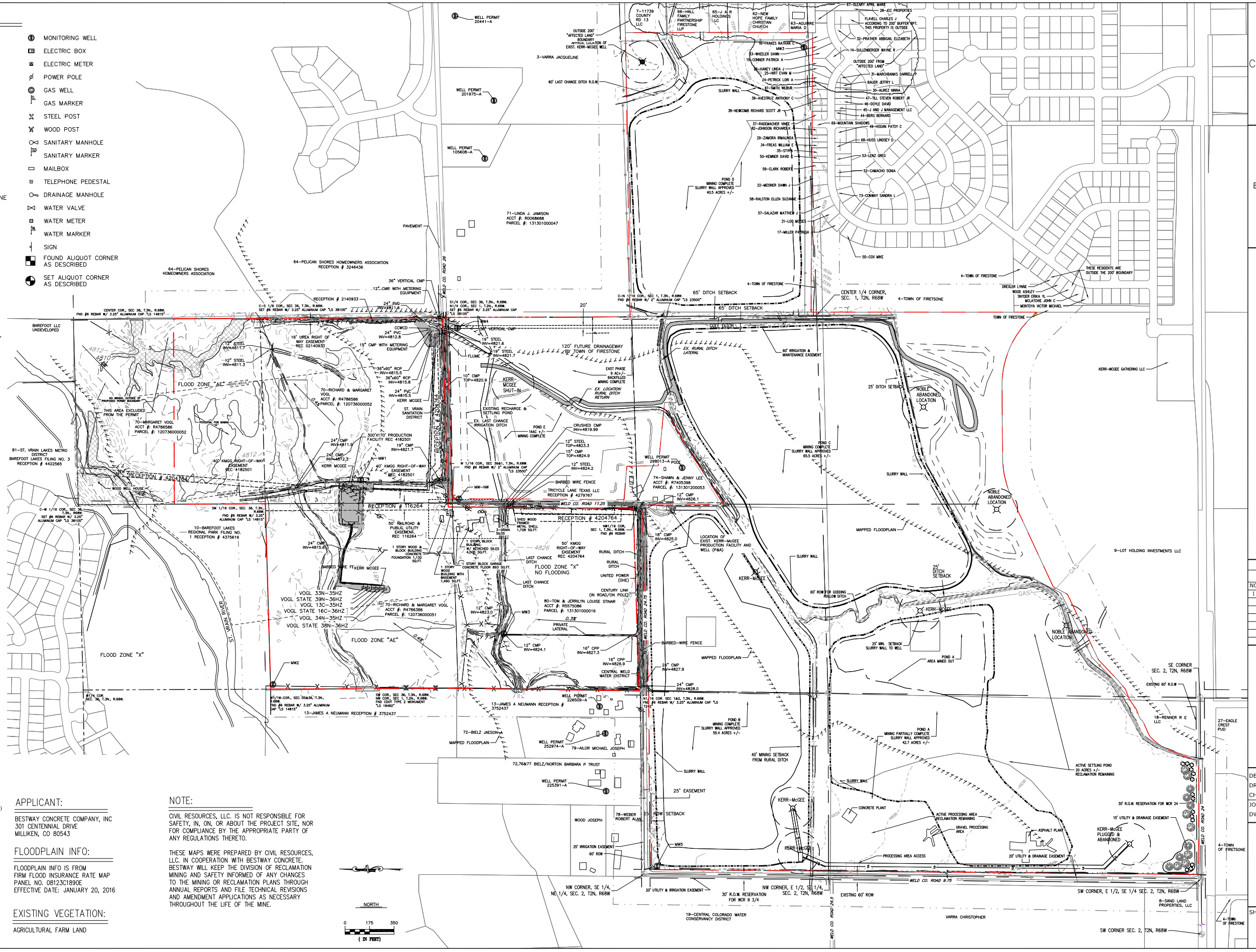
LEGEND:

- EDGE OF ASPHALT
- EDGE OF GRAVEL
- EDGE OF CONCRETE
- BUILDING
- FLOWLINE
- FENCE LINE
- PIPE
- GAS LINE
- WATER LINE
- OVERHEAD POWER LINE
- SANITARY LINE
- UNDERGROUND POWER LINE
- UNDERGROUND TELEPHONE LINE
- TOP OF BANK
- TOE OF BANK
- ONE FOOT CONTOUR
- 5 FOOT CONTOUR
- SECTION LINE
- PROPERTY LINE
- FLOODPLAIN
- POTENTIAL WETLANDS
- STRUCTURE
- PROPOSED PERMIT BOUNDARY
- 200' OFFSET
- BASE FLOOD ELEVATION
- SLURRY WALL

- MONITORING WELL
- ELECTRIC BOX
- ELECTRIC METER
- POWER POLE
- GAS WELL
- GAS MARKER
- STEEL POST
- WOOD POST
- SANITARY MANHOLE
- SANITARY MARKER
- MAILBOX
- TELEPHONE PEDESTAL
- DRAINAGE MANHOLE
- WATER VALVE
- WATER METER
- WATER MARKER
- SIGN
- FOUND ALIQUOT CORNER AS DESCRIBED
- SET ALIQUOT CORNER AS DESCRIBED



SURVEY INFO:

KING SURVEYORS
650 E. Garden Drive | Windsor, Colorado 80550
phone: (970) 686-5011 |
email: info@KingSurveyors.com

AFFECTED LANDS:

TRICYCLE LANE TEXAS LLC
LOT HOLDING, LLC
STINAR & VOGL

TOTAL PERMIT AREA:
510.8 ACRES

PROPERTY ADDRESS:
11401 COUNTY ROAD 9 3/4
FIRESTONE, CO. 80504

APPLICANT:

BESTWAY CONCRETE COMPANY, INC
301 CENTENNIAL DRIVE
MILLIKEN, CO 80543

FLOODPLAIN INFO:

FLOODPLAIN INFO IS FROM FIRM FLOOD INSURANCE RATE MAP PANEL NO. 08123C1890E EFFECTIVE DATE: JANUARY 20, 2016

EXISTING VEGETATION:

AGRICULTURAL FARM LAND

NOTE:

CIVIL RESOURCES, LLC. IS NOT RESPONSIBLE FOR SAFETY, IN, ON, OR ABOUT THE PROJECT SITE, NOR FOR COMPLIANCE BY THE APPROPRIATE PARTY OF ANY REGULATIONS THERETO.

THESE MAPS WERE PREPARED BY CIVIL RESOURCES, LLC. IN COOPERATION WITH BESTWAY CONCRETE. BESTWAY WILL KEEP THE DIVISION OF RECLAMATION MINING AND SAFETY INFORMED OF ANY CHANGES TO THE MINING OR RECLAMATION PLANS THROUGH ANNUAL REPORTS AND FILE TECHNICAL REVISIONS AND AMENDMENT APPLICATIONS AS NECESSARY THROUGHOUT THE LIFE OF THE MINE.

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

BESTWAY CONCRETE & AGGREGATE
301 CENTENNIAL DR.
MILLIKEN, CO 80543
970 587 7277
CONTACT: MARK JOHNSON

VOGL GRAVEL MINE
GRAVEL MINE AMENDMENT
WELD COUNTY COLORADO

REVISIONS

NO.	DESCRIPTION	DATE
1	ADQ REVIEW 1	4/8/2020

DESIGNED BY: ARR DATE: Apr 09, 2020
DRAWN BY: ARR SCALE: AS NOTED
CHECKED BY: ARR AS NOTED
JOB NO.: 213.001.38
DWG NAME: DRMS-VOGL-OVERALL.DWG

OVERALL EXISTING

SHEET: 2

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LEGEND:

- EDGE OF ASPHALT
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- FLOODPLAIN
- POTENTIAL WETLANDS
- STRUCTURE
- PROPOSED PERMIT BOUNDARY
- 200' OFFSET (FROM PERMIT BOUNDARY)
- BASE FLOOD ELEVATION
- SLURRY WALL

- MONITORING WELL
- ELECTRIC BOX
- ELECTRIC METER
- POWER POLE
- GAS WELL
- GAS MARKER
- STEEL POST
- WOOD POST
- SANITARY MANHOLE
- SANITARY MARKER
- MAILBOX
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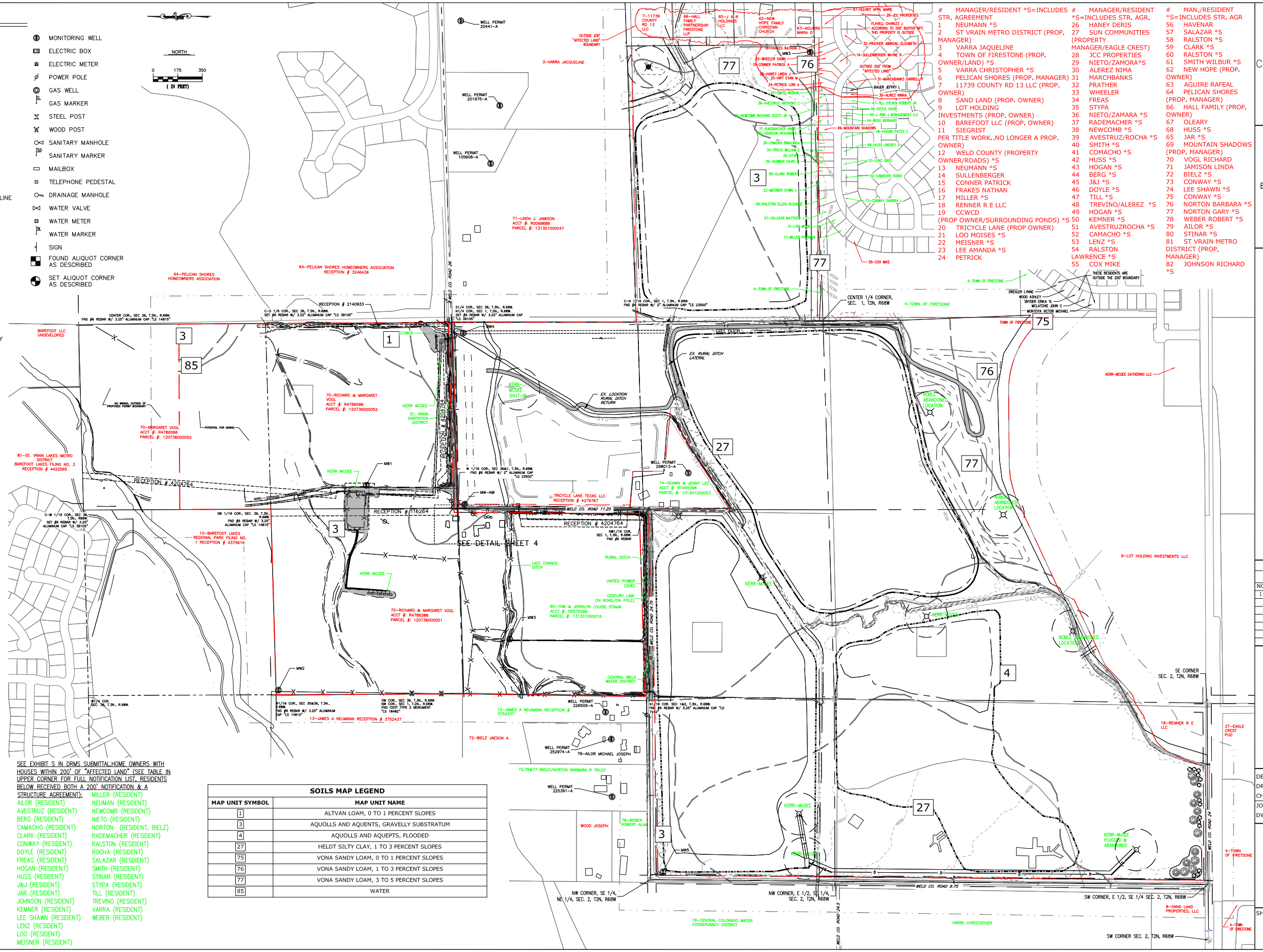
NORTH
0 175 350
(IN FEET)



#	MANAGER/RESIDENT *S=INCLUDES STR. AGREEMENT
1	NEUMANN *S
2	ST VRAIN METRO DISTRICT (PROP. MANAGER)
3	VARRA JAQUELINE
4	TOWN OF FIRESTONE (PROP. OWNER/LAND) *S
5	VARRA CHRISTOPHER *S
6	PELICAN SHORES (PROP. MANAGER)
7	11739 COUNTY RD 13 LLC (PROP. OWNER)
8	SAND LAND (PROP. OWNER)
9	LOT HOLDING INVESTMENTS (PROP. OWNER)
10	BAREFOOT LLC (PROP. OWNER)
11	SIEGRIST
	PER TITLE WORK..NO LONGER A PROP. OWNER)
12	WELD COUNTY (PROPERTY OWNER/ROADS) *S
13	NEUMANN *S
14	SULLENBERGER
15	CONNER PATRICK
16	FRAKES NATHAN
17	MILLER *S
18	RENNER R E LLC
19	CCWCD
	(PROP OWNER/SURROUNDING PONDS) *S
20	TRICYCLE LANE (PROP OWNER)
21	LOO MOISES *S
22	MEISNER *S
23	LEE AMANDA *S
24	PETRICK

#	MANAGER/RESIDENT *S=INCLUDES STR, AGR.
26	HANEY DERIS
27	SUN COMMUNITIES (PROPERTY MANAGER/EAGLE CREST)
28	JCC PROPERTIES
29	NIETO/ZAMORA*S
30	ALEREZ NIMA
31	MARCHBANKS
32	PRATHER
33	WHEELER
34	FREAS
35	STYPA
36	NIETO/ZAMARA *S
37	RADEMACHER *S
38	NEWCOMB *S
39	AVESTRUZ/ROCHA *S
40	SMITH *S
41	COMACHO *S
42	HUSS *S
43	HOGAN *S
44	BERG *S
45	J&J *S
46	DOYLE *S
47	TILL *S
48	TREVINO/ALEREZ *S
49	HOGAN *S
50	KEMNER *S
51	AVESTRUZROCHA *S
52	CAMACHO *S
53	LENZ *S
54	RALSTON
	LAWRENCE *S
55	COX MIKE

#	MAN./RESIDENT *S=INCLUDES STR. AGR
56	HAVENAR
57	SALAZAR *S
58	RALSTON *S
59	CLARK *S
60	RALSTON *S
61	SMITH WILBUR *S
62	NEW HOPE (PROP. OWNER)
63	AGUIRE RAFEAL
64	PELICAN SHORES (PROP. MANAGER)
66	HALL FAMILY (PROP. OWNER)
67	OLEARY
68	HUSS *S
69	MOUNTAIN SHADOWS (PROP. MANAGER)
70	VOGL RICHARD
71	JAMISON LINDA
72	BIELZ *S
73	CONWAY *S
74	LEE SHAWN *S
75	CONWAY *S
76	NORTON BARBARA *S
77	NORTON GARY *S
78	WEBER ROBERT *S
79	AILOR *S
80	STINAR *S
81	ST VRAIN METRO DISTRICT (PROP. MANAGER)
82	JOHNSON RICHARD *S

APPLICANT:

BESTWAY CONCRETE COMPANY, INC
301 CENTENNIAL DRIVE
MILLIKEN, CO 80543

AFFECTED LANDS:

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LOT HOLDING, LLC
STINAR & VOGL

TOTAL PERMIT AREA:
510.8 ACRES

PROPERTY ADDRESS:
11401 COUNTY ROAD 9 3/4
FIRESTONE, CO. 80504

SURVEY INFO:

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STRUCTURE INFO:

SEE EXHIBIT S IN DRMS SUBMITTAL
UTILITIES (ALL UTILITIES RECEVED A STR. AGREEMNET):
KERR MCGEE (STRUCTURE/UTILITY)
CENTURY LINK (STRUCTURE/UTILITY)
CENTRAL WELD COUNTY WATER (STRUCTURE/UTILITY)
UNITED POWER (STRUCTURE/UTILITY)
NOBLE (STRUCTURE/UTILITY)
ST. VRAIN SANITATION (STRUCTURE/UTILITY)
RURAL DITCH (STRUCTURE/UTILITY)
LAST CHANCE DITCH (STRUCTURE/UTILITY)
TOWN OF FIRESTONE (STRUCTURE/UTILITY/LAND)
CCWCD (STRUCTURE/UTILITY/LAND)
WELD COUNTY (STRUCTURE/UTILITY/LAND)
MOUNTAIN SHADOWS HOA (ROW/LAND)

SEE EXHIBIT S IN DRMS SUBMITTAL.HOME OWNERS WITH HOUSES WITHIN 200' OF "AFFECTED LAND" (SEE TABLE IN UPPER CORNER FOR FULL NOTIFICATION LIST. RESIDENTS BELOW RECEIVED BOTH A 200' NOTIFICATION & A STRUCTURE AGREEMENT):

AILOR (RESIDENT)
AVESTRUZ (RESIDENT)
BERG (RESIDENT)
CAMACHO (RESIDENT)
CLARK (RESIDENT)
CONWAY (RESIDENT)
DOYLE (RESIDENT)
FREAS (RESIDENT)
HOGAN (RESIDENT)
HUSS (RESIDENT)
J&J (RESIDENT)
JAR (RESIDENT)
JOHNSON (RESIDENT)
KEMNER (RESIDENT)
LEE SHAWN (RESIDENT)
LENZ (RESIDENT)
LOO (RESIDENT)
MEISNER (RESIDENT)
MILLER (RESIDENT)
NEUMAN (RESIDENT)
NEWCOMB (RESIDENT)
NIETO (RESIDENT)
NORTON (RESIDENT, BIELZ)
RADEMACHER (RESIDENT)
RALSTON (RESIDENT)
ROCHA (RESIDENT)
SALAZAR (RESIDENT)
SMITH (RESIDENT)
STINAR (RESIDENT)
STYPA (RESIDENT)
TILL (RESIDENT)
TREVINO (RESIDENT)
VARRA (RESIDENT)
WEBER (RESIDENT)

SOILS MAP LEGEND	
MAP UNIT SYMBOL	MAP UNIT NAME
1	ALTVAN LOAM, 0 TO 1 PERCENT SLOPES
3	AQUOLLS AND AQUENTS, GRAVELLY SUBSTRATUM
4	AQUOLLS AND AQUEPTS, FLOODED
27	HELDT SILTY CLAY, 1 TO 3 PERCENT SLOPES
75	VONA SANDY LOAM, 0 TO 1 PERCENT SLOPES
76	VONA SANDY LOAM, 1 TO 3 PERCENT SLOPES
77	VONA SANDY LOAM, 3 TO 5 PERCENT SLOPES
85	WATER

CIVILRESOURCES,LLC
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VOGL GRAVEL MINE
GRAVEL MINE AMENDMENT
WELD COUNTY COLORADO

REVISIONS

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CHECKED BY: ARR
DATE: Apr 09, 2020
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AS NOTED
JOB NO.: 213.001.38
DWG NAME: DRMS-VOGL-OVERALL.DWG

STRUCTURES & SOILS

SHEET: 3

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LEGEND:

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- EDGE OF GRAVEL
- EDGE OF CONCRETE
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- STRUCTURE
- PROPOSED PERMIT BOUNDARY
- 200' OFFSET
- BFE:4820 — BASE FLOOD ELEVATION
- PROPOSED CONVEYOR BELT

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- ELECTRIC BOX
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NORTH

0 100 200

(IN FEET)

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

FLOODPLAIN INFO:

FLOODPLAIN INFO IS FROM
FIRM FLOOD INSURANCE RATE MAP
PANEL NO. 08123C1890E
EFFECTIVE DATE: JANUARY 20, 2016

NOTES:

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301 CENTENNIAL DRIVE
MILLIKEN, CO 80543

AFFECTED LANDS:

TRICYCLE LANE TEXAS LLC
LOT HOLDING, LLC
STINAR & VOGL

TOTAL PERMIT AREA:
510.8 ACRES

PROPERTY ADDRESS:
11401 COUNTY ROAD 9 3/4
FIRESTONE, CO. 80504

SURVEY INFO:

KING SURVEYORS
650 E. Garden Drive | Windsor, Colorado 80550
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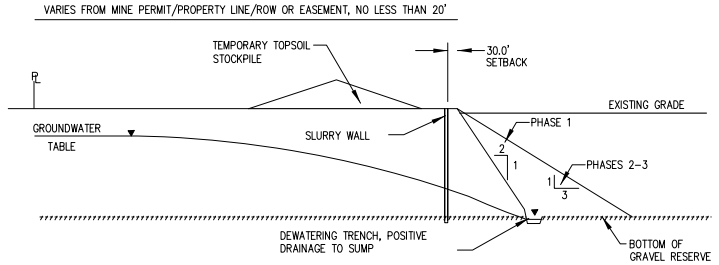
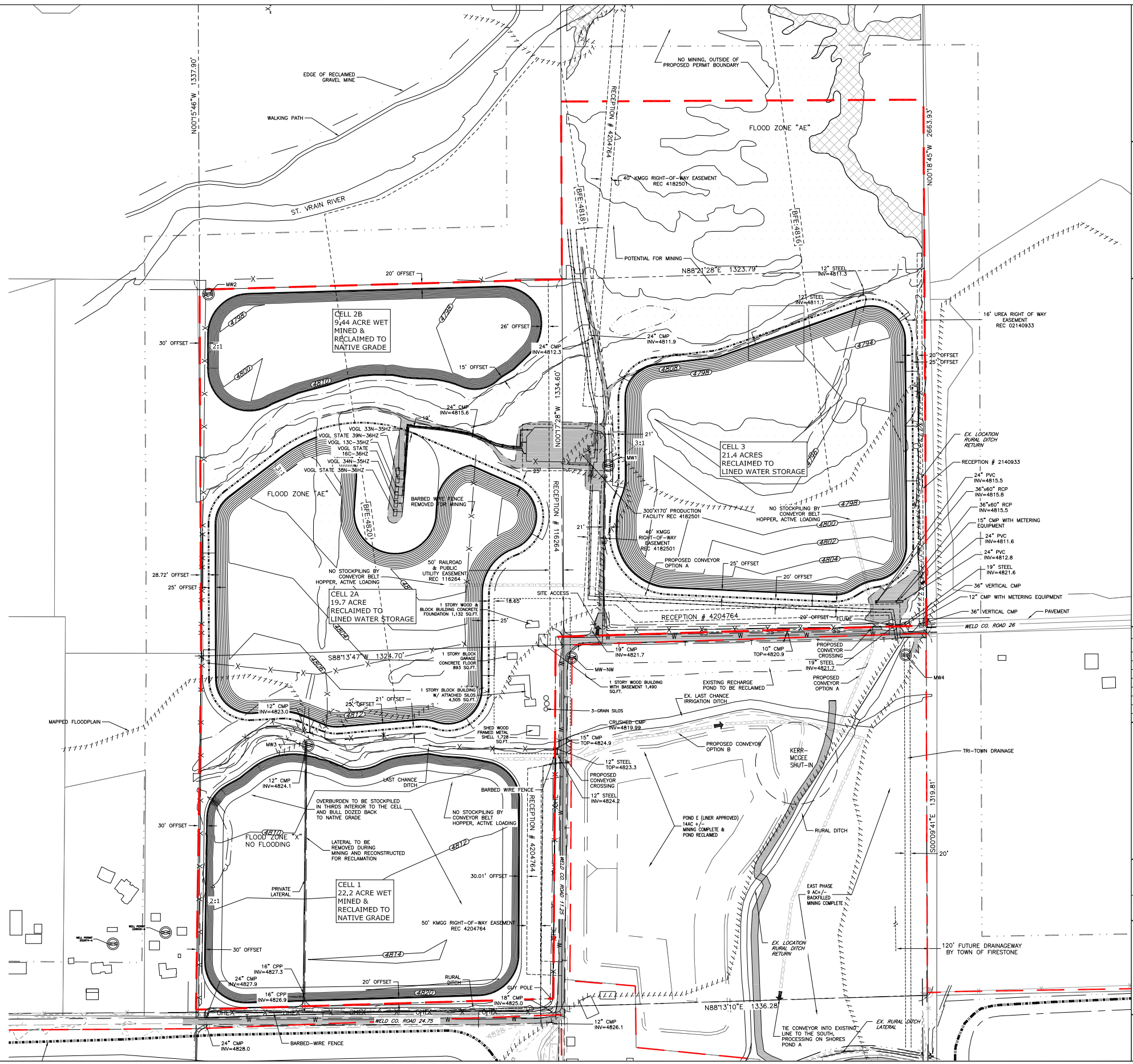
email: info@KingSurveyors.com

VARIES FROM MINE PERMIT/PROPERTY LINE/ROW OR EASEMENT, NO LESS THAN 20'



TYPICAL – TOPSOIL STOCKPILE AT EDGE OF MINING AREAS CROSS SECTION

NOT TO SCALE



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DWG NAME: DRMS-VOGL.DWG

MINING PLAN

SHEET: 4

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LEGEND:

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- EDGE OF GRAVEL
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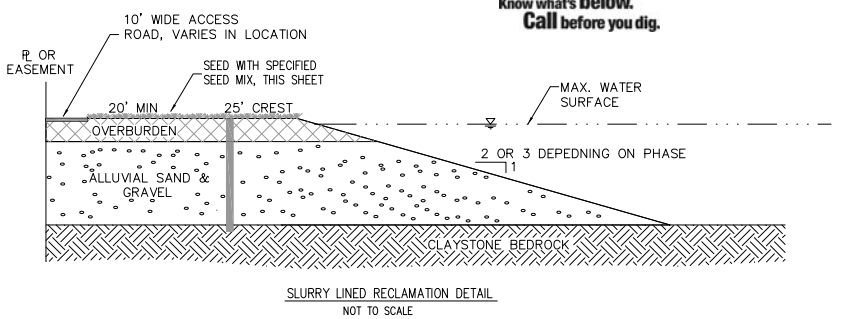
SEEDING SPEC FOR UPLAND AREAS:

COMMON NAME (VARIETY)	SCIENTIFIC NAME	LBS PLS/ACRE
SAND BLUESTEM	(CHAMP, CHET)	1
SAND LOVEGRASS	(BEND, NATIVE, NE27)	2.5
INDIAN RICEGRASS	(NEZPAR, RIMROCK)	3
PRAIRIE SANDREED	(GOSHEN)	0.75
GREEN NEEDLEGRASS	(LODORM)	1.5
LITTLE BLUESTEM	(BLAZE, CIMARRON, CAMPER)	0.75
YELLOW INDIANGRASS	(CHEYENNE, HOLT, SCOUT)	0.5
SWITCHGRASS	(BLACKWELL, NEBRASKA 28)	1.5
SAND DROPSEED		0.5
	TOTAL LBS PER ACRE:	12.0



SLURRY LINED RECLAMATION DETAIL
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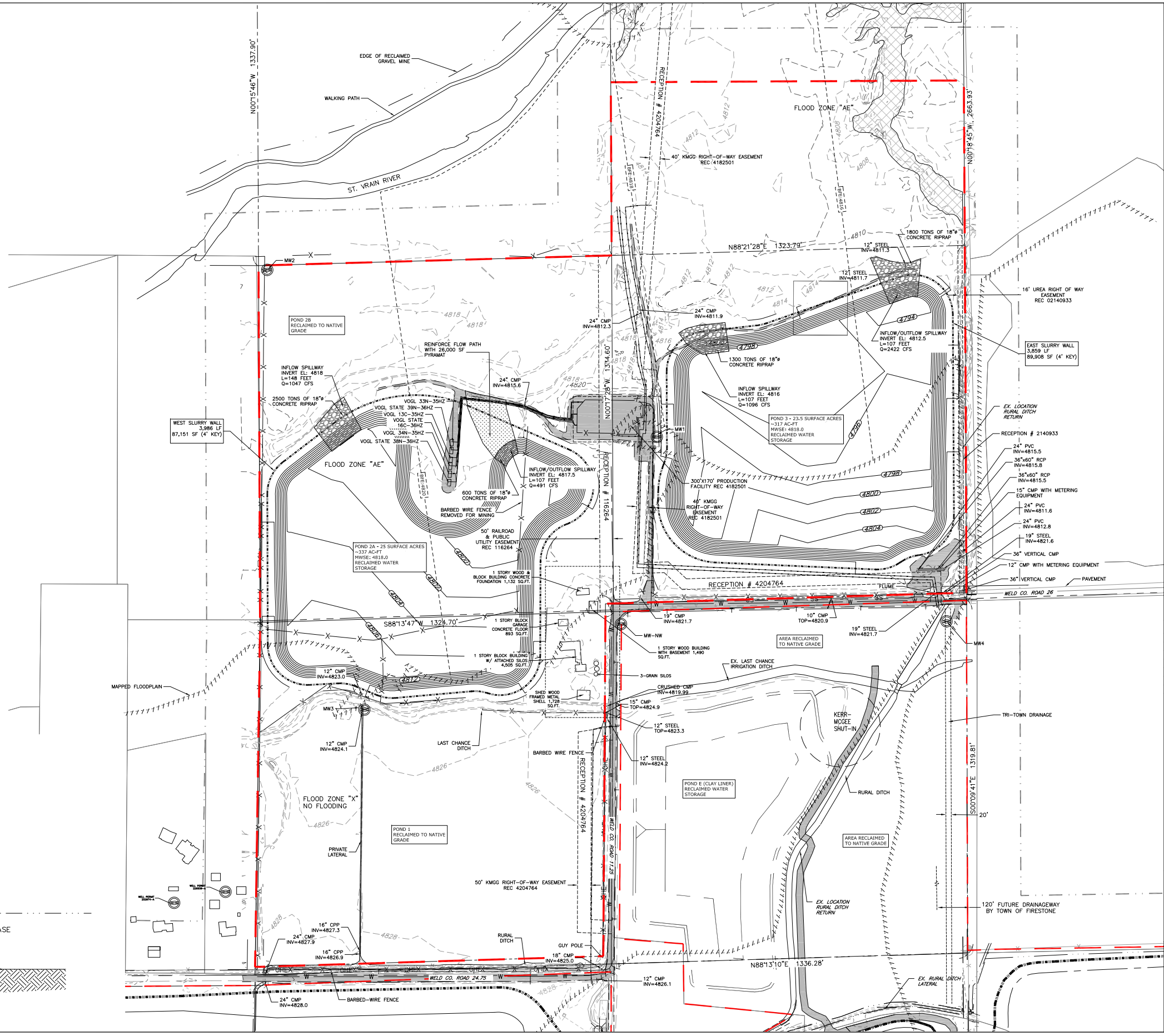

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VOGL GRAVEL MINE
GRAVEL MINE AMENDMENT
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RECLAMATION PLAN

SHEET: 5

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LEGEND:

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- EDGE OF CONCRETE
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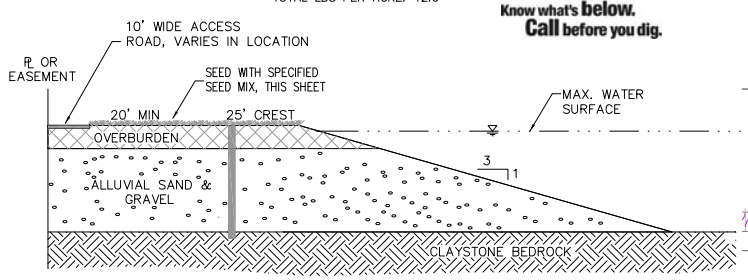

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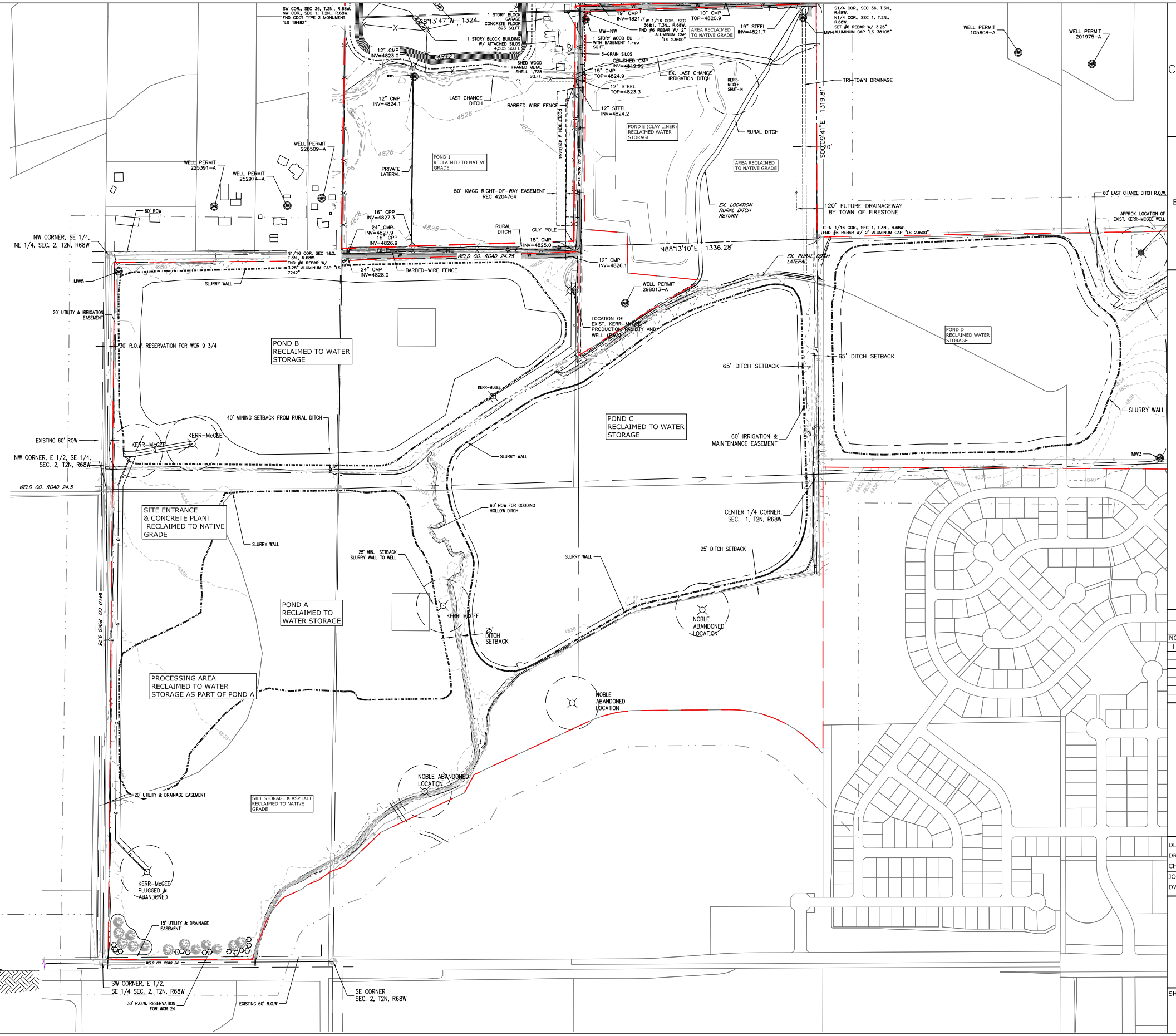

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RECLAMATION PLAN-SHORES

SHEET: 6

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EXHIBITS

EXHIBIT A – LEGAL DESCRIPTION

This information provided in this Exhibit is intended to satisfy the requirements outlined in Section 6.4.1 of the Colorado Mined Land Reclamation Board Construction Material Rules and Regulations:

AMENDED PARCEL DESCRIPTION (140.7 AMENDED ACRES +/-):

PROPERTY DESCRIPTION (FROM TITLE COMMITMENT)

PARCEL 1:
THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER (NW ¼ NW ¼) OF SECTION ONE (1), TOWNSHIP 2 NORTH, RANGE 68 WEST OF THE 6TH P.M., COUNTY OF WELD, STATE OF COLORADO;

PARCEL 2:
THE EAST HALF OF THE SOUTHWEST QUARTER (E ½ SW ¼) OF SECTION 36, TOWNSHIP 3 NORTH, RANGE 68 WEST OF THE 6TH P.M., COUNTY OF WELD, STATE OF COLORADO; A PORTION OF THIS PARCEL WILL BE EXCLUDED IN THE PERMIT BOUNDARY CONSISTING OF 15.1 ACRES.

PARCEL 3:
THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER (SW ¼ SW ¼) OF SECTION 36, TOWNSHIP 3 NORTH, RANGE 68 WEST OF THE 6TH P.M., COUNTY OF WELD, STATE OF COLORADO.

ORIGINAL PERMIT BOUNDARY (370.1 ACRES +/-):

A PARCEL OF LAND LOCATED IN SECTION 1 AND THE EAST ONE-HALF OF SECTION 2, TOWNSHIP 2 NORTH, RANGE 68 WEST OF THE SIXTH PRINCIPAL MERIDIAN, TOWN OF FIRESTONE, COUNTY OF WELD, STATE OF COLORADO (309.8 ACRES +/-) & LOT B OF RECORDED EXEMPTION NO. 1313-1-2-RE 2024, RECORDED AUGUST 7, 1997 IN BOOK 1620 AT RECEPTION NO. 2562346, BEING A PART OF THE EAST 1/2 OF THE NORTHWEST 1/4 OF SECTION 1, TOWNSHIP 2 NORTH, RANGE 68 WEST OF THE 6TH P.M., COUNTY OF WELD, STATE OF COLORADO (60.3 ACRES +/-).

THE NORTHERN PROTION OF PARCEL 2 (~15.1 ACRES) IS NOT INCLUDED IN THE PERMIT BOUNDARY. THE TOTALPERMIT WILL BE 510.8 ACRES +/-.

EXHIBIT D – MINING PLAN

This 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 proposed amendment area includes a significant deposit of sand and gravel located in the alluvium of the St. Vrain River in Weld County. The site is located south of the St. Vrain River, north of WCR 24 3/4 and west of Colorado Boulevard. The permit boundary will include an additional 140.7 acres +/-. The Shores Permit Boundary will encompass a total of 510.8 acres (140.7 amended acres plus 370.1 original acres).

Existing Conditions and Site Preparation:

Existing Conditions

The current Shores Gravel Mine is actively being mined. The proposed amended property is a fallow piece of ground bounded on the north by the St. Vrain River, on the east by Pelican Shores Subdivision, on the south by WCR 26 and WCR 24 3/4, and on the west by the rural properties and fallow land.

Site Preparation

Initial disturbance of the property will include: clearing the site of existing structures (with exception of the structures to remain), and stripping the topsoil and overburden.

Mining:

Shores Main Gravel Mine

All cells have been mined and reclaimed except for Cell A/Pond A on the west side of the mine. The area where the processing plant is will be mined out at the very end of the mine as the plant has to be removed to allow for access to the underlying ground.

Vogl Amended Area

Cell 1 – to be wet mined out, silt storage and fresh water pond
Cell 2a – to be mined out – proposed slurry wall
Cell 2b – to be wet mined out, and backfilled
Cell 3 – to be mined out – proposed slurry wall

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 Mine Safety and Reclamation in the event of a reportable spill.

Processing:

All material mined under this proposed application will be transported by conveyor or haul truck to the processing area.

Import Material:
Bestway Concrete & Aggregates 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 and overburden will be stripped with scrapers or bulldozers and stockpiled in segregated piles at the edge of the active mine. Excavators, front-end loaders, and bulldozers will be used to excavate the material. Conveyor belts or 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; and

The perimeter of the mined area will be dewatered by digging a trench to bedrock. The water will be pumped into a settling pond and discharged in accordance with a CDPS permit. Wash water for the processing area will be recycled through a series of small ponds within the processing area. The water required to operate the facility will likely be provided by the existing water rights associated with the property. No ditches will be disturbed without prior authorization of the appropriate ditch company.

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

Typically 10 to 20 acres areas are disturbed during mining.

(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 500,000 tons of aggregate per year, however, production rate may vary based on market demands.

Timetable for Mining and Reclamation

There is approximately 3 million tons of aggregate and which will provide 6 to 8 years of mining reserves. Cell 1 will be mined first, then Cell 2 and Cell 3.

Reclamation will begin immediately after mining is complete. When possible, concurrent reclamation practices will be used to minimize site disturbance and to limit

material handling to the greatest extent possible. Please refer to the Mining Plan Map in Exhibit C for phase areas to be mined, locations and areas.

(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

Exploratory borings were performed by Bestway Concrete. The bedrock depths in the proposed mine areas ranged from approximately 20 feet to 30 feet below the ground surface.

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

The site is located approximately 15 miles east of the foothills of the Colorado Front Range on the western flank of the Denver Structural Basin. The basin is a downwarp of sedimentary strata that tends north-northwest, parallel to the mountain front. In the project area, the sedimentary bed dips gently eastward toward the axis of the basin east of the site. Based on regional geologic mapping (Colton, 1978), the near surface bedrock in the project area is the Paleocene and Upper Cretaceous Denver and Arapahoe Formations. The bedrock is overlain by upper Pleistocene and Holocene (Quarternary age) gravel deposits and eolian (wind blown) overburden soils. The gravel deposits exist primarily within the Broadway Alluvium deposit. The bedrock unit consists mainly of claystone and may contain lenses of siltstone and sandstone.

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

The primary commodities are sand, gravel and fill; intended for construction materials.

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

There are no expected incidental products to be mined.

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

No explosive material will be used on-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.

The mine is currently:

Main Shores Mine Area:
Pond A – slurry lined and reclaimed as water storage. Slurry Wall has been approved, mining is not complete and Pond A will be the final phase of the mining for the entire site, 6 to 8 years out.
Pond B – slurry lined and reclaimed as water storage. Slurry Wall has been approved and water is currently being stored.
Pond C – slurry lined and reclaimed as water storage. Slurry Wall has been approved and water is currently being stored.
Pond D – slurry lined and reclaimed as water storage. Slurry Wall has been approved and water is currently being stored.
Pond E – compacted clay lined and reclaimed as water storage. The compacted clay liner has been approved and water is currently being stored.

Vogl Amended Area:
Cell 1 – wet mined and reclaimed as uplands to native grades.
Cell 2a – slurry lined and dry mined, reclaimed as water storage.
Cell 2b - wet mined and reclaimed as uplands to native grades.
Cell 3 – slurry lined and dry mined, reclaimed as water storage.

(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 mined area will be reclaimed to existing grade. Refer to Exhibit F for the acreages and additional details.

Earthmoving

The topsoil will be replaced by a scraper and generally 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. In addition, all backfilling and grading will be completed as soon as feasible after the mining process. All disturbed areas will be regraded and smoothed to a finished grade that is suitable for revegetation or the final land use.

As noted previously, the area will be reclaimed as mining commences. Finish grading, topsoil placement and seeding will occur once the resource is completely removed. A typical cross-section of the shoreline is included on the Reclamation Plan Map.

(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.

Once returned to existing (pre-mined) grade, the site can return to being farmed. The water storage reservoirs will be compatible with the other land uses in the vicinity, which includes farmland, industrial land, and rural residential.

(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. Reclamation will be completed within one to two years from completion of mining, but not more than five years from the date the Operator informs the Board or Office that such phase has commenced.

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 one growing season. Although the use of erosion protection devices is not anticipated, if deemed necessary by the operator at the time of excavation, silt fence and haybale dams will be installed to prevent erosion. Backfilling and grading will be completed as soon as feasible after the mining process is complete.

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. The site will be reclaimed to grades consistent with pre-mining elevations.

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 so as 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 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 replacement of desirable graminoid, forb, shrub and tree 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 rehandled as little as possible. Stockpiles that will remain in place for more than one growing season will receive vegetative cover, as outlined on the Reclamation Plan Map, as soon as possible to minimize erosion.

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 included in Exhibit F of this application.

Section 3.1.11 Buildings and Structures: Please refer to the enclosed Reclamation Plan included in Exhibit F.

Section 3.1.12 Signs and Markers: The Operator will post appropriate signage at the entrance to the mine site. The permit area will be marked by existing fencing, or proximity to existing County roads.

(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 not needed for reclamation may be sold or removed from the site. For reclamation, topsoil will be replaced by a scraper and generally graded with a blade. 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 after the mining process.

Final grading will create a final topography that is appropriate for the final land use. For example, grades on the site will be returned to existing (pre-mining) grade. Topsoil will be uniformly placed and spread on areas disturbed by the mining. The minimum thickness shall be 6 inches above the surrounding finished grade, consistent with existing topsoil depths on-site. 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 so as 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. 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.
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 3 horizontal to 1 vertical. Any area reclaimed to native grade will match natural topography.

ii. Seeding – types, mixtures, quantities and time of application;
Please refer to the Reclamation Plan Map for the list of plant materials and seeds to be utilized. 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.

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.; and
Please refer to the Reclamation and Landscape Plan Maps for the types, quantities and location of trees and shrubs to be planted.

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. The minimum thickness shall be 6 inches above the surrounding finished grade.

WEED MANAGEMENT PLAN

Bestway Concrete & Aggregates has a full-time weed manager on staff. This person is responsible for monitoring and controlling noxious weeds as they appear. Bestway Concrete typically prefers to control weeds mechanically, by mowing and/or discing. If necessary, weeds will be killed with a contact herbicide. Bestway Concrete has all of the necessary equipment in house to perform these tasks.

EXHIBIT L – RECLAMATION COSTS

The information provided in this Exhibit is intended to satisfy the requirements outlined in Section 6.4.12 of the Colorado Mined Land Reclamation Board Construction Material Rules and Regulations:

The site would be 100% mined and 100% reclaimed. Mining will be complete for this site with mining occurring with the final slope (3H:1V). The mined volume would be replaced with inert fill. This site will require final grading, topsoil placement, seed and mulch.

Please refer to the attached table for estimates of quantities and associated costs.

Activity	Quantity	Units	Unit Costs	Cost
A. Phase 1 - 100% mined (settling pond)				
1 Backfill Settling Ponds Shore & Vogl (11 acres on Shores (10 feet deep) & 22 acres (Pond1) on Vogl, 20 feet deep, less the available overburden on Vogl (530,000 CY)	410,000	CY	$ 3.00	$ 1,230,000.00
2 Backfill Pond 2b (9.4 acres on shores 19 feet deep, pending 2 years, 2025 start)	216,000	CY	$ -	$ -
			Subtotal	$ 1,230,000.00
B. Processing area. Processing equipment is portable and would be removed by the				
1 Move serge piles into settling pond	1,000	CY	$ 0.75	$ 750.00
2 Remove concrete pad for wash plant	15	CY	$ 65.00	$ 975.00
3 Demolish and remove shop	1	LS	$ 2,000.00	$ 2,000.00
4 Remove concrete footings for office	8	CY	$ 65.00	$ 520.00
5 Remove concrete base for scale	10	CY	$ 65.00	$ 650.00
6 Scarify ground	11	Acres	$ 150.00	$ 1,650.00
7 Spread 12" topsoil	17,743	CY	$ 0.75	$ 13,307.25
8 Seed and Mulch	11	Acres	$ 900.00	$ 9,900.00
9 Remove Conveyor Belt & Reclaim	1	LS	$ 15,000.00	$ 15,000.00
			Subtotal	$ 44,752.25
C. Concrete Batch Plant.				
1 Move serge piles into settling pond	1,000	CY	$ 0.75	$ 750.00
2 Remove concrete pad for wash plant	15	CY	$ 65.00	$ 975.00
3 Demolish and remove shop	1	LS	$ 2,000.00	$ 2,000.00
4 Remove concrete footings for office	8	CY	$ 65.00	$ 520.00
5 Scarify ground	7	Acres	$ 150.00	$ 1,042.50
6 Spread 12" topsoil	11,210	CY	$ 0.75	$ 8,407.76
7 Seed and Mulch	7	Acres	$ 900.00	$ 6,255.00
			Subtotal	$ 19,950.26
D. Asphalt Plant				
1 Move serge piles into settling pond	1,000	CY	$ 0.75	$ 750.00
2 Demolish and remove shop	1	LS	$ 2,000.00	$ 2,000.00
3 Remove concrete footings for office	8	CY	$ 65.00	$ 520.00
4 Scarify ground	9	Acres	$ 150.00	$ 1,275.00
5 Spread 12" topsoil	13,711	CY	$ 0.75	$ 10,282.88
6 Seed and Mulch	9	Acres	$ 900.00	$ 7,650.00
			Subtotal	$ 22,477.88
E. Settling Pond and Perimeter Seeding, including Amended Area & shoreline				
1 Seed (all perimeters except Pond B including 30 foot buffer)	22.09	Acres	$ 900.00	$ 19,876.86
			Subtotal	$ 19,876.86
F. Slurry Wall @ 20% and 100% Installation Cost ($5 per SF) per DRMS Bonding Requirement. Assumes 25' average depth (including 4' key into bedrock & excludes Pond 2a & 3, as no disturbance for 2 yrs.)				
Pond A @20%, includes 6,286 linear feet of slurry wall	157,150	SF	$ 5.00	$ 157,150.00
Pond B @20%, includes 6,076 linear feet of slurry wall	151,900	SF	$ 5.00	$ 151,900.00
Pond C @20%, includes 6,823 linear feet of slurry wall	170,575	SF	$ 5.00	$ 170,575.00
Pond D @20%, includes 5,038 linear feet of slurry wall	125,950	SF	$ 5.00	$ 125,950.00
Pond E @20%, includes 3250 linear feet of clay liner	120,370	CY	$ 5.00	$ 120,370.00
Pond 2a @100%, includes 6,257 linear feet of slurry wall	99,650	SF	$ 5.00	$ 498,250.00
Pond 3 @100%, includes 6,257 linear feet of slurry wall	96,475	SF	$ 5.00	$ 482,375.00
			Subtotal	$ 1,706,570.00
G. Rundown Spillways (includes haul of concrete riprap and placement , Pond 2a contains 26,000 SF of Pyramat Slope Reinforcement)				
Pond 2a (includes two spillways and Pyramat Reinforcement at Pond 2a outflow spillway)	3,200	TONS	$ 50.00	$ 160,000.00
Pond 3 (includes two spillways)	3,200	TONS	$ 30.00	$ 96,000.00
			Subtotal	$ 256,000.00
Total Disturbance Costs				$ 3,001,199.11
Total Disturbance Costs				$ 3,257,199.11
Indirect Costs				
Overhead & Profit				
Performance Bond (2.02%) - Based on DRMS estimate				$ 65,795.42
Performance Bond (3.07%) - Based on DRMS estimate				$ 34,200.59
Job Superintendent (240 hours @ $75/hr) - Based on DRMS estimate				$ 18,000.00
Contractor Mob and DeMob (3%) - Based on DRMS estimate				$ 97,715.97
Contractor Overhead and Profit (10%) - Based on DRMS estimate				$ 325,719.91
			Subtotal	$ 541,431.90
Contract Amount (direct + O & P)				$ 3,798,631.01
Legal, Engineering & Project Management				
Financial warranty processing (legal/related costs) ($500)				$ 500.00
Engineering Work and/or contract/bid preparation (4.25%)				$ 161,441.82
Reclamation management and/or administration (5%) - Based on DRMS estimate				$ 189,931.55
Contingency (3%)				$ 97,715.97
			Subtotal	$ 449,589.34
Total Indirect Costs				$ 991,021.24
Total Bond Amount				$ 4,248,220.35

Andy Rodriguez

From: Andy Rodriguez
Sent: Wednesday, March 25, 2020 9:10 AM
To: Gabriel.Benvenuti@state.co.us
Cc: Scott - DNR, Eric
Subject: signature page DRMS cert
Attachments: Pages from DRMS-VOGL-submittal_2-4-2020.pdf

Gabby,

I got your contact from Eric Scott. He asked that I reach out to you.

I have a client submitting a DRMS permit and they use to be Bestway Concrete. BURNCO Colorado, LLC purchased Bestway so Bestway is dba BUNRCO. The client signed the form as BUNRCO Colorado LLC as we have done other amendments this way. They don't have a seal as they are an LLC. I attached a copy of the signed cert and Eric has the original copy.

Thanks,

Andy Rodriguez, P.E.
andy@civilresources.com
303 909 0776 (c)
303 833 1416x202 (o)
Civil Resources, LLC
PO Box 680
323 5th St.
Frederick, Co 80530

GROUNDWATER

Revised April 7th, 2020

Mr. Mark Johnson, Compliance Manager
Burnco Colorado, LLC
301 Centennial Drive
Milliken, Colorado 80543

RE: Shores Gravel Mine Vogl Amendment AM03 – Mitigation Plan for Potential Groundwater Impacts

Dear Mr. Johnson:

The purpose of this memo is to describe the existing groundwater regime in the vicinity of the Shores gravel mine including new mine cells on the Vogl property. Potential groundwater impacts that could result from dewatering of unlined cells and from soil-bentonite slurry wall (slurry wall) lining are also addressed herein. The Vogl Amendment is located west and north of the intersection of Weld County Roads 11 ¼ and 26, immediately north of the Town of Firestone, Colorado. More specifically, the mine is within parts of Section 1, Township 2 North, Range 68 West and Section 36, Township 3 North, Range 68 West of the 6th Principal Meridian. The site is 200 feet south of the Saint Vrain River at its closest point. Land uses in the area include irrigated agricultural, oil and gas production, active gravel mines, gravel mines reclaimed as below grade reservoirs, and residential housing. The mine plan is shown on Figure 1.

The Shores site was mined in five lined cells. With the addition of the Vogl property, four more cells referred to as Cell 1, Cell 2a, Cell 2b, and Cell 3 will be mined. The Cells 2a and 3 will be lined with soil-bentonite slurry walls and will be reclaimed as below grade reservoirs. Cells 1 and 2b will be unlined and will receive wash fines from the processing of mined sand and gravel.

Existing Groundwater Conditions

The near surface groundwater is part of an alluvial aquifer in which permeable sand and gravel alluvium overlies relatively impermeable bedrock of the Upper Transition Member of the Pierre Shale and the Fox Hills Sandstone. Groundwater is measured in eight (8) site monitoring wells occurs at depths usually ranging from approximately 5 to 10 feet blow existing ground. However, groundwater depths in one well on the easternmost side of the mine, occur at a deeper depth generally in the range of 18 feet below the ground. This deeper depth is likely due to dewatering activities at the LG Everist Mine located on the east side of Weld County Road 13. The prevailing groundwater flow direction at the Vogl Gravel Mine area is northeasterly roughly reflecting the site topography. Groundwater in the area is tributary to the Saint Vrain River located north of the site. Locally the groundwater levels and flow directions are likely influenced by:

- The Saint Vrain River is north of the site. For most of the year, the river likely acts as a drainage way maintaining groundwater levels at elevations greater than water elevations in the river. In shorter periods of high run off, usually in the spring, river water levels will locally recharge the groundwater table.

- The Last Chance Ditch traverses the Vogl property from west to east between Cells 1 and 2a. The ditch may act like a drain during the non-irrigation season maintaining water levels at or above water levels in the ditch. During the irrigation season, the ditch may serve as a source of recharge to the water table.

- The Rural Ditch conveys irrigation water through mine site from west to east. A lateral from the Rural Ditch crosses the site immediately south of Cell 1. During the irrigation season, this ditch is likely a source of recharge to the water table.

- An unnamed drainage way traverses the west part of the site between Cells 2a and 2b before crossing north of cell 3. This drainage likely maintains groundwater levels at or above the water levels in the drainage.

- Five lined gravel ponds referred to as Ponds A, B, C, D, and E. These ponds likely cause groundwater mounding (higher water levels) on the upgradient side of the site (south and southwest sides) and groundwater shadowing (lower water levels) on the downgradient side of the site (northeast and north sides). These ponds have been lined for approximately 15 years.

- Irrigation: The site is located in an area of irrigated cropland. Applied irrigation that is not lost to evaporation and transpiration likely recharges the groundwater.

- Alluvial Wells: Other than the eight (8) monitoring wells drilled at the site for monitoring groundwater levels, there are only five (5) pumping wells permitted within 600 feet of the mine property. One of these wells is on-site at the former Vogl residence. Three (3) wells are located on the north side of Weld County Road 24 ¾. The last well is located southeast of the intersection of Weld County Roads 24 ¾ and 11 1/4. If pumping, groundwater will be drawn to the wells.

Monthly groundwater level monitoring was performed from June, 2019 to March, 2020 at the eight (8) monitoring wells drilled at the site. A table showing the seasonal fluctuations from June 2019 to March 2020 is attached. The average depths to groundwater are presented in the following table:

Well	Average Depth to Groundwater, ft (June 2019 to March 2020)
MW-3	17.49
MW-4	7.62
MW-5	5.93
MWNW	7.40
MWSE	3.03
V1	4.09
V2	7.54
V3	9.45

Mining Plan

Five (5) lined cells have previously been mined or are in the process of being mined at the site. These lined cells are located south of Weld County Roads 24 ¾ and 26. The addition of the Vogl cells to the mine will result in two additional lined cells (2a and 3) and two additional unlined cells (1 and 2b) at the mine. All of the cells will be mined to bedrock. At the Vogl property, bedrock ranges from approximately 14 to 25 feet in borings drilled at the site.

Potential Slurry Wall & Mining Impacts to Local Groundwater Levels

For all lined cells, a properly constructed slurry wall or compacted clay liner will tend to isolate these cells from the surrounding alluvial groundwater table. The liner around these cells could cause "mounding" of groundwater (increase in groundwater elevation) on the upgradient side (south and southwest) of the lined cells and a potential "shadow effect" (reduction in groundwater level) on the downgradient side (north and northeast) of the Mine. Because the liner will tend to isolate these cells from the surrounding groundwater table, the effects of dewatering when mining lined cells will tend to not extend beyond the liner.

Any mounding effect on the upgradient side of the south and southwest is anticipated to be on the order of a few feet or less and will dissipate with distance from the mine. Similarly shadowing affects will be on the order of a few feet and will dissipate with distance from the mine. The shadowing affects will be minimized by the presence of the Saint Vrain River on the north and the presence of the Rural and Last Chance ditches between the cells.

Dewatering of the unlined cells (Cell 1 and Cell 2b) will result in decreases in water levels around these cells. Five (5) wells are permitted within 600 feet of Cell 1. No wells are permitted within 600 feet of Cell 2b. These wells and potential mitigation measures are discussed below.

Area Wells

A review of permitted wells on file at the State engineer's Office (SEO), Division of Water Resources (DWR) indicates there are five (8) permitted pumping wells within 600 feet of the permit boundary. All of these wells are screened in the alluvium. Three (3) of these wells, are west (upgradient) of the unlined Cell 1, one (1) well is downgradient of Cell 1, and one (1) well is within the mine area and is owned by the Vogls.

A discussion of the wells located within 600 feet of the permit boundary are discussed below:

- Lee Wel (Permit #298013-A): The Lee well is located south and east of the intersection of Weld County Roads 24 ¾ and 11 ¼. This well is approximately 300 feet and cross gradient of Cell 1 and may be affected by dewatering of Cell 1.

- Neumann Wel (Permit #226509-A): The Neumann well is located west of the site on the north side of Weld County Road 24 ¾. This well is approximately 130 feet upgradient of the unlined Cell 1 and may be affected by dewatering of Cell 1.

- Ailor Well (Permit #252974-A): The Ailor well is located west of the site on the north side of Weld County Road 24 ¾. This well is approximately 400 feet upgradient of the unlined Cell 1 and may be affected by dewatering of Cell 1.

- Bielz Well (Permit #225391-A): The Bielz well is located west of the site on the north side of Weld County Road 24 ¾. This well is approximately 590 feet upgradient of the unlined Cell 1 and may be affected by dewatering of Cell 1.

- Vogl Well (Permit #103101-A): The Vogl well is located near the intersection of Weld County Roads 11 ¼ and 26. This well is upgradient of the lined cells 2a and 3 and downgradient of the Last Chance Ditch (between the Last Chance Ditch and the lined cells). Effects on this well are anticipated to be minimal.

- A few additional wells have been shown on the tables and in the figures but they are greater than 600' feet from the permit boundary and even further from the unlined areas. These wells were not negatively impacted during the Pond E amendment.

Mitigation Plan

Dewatering during mining of Cell 1 may affect four wells as addressed above. After reclamation, the wells should perform in a manner that approximately matches premining uses. However, if the miner receives a complaint, the following mitigation plan will be implemented.

The site monitoring wells will be measured monthly to identify potential changes in alluvial groundwater flow or elevation associated with mining and reclamation activities. Baseline data collected from the monitoring program will provide a range of relative water levels associated with premining groundwater conditions. Experience at other mines in similar geologic settings has found that groundwater levels tend to fluctuate being highest in the summer irrigation season and lowest in the winter and early spring.

If, during mining or reclamation, the relative seasonal groundwater elevation at any monitoring wells differs from baseline conditions by more than 2 feet, and the condition was not observed during baseline monitoring, or if the miner receives a complaint from any well owner within 600 feet of the site boundary, then the miner will evaluate the cause and take action within 30 days and notify the DRMS.

After the DRMS has been notified, the miner will review the data and available information and submit a report to the DRMS within 30 days. The evaluation will include discussions with the well owner who has contacted the miner regarding a concern and review of baseline data from the well and vicinity to evaluate whether changes may be due to seasonal variations, climate, mining, slurry wall lining or other factors. The report will identify the extent of potential or actual impacts associated with the changes. If the extent of groundwater changes due to mining or reclamation activities is determined to be a significant contributing factor that has or may create adverse impacts, the mining associated impacts will be addressed to the satisfaction of the DRMS.

Miner will begin implementing one or more mitigation measures if mining and reclamation activity is determined to be a significant factor to groundwater changes requiring mitigation.

Mitigation measures may include, but are not limited to:

Placing water in a recharge pond to raise groundwater levels around the well.

Constructing a local clay liner at the edge of the mine Cell (i.e. between the dewatering point and the well) in order to raise water levels on the well side of the liner and mitigate dewatering effects.

Cleaning the well to improve efficiency.

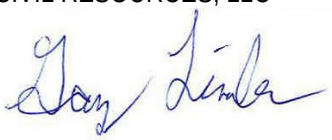
Providing an alternative source of water or purchasing additional water to support historic well use in terms of water quantity and quality. If needed, water quality parameters will be checked in affected wells to ensure alternative sources support historic use.

Modifying a well to operate under lower groundwater conditions. This could include deepening the well or lowering pumps. All work would be done at the miner's expense with the exception of replacing equipment that was non-functional prior to mining.

Please call if you have any questions.

Sincerely,

CIVIL RESOURCES, LLC

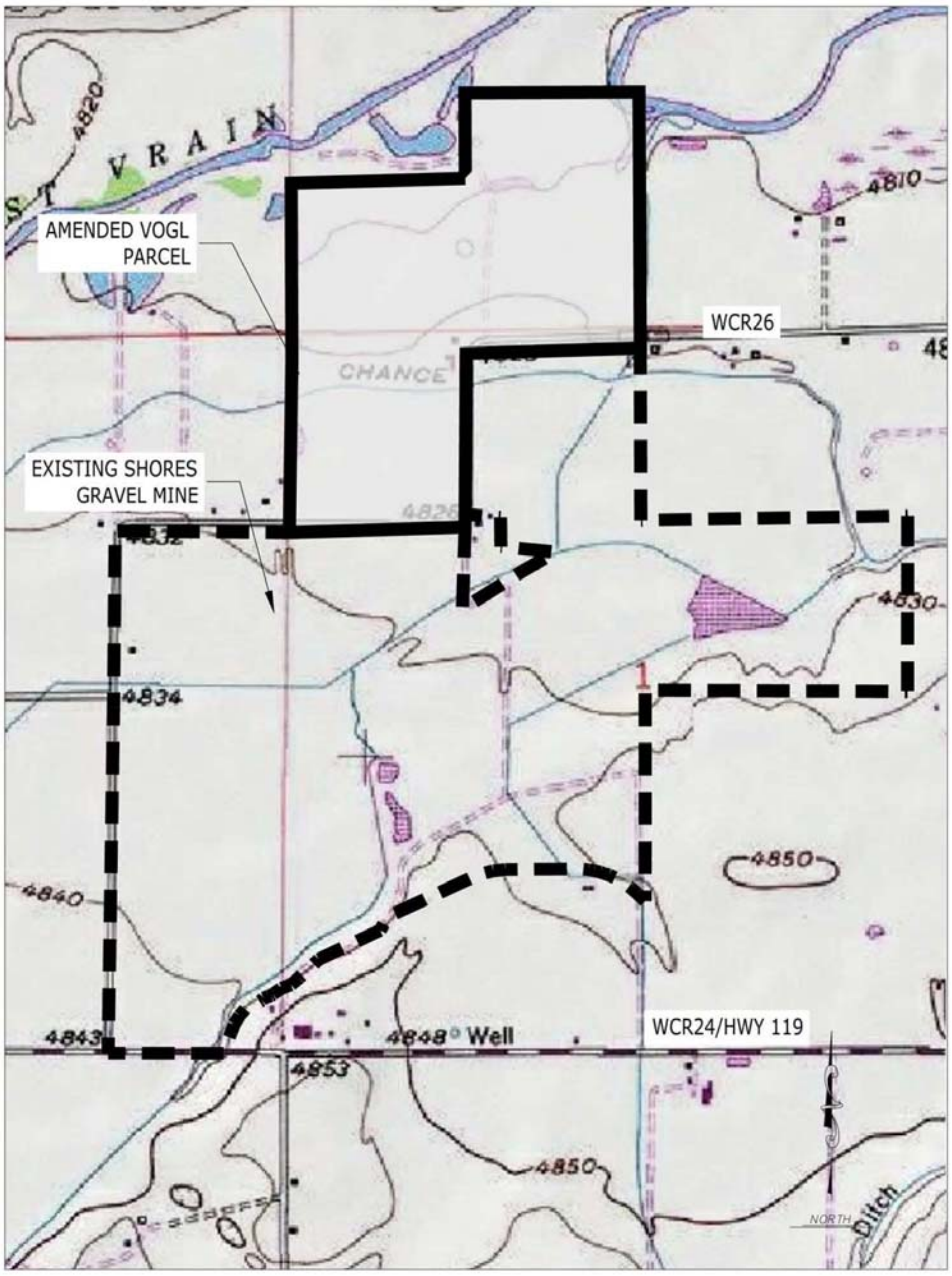


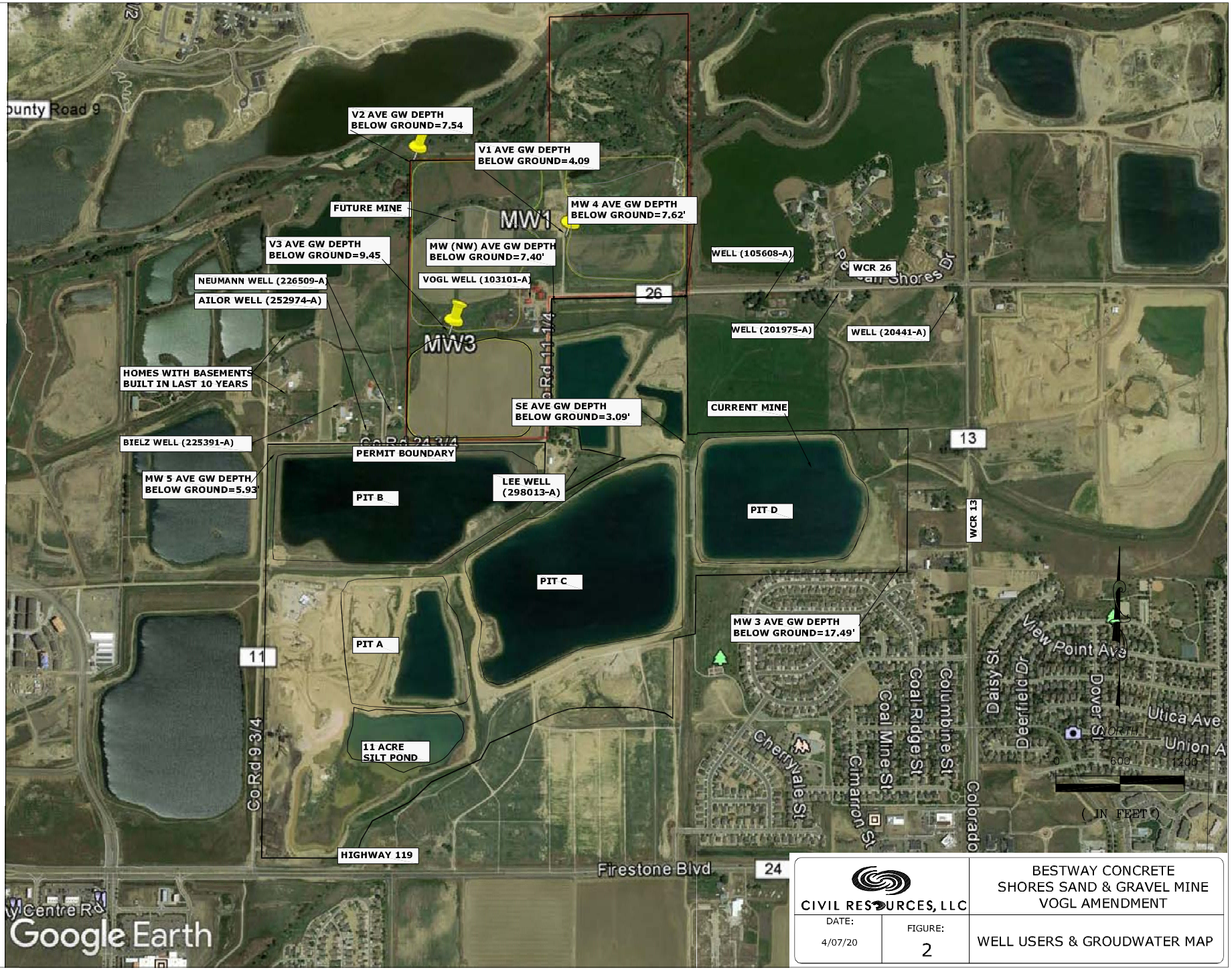
Gary Linden, P.G.
Senior Engineering Geologist

J:\Bestway-213\vogl\groundwater\groundwater-memo Vogl.doc

FIGURE 1

Please refer to the attached index map.





CIVIL RESOURCES, LLC	BESTWAY CONCRETE SHORES SAND & GRAVEL MINE VOGL AMENDMENT
DATE: 4/07/20 / FIGURE: 2	WELL USERS & GROUDWATER MAP

J:\Bestway-213\vogl\groundwater\grounwater_figure.dwg, 4/9/2020 2:46:01 PM

Table 1 - Monitoring Well Readings

Firestone/Shores Monitoring Wells (depth below ground surface-feet)

Date:	MW5	SE	MW (NW)	MW 4	MW3
6/5/2019	6.2	2.0	7.5	7.0	17.3
6/21/2019	6.2	4.5	7.5	7.0	17.0
7/11/2019	6.0	4.0	7.3	7.7	17.6
7/25/2019	4.5	4.0	7.2	7.3	17.5
8/2/2019	4.8	4.0	7.2	5.7	17.5
8/15/2019	4.7	4.2	7.2	5.6	17.5
8/29/2019	5.4	3.5	7.3	6.0	17.4
9/13/2019	6.2	2.1	7.3	7.6	17.4
10/1/2019	6.2	2.1	7.5	7.7	17.4
10/25/2019	6.2	2.4	7.4	8.3	17.5
11/15/2019	6.0	2.1	7.4	8.2	17.5
12/5/2019	6.2	2.3	7.4	8.1	17.5
1/10/2020	6.8	2.7	7.5	9.0	17.7
2/14/2020	6.9	2.9	7.7	9.6	17.8
3/16/2020	6.9	2.8	7.8	9.6	17.8

Vogl Monitoring Wells (depth below ground surface-feet)

Date	V1	V2	V3
6/5/2019	3.6	6.5	9.2
7/25/2019	3.5	6.8	9.2
7/11/2019	3.7	6.3	9.4
7/25/2019	3.7	7.6	9.2
8/2/2019	3.7	7.5	9.0
8/15/2019	3.6	7.5	9.0
8/29/2019	3.6	7.6	9.3
9/13/2019	3.6	8.0	9.5
10/1/2019	3.8	8.0	9.5
10/25/2019	4.4	7.8	9.4
11/15/2019	4.3	7.8	9.4
12/5/2019	4.4	7.8	9.5
1/10/2020	5.0	7.9	9.8
2/14/2020	5.3	8.0	10.3
3/16/2020	5.3	8.1	10.2

Table 2 - Shores & Vogl Area Surrounding Wells

Well	Type	Area/Location	Total Depth	Static Water Level Below Ground Surface	Yield
			(ft)	(ft)	(ft)
SE	monitoring	Shores/Pond E	26	3.03	-
MW (NW)	monitoring	Shores/Pond E	16	7.40	-
MW 4	monitoring	Shores/Pond E	18	7.62	-
MW 3	monitoring	Shores/Pond D	44	17.49	-
MW5	monitoring	Shores/Pond B	22	5.93	-
V1	monitoring	Vogl	28	4.09	-
V2	monitoring	Vogl	23	7.54	-
V3	monitoring	Vogl	17	9.45	-
Permit #298013-A	domestic/stock	Lee	25	-	3
Permit #226509-A	domestic/stock	Neumann (formerly Rindour)	22	6	20
Permit #252974-A	domestic/stock	Ailor (formerly Aites)	29	-	15
Permit #225391-A	domestic/stock	Bielz (formerly England)	30	-	15
Permit #103101-A	domestic/stock	Vogl	18	6	-
Permit #105608-A	domestic/stock	Jamison	34	-	15
Permit #201975-A	domestic/stock	Daly	36	16	18
Permit #20441	domestic/stock	Varra, Jaqueline	30	-	10

STRUCTURE & 200’ MAIINGS

Structure Agreements

#	Mail	#	Date	Structure Agreement
1	Kerr Mcgee (structure/utility)	70132250000070213713,	3/4/2020 - delivered	
2	Weld County (structure/utility)	70190700000024813822,	3/4/2020 - delivered	
3	Century Link (structure/utility)	70190700000024813815,	3/4/2020 - delivered	
4	Central Weld County Water (structure/utility)	70190700000024813785,	3/4/2020 - delivered	
5	United Power (structure/utility)	70190700000024813839,	3/4/2020 - delivered	
6	CCWCD (structure/utility)	70190700000024813761,	3/4/2020 -delivered	yes
7	Noble (structure/utility)	70132250000070213690,	3/5/2020 - delivered	
8	Town of Firestone (structure/utility)	70132250000070213683,	3/5/2020 - delivered	
9	St. Vrain Sanitation (structure/utility)	70132250000070214109,	3/5/2020 - delivered	
10	Rural Ditch (structure/utility)	70190700000024813846,	3/7/2020 - delivered	
11	Last Chance Ditch (structure/utility)	70132250000070213720,	3/11/2020 -delivered	
12	Doyle (resident)	70132250000070214086,	3/4/2020 - delivered	yes
13	Miller (resident)	70190700000024813778,	3/4/2020 - delivered	
14	Stypa (resident)	70132250000070213997,	3/4/2020 - delivered	
15	Rademacher (resident)	70132250000070213973,	3/4/2020 - delivered	
16	Ralston (resident)	70132250000070213942,	3/4/2020 - delivered	
17	Smith (resident)	70190700000024813709,	3/4/2020 - delivered	
18	Till (resident)	70190700000024813723,	3/4/2020 - delivered	
19	Varra (resident)	70190700000024813730,	3/4/2020 - delivered	
20	Trevino (resident)	70190700000024813747,	3/4/2020 - delivered	
21	Lenz (resident)	70132250000070213928,	3/4/2020 - delivered	
22	Freas (resident)	70132250000070214093,	3/4/2020 - delivered	
23	Hogan (resident)	70132250000070214079,	3/4/2020 - delivered	
24	Salazar (resdient)	70190700000024813792,	3/5/2020 - delivered	
25	Conway (resident)	70132250000070213898,	3/6/2020 - delivered	yes
26	Neuman (resident)	70132250000070213980,	3/6/2020 -delivered	
27	Johnson (resident)	70132250000070214024,	3/17/2020 - delivered	
28	Huss (resident)	70132250000070214062,	3/21/2020 - delivered	
29	Kemner (resident)	70132250000070214048,	April 1, 2020, 1:57 pm Unclaimed/Being Returned to Sender FREDERICK, CO 80530 Your item could not be delivered on April 1, 2020 at 1:57 pm in FREDERICK, CO 80530. It was held for the required number of days and is being returned to the sender.	
30	Stinar (resident)	70190700000024813808,	3/7/2020 - in transit	
31	Lee Shawn (resident)	70132250000070214017,	3/7/2020 - in transit	
32	JAR (resident)	70132250000070214031,	4/2/2020 - delivered	
33	Weber (resident)	70190700000024813716,	3/7/2020 - in transit	
34	Norton (resident)	70132250000070213959,	3/7/2020 - in transit	
35	Ailor (resident)	70132250000070213874,	3/7/2020 - in transit	
36	Avestruz (resident)	70190700000024813860,	3/8/2020 - in transit	
37	Camacho (resident)	70190700000024813853,	3/9/2020 - in transit	
38	J&J (resident)	70132250000070214055,	3/8/2020 - in transit	
39	Loo (resident)	70132250000070213904,	3/9/2020 - in transit	
40	Berg (resident)	70132250000070213881,	4/2/2020 - delivered	
41	Newcomb (resident)	70190700000024813754,	4/3/2020 - delivered	
42	Rocha (resident)	70132250000070213935,	3/26/2020 - in transit	
43	Clark (resident)	70132250000070214000,	March 13, 2020, 1:42 pm Notice Left (No Authorized Recipient Available) FREDERICK, CO 80530 We attempted to deliver your item at 1:42 pm on March 13, 2020 in FREDERICK, CO 80530 and a notice was left because an authorized recipient was not available.	
44	Meisner (resident)	70132250000070213911,	March 13, 2020, 2:08 pm Notice Left (No Authorized Recipient Available) FREDERICK, CO 80530 We attempted to deliver your item at 2:08 pm on March 13, 2020 in FREDERICK, CO 80530 and a notice was left because an authorized recipient was not available.	
45	Nieto (resident)	70132250000070213966,	March 13, 2020, 2:08 pm Notice Left (No Authorized Recipient Available) FREDERICK, CO 80530 We attempted to deliver your item at 2:08 pm on March 13, 2020 in FREDERICK, CO 80530 and a notice was left because an authorized recipient was not available. You may arrange redelivery by using the Schedule a Redelivery feature on this page or may pick up the item at the Post Office indicated on the notice beginning March 14, 2020. If this item is unclaimed by March 19, 2020 then it will be returned to sender	

NOTARY FOR STRUCTURE OWNER

ACKNOWLEGED BY:

Structure Owner Sandra Conway Name Sandra Conway

Date 3/9/20 Title Owner

STATE OF Colorado)
) ss.
COUNTY OF Weld)

The foregoing was acknowledged before me this 9th day of March, 2020, by Sandra Conway as owner of structure.

Maria Rita M. Freitag My Commission Expires: 8/23/2022
Notary Public

MARIA RITA M. FREITAG
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20144032882
MY COMMISSION EXPIRES AUGUST 23, 2022

NOTARY FOR STRUCTURE OWNER

ACKNOWLEGED BY:

Structure Owner David Doyle Name David Doyle

Date 3/16/2020 Title Owner

STATE OF Colorado)
) ss.
COUNTY OF Boulder)

The foregoing was acknowledged before me this 16th day of March, 2020, by David Doyle as owner of house on waverley.

Ashleigh Jean Workman My Commission Expires: July 2, 2023
Notary Public

ASHLEIGH JEAN WORKMAN
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20154022957
MY COMMISSION EXPIRES JULY 2, 2023

NOTARY FOR STRUCTURE OWNER

ACKNOWLEGED BY:

Structure Owner S. Linker Name Stan Linker

Date 3/9/2020 Title District Manager

STATE OF Colorado)
) ss.
COUNTY OF Weld)

The foregoing was acknowledged before me this 9 day of MARCH, 2020, by Stan Linker as District Manager of Central Weld Co Water Dist.

Roxanne Garcia My Commission Expires:
Notary Public

Roxanne Garcia
Notary Public
State of Colorado
Notary ID 19974001261
My Commission Expires May 02, 2021

NOTARY FOR STRUCTURE OWNER

ACKNOWLEGED BY:

Structure Owner CCWCD/WAS Name Randy Ray - Executive Director

Date 3/5/2020 Title _____

STATE OF Colorado)
) ss.
COUNTY OF Weld)

The foregoing was acknowledged before me this 5 day of March, 2020 by Randy Ray as Executive Director of CCWCD.

Tammy Rusch
Notary Public

My Commission Expires: May 13, 2021

TAMMY J RUSCH
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20134030345
MY COMMISSION EXPIRES MAY 13, 2021

Tracking Number: 70132250000070213713 - Kerr Mcgee (structure/utility)

Your item was delivered to the front desk, reception area, or mail room at 12:20 pm on March 4, 2020 in DENVER, CO 80202.

Status

Delivered

March 4, 2020 at 12:20 pm
Delivered, Front Desk/Reception/Mail Room
DENVER, CO 80202
Get Updates

Delivered

Text & Email Updates
Tracking History
Product Information

See Less

Remove
Tracking Number: 70190700000024813822 - Weld County (structure/utility)

Your item was delivered at 9:54 am on March 4, 2020 in GREELEY, CO 80631.

Status

Delivered

March 4, 2020 at 9:54 am
Delivered
GREELEY, CO 80631
Get Updates

Delivered

See More

Remove
Tracking Number: 70190700000024813815 - Century Link (structure/utility)

Your item was delivered to an individual at the address at 9:40 am on March 4, 2020 in DENVER, CO 80221.

Status

Delivered

March 4, 2020 at 9:40 am
Delivered, Left with Individual
DENVER, CO 80221
Get Updates

Delivered

See More

Remove
Tracking Number: 70190700000024813785 - Central Weld County Water (structure/utility)

Your item was delivered to an individual at the address at 10:56 am on March 4, 2020 in GREELEY, CO 80631.

Status

Delivered

March 4, 2020 at 10:56 am
Delivered, Left with Individual
GREELEY, CO 80631
Get Updates

Delivered

See More

Remove
Tracking Number: 70190700000024813839 - United Power (structure/utility)

Your item was delivered to an individual at the address at 1:10 pm on March 4, 2020 in BRIGHTON, CO 80603.

Status

Delivered

March 4, 2020 at 1:10 pm
Delivered, Left with Individual
BRIGHTON, CO 80603
Get Updates

Delivered

See More

Remove
Tracking Number: 70190700000024813761 - CCWCD (structure/utility)

Your item was delivered to an individual at the address at 11:57 am on March 4, 2020 in GREELEY, CO 80634.

Status

Delivered

March 4, 2020 at 11:57 am
Delivered, Left with Individual
GREELEY, CO 80634
Get Updates

Delivered

See More

Remove
Tracking Number: 70132250000070213690 - Noble (structure/utility)

Your item was delivered to the front desk, reception area, or mail room at 12:17 pm on March 5, 2020 in DENVER, CO 80202.

Status

Delivered

March 5, 2020 at 12:17 pm
Delivered, Front Desk/Reception/Mail Room
DENVER, CO 80202
Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070213683 - Town of Firestone (structure/utility)

Your item was delivered at 11:40 am on March 5, 2020 in FIRESTONE, CO 80520.

Status

Delivered

March 5, 2020 at 11:40 am
Delivered
FIRESTONE, CO 80520
Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070214109 - St. Vrain Sanitation (structure/utility)

Your item was delivered to an individual at the address at 9:56 am on March 5, 2020 in LONGMONT, CO 80504.

Status

Delivered

March 5, 2020 at 9:56 am
Delivered, Left with Individual
LONGMONT, CO 80504
Get Updates

Delivered

See More

Remove

Tracking Number: 70190700000024813846 - Rural Ditch (structure/utility)

Your item was delivered at 11:30 am on March 7, 2020 in LONGMONT, CO 80501.

Status

Delivered

March 7, 2020 at 11:30 am
Delivered
LONGMONT, CO 80501
Get Updates

Delivered

See More

Remove
Tracking Number: 70132250000070213720 - Last Chance Ditch (structure/utility)

Your item was delivered at 2:22 pm on March 11, 2020 in FREDERICK, CO 80530.

Status

Delivered

March 11, 2020 at 2:22 pm
Delivered
FREDERICK, CO 80530
Get Updates

Delivered

See More

Remove
Tracking Number: 70132250000070214086 – Doyle (resident)

Your item was delivered to an individual at the address at 11:26 am on March 4, 2020 in LONGMONT, CO 80504.

Status

Delivered

March 4, 2020 at 11:26 am
Delivered, Left with Individual

LONGMONT, CO 80504
Get Updates

Delivered

See More

Remove
Tracking Number: 70190700000024813778 – Miller (resident)

Your item was delivered to an individual at the address at 10:49 am on March 4, 2020 in LONGMONT, CO 80504.

Status

Delivered

March 4, 2020 at 10:49 am
Delivered, Left with Individual
LONGMONT, CO 80504
Get Updates

Delivered

See More

Remove
Tracking Number: 70132250000070213997 - Stypa (resident)

Your item was delivered to an individual at the address at 11:11 am on March 4, 2020 in LONGMONT, CO 80504.

Status

Delivered

March 4, 2020 at 11:11 am
Delivered, Left with Individual
LONGMONT, CO 80504
Get Updates

Delivered

See More

Remove
Tracking Number: 70132250000070213973 - Rademacher (resident)

Your item was delivered to an individual at the address at 11:28 am on March 4, 2020 in LONGMONT, CO 80504.

Status

Delivered

March 4, 2020 at 11:28 am
Delivered, Left with Individual
LONGMONT, CO 80504
Get Updates

Delivered

See More

Remove
Tracking Number: 70132250000070213942 - Ralston (resident)

Your item was delivered to an individual at the address at 2:41 pm on March 4, 2020 in LONGMONT, CO 80504.

Status

Delivered

March 4, 2020 at 2:41 pm
Delivered, Left with Individual
LONGMONT, CO 80504
Get Updates

Delivered

See More

Remove
Tracking Number: 70190700000024813709 - Smith (resident)

Your item was delivered to an individual at the address at 11:42 am on March 4, 2020 in LONGMONT, CO 80504.

Status

Delivered

March 4, 2020 at 11:42 am

Delivered, Left with Individual
LONGMONT, CO 80504
Get Updates

Delivered

See More

Remove
Tracking Number: 70190700000024813723 - Till (resident)

Your item was delivered to an individual at the address at 11:31 am on March 4, 2020 in LONGMONT, CO 80504.

Status

Delivered

March 4, 2020 at 11:31 am
Delivered, Left with Individual
LONGMONT, CO 80504
Get Updates

Delivered

See More

Remove
Tracking Number: 70190700000024813730 - Varra (resident)

Your item was delivered to an individual at the address at 12:12 pm on March 4, 2020 in ERIE, CO 80516.

Status

Delivered

March 4, 2020 at 12:12 pm
Delivered, Left with Individual
ERIE, CO 80516
Get Updates

Delivered

See More

Remove

Tracking Number: 70190700000024813747 - Trevino (resident)

Your item was delivered to an individual at the address at 11:36 am on March 4, 2020 in LONGMONT, CO 80504.

Status

Delivered

March 4, 2020 at 11:36 am
Delivered, Left with Individual
LONGMONT, CO 80504
Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070213928 - Lenz (resident)

Your item was delivered to an individual at the address at 11:02 am on March 4, 2020 in LONGMONT, CO 80504.

Status

Delivered

March 4, 2020 at 11:02 am
Delivered, Left with Individual
LONGMONT, CO 80504
Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070214093 - Freas (resident)

Your item was delivered to an individual at the address at 2:39 pm on March 4, 2020 in LONGMONT, CO 80504.

Status

Delivered

March 4, 2020 at 2:39 pm
Delivered, Left with Individual
LONGMONT, CO 80504
Get Updates

Delivered

See More

Remove
Tracking Number: 70132250000070214079 - Hogan (resident)

Your item was delivered to an individual at the address at 11:22 am on March 4, 2020 in LONGMONT, CO 80504.

Status

Delivered

March 4, 2020 at 11:22 am
Delivered, Left with Individual
LONGMONT, CO 80504
Get Updates

Delivered

See More

Remove
Tracking Number: 70190700000024813792 - Salazar (resdient)

Your item was delivered at 3:44 pm on March 5, 2020 in FREDERICK, CO 80530.

Status

Delivered

March 5, 2020 at 3:44 pm
Delivered
FREDERICK, CO 80530
Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070213898 - Conway (resident)

Your item was delivered at 1:50 pm on March 6, 2020 in FREDERICK, CO 80530.

Status

Delivered

March 6, 2020 at 1:50 pm
Delivered
FREDERICK, CO 80530

Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070213980 - Neuman (resident)

Your item was delivered at 2:08 pm on March 6, 2020 in BRIGHTON, CO 80601.

Status

Delivered

March 6, 2020 at 2:08 pm
Delivered
BRIGHTON, CO 80601

Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070214024 - Johnson (resident)

Your item has been delivered to the original sender at 8:35 am on March 17, 2020 in FREDERICK, CO 80530.

Status

Delivered

March 17, 2020 at 8:35 am
Delivered, To Original Sender
FREDERICK, CO 80530
Get Updates

Delivered

See More

Remove
Tracking Number: 70132250000070214062 - Huss (resident)

Your item was delivered at 10:59 am on March 21, 2020 in FREDERICK, CO 80530.

Status

Delivered

March 21, 2020 at 10:59 am
Delivered
FREDERICK, CO 80530
Get Updates

Delivered

See More

Remove
Tracking Number: 70132250000070214048 – Kemner (resident)

Your item could not be delivered on April 1, 2020 at 1:57 pm in FREDERICK, CO 80530. It was held for the required number of days and is being returned to the sender.

Status

Alert

April 1, 2020 at 1:57 pm
Unclaimed/Being Returned to Sender
FREDERICK, CO 80530
Get Updates

Alert

Text & Email Updates
Tracking History
Product Information
See Less

Remove

Tracking Number: 70190700000024813808 - Stinar (resident)

Your package is moving within the USPS network and is on track to be delivered to its final destination. It is currently in transit to the next facility.

Status

In-Transit

March 7, 2020
In Transit to Next Facility
Get Updates

In-Transit

See More

Remove

Tracking Number: 70132250000070214017 – Lee Shawn (resident)

Your package is moving within the USPS network and is on track to be delivered to its final destination. It is currently in transit to the next facility.

Status

In-Transit

March 7, 2020
In Transit to Next Facility
Get Updates

In-Transit

See More

Remove

Tracking Number: 70132250000070214031 – JAR (resident)

Your item has been delivered to the original sender at 8:44 am on April 2, 2020 in FREDERICK, CO 80530.

Status

Delivered

April 2, 2020 at 8:44 am
Delivered, To Original Sender
FREDERICK, CO 80530
Get Updates

Delivered

See More

Remove

Tracking Number: 70190700000024813716 – Weber (resident)

Your package is moving within the USPS network and is on track to be delivered to its final destination. It is currently in transit to the next facility.

Status

In-Transit

March 7, 2020
In Transit to Next Facility
Get Updates

In-Transit

See More

Remove

Tracking Number: 70132250000070213959 – Norton (resident)

Your package is moving within the USPS network and is on track to be delivered to its final destination. It is currently in transit to the next facility.

Status

In-Transit

March 7, 2020
In Transit to Next Facility
Get Updates

In-Transit

See More

Remove

Tracking Number: 70132250000070213874 –Ailor (resident)

Your package is moving within the USPS network and is on track to be delivered to its final destination. It is currently in transit to the next facility.

Status

In-Transit

March 7, 2020
In Transit to Next Facility
Get Updates

In-Transit

See More

Remove

Tracking Number: 70190700000024813860 –Avestruz (resident)

Your package is moving within the USPS network and is on track to be delivered to its final destination. It is currently in transit to the next facility.

Status

In-Transit

March 8, 2020
In Transit to Next Facility
Get Updates

In-Transit

See More

Remove

Tracking Number: 70190700000024813853 – Camacho (resident)

Your package is moving within the USPS network and is on track to be delivered to its final destination. It is currently in transit to the next facility.

Status

In-Transit

March 9, 2020
In Transit to Next Facility
Get Updates

In-Transit

See More

Remove

Tracking Number: 70132250000070214055 – J&J (resident)

Your package is moving within the USPS network and is on track to be delivered to its final destination. It is currently in transit to the next facility.

Status

In-Transit

March 8, 2020
In Transit to Next Facility
Get Updates

In-Transit

See More

Remove

Tracking Number: 70132250000070213904 – Loo (resident)

Your package is moving within the USPS network and is on track to be delivered to its final destination. It is currently in transit to the next facility.

Status

In-Transit

March 9, 2020
In Transit to Next Facility
Get Updates

In-Transit

See More

Remove

Tracking Number: 70132250000070213881 –Berg (resident)

Your item has been delivered to the original sender at 8:56 am on April 1, 2020 in FREDERICK, CO 80530.

Status

Delivered

April 1, 2020 at 8:56 am
Delivered, To Original Sender
FREDERICK, CO 80530
Get Updates

Delivered

See More

Remove

Tracking Number: 70190700000024813754 – Newcomb (resident)

Your item has been delivered to the original sender at 8:56 am on April 1, 2020 in FREDERICK, CO 80530.

Status

Delivered

April 1, 2020 at 8:56 am
Delivered, To Original Sender
FREDERICK, CO 80530
Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070213935 – Rocha (resident)

Your item departed our USPS facility in DENVER CO DISTRIBUTION CENTER on April 2, 2020 at 3:42 pm. The item is currently in transit to the destination.

Status

In-Transit

April 2, 2020 at 3:42 pm
Departed USPS Regional Facility
DENVER CO DISTRIBUTION CENTER
Get Updates

In-Transit

See More

Tracking Number: 70132250000070214000 - Clark (resident)

We attempted to deliver your item at 1:42 pm on March 13, 2020 in FREDERICK, CO 80530 and a notice was left because an authorized recipient was not available.

Status

Delivery Attempt

March 13, 2020 at 1:42 pm
Notice Left (No Authorized Recipient Available)
FREDERICK, CO 80530
Get Updates

Delivery Attempt

See More

Remove

Tracking Number: 70132250000070213911 - Meisner (resident)

We attempted to deliver your item at 2:08 pm on March 13, 2020 in FREDERICK, CO 80530 and a notice was left because an authorized recipient was not available.

Status

Delivery Attempt

March 13, 2020 at 2:08 pm
Notice Left (No Authorized Recipient Available)
FREDERICK, CO 80530
Get Updates

Delivery Attempt

See More

Remove

Tracking Number: 70132250000070213966 - Nieto (resident)

We attempted to deliver your item at 2:08 pm on March 13, 2020 in FREDERICK, CO 80530 and a notice was left because an authorized recipient was not available.

Status

Delivery Attempt

March 13, 2020 at 2:08 pm
Notice Left (No Authorized Recipient Available)
FREDERICK, CO 80530
Get Updates

Delivery Attempt

See More

200' Neighbor Notifications

#	Mail	#	Date
1	Neumann	70132250000070214680,	2/26/2020 - delivered
2	St Vrain Metro District (prop. manager)	70132250000070214444,	2/26/2020 - delivered
3	Varra	70132250000070214482,	2/26/2020 - delivered
4	Town of Firestone (prop. owner/land)	70132250000070214420,	2/26/2020 -delivered
5	Varra Christopher	70080500000080983527,	2/26/2020 -delivered
6	Pelican Shores (prop. manager)	70132250000070214529,	2/26/2020 -delivered
7	11739 County Rd 13 LLC (prop. owner)	70132250000070214536,	2/26/2020 -delivered
8	Sand Land (prop. owner)	70132250000070214123,	2/26/2020 -delivered
9	Lot Holding Investments (prop. owner)	70132250000070214369,	2/26/2020 -delivered
10	Barefoot LLC (prop. owner)	70132250000070214475,	2/26/2020 -delivered
11	Siegrist (per title work..no longer a prop. owner)	70132250000070214499,	2/26/2020 -delivered
12	Weld County (property owner/roads)	70132250000070214116,	2/26/2020 -delivered
13	Neumann	70080500000080983473,	2/26/2020-delivered
14	Sullenberger	70132250000070214574,	2/27/2020 - delivered
15	Comer Patricle	70132250000070214598,	2/27/2020 - delivered
16	Frakes Nathan	70132250000070214666,	2/27/2020 -delivered
17	Miller	70132250000070214178,	2/27/2020 - delivered
18	Renner R E LLC	70132250000070214697,	2/27/2020 -delivered
19	CCWCD (property owner/surrounding ponds)	70080500000080983480,	2/27/2020 -delivered
20	Tricycle Lane (property owner)	70132250000070214376,	2/27/2020 -delivered
21	Loo Moises	70132250000070214185,	2/27/2020-delivered
22	Meisner	70132250000070213843,	2/27/2020-delivered
23	Lee Amanda	70132250000070214543,	2/28/2020 - delivered
24	Petrick	70132250000070214550,	2/28/2020 - delivered
25	Hirt	70132250000070214567,	2/28/2020 - delivered
26	Haney Deris	70132250000070214581,	2/28/2020 -delivered
27	Sun Communities (property manager/eagle crest)	70132250000070214130,	2/28/2020 - delivered
28	JCC Properties	70132250000070214383,	2/28/2020 - delivered
29	Zamora Irmalinda	70132250000070214468,	2/28/2020 - delivered
30	Alerez Nima	70132250000070214628,	2/28/2020 - delivered
31	Marchbanks	70132250000070214635,	2/28/2020 - delivered
32	Prather	70132250000070214659,	2/28/2020 - delivered
33	Wheeler	70132250000070214604,	2/28/2020 -delivered
34	Freas	70132250000070214710,	2/28/2020-delivered
35	Stypa	70132250000070211627,	2/28/2020-delivered
36	Nieto	70132250000070213737,	2/28/2020-delivered
37	Rademacher	70132250000070213744,	2/28/2020-delivered
38	Newcomb	70132250000070213751,	2/28/2020-delivered
39	Rocha	70132250000070213768,	2/28/2020-delivered
40	Smith	70132250000070213775,	2/28/2020-delivered
41	Comacho	70132250000070213799,	2/28/2020-delivered
42	Huss	70132250000070213805,	2/28/2020-delivered
43	Hogan	70132250000070213812,	2/28/2020-delivered
44	Berg	70132250000070213829,	2/28/2020-delivered
45	J&J	70132250000070213836,	2/28/2020-delivered
46	Doyle	70132250000070213850,	2/28/2020-delivered
47	Till	70132250000070213867,	2/28/2020-delivered
48	Trevino	70080500000080983435,	2/28/2020-delivered
49	Hogan	70080500000080983534,	2/28/2020-delivered
50	Kemmer	70080500000080983510,	2/28/2020-delivered
51	Avestruz	70190700000024813679,	2/28/2020-delivered
52	Camacho	70190700000024813686,	2/28/2020-delivered
53	Lenz	70190700000024813693,	2/28/2020-delivered
54	Ralston Lawrence	70080500000080983503,	2/29/2020 - delivered
55	Cox Mike	70132250000070214390,	2/29/2020 - delivered
56	Havenar	70132250000070214642,	2/29/2020 - delivered
57	Salazar	70132250000070214192,	2/29/2020-delivered
58	Ralston	70132250000070214208,	2/29/2020-delivered
59	Clark	70132250000070214215,	2/29/2020-delivered
60	Ralston	70080500000080983503,	2/29/2020-delivered
61	Smith Wilbur	70190700000024813709,	3/4/2020 - delivered
62	New Hope (prop. owner)	70132250000070214413,	3/4/2020 - delivered
63	Aguire Rafeal	70132250000070214406,	3/9/2020 - delivered
64	Pelican Shores (prop. manager)	70132250000070214505,	3/10/2020 - delivered
66	Hall Family (prop. owner)	70132250000070214512,	3/12/2020 - delivered
67	Oleary	70132250000070214673,	3/12/2020 - delivered
68	Huss	70190700000024813662,	3/21/2020 - delivered
65	JAR	70080500000080983466,	3/11/2020 - intransit
69	Mountain Shadows (prop. manager)	70132250000070214611,	3/13/20 - in transit

#	Mail	#	Date
70	Vogl Richard	70132250000070214352,	February 27, 2020, 1:10 am Awaiting Delivery Scan The delivery status of your item has not been updated as of February 27, 2020, 1:10 am. We apologize that it may arrive later than expected.
71	Jamison Linda	70132250000070214451,	February 27, 2020, 1:10 am Awaiting Delivery Scan The delivery status of your item has not been updated as of February 27, 2020, 1:10 am. We apologize that it may arrive later than expected.
72	Bielz	70132250000070214703,	February 27, 2020, 1:10 am Awaiting Delivery Scan The delivery status of your item has not been updated as of February 27, 2020, 1:10 am. We apologize that it may arrive later than expected.
73	Conway	70132250000070213782,	February 27, 2020, 1:10 am Awaiting Delivery Scan The delivery status of your item has not been updated as of February 27, 2020, 1:10 am. We apologize that it may arrive later than expected.
74	Lee Shawn	70080500000080983442,	February 27, 2020, 1:10 am Awaiting Delivery Scan The delivery status of your item has not been updated as of February 27, 2020, 1:10 am. We apologize that it may arrive later than expected.
75	Conway	70080500000080983497,	February 27, 2020, 1:10 am Awaiting Delivery Scan The delivery status of your item has not been updated as of February 27, 2020, 1:10 am. We apologize that it may arrive later than expected.
76	Norton Barbara	70132250000070214154,	February 27, 2020, 1:10 am Awaiting Delivery Scan The delivery status of your item has not been updated as of February 27, 2020, 1:10 am. We apologize that it may arrive later than expected.
77	Norton Gary	70190700000024813655,	February 27, 2020, 1:10 am Awaiting Delivery Scan The delivery status of your item has not been updated as of February 27, 2020, 1:10 am. We apologize that it may arrive later than expected.
78	Weber Robert	70132250000070214161,	February 27, 2020, 1:10 am Awaiting Delivery Scan The delivery status of your item has not been updated as of February 27, 2020, 1:10 am. We apologize that it may arrive later than expected.
79	Ailor	70132250000070214147,	February 27, 2020, 1:10 am Awaiting Delivery Scan The delivery status of your item has not been updated as of February 27, 2020, 1:10 am. We apologize that it may arrive later than expected.
80	Stinar	70080500000080983459,	February 27, 2020, 1:10 am Awaiting Delivery Scan The delivery status of your item has not been updated as of February 27, 2020, 1:10 am. We apologize that it may arrive later than expected.
81	St Vrain Metro District (prop. manager)	70132250000070214437,	2/29/2020 - in transit
82	Johnson Richard	70080500000080983541,	3/5/2020 - available for pickup

Tracking Number: 70132250000070214680 - Neumann

Your item was delivered to an individual at the address at 4:37 pm on February 26, 2020 in BRIGHTON, CO 80602.

Status

Delivered

February 26, 2020 at 4:37 pm
Delivered, Left with Individual
BRIGHTON, CO 80602
Get Updates

Delivered

Text & Email Updates
Tracking History
Product Information

See Less

Remove

Tracking Number: 70132250000070214444 - St Vrain Metro District (prop. manager)

Your item was delivered to the front desk, reception area, or mail room at 12:09 pm on February 26, 2020 in LOVELAND, CO 80537.

Status

Delivered

February 26, 2020 at 12:09 pm
Delivered, Front Desk/Reception/Mail Room
LOVELAND, CO 80537
Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070214482 - Varra

Your item was delivered to an individual at the address at 12:01 pm on February 26, 2020 in ERIE, CO 80516.

Status

Delivered

February 26, 2020 at 12:01 pm
Delivered, Left with Individual
ERIE, CO 80516
Get Updates

Delivered

See More

Remove
Tracking Number: 70132250000070214420 - Town of Firestone (prop. owner/land)

Your item was delivered at 3:42 pm on February 26, 2020 in FIRESTONE, CO 80520.

Status

Delivered

February 26, 2020 at 3:42 pm
Delivered
FIRESTONE, CO 80520
Get Updates

Delivered

See More

Remove
Tracking Number: 70080500000080983527 - Varra Pasquale

Your item was delivered to an individual at the address at 12:01 pm on February 26, 2020 in ERIE, CO 80516.

Status

Delivered

February 26, 2020 at 12:01 pm

Delivered, Left with Individual
ERIE, CO 80516
Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070214529 - Varra Christopher

Your item was delivered to the front desk, reception area, or mail room at 11:24 am on February 26, 2020 in LONGMONT, CO 80501.

Status

Delivered

February 26, 2020 at 11:24 am
Delivered, Front Desk/Reception/Mail Room
LONGMONT, CO 80501
Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070214536 - Pelican Shores (prop. manager)

Your item was delivered at 1:40 pm on February 26, 2020 in LONGMONT, CO 80501.

Status

Delivered

February 26, 2020 at 1:40 pm
Delivered
LONGMONT, CO 80501
Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070214123 - 11739 County Rd 13 LLC (prop. owner)

Your item was delivered to an individual at the address at 12:01 pm on February 26, 2020 in ERIE, CO 80516.

Status

Delivered

February 26, 2020 at 12:01 pm
Delivered, Left with Individual
ERIE, CO 80516
Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070214369 - Lot Holding Investments (prop. owner)

Your item was delivered to the front desk, reception area, or mail room at 12:38 pm on February 26, 2020 in MILLIKEN, CO 80543.

Status

Delivered

February 26, 2020 at 12:38 pm
Delivered, Front Desk/Reception/Mail Room
MILLIKEN, CO 80543
Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070214475 - Barefoot LLC (prop. owner)

Your item was delivered to the front desk, reception area, or mail room at 3:28 pm on February 26, 2020 in ENGLEWOOD, CO 80111.

Status

Delivered

February 26, 2020 at 3:28 pm
Delivered, Front Desk/Reception/Mail Room
ENGLEWOOD, CO 80111
Get Updates

Delivered

See More

Remove
Tracking Number: 70132250000070214499 - Siegrist (per title work..no longer a prop. owner)

Your item was delivered to the front desk, reception area, or mail room at 11:51 am on February 26, 2020 in DENVER, CO 80221.

Status

Delivered

February 26, 2020 at 11:51 am
Delivered, Front Desk/Reception/Mail Room
DENVER, CO 80221
Get Updates

Delivered

See More

Remove
Tracking Number: 70132250000070214116 - Weld County (property owner/roads)

Your item was delivered at 9:54 am on February 26, 2020 in GREELEY, CO 80632.

Status

Delivered

February 26, 2020 at 9:54 am
Delivered
GREELEY, CO 80632
Get Updates

Delivered

See More

Remove
Tracking Number: 70080500000080983473 - Neumann

Your item was delivered to an individual at the address at 4:37 pm on February 26, 2020 in BRIGHTON, CO 80602.

Status

Delivered

February 26, 2020 at 4:37 pm
Delivered, Left with Individual
BRIGHTON, CO 80602
Get Updates

Delivered

See More

Remove
Tracking Number: 70132250000070214574 - Sullenberger

Your item was delivered to an individual at the address at 5:13 pm on February 27, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 27, 2020 at 5:13 pm
Delivered, Left with Individual
LONGMONT, CO 80504
Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070214598 - Comer Patricle

Your item was delivered to an individual at the address at 5:11 pm on February 27, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 27, 2020 at 5:11 pm
Delivered, Left with Individual
LONGMONT, CO 80504

Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070214666 - Frakes Nathan

Your item was delivered to an individual at the address at 5:09 pm on February 27, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 27, 2020 at 5:09 pm
Delivered, Left with Individual
LONGMONT, CO 80504

Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070214178 - Miller

Your item was delivered to an individual at the address at 5:56 pm on February 27, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 27, 2020 at 5:56 pm
Delivered, Left with Individual
LONGMONT, CO 80504
Get Updates

Delivered

See More

Remove
Tracking Number: 70132250000070214697 - Renner R E LLC

Your item was delivered at 11:08 am on February 27, 2020 in WELLINGTON, CO 80549.

Status

Delivered

February 27, 2020 at 11:08 am
Delivered
WELLINGTON, CO 80549
Get Updates

Delivered

See More

Remove
Tracking Number: 70080500000080983480 - CCWCD (property owner/surrounding ponds)

Your item was delivered to the front desk, reception area, or mail room at 11:39 am on February 27, 2020 in GREELEY, CO 80634.

Status

Delivered

February 27, 2020 at 11:39 am
Delivered, Front Desk/Reception/Mail Room

GREELEY, CO 80634
Get Updates

Delivered

See More

Remove
Tracking Number: 70132250000070214376 - Tricycle Lane (property owner)

Your item was delivered to an individual at the address at 1:32 pm on February 27, 2020 in IRVING, TX 75063.

Status

Delivered

February 27, 2020 at 1:32 pm
Delivered, Left with Individual
IRVING, TX 75063
Get Updates

Delivered

See More

Remove
Tracking Number: 70132250000070214185 - Loo Moises

Your item was delivered to an individual at the address at 5:53 pm on February 27, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 27, 2020 at 5:53 pm
Delivered, Left with Individual
LONGMONT, CO 80504
Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070213843 - Meisner

Your item was delivered to an individual at the address at 5:48 pm on February 27, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 27, 2020 at 5:48 pm
Delivered, Left with Individual
LONGMONT, CO 80504
Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070214543 - Lee Amanda

Your item was delivered to an individual at the address at 11:08 am on February 28, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 28, 2020 at 11:08 am
Delivered, Left with Individual
LONGMONT, CO 80504
Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070214550 - Petrick

Your item was delivered to an individual at the address at 11:08 am on February 28, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 28, 2020 at 11:08 am
Delivered, Left with Individual
LONGMONT, CO 80504
Get Updates

Delivered

See More

Remove
Tracking Number: 70132250000070214567 - Hirt

Your item was delivered to an individual at the address at 5:17 pm on February 27, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 27, 2020 at 5:17 pm
Delivered, Left with Individual
LONGMONT, CO 80504
Get Updates

Delivered

See More

Remove
Tracking Number: 70132250000070214581 - Haney Deris

Your item was delivered to an individual at the address at 11:08 am on February 28, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 28, 2020 at 11:08 am
Delivered, Left with Individual
LONGMONT, CO 80504
Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070214130 - Sun Communities (property manager/eagle crest)

Your item was delivered to an individual at the address at 12:17 pm on February 28, 2020 in SOUTHFIELD, MI 48034.

Status

Delivered

February 28, 2020 at 12:17 pm
Delivered, Left with Individual
SOUTHFIELD, MI 48034

Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070214383 - JCC Properties

Your item was delivered to an individual at the address at 3:45 pm on February 28, 2020 in MEAD, CO 80542.

Status

Delivered

February 28, 2020 at 3:45 pm
Delivered, Left with Individual
MEAD, CO 80542

Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070214468 - Zamora Irmalinda

Your item was delivered to an individual at the address at 11:08 am on February 28, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 28, 2020 at 11:08 am
Delivered, Left with Individual
LONGMONT, CO 80504
Get Updates

Delivered

See More

Remove
Tracking Number: 70132250000070214628 - Alerez Nima

Your item was delivered to an individual at the address at 11:08 am on February 28, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 28, 2020 at 11:08 am
Delivered, Left with Individual
LONGMONT, CO 80504
Get Updates

Delivered

See More

Tracking Number: 70132250000070214635 - Marchbanks

Your item was delivered to an individual at the address at 11:08 am on February 28, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 28, 2020 at 11:08 am

Delivered, Left with Individual
LONGMONT, CO 80504
Get Updates

Delivered

Text & Email Updates
Tracking History
Product Information
See Less

Remove

Tracking Number: 70132250000070214659 - Prather

Your item was delivered to an individual at the address at 11:08 am on February 28, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 28, 2020 at 11:08 am
Delivered, Left with Individual
LONGMONT, CO 80504
Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070214604 - Wheeler

Your item was delivered to an individual at the address at 11:08 am on February 28, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 28, 2020 at 11:08 am
Delivered, Left with Individual
LONGMONT, CO 80504

Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070214710 - Freas

Your item was delivered to an individual at the address at 11:08 am on February 28, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 28, 2020 at 11:08 am
Delivered, Left with Individual
LONGMONT, CO 80504

Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070211627 - Stypa

Your item was delivered to an individual at the address at 11:08 am on February 28, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 28, 2020 at 11:08 am
Delivered, Left with Individual
LONGMONT, CO 80504

Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070213737 - Nieto

Your item was delivered to an individual at the address at 11:08 am on February 28, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 28, 2020 at 11:08 am
Delivered, Left with Individual
LONGMONT, CO 80504
Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070213744 - Rademacher

Your item was delivered to an individual at the address at 11:08 am on February 28, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 28, 2020 at 11:08 am
Delivered, Left with Individual
LONGMONT, CO 80504
Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070213751 - Newcomb

Your item was delivered to an individual at the address at 11:08 am on February 28, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 28, 2020 at 11:08 am
Delivered, Left with Individual
LONGMONT, CO 80504
Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070213768 - Rocha

Your item was delivered to an individual at the address at 11:08 am on February 28, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 28, 2020 at 11:08 am
Delivered, Left with Individual
LONGMONT, CO 80504
Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070213775 - Smith

Your item was delivered to an individual at the address at 11:08 am on February 28, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 28, 2020 at 11:08 am
Delivered, Left with Individual
LONGMONT, CO 80504
Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070213799 - Comacho

Your item was delivered to an individual at the address at 11:08 am on February 28, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 28, 2020 at 11:08 am
Delivered, Left with Individual
LONGMONT, CO 80504
Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070213805 - Huss

Your item was delivered to an individual at the address at 11:08 am on February 28, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 28, 2020 at 11:08 am
Delivered, Left with Individual
LONGMONT, CO 80504

Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070213812 - Hogan

Your item was delivered to an individual at the address at 11:08 am on February 28, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 28, 2020 at 11:08 am
Delivered, Left with Individual
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Remove

Tracking Number: 70132250000070213829 - Hogan

Your item was delivered to an individual at the address at 11:08 am on February 28, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 28, 2020 at 11:08 am
Delivered, Left with Individual
LONGMONT, CO 80504

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Remove

Tracking Number: 70132250000070213836 - J&J

Your item was delivered to an individual at the address at 11:08 am on February 28, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 28, 2020 at 11:08 am
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LONGMONT, CO 80504
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Remove

Tracking Number: 70132250000070213850 - Doyle

Your item was delivered to an individual at the address at 11:08 am on February 28, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 28, 2020 at 11:08 am
Delivered, Left with Individual
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Remove

Tracking Number: 70132250000070213867 - Till

Your item was delivered to an individual at the address at 11:08 am on February 28, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 28, 2020 at 11:08 am
Delivered, Left with Individual
LONGMONT, CO 80504
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Remove

Tracking Number: 70080500000080983435 - Trevino

Your item was delivered to an individual at the address at 11:08 am on February 28, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 28, 2020 at 11:08 am
Delivered, Left with Individual
LONGMONT, CO 80504
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Remove

Tracking Number: 70080500000080983534 - Hogan

Your item was delivered to an individual at the address at 11:08 am on February 28, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 28, 2020 at 11:08 am
Delivered, Left with Individual
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Remove

Tracking Number: 70080500000080983510 - Kemmer

Your item was delivered to an individual at the address at 11:08 am on February 28, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 28, 2020 at 11:08 am
Delivered, Left with Individual
LONGMONT, CO 80504
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Remove

Tracking Number: 70190700000024813679 - Avestruz

Your item was delivered to an individual at the address at 11:08 am on February 28, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 28, 2020 at 11:08 am
Delivered, Left with Individual
LONGMONT, CO 80504

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Remove

Tracking Number: 70190700000024813686 - Camacho

Your item was delivered to an individual at the address at 11:08 am on February 28, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 28, 2020 at 11:08 am
Delivered, Left with Individual
LONGMONT, CO 80504
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Remove

Tracking Number: 70190700000024813693 - Lenz

Your item was delivered to an individual at the address at 11:08 am on February 28, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 28, 2020 at 11:08 am
Delivered, Left with Individual
LONGMONT, CO 80504
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Remove

Tracking Number: 70080500000080983503 - Ralston Lawrence

Your item has been delivered to an agent at 3:53 pm on February 29, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 29, 2020 at 3:53 pm
Delivered, To Agent
LONGMONT, CO 80504
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See More

Remove

Tracking Number: 70132250000070214390 - Cox Mike

Your item has been delivered to an agent at 3:53 pm on February 29, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 29, 2020 at 3:53 pm
Delivered, To Agent
LONGMONT, CO 80504
Get Updates

Delivered

See More

Remove

Tracking Number: 70132250000070214642 - Havenar

Your item has been delivered to an agent at 3:53 pm on February 29, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 29, 2020 at 3:53 pm
Delivered, To Agent
LONGMONT, CO 80504
Get Updates

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See More

Remove

Tracking Number: 70132250000070214192 - Salazar

Your item has been delivered to an agent at 3:53 pm on February 29, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 29, 2020 at 3:53 pm
Delivered, To Agent
LONGMONT, CO 80504
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See More

Remove

Tracking Number: 70132250000070214208 - Ralston

Your item has been delivered to an agent at 3:53 pm on February 29, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 29, 2020 at 3:53 pm
Delivered, To Agent
LONGMONT, CO 80504
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Remove

Tracking Number: 70132250000070214215 - Clark

Your item has been delivered to an agent at 3:24 pm on February 29, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 29, 2020 at 3:24 pm
Delivered, To Agent
LONGMONT, CO 80504
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See More

Tracking Number: 70080500000080983503 - Ralston

Your item has been delivered to an agent at 3:53 pm on February 29, 2020 in LONGMONT, CO 80504.

Status

Delivered

February 29, 2020 at 3:53 pm
Delivered, To Agent
LONGMONT, CO 80504
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Delivered

Text & Email Updates
Tracking History
Product Information

See Less

Remove
Tracking Number: 70190700000024813709 - Smith Wilbur

Your item was delivered to an individual at the address at 11:42 am on March 4, 2020 in LONGMONT, CO 80504.

Status

Delivered

March 4, 2020 at 11:42 am
Delivered, Left with Individual
LONGMONT, CO 80504
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Delivered

See More

Remove
Tracking Number: 70132250000070214413 - New Hope (prop. owner)

Your item was delivered at 11:57 am on March 4, 2020 in FREDERICK, CO 80530.

Status

Delivered

March 4, 2020 at 11:57 am
Delivered
FREDERICK, CO 80530
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Delivered

See More

Remove
Tracking Number: 70132250000070214406 - Aguire Rafeal

Your item was delivered at 4:06 pm on March 9, 2020 in FREDERICK, CO 80530.

Status

Delivered

March 9, 2020 at 4:06 pm
Delivered
FREDERICK, CO 80530
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See More

Remove
Tracking Number: 70132250000070214505 - Pelican Shores (prop. manager)

Your item has been delivered and is available at a PO Box at 9:34 am on March 10, 2020 in FREDERICK, CO 80530.

Status

Delivered

March 10, 2020 at 9:34 am
Delivered, PO Box
FREDERICK, CO 80530
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Delivered

See More

Remove
Tracking Number: 70132250000070214512 - Hall Family (prop. owner)

Your item was delivered at 1:03 pm on March 12, 2020 in MILLIKEN, CO 80543.

Status

Delivered

March 12, 2020 at 1:03 pm
Delivered

MILLIKEN, CO 80543
Get Updates

Delivered

See More

Remove
Tracking Number: 70132250000070214673 - Oleary

Your item was delivered at 9:11 am on March 12, 2020 in FREDERICK, CO 80530.

Status

Delivered

March 12, 2020 at 9:11 am
Delivered
FREDERICK, CO 80530
Get Updates

Delivered

See More

Remove
Tracking Number: 70190700000024813662 - Huss

Your item was delivered at 10:59 am on March 21, 2020 in FREDERICK, CO 80530.

Status

Delivered

March 21, 2020 at 10:59 am
Delivered
FREDERICK, CO 80530
Get Updates

Delivered

See More

Remove
Tracking Number: 70080500000080983466 - JAR

Your package is moving within the USPS network and is on track to be delivered to its final destination. It is currently in transit to the next facility.

Status

In-Transit

March 11, 2020
In Transit to Next Facility
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In-Transit

See More

Remove
Tracking Number: 70132250000070214611 - Mountain Shadows (prop. manager)

Your package is moving within the USPS network and is on track to be delivered to its final destination. It is currently in transit to the next facility.

Status

In-Transit

March 13, 2020
In Transit to Next Facility
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In-Transit

See More

Remove
Tracking Number: 70132250000070214352 - Vogl Richard

The delivery status of your item has not been updated as of February 27, 2020, 1:10 am. We apologize that it may arrive later than expected.

Status

Alert

February 27, 2020 at 1:10 am
Awaiting Delivery Scan

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Alert

See More

Remove

Tracking Number: 70132250000070214451 - Jamison Linda

The delivery status of your item has not been updated as of February 27, 2020, 1:10 am. We apologize that it may arrive later than expected.

Status

Alert

February 27, 2020 at 1:10 am
Awaiting Delivery Scan

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Alert

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Remove

Tracking Number: 70132250000070214703 - Bielz

The delivery status of your item has not been updated as of February 27, 2020, 1:10 am. We apologize that it may arrive later than expected.

Status

Alert

February 27, 2020 at 1:10 am
Awaiting Delivery Scan

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Alert

See More

Remove

Tracking Number: 70132250000070213782 - Conway

The delivery status of your item has not been updated as of February 27, 2020, 1:10 am. We apologize that it may arrive later than expected.

Status

Alert

February 27, 2020 at 1:10 am
Awaiting Delivery Scan
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Alert

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Remove
Tracking Number: 70080500000080983442 - Lee Shawn

The delivery status of your item has not been updated as of February 27, 2020, 1:10 am. We apologize that it may arrive later than expected.

Status

Alert

February 27, 2020 at 1:10 am
Awaiting Delivery Scan
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Alert

See More

Remove
Tracking Number: 70080500000080983497 - Conway

The delivery status of your item has not been updated as of February 27, 2020, 1:10 am. We apologize that it may arrive later than expected.

Status

Alert

February 27, 2020 at 1:10 am
Awaiting Delivery Scan
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Remove

Tracking Number: 70132250000070214154 - Norton Barbara

The delivery status of your item has not been updated as of February 27, 2020, 1:10 am. We apologize that it may arrive later than expected.

Status

Alert

February 27, 2020 at 1:10 am
Awaiting Delivery Scan

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Remove

Tracking Number: 70190700000024813655 - Norton Gary

The delivery status of your item has not been updated as of February 27, 2020, 1:10 am. We apologize that it may arrive later than expected.

Status

Alert

February 27, 2020 at 1:10 am
Awaiting Delivery Scan

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Remove

Tracking Number: 70132250000070214161 - Weber Robert

The delivery status of your item has not been updated as of February 27, 2020, 1:10 am. We apologize that it may arrive later than expected.

Status

Alert

February 27, 2020 at 1:10 am
Awaiting Delivery Scan
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Alert

See More

Remove
Tracking Number: 70132250000070214147 - Ailor

The delivery status of your item has not been updated as of February 27, 2020, 1:10 am. We apologize that it may arrive later than expected.

Status

Alert

February 27, 2020 at 1:10 am
Awaiting Delivery Scan
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Alert

See More

Remove
Tracking Number: 70080500000080983459 - Stinar

The delivery status of your item has not been updated as of February 27, 2020, 1:10 am. We apologize that it may arrive later than expected.

Status

Alert

February 27, 2020 at 1:10 am
Awaiting Delivery Scan
Get Updates

Alert

See More

Remove

Tracking Number: 70132250000070214437 - St Vrain Metro District (prop. manager)

Your package is moving within the USPS network and is on track to be delivered to its final destination. It is currently in transit to the next facility.

Status

In-Transit

February 29, 2020
In Transit to Next Facility

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In-Transit

See More

Remove

Tracking Number: 70080500000080983541 - Johnson Richard

Your item arrived at the FREDERICK, CO 80530 post office at 11:17 am on March 5, 2020 and is ready for pickup.

Status

Available for Pickup

March 5, 2020 at 11:17 am
Available for Pickup
FREDERICK, CO 80530

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Available for Pickup

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STABILITY REPORT

April 3, 2020

Mr. Mark Johnson
Burnco Concrete and Aggregate
301 Centennial Drive
Milliken, CO 80543

Re: Stability Analysis for the Vogl Amendment of the Shores Gravel Mine

Dear Mr. Johnson:

This letter has been prepared to address the Mined Land Reclamation Board (MLRB) Construction Materials Rule 6, Section 4, Subsection 19, Exhibit S - Permanent Man-Made Structures (6.4.19, Exhibit S) for the proposed Vogl Amendment of the Shores Gravel Mine located in Weld County, Colorado. This letter describes the project and slope stability analyses utilized to evaluate the minimum distance between the edge of mining and adjacent structures to avoid damage to the structure.

The site is located west and north of the intersection of Weld County Roads 11 ¼ and 26, immediately north of the Town of Firestone, Colorado. More specifically, the mine is within parts of Section 1, Township 2 North, Range 68 West and Section 36, Township 3 North, Range 68 West of the 6th Principal Meridian. The site is 200 feet south of the Saint Vrain River at its closest point. Land uses in the area include agricultural, oil and gas production, active gravel mines, gravel mines reclaimed as below grade reservoirs, and residential housing. The mine plan is shown on Figure 1.

The site will be mined in four cells referred to as Cell 1, Cell 2a, Cell 2b, and Cell 3. The Cells 2a and 3 will be lined with soil-bentonite slurry walls and will be reclaimed as below grade reservoirs. Cells 1 and 2b will be unlined and will receive wash fines from the processing of mined sand and gravel. The unlined cells (Cells 1 and 2b) will be mined at a slope of 2 horizontal to 1 vertical (2H:1V). The lined cells (Cells 2a and 3) will be mined at a slope of 3H:1V.

Based on the stability analyses, this report indicates that the setbacks and perimeter slopes in the mining plan are sufficient to protect structures within 200 feet of the permitted mining boundary. Actual setbacks may be greater due to permit limitations, zoning requirements, construction issues, agreements with owners, and extent of economically mineable aggregate or other issues.

GEOLOGY

The Site is located approximately 17 miles east of the eastern flank of the Rocky Mountain Front Range. Younger sedimentary strata dip eastward off the Pre-Cambrian igneous and metamorphic rocks that form the core of the Front Range into the Denver Structural Basin. The Denver Basin is an asymmetrical downwarp of sedimentary strata with a steeply dipping west limb and a gently dipping east limb.

Bedrock does not crop out at the site, however regional geologic mapping of the area (Colton, 1978) indicates the near surface bedrock at the site is most likely the Upper Transition Member of the Pierre Shale with the Fox Hills Sandstone mapped just to the east. Colton (1978) describes the Upper Transition Member as friable sandstone containing sandy shale and large calcareous sandstone concretions. Colton (1978) describes the Fox Hills Sandstone as cross bedded sandstone that grades downward to a fine grained silty sandstone interbedded with gray fissle shale. The regional mapping indicates the bedrock is overlain by the Post Piney Creek and Piney Creek Alluviums. The Piney Creek is mapped over the area of Cell 1 and parts of Cells 2a and 3. The Post Piney Creek is mapped at parts of Cells 2a and 3 and all of Cell 2b. Colton (1978) describes these alluvial deposits as sandy to gravelly alluvium.

GEOTECHNICAL CONDITIONS

Based on the site investigations, the natural site stratigraphy generally consists of three main units: 1) Overburden generally consisting of sandy clay and clayey and silty sands; 2) sand and gravel alluvial deposits that underlie the overburden and overlie the bedrock; and 3) bedrock usually consisting of sandy claystone with local areas of sandstone. These units are described in more detail below.

3.5.1 Overburden Unit

The overburden at the site typically consists of brown sandy clay and clayey to silty sand that locally overlies a buff silty sand. The surficial brown clayey to silty sand overburden unit is typically approximately 2 to 3 feet thick with the top 6 to 8 inches containing significant organics. This unit is locally thinner to not present or is locally as thick as 5 feet.

3.5.2 Sand & Gravel Unit

The sand and gravel is present throughout the site underlying the overburden and overlying the bedrock. This unit typically consists of gravelly, fine to coarse grained sand locally grading to sandy gravel. This unit ranges in thickness from approximately 10 feet to 22 feet.

3.5.3 Bedrock

The bedrock encountered in the exploratory borings was generally weathered in the upper one to two feet typically becoming harder in unweathered zones. The bedrock consisted of sandy claystone with local sandstone. The approximate top of bedrock contours are presented on Figure 1.

3.5.4 Groundwater

Groundwater was encountered in all of the borings at approximately 4 to 9 feet below ground surface. The groundwater levels will vary seasonally and will typically rise during the irrigation season. Groundwater will be controlled with the proposed below grade slurry wall to be constructed in cell 2a, 3, and Pond A. After slurry wall construction, groundwater mounding is anticipated on the upgradient (west and south) side of the site and a groundwater shadow (deeper water table) is anticipated on the downgradient (north and east) side the site. Cells 1 and 2b will be dewatered with perimeter dewatering trenches excavated into the bedrock. The dewatering will extend beyond the perimeter of these mine cells.

From a geotechnical standpoint, the sand and gravel will form the majority of the mine slopes. These soils are generally strong and stable, particularly when dewatered. Submittal

STRUCTURES WITH 200 FEET OF DISTURBED AREAS

The known, permanent, man-made structures within 200 feet of the proposed mine areas that are not owned by Burnco are listed below:

UTILITIES:

CENTRAL WELD WATER, ST. VRAIN SANITATION, KERR-MCGEE OIL & GAS/ANADARKO/OXY, NOBLE ENERGY, UNITED POWER, CENTURY LINK, WELD COUNTY PUBLIC WORKS, RURAL DITCH, LAST CHANCE DITCH, TOWN OF FIRESTONE.

HOME OWNERS WITH HOUSES WITHIN 200':

NEUMANN JAMES A, AILOR MICHAEL JOSEPH, NORTON GARY L, WEBER ROBERT ALAN, GROUND WATER MANAGEMENT SUBDISTRICTOF THE CCWCD, VARRA CHRISTOPHER, MILLER ROBERT L, LOO MOISES, SALAZAR MATTHEW J, RALSTON LAWRENCE ALLAN, MEISNER DAWN J, CLARK ROBERT, FREAS PETER W, STYPA ERIC, NIETO CHIRELLE, JOHNSON RICHARD K, RADEMACHER VINCE, NEWCOMB RICHARD SCOTT JR, AVESTRUZ ANTHONY C, ROCHA DESTANIE R, SMITH WILBUR R, CONWAY CHRISTOPHER JEFFREY, CAMACHO MARCO, LENZ GREG, HUSS SCOTT P, HOGAN JOSEPH DANIEL, BERG BERNARD I, J AND J , ANAGEMENT LLC WAVERLY, DOYLE DAVID, TILL STEVEN ROBERT JR, TREVINO SELSO JR, J A R HOLDINGS, LLC, VOGL RICHARD J, STINAR TOM, LEE JENNY L, SUN COMMUNITIES

STABILITY ANALYSES

Recently, Division of Reclamation and Mining Safety (DRMS) staff drafted a policy regarding stability analyses of neighboring structures. The draft summarizes adequate factors of safety (FOS) for non-critical and critical structures. The structures around the Vogl Amendment and Shores Gravel mine are, for the most part, considered critical structures. Discussions with the author of the memo, Mr. Tim Cazier, indicate the FOS will be adopted by the Mined Land Reclamation Board (MLRB). The FOS are for both static and seismic (from an earthquake) stability analyses. For generalized strength assumptions and critical structures, a FOS of 1.5 is considered sufficient for static conditions and a FOS of 1.3 is considered suitable for seismic conditions.

The stability of structures within 200 feet of the proposed mining limits was evaluated at nine (9) sections. The sections evaluated either at the tallest high wall or in the area of the closest structure in each mine cell under anticipated loading conditions around the perimeter of the site as discussed below. The computer program XSTABL was used for the analysis. The method for selecting the critical failure surface for each analyzed loading condition is the following. The Modified Bishop's Method of Analysis is used to find the critical failure surface by randomly searching with 20 termination points and 20 initiation points (400 failure circles) with 7 foot line segments over the slope surface and at the structure in question to determine the lowest factor of safety. Both static stability under anticipated mining conditions and seismic stability under peak ground acceleration loads were performed. Seismic loading was obtained from the U.S.G.S. Unified Hazard Tool. Review of the Hazard Tool indicated a maximum horizontal acceleration of 0.096g with a return period of 2,475 years for the site.

The seven cross section locations were selected and analyzed as described below. All of the sections met adequate FOS as summarized below in Table 1. The section locations are shown on Figure 1.

- Cell 1:

  Section D This section is on the northwest side of Cell 1 and considers the tallest mine highwall of this cell where the mine highwall is closest to the Last Chance Ditch. The stability analysis for this section assumes a mine highwall sloped at 2 horizontal to 1 vertical (2H:1V). The nearest structure is the Last Chance Ditch located approximately 31 feet to the northwest. The stability analysis on this section was run with potential failure circles initiating at the ditch and terminating in the area near the base of the mine highwall.

  Section F This section is on the west side of Cell 1 and considers the tallest highwall on the west side of the cell where the mine is closest to a fence. The stability analysis for this section assumes a mine highwall sloped at 2 horizontal to 1 vertical (2H:1V). The nearest structure is the fence located approximately 25 feet to the west. The stability analysis on this section was run with potential failure circles initiating at the fence and terminating in the area near the base of the mine highwall.

  Section G This section is on the south side of Cell 1 and considers the case of the closest structure to the mine (the Rural Ditch). The stability analysis for this section assumes a mine highwall sloped at 2 horizontal to 1 vertical (2H:1V). The nearest structure is the Rural Ditch located approximately 17 feet to the south. The stability analysis on this section was run with potential failure circles initiating at the Rural Ditch and terminating in the area near the base of the mine highwall. The analyses indicated a sufficient FOS. However, this FOS was the lowest of all the sections analyzed. The mine limit was moved another 20 feet to the north. The actual FOS will be greater than the FOS presented below (Table 1).

Cell 2a:

Section B This section is on the northeast side of Cell 2a and considers the case of the tallest highwall and the closest structure (a gravel road). The stability analysis for this section assumes the presence of a slurry wall and a mine highwall of 3H:1V. The gravel road is located approximately 45 feet north of the highwall. The stability analysis on this section was run with potential failure circles initiating at the gravel road and terminating in the area near the base of the mine highwall.

Section E This section is on the northwest side of Cell 2a and considers the case of the tallest highwall and the closest structure (a fence) on this side of the cell. The stability analysis for this section assumes the presence of a slurry wall and a mine highwall of 3H:1V. The fence is located approximately 47 feet west of the highwall. The stability analysis on this section was run with potential failure circles initiating at the fence and terminating in the area near the base of the mine highwall.

- Cell 2b:

Section A This section is on the northeast side of cell 2b and is the tallest highwall in the cell. The stability analysis for this section assumes a mine highwall sloped at 2 horizontal to 1 vertical (2H:1V). The nearest structure is a fence located approximately 20 feet to the north. The stability analysis on this section was run with potential failure circles initiating at the fence and terminating in the area near the base of the mine highwall.

- Cell 3:

Section C This section is on the northeast side of cell 3 where the tallest highwall is present. The nearest structure is the Tri-Town Drainge District drain channel located approximately 45 feet to the east. The stability analysis for this section assumes the presence of a slurry wall and a mine highwall of 3H:1V. The stability analysis on this section was run with potential failure circles initiating at the drainage ditch and terminating in the area near the base of the mine highwall.

- Pond A:

Section H This section is on the west side of Pond A in an unmined area with a previously constructed slurry wall. Available borehole data indicates the depth to bedrock and corresponding highwall height would be approximately 21 or 22 feet. We conservatively modeled this section with a highwall height of 30 feet. The highwall is 25 feet from the slurry wall and mined at a 3H;1V slope. The nearest structure is a gas line located approximately 31 feet from the mine limit. The stability analysis on this section was run with potential failure circles initiating at the gas line and terminating in the area near the base of the mine highwall.

Section I This section is on the north side of Pond A (Shores Gravel Mine) in an unmined area with a previously constructed slurry wall. Available borehole data indicates the depth to bedrock and corresponding highwall height would be approximately 21 or 22 feet. We conservatively modeled this section with a highwall height of 30 feet. The highwall is 25 feet from the slurry wall and mined at a 3H;1V slope. The nearest structure is the Rural Ditch located approximately 74 feet from the mine limit. The stability analysis on this section was run with potential failure circles initiating at the Rural Ditch and terminating in the area near the base of the mine highwall.

MATERIAL PROPERTIES

The material index and engineering strengths assumed in this slope stability report are discussed below.

Overburden

The strength properties for the insitu sandy clay to silty to clayey sand overburden were based on field testing data and on our engineering judgment; the following parameters have been used to model the overburden.

Dry Unit Weight (pcf)	*Moist Unit Weight (pcf)*	*Saturated Unit Weight (pcf)*	*Cohesion C' psf*	*Friction Angle Φ'*
Native 103	114	126	50	29

Alluvial Sand and Gravel

The sand and gravel is generally a medium to coarse-grained sand that is medium dense to dense and locally gravelly. The alluvial sand and gravel was modeled as follows:

Dry Unit Weight (pcf)	*Moist Unit Weight (pcf)*	*Saturated Unit Weight (pcf)*	*Cohesion C' psf*	*Friction Angle Φ'*
119	129	130	0	35

Bedrock

Bedrock below the alluvium is predominately sandy claystone with local sandstone. Sandstone is typically stronger than claystone. Claystone is generally a weak bedrock. To be conservative, we modeled the bedrock as claystone. For the claystone bedrock, two potential strength conditions were considered. These strength conditions are referred to as: 1) peak strength, and 2) residual strength.

Peak strength is the maximum shear strength the claystone bedrock exhibits. The shear strength is made up of both cohesion (diagenetic bonding) and internal friction. Under short-term conditions for unsheared claystone, peak strength governs behavior. If a sheared surface or sheared zone is present within claystone as a result of faulting, slippage between beds due to folding, past shrink-swell behavior, stress relief, weathering, or from a landslide, the cohesion along the sheared surface is reduced to zero, and the angle of internal friction is decreased, due to alignment of clay minerals parallel to the shear plane. Under these conditions a claystone exhibits its lowest strength known as residual strength. Residual strength bedrock occurs in discrete zones, parallel with the sheared surface or zone, whereas fully softened strength occurs over a broader area (not used in this modeling). Based on data from other recent projects and engineering judgment, the residual strength claystone was modeled in a one-foot thick layer overlying the peak strength bedrock as follows:

Dry Unit Weight (pcf)	*Moist Unit Weight (pcf)*	*Saturated Unit Weight (pcf)*	*Cohesion C' psf*	*Friction Angle Φ'*
116	Peak = 126 Residual = 110	Peak = 135 Residual = 133	Peak = 100 Residual = 0	Peak = 27 Residual = 15

Soil-Bentonite Slurry Wall

The proposed slurry wall will consist of a mix of the overburden clayey to silty sand, alluvial sand, and imported bentonite. The resulting mix will produce a non-Newtonian fluid with some shear strength characteristics based on a reduced friction angle of the overlying overburden. Based on engineering judgment, we modeled the slurry wall as follows:

Dry Unit Weight (pcf)	*Moist Unit Weight (pcf)*	*Saturated Unit Weight (pcf)*	*Cohesion C' psf*	*Friction Angle Φ'*
NA	112	115	0	0

STABILITY ANALYSES RESULTS

The stability analyses assumed the mining will be per the mine plan. The plan includes dewatering with a series of perimeter drains in Cells 1 and 2b and perimeter highwalls of 2 horizontal to 1 vertical. Dry mining will occur in cells 2a and 3 as the water level in these cells will be controlled by slurry walls. The perimeter mine slopes of cells 2a and will be no steeper than 3H:1V.

Setbacks listed in Table 1 (below) indicate the setback from the structure to the mining limits. The setback distance can be increased as needed to address other restrictions such as weaker than anticipated soils, deeper mining, or unanticipated groundwater.

The factor of safety shown below in Table 1 is the minimum factor of safety of the conditions listed above.

TABLE 1 - SLOPE STABILITY RESULTS AND SETBACKS

Cell	Section	Critical Structure	Structure Setback From Mine Limit (ft)	Static Factor of Safety at Structure	Seismic Factor of Safety at Structure (0.096g horizontal)	DRMS Draft FOS Requirement Static/Quake
Cell 1	D	Last Chance Ditch	31	2.1	1.5	1.5/1.3
Cell 1	F	Fence	25	2.1	1.5	1.5/1.3
Cell 1	G	Rural Ditch	17	1.6	1.3	1.5/1.3
Cell 2a	B	Gravel Road	45	2.6	1.7	1.5/1.3
Cell 2a	E	Fence	47	2.8	1.8	1.5/1.3
Cell 2b	A	Fence	20	1.8	1.4	1.5/1.3
Cell 3	C	Drainage Channel	45	2.7	1.8	1.5/1.3
Pond A	H	Gas Line	31	2.1	1.5	1.5/1.3
Pond A	I	Rural Ditch	74	3.2	1.8	1.5/1.3

CONCLUSIONS

Based on the Factors of Safety listed in the table above, the mine will not be a hazard to neighboring structures provided the structure and slurry wall offsets, as well as the perimeter mine slopes, follow the mine plan.

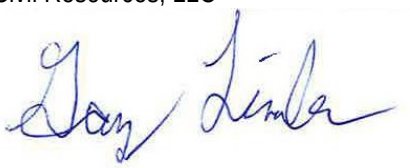
LIMITATIONS

Our review is based on regional geologic mapping, present mining plans, and in part borehole data by Civil Resources and others. Stability analyses were performed using typical strength parameters for the various strata in the critical sections. Should the mining plans change or subsurface conditions vary from those portrayed in this letter, we should be contacted in order to re-evaluate the potential affects on permanent man-made structures. Stability analyses were run at the structure in question and were not run on failure surfaces closer to the highwall. Note also that surcharge loads due to temporary material stockpiles and overburden berms were not considered in the analysis.

Please call with any questions or comments.

Sincerely,

Civil Resources, LLC



Gary Linden, P.G.
Senior Engineering Geologist

Attachments: Figure – Mine Plan showing boring locations and sections used.
XSTABL Model Outputs: Sections 1, 2, and 3

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LEGEND:

- EDGE OF ASPHALT
- EDGE OF GRAVEL
- EDGE OF CONCRETE
- BUILDING
- FLOWLINE
- FENCE LINE
- PIPE
- GAS — GAS LINE
- W — WATER LINE
- OHE — OVERHEAD POWER LINE
- SS — SANITARY LINE
- E — UNDERGROUND POWER LINE
- T — UNDERGROUND TELEPHONE LINE
- TOP OF BANK
- TOE OF BANK
- 4876 — ONE FOOT CONTOUR
- 4835 — 5 FOOT CONTOUR
- SECTION LINE
- PROPERTY LINE
- FLOODPLAIN
- POTENTIAL WETLANDS
- STRUCTURE
- PROPOSED PERMIT BOUNDARY
- 200' OFFSET
- BFE:4820 — BASE FLOOD ELEVATION
- SLURRY WALL

- MONITORING WELL
- ELECTRIC BOX
- ELECTRIC METER
- POWER POLE
- GAS WELL
- GAS MARKER
- STEEL POST
- WOOD POST
- SANITARY MANHOLE
- SANITARY MARKER
- MAILBOX
- TELEPHONE PEDESTAL
- DRAINAGE MANHOLE
- WATER VALVE
- WATER METER
- WATER MARKER
- SIGN
- FOUND ALIQUOT CORNER AS DESCRIBED
- SET ALIQUOT CORNER AS DESCRIBED

NORTH
0 175 350
(IN FEET)

APPLICANT:

BESTWAY CONCRETE COMPANY, INC
301 CENTENNIAL DRIVE
MILLIKEN, CO 80543

AFFECTED LANDS:

TRICYLE LANE TEXAS LLC
LOT HOLDING, LLC
STINAR & VOGL

TOTAL PERMIT AREA:
510.8 ACRES

PROPERTY ADDRESS:
11401 COUNTY ROAD 9 3/4
FIRESTONE, CO. 80504

SURVEY INFO:

KING SURVEYORS
650 E. Garden Drive | Windsor, Colorado 80550
phone: (970) 686-5011 |
email: info@KingSurveyors.com

NOTE:

CIVIL RESOURCES, LLC. IS NOT RESPONSIBLE FOR SAFETY, IN, ON, OR ABOUT THE PROJECT SITE, NOR FOR COMPLIANCE BY THE APPROPRIATE PARTY OF ANY REGULATIONS THERETO.

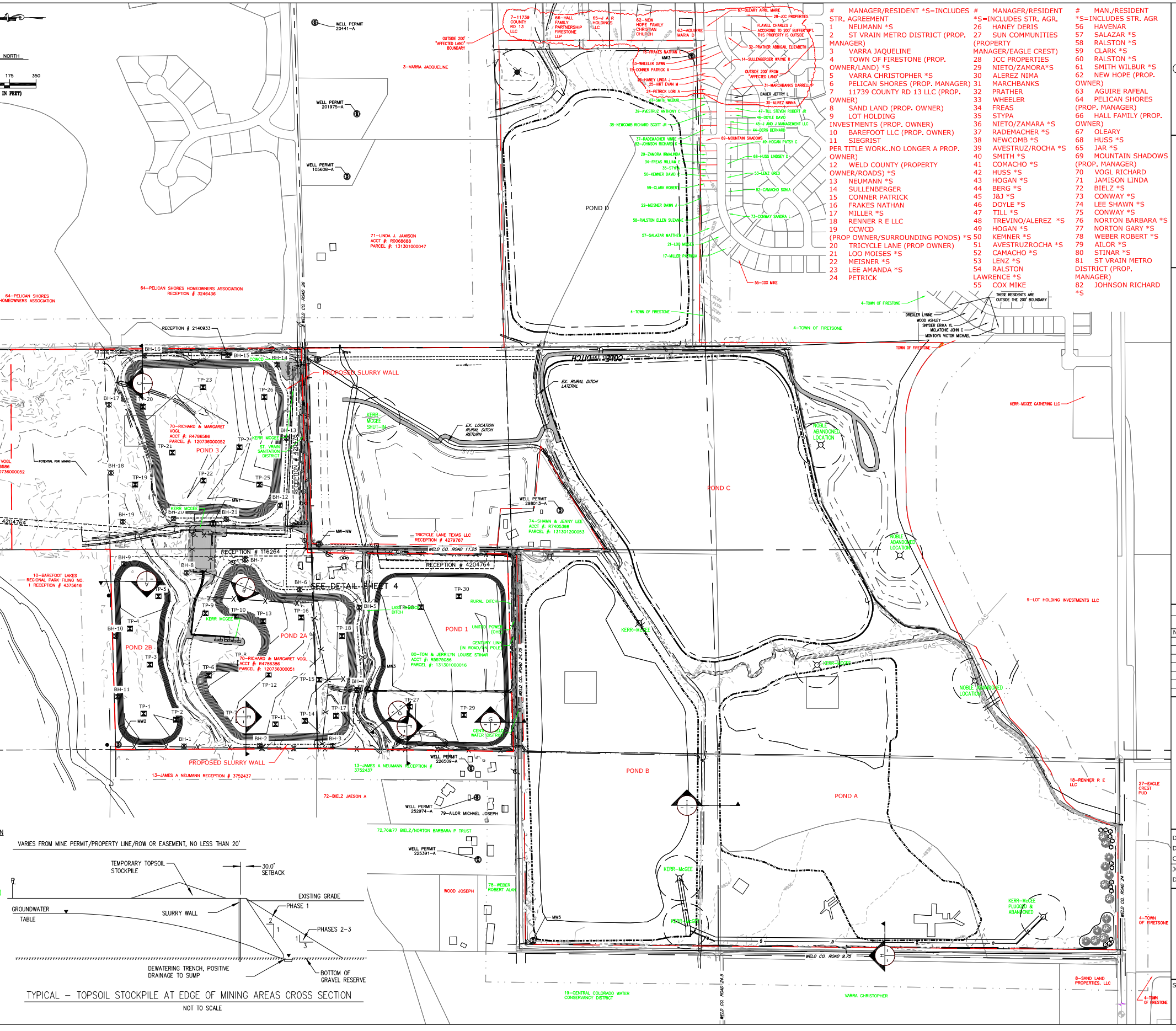
THESE MAPS WERE PREPARED BY CIVIL RESOURCES, LLC. IN COOPERATION WITH BESTWAY CONCRETE. BESTWAY WILL KEEP THE DIVISION OF RECLAMATION MINING AND SAFETY INFORMED OF ANY CHANGES TO THE MINING OR RECLAMATION PLANS THROUGH ANNUAL REPORTS AND FILE TECHNICAL REVISIONS AND AMENDMENT APPLICATIONS AS NECESSARY THROUGHOUT THE LIFE OF THE MINE.

STRUCTURE INFO:

SEE EXHIBIT S IN DRMS SUBMITTAL
UTILITIES (ALL UTILITIES RECEVED A STR. AGREEMNET):
KERR MCGEE (STRUCTURE/UTILITY)
CENTURY LINK (STRUCTURE/UTILITY)
CENTRAL WELD COUNTY WATER (STRUCTURE/UTILITY)
UNITED POWER (STRUCTURE/UTILITY)
NOBLE (STRUCTURE/UTILITY)
ST. VRAIN SANITATION (STRUCTURE/UTILITY)
RURAL DITCH (STRUCTURE/UTILITY)
LAST CHANCE DITCH (STRUCTURE/UTILITY)
TOWN OF FIRESTONE (STRUCTURE/UTILITY/LAND)
CCWCD (STRUCTURE/UTILITY/LAND)
WELD COUNTY (STRUCTURE/UTILITY/LAND)
MOUNTAIN SHADOWS HOA (ROW/LAND)

SEE EXHIBIT S IN DRMS SUBMITTAL.HOME OWNERS WITH HOUSES WITHIN 200' OF "AFFECTED LAND" (SEE TABLE IN UPPER CORNER FOR FULL NOTIFICATION LIST. RESIDENTS BELOW RECEIVED BOTH A 200' NOTIFICATION & A STRUCTURE AGREEMENT):

AILOR (RESIDENT)
AVESTRUZ (RESIDENT)
BERG (RESIDENT)
CAMACHO (RESIDENT)
CLARK (RESIDENT)
CONWAY (RESIDENT)
DOYLE (RESIDENT)
FREAS (RESIDENT)
HOGAN (RESIDENT)
HUSS (RESIDENT)
J&J (RESIDENT)
JAR (RESIDENT)
JOHNSON (RESIDENT)
KEMNER (RESIDENT)
LEE SHAWN (RESIDENT)
LENZ (RESIDENT)
LOO (RESIDENT)
MEISNER (RESIDENT)
MILLER (RESIDENT)
NEUMAN (RESIDENT)
NEWCOMB (RESIDENT)
NIETO (RESIDENT)
NORTON (RESIDENT, BIELZ)
RADEMACHER (RESIDENT)
RALSTON (RESIDENT)
ROCHA (RESIDENT)
SALAZAR (RESIDENT)
SMITH (RESIDENT)
STINAR (RESIDENT)
STYPA (RESIDENT)
TILL (RESIDENT)
TREVINO (RESIDENT)
VARRA (RESIDENT)
WEBER (RESIDENT)



VARIES FROM MINE PERMIT/PROPERTY LINE/ROW OR EASEMENT, NO LESS THAN 20'

TYPICAL – TOPSOIL STOCKPILE AT EDGE OF MINING AREAS CROSS SECTION

NOT TO SCALE

#	MANAGER/RESIDENT *S=INCLUDES STR. AGREEMENT
1	NEUMANN *S
2	ST VRAIN METRO DISTRICT (PROP. MANAGER)
3	VARRA JAQUELINE
4	TOWN OF FIRESTONE (PROP. OWNER/LAND) *S
5	VARRA CHRISTOPHER *S
6	PELICAN SHORES (PROP. MANAGER)
7	11739 COUNTY RD 13 LLC (PROP. OWNER)
8	SAND LAND (PROP. OWNER)
9	LOT HOLDING INVESTMENTS (PROP. OWNER)
10	BAREFOOT LLC (PROP. OWNER)
11	SIEGRIST PER TITLE WORK..NO LONGER A PROP. OWNER)
12	WELD COUNTY (PROPERTY OWNER/ROADS) *S
13	NEUMANN *S
14	SULLENBERGER
15	CONNER PATRICK
16	FRAKES NATHAN
17	MILLER *S
18	RENNER R E LLC
19	CCWCD (PROP OWNER/SURROUNDING PONDS) *S
20	TRICYCLE LANE (PROP OWNER)
21	LOO MOISES *S
22	MEISNER *S
23	LEE AMANDA *S
24	PETRICK

#	MANAGER/RESIDENT *S=INCLUDES STR. AGR.
26	HANEY DERIS
27	SUN COMMUNITIES (PROPERTY MANAGER/EAGLE CREST)
28	JCC PROPERTIES
29	NIETO/ZAMORA*S
30	ALEREZ NIMA
31	MARCHBANKS
32	PRATHER
33	WHEELER
34	FREAS
35	SITYPA
36	NIETO/ZAMARA *S
37	RADEMACHER *S
38	NEWCOMB *S
39	AVESTRUZ/ROCHA *S
40	SMITH *S
41	COMACHO *S
42	HUSS *S
43	HOGAN *S
44	BERG *S
45	J&J *S
46	DOYLE *S
47	TILL *S
48	TREVINO/ALEREZ *S
49	HOGAN *S
50	KEMNER *S
51	AVESTRUZROCHA *S
52	CAMACHO *S
53	LENZ *S
54	RALSTON LAWRENCE *S
55	COX MIKE

#	MAN./RESIDENT *S=INCLUDES STR. AGR
56	HAVENAR
57	SALAZAR *S
58	RALSTON *S
59	CLARK *S
60	RALSTON *S
61	SMITH WILBUR *S
62	NEW HOPE (PROP. OWNER)
63	AGUIRE RAFEAL
64	PELICAN SHORES (PROP. MANAGER)
66	HALL FAMILY (PROP. OWNER)
67	OLEARY
68	HUSS *S
69	MOUNTAIN SHADOWS (PROP. MANAGER)
70	VOGL RICHARD
71	JAMISON LINDA
72	BIELZ *S
73	CONWAY *S
74	LEE SHAWN *S
75	CONWAY *S
76	NORTON BARBARA *S
77	NORTON GARY *S
78	WEBER ROBERT *S
79	AILOR *S
80	STINAR *S
81	ST VRAIN METRO DISTRICT (PROP. MANAGER)
82	JOHNSON RICHARD *S

CIVILRES OURCES,LLC
323 5th STREET
P.O. Box 680
FREDERICK, CO 80530
303.813.1416
WWW.CIVILRESOURCES.COM

BESTWAY CONCRETE & AGGREGATE
301 CENTENNIAL DR.
MILLIKEN, CO 80543
970 587 7277
CONTACT: MARK JOHNSON

VOGL GRAVEL MINE
GRAVEL MINE AMENDMENT
WELD COUNTY COLORADO

REVISIONS

NO.	DESCRIPTION	DATE
1	ADQ REVIEW 1	04/09/2020

DESIGNED BY: XXX DATE: XXX XX, 2014
DRAWN BY: XXX SCALE: AS NOTED
CHECKED BY: XXX AS NOTED
JOB NO.: 213.001.38
DWG NAME: DRMS-VOGL-OVERALL.DWG

STRUCTURES & STABILITY SECTION PLAN VIEW

SHEET:

FIG. 2

J:\Bestway-213\vogl\drawings\SHEETS\drms-vogl-overall.dwg, 4/9/2020 2:37:28 PM

SIGN POSTING

ADVERTISEMENT

PROOF OF PUBLICATION
FORT LUPTON PRESS
WELD COUNTY
STATE OF COLORADO

I, Steve Smith do solemnly swear that I am the Publisher of the **Fort Lupton Press** the same is a weekly newspaper printed and published in the County of Weld, State of Colorado, and has a general circulation therein; that said newspaper has been published continuously and uninterruptedly in said county of Weld for a period of more than fifty-two consecutive weeks prior to the first publication of the annexed legal notice or advertisement; that said newspaper has been admitted to the United States mails as second-class matter under the provisions of the act of March 3, 1879, or any amendments thereof, and that said newspaper is a weekly newspaper duly qualified for publishing legal notices and advertisements within the meaning of the laws of the State of Colorado. That the annexed legal notice or advertisement was published in the regular and entire issue of every number of said weekly newspaper for the period of **FOUR consecutive insertion(s)** and that the first publication of said notice was in the issue of newspaper, dated **26th day of February, 2020** the last on the **18th day of March, 2020.**

Stephen D. Smith

Publisher, Subscribed and sworn before me,
this **18th day of March, 2020**

Bobi Lopez

Notary Public.

Bobi Lopez
Notary Public
State of Colorado
Notary ID 20024002511
My Commission Expires
March 26, 2023

PUBLIC NOTICE

Bestway Concrete is applying for an amendment to their MLRB permit to mine sand at the project site. Site is within the northwest ¼ of Section 1, Township 2 North, Range 68 West of the 6th Principal Meridian and within the southwest ¼ of Section 36, Township 3 North, Range 68 West of the 6th Principal Meridian. And within the east ½ of the southwest ¼ of Section 36, Township 3 North, Range 68 West of the 6th Principal Meridian. The site is generally bounded on the south by the existing Shores Gravel mine, on the north and by the St. Vrain River, and on the east and west by rural residential, fallow fields, and undeveloped parcels. The project is located in Weld County, Colorado.

The proposed date of commencement is late of 2020 or early 2021, and the proposed date of completion is winter 2030. The proposed future use of the land is water storage and pasture.

Additional information and tentative decision date may be obtained from the Division of Reclamation Mining and Safety, 1313 Sherman Street, Room 215, Denver, Colorado 80203, (303) 866-3567, or at the Clerk to the Board of County commissioners, or the above named applicant.

Comments must be in writing and must be received by the Division of Reclamation Mining and Safety by 4:00 p.m. on April 7th (20th day after the 4th publication)

Please contact Andy Rodriguez with Civil Resources at (303) 833-1416 ex. 202 if you have any questions or comments regarding this application. Scheduled to be published in the Ft. Lupton Press February 26, March 4, and March 11 and 18, 2020.
000Y0OW

DOW DUE DILIGENCE

6.4.8 Exhibit H - Wildlife Information

Wildlife Assessment

Site Description

Savage and Savage initially conducted an on-site wildlife assessment for the Burnco Vogl project site project on August 2, 2019. The Vogl project site is comprised of approximately 160 acres within the SW¼ of Section 29, the E½ of Section 31, and the NW¼ of Section 32, all within Township 3 North, Range 67 West of the 6th Prime Meridian Weld County, Colorado. The property is bounded on the north by the St. Vrain River, the east the Pelican Shores development, the south by Weld County Roads 26 and 26½, and west by private residences. The property was accessed from Weld County Road 26½.

Weather during our site investigation was mild, dry, and clear with a high temperature in the mid-70's (ºF). The topography of the site is dominated by the primary and secondary alluvial terraces of the St. Vrain River. The elevation of the project area averages 4820 feet and slopes gently to the north toward the St. Vrain River. The soils that dominate the site are formed from alluvium and consist of gravel bars, loams, and clays. The significant hydrologic feature on the site is the St. Vrain River. The Last Chance irrigation ditch enters the site along the west edge of the property, traverses the southwest segment of the property, and eventually flows into the St. Vrain River to the northeast of the project site. Another irrigation ditch complex enters the property from south of County Road 26, flowing east along the property boundary and irrigating the agricultural field to the north.

A riparian woodland community of plains cottonwoods (*Populus deltoides*) dominates the riparian corridor immediately adjacent to the St. Vrain River and the primary alluvial terrace to the south of the river corridor. This riparian corridor is dominated by mature cottonwoods with a scattered dense coyote willow shrub understory with a moderate to dense herbaceous understory component dominated by cattails (*Typha latifolia* and *Typha angustifolia*) and reed canarygrass (*Phalaris arundinacea*).

Ruderal mesic and xeric vegetation communities are located within, west, and south of the riparian woodland vegetation community. These vegetation communities are dominated by secondary successional plant species, including; alkali sacaton (*Sporobolus airoides*), meadow foxtail (*Hordeum jubatum*), smooth brome (*Bromus inermis*), white sweetclover (*Melilotus alba*), knapweed varieties (*Centaurea* sp.), kochia (*Kochia scoparia*), bull thistle (*Cirsium vulgare*), field bindweed (*Convolvulus arvensis*), horseweed (*Conyza canadensis*), and curlycup gumweed (*Grindelia squarrosa*).

An old field lies at the south edge of the primary alluvial terrace on the east half of the project site. This vegetation community is dominated by smooth brome, intermediate wheatgrass (*Agropyron intermedium*), inland saltgrass (*Distichlis spicata*), kochia, curly dock (*Rumex crispus*), and cheatgrass (*Bromus tectorum*). Within the old field is a

crescent of wetland vegetation, dominated by three square (*Scirpus americanus*) and cattails.

Active and inactive agricultural areas dominate the remainder of the project site, with individual fields within the west, southwest, and southeast areas of the project site. At the time of our investigation, the west and southwest agricultural areas were planted to corn, while the southeast field was fallow.

Significant Wildlife Resources

Tables 1, 2, and 3 list wildlife species that potentially occur on-site according to the Colorado Distribution Latilong Studies (CDOW, 1981, 1990, 1998). The latilong studies address mammals, birds, reptiles, and amphibians.

A further review of wildlife species for which the Colorado Division of Parks and Wildlife has distribution maps on the Colorado Oil and Gas Conservation Commission web site (http://cogcc.state.co.us/infosys/Maps/wildlifemap.cfm) revealed that the far northwest and north areas along the St. Vrain River are within the sensitive wildlife habitat boundaries for a bald eagle winter night roost (see appended map).

During our site investigation we encountered a number of avian species within the project site. Killdeer (*Charadrius vociferus*), mourning doves (*Zenaida macroura*), great blue herons (*Ardea herodias*), red-tail hawks (*Buteo jamaicensis*), a Swainson's hawk (*Buteo swainsoni*), white pelicans (*Pelecanus erythrorhynchos*), anhingas (*Anhinga anhinga*), and red-winged blackbirds (*Agelaius phoeniceus*) were all seen flying or soaring over the riparian corridor or fields.

Coyote (*Canis latrans*) scat was encountered, as were raccoon (*Procyon lotor*) tracks. A number of whitetail deer (*Odocoileus virginianus*) were observed within the riparian woodland.

Seasonal Use

With the exception of bats, the mammal species encountered during the site inspection or that potentially occur on-site are expected to be year-round residents or users of the site. The carnivore and ungulate species are not restricted to this site and tend to have relatively large home ranges (up to several square miles). The majority of rodent and insectivore species can be expected to reside on-site throughout the year, though many may hibernate during the cold months. Avian species may be year-round, temporary migrants, or summer residents of the site. Year-round residents would include the waterfowl, raptors, gallinaceous birds, pigeons, owls, and woodpeckers. The majority of the shorebirds and passerines would use the site during the spring, summer, and fall for feeding or resting during migration. Amphibian and reptile species of the site are year-round residents.

Threatened and Endangered Species and Critical Habitat

Potential habitat for the Preble's meadow jumping mouse (*Zapus hudsonius preblei*) and Ute ladies'-tresses orchid (*Spiranthes diluvialis*) were evaluated based on results of a search of potentially occurring threatened or endangered species on the U.S. Fish and Wildlife Service web site for Weld County, Colorado. Additionally, bald eagle (*Haliaeetus leucocephalus*) nest locations and winter night roost locales were evaluated from the Colorado Oil and Gas Conservation Commission (COGCC) web site map of sensitive wildlife habitat and restricted surface occupancy areas for protected wildlife species.

Potential habitat exists for the Preble's meadow jumping mouse within the cottonwood riparian corridor along the banks of the St. Vrain River. As the current proposed mine plan does not include disturbance to potential Preble's meadow jumping mouse critical habitat, no further evaluation was undertaken. If future project activities include disturbance to potential habitat, the permittee will obtain clearance and/or approval from the U.S. Fish and Wildlife Service.

Potential habitat for the Ute ladies'-tresses orchid is present along the St. Vrain River primary alluvial floodplain that includes riverbanks and oxbows south of the river. Habitat is also present along irrigation ditches and within other depressions and swales on the site. The current proposed mine plan does not include disturbance to Ute ladies'-tresses orchid potential critical habitat, therefore, no further evaluation was undertaken. If future project activities include disturbance to potential habitat, the permittee will obtain clearance and/or approval from the U.S. Fish and Wildlife Service.

No eagles or nests were observed during our investigation of the site. The map of significant wildlife habitat from COGCC identified a bald eagle winter night roost area along the St. Vrain River that encompasses portions of the project site. The proposed plan does not include disturbance within the designated bald eagle winter night roost area. If future project activities include activities within the restricted area, the permittee will obtain clearance and/or approval from the Colorado Division of Parks and Wildlife.

Project Effects to Wildlife

The Vogl project site is proposed for mineral (sand and gravel) extraction activities. The post-mining land use will include slurry-walled cells for water storage.

Noise and air emissions during mining will cause a temporary disturbance to wildlife. Species such as raccoons, coyotes, beaver, deer, and raptors will continue to use the riparian corridor during mining operations and the site itself when operations are not active. Bird species will use the periphery of the site and the site itself opportunistically, if prey or food species are present.

The proposed project will extract material and leave cells within the site. Permanent reclamation of the site will entail grading, respreading topsoil, and seeding and planting

perennial species that will support wildlife. The mining and reclamation will create a more diverse habitat than is currently present. Areas of open water will sustain additional species of reptiles and amphibians as well as shorebirds and waterfowl. The addition of the water will create fringe environments favorable to predatory mammals and raptors, as well as food and water sources for herbivores. With the planting of additional cottonwood trees and shrubs, additional strata and vegetation layers will be added to the site, creating improved cover, foraging, roosting, and nesting areas for wildlife.

It has been our observation that the majority of riparian corridors along the Front Range of Colorado consist primarily of mature cottonwood trees with little or no recruitment. This being the case, there will come a time when the mature cottonwood trees are gone and the overstory structure of the riparian corridor will be lost. Reclamation within the permit area and cottonwood riparian corridor could, in the long term, be of great benefit in maintaining the riparian corridor. Planting cottonwoods of varying ages throughout the riparian corridor as part of the reclamation would provide replacement trees for the mature cottonwoods, and enhance the overall existing riparian corridor habitat.

At this point, the proposed mineral extraction plan for the Vogl project site has not been finalized. Based on the reconnaissance information collected for this assessment, it is recommended that the riparian corridor area within the northeast area of the project site remain undisturbed, for the following reasons; the area contains a bald eagle winter night roost designated as significant wildlife habitat by Colorado Parks and Wildlife, the area contains potential habitat for two listed threatened or endangered species, Preble's meadow jumping mouse and Ute ladies-tresses orchid, and the area is a mosaic of wetlands and waters of the United States.

Literature Cited

Colorado Division of Wildlife. 1981 Ed. Colorado Reptile and Amphibian Distribution Latilong Study.

Colorado Division of Wildlife and The Denver Museum of Natural History. 1990 Ed. Colorado Mammal Distribution Latilong Study.

Colorado Division of Wildlife in cooperation with the Colorado Field Ornithologists. 1998 Ed. Colorado Bird Distribution Latilong Study.

Colorado Oil and Gas Conservation Commission. 2019. Web Map. (https://cogccmap.state.co.us/cogcc_gis_online/)

Vogl RSO and SWH Areas COGCC Aug 2019

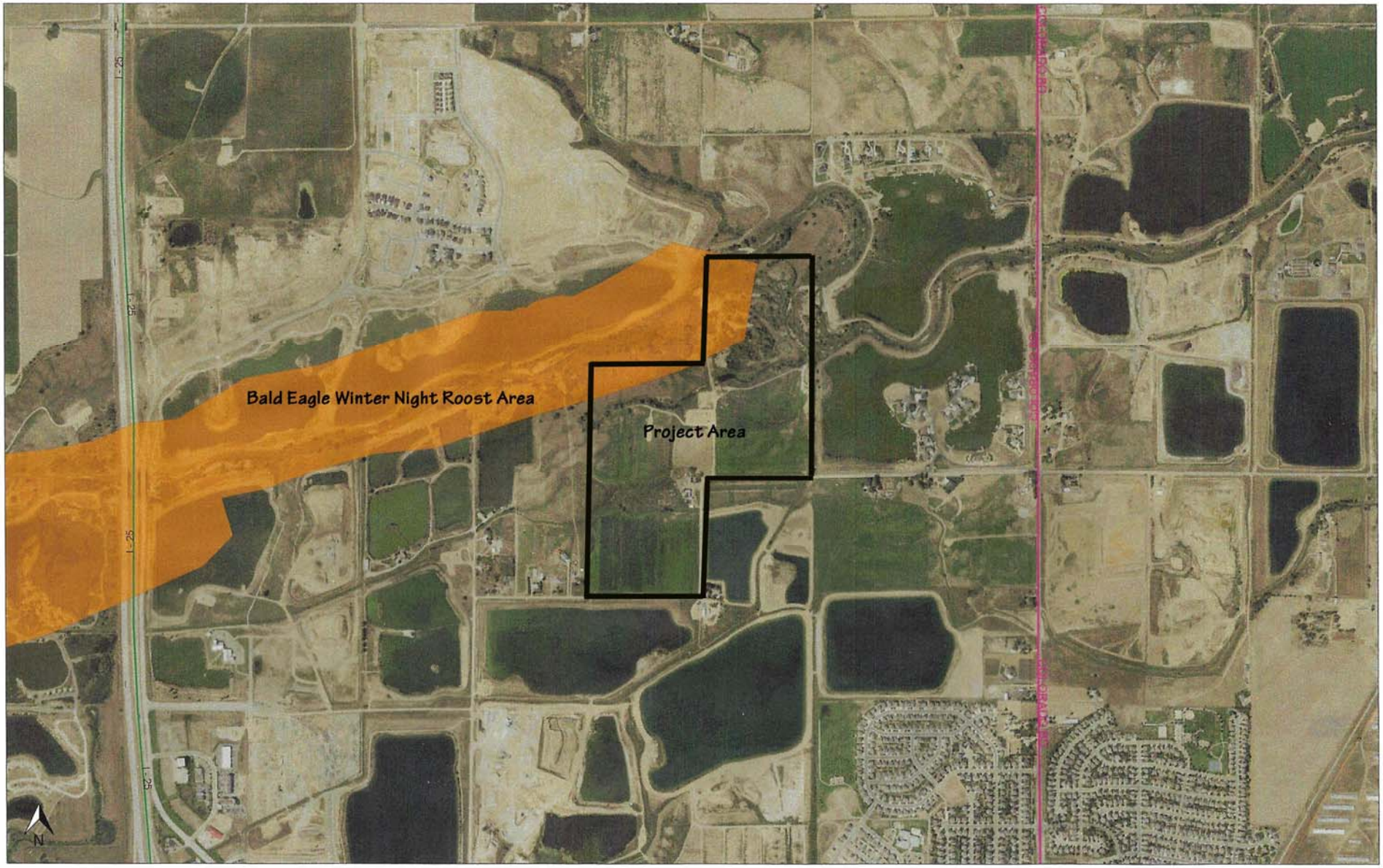


Table 1. Mammal Species Potentially Inhabiting the Vogl Project Site

Classification/Common Name	Scientific Name	Preferred Habitat
Marsupials		
Virginia Opossum	*Didelphis virginiana*	RpL, Ag, Cr
Carnivores		
Coyote	*Canis latrans*	All types
Swift Fox	*Vulpes velox*	SgP, Ag
Red Fox	*Vulpes*	Ag
Raccoon	*Procyon lotor*	RpL, Ag
Long-tailed Weasel	*Mustela nigripes*	All types except Ri
Mink	*Mustela vison*	RpL
Badger	*Taxidea taxus*	SgP
Striped Skunk	*Mephitis*	All types except Ri
Ungulates		
Mule Deer	*Odocoileus hemionus*	RpL, Ag
White-tailed Deer	*Odocoileus virginianus*	RpL, Cr, Ag
Antelope	*Antilocapra americana*	SgP
Lagomorphs		
Desert Cottontail	*Sylvilagus audubonii*	SgP, RpL
Eastern Cottontail	*Sylvilagus floridanus*	RpL
Black-tailed Jack Rabbit	*Lepus californicus*	SgP
White-tailed Jackrabbit	*Lepus townsendii*	SgP
Rodents		
Wyoming Ground Squirrel	*Spermophilus elegans*	Ag
Spotted Ground Squirrel	*Spermophilus spilosoma*	SgP
Thirteen-lined Ground Squirrel	*Spermophilus tridecemlineatus*	SgP
Black-tailed Prairie Dog	*Cynomys ludovicianus*	SgP, Ag
Fox Squirrel	*Sciurus niger*	RpL
Northern Pocket Gopher	*Thomomys talpoides*	SgP, Ag
Plains Pocket Gopher	*Geomys bursarius*	Ag
Olive-backed Pocket Mouse	*Perognathus fasciatus*	SgP
Plains Pocket Mouse	*Perognathus flavescens*	SgP
Silky Pocket Mouse	*Perognathus flavus*	SgP
Hispid Pocket Mouse	*Chaetodipus hispidus*	SgP, RpL
Ord's Kangaroo Rat	*Dipodomys ordii*	SgP, RpL
Beaver	*Castor canadensis*	Ri, RpL
Western Harvest Mouse	*Reithrodontomys megalotis*	SgP, RpL, Ag
Plains Harvest Mouse	*Reithrodontomys montanus*	SgP

Classification/Common Name	Scientific Name	Preferred Habitat
Rodents		
Deer Mouse	*Peromyscus maniculatus*	All types
Northern Grasshopper Mouse	*Onychomys leucogaster*	SgP, Cr
Prairie Vole	*Microtus ochrogaster*	SgP, RpL, Ag
Meadow Vole	*Microtus pennsylvanicus*	RpL
Muskrat	*Ondatra zibethicus*	Ri
Norway Rat	*Rattus norvegicus*	RpL, Cr
House Mouse	*Mus musculus*	RpL, Cr
Porcupine	*Erethizon dorsatum*	SgP, Ag, RpL
Insectivores		
Least Shrew	*Cryptotis parva*	RpL, roadsides
Bats		
Western Small-footed Myotis	*Myotis ciliolabrum*	SgP
Red Bat	*Lasiurus borealis*	RpL
Hoary Bat	*Lasurius cinereus*	RpL
Silver-haired Bat	*Lasionycteris noctivagans*	RpL
Big Brown Bat	*Eptesicus fuscus*	RpL

Habitat Types

SgP	Shortgrass-Prairie
RpL	Riparian Lowland
W/OG	Wet open ground
Ri	Open Water-Streams and Rivers
Ag	Agriculture
Cr	Croplands

Table 2. Breeding Bird Species Potentially Inhabiting the Vogl Site

Classification/Common Name	Scientific Name	Preferred Habitat
Pelicans and Allies		
Double-crested Cormorant	*Phalacrocorax auritus*	Ri, RpL
Herons		
Great Blue Heron	*Ardea herodias*	RpL
Great Egret	*Casmerodius albus*	RpL
Snowy Egret	*Egretta thula*	RpL
Cattle Egret	*Bubulcus ibis*	RpL
Black-crowned Night-Heron	*Nycticoras nycticorax*	RpL
Waterfowl		
Canada Goose	*Branta canadensis*	RpL
Wood Duck	*Aix sponsa*	Ri, RpL
Mallard	*Anas platyrhynchos*	Cr
Cinnamon Teal	*Anas cyanoptera*	W/OG
Hooded Merganser	*Lophodytes cucullatus*	RpL
Common Merganser	*Mergus merganser*	RpL
Vultures and Raptors		
Turkey Vulture	*Cathartes aura*	RpL
Osprey	*Pandion haliaetus*	Ri
Bald Eagle	*Haliaeetus leucocephalus*	Ri
Northern Harrier	*Circus cyaneus*	Cr
Cooper's Hawk	*Accipiter cooperii*	RpL
Swainson's Hawk	*Buteo swainsoni*	Ag, RpL
Red-tailed Hawk	*Buteo jamaicensis*	Ag
Ferruginous Hawk	*Buteo regalis*	Ag
Golden Eagle	*Aquila chrysaetos*	Ag
American Kestrel	*Falco sparverius*	Ag, RpL
Gallinaeous Birds		
Ring-necked Pheasent	*Phasianus colchinus*	Ag, RpL, Cr
Wild Turkey	*Meleagris gallopavo*	Ag
Northern Bobwhite	*Colinus virginianus*	Ag, RpL
Shorebirds		
Killdeer	*Charadrius vociferous*	Cr, Ag
Mountain Plover	*Charadrius montanus*	SgP
Upland Sandpiper	*Bartramia longicauda*	SgP
Long-billed Curlew	*Numenius americanus*	SgP, Cr
Common Snipe	*Gallinago*	W/OG
Wilson's Phalarope	*Phalaropus tricolor*	W/OG, Cr
Pigeons and Doves		
Rock Dove	*Columba livia*	Ag
Mourning Dove	*Zenaida macroura*	Ag, Cr, RpL

Classification/Common Name	Scientific Name	Preferred Habitat
Cuckoos		
Yellow-billed Cuckoo	*Coccyzus americanus*	RpL
Owls		
Common Barn-Owl	*Tyto alba*	Ag, RpL
Eastern Screech-Owl	*Otus asio*	RpL, Ag
Great Horned Owl	*Bubo virginianus*	Ag
Burrowing Owl	*Athene cunicularia*	rodent burrows
Long-eared Owl	*Asio otus*	RpL
Short-eared Owl	*Asio flammeus*	Ag
Hummingbirds		
Black-chinned Hummingbird	*Archilochus alexandri*	RpL
Kingfishers		
Belted Kingfisher	*Ceryle alcyon*	RpL, Ri
Woodpeckers		
Lewis' Woodpecker	*Melanerpes lewis*	RpL, Ag
Red-headed Woodpecker	*Melanerpes erythrocephalus*	Ag, RpL
Passerines		
Western Wood-Pewee	*Contopus sordidulus*	RpL
Say's Phoebe	*Sayornis saya*	Ag
Cassin's Kingbird	*Tyrannus vociferans*	Ag, RpL
Western Kingbird	*Tyrannus verticalis*	Ag, RpL
Eastern Kingbird	*Tyrannus*	Ag, RpL
Tree Swallow	*Tachycineta bicolor*	RpL
Northern Rough-winged Swallow	*Stelgidopteryx serripennis*	Ag
Bank Swallow	*Riparia*	Ag
Cliff Swallow	*Hirundo pyrrhonota*	Ag
Barn Swallow	*Hirundo rustica*	Ag
Blue Jay	*Cyanocitta cristate*	RpL, Ag
Black-billed Magpie	*Pica*	Ag
American Crow	*Corvus brachyrynchos*	Ag, RpL
Chihuahuan Raven	*Corvus cryptoleucus*	SgP
Black-capped Chickadee	*Parus altricapillus*	RpL, Ag
Eastern Bluebird	*Sialia sialis*	RpL
American Robin	*Turdus migratorius*	Ag
Gray Catbird	*Dumetella carolinensis*	RpL
Northern Mockingbird	*Mimus polyglottos*	Ag, RpL
Brown Thrasher	*Toxostoma rufum*	RpL, Ag
Cedar Waxwing	*Bombycilla cedorum*	Ag
Loggerhead Shrike	*Lanius ludovicianus*	RpL, SgP
European Starling	*Sturnus vulgaris*	Ag, RpL
Red-eyed Vireo	*Vireo olivaceus*	RpL
Yellow Warbler	*Dendroica petechia*	RpL, Ag
Blue Grosbeak	*Guiraca caerulea*	RpL
Lazuli Bunting	*Passerina amoena*	RpL
Indigo Bunting	*Passerina cyanea*	RpL
Cassin's Sparrow	*Aimophila cassinii*	SgP

Classification/Common Name	Scientific Name	Preferred Habitat
Lark Sparrow	*Chondestes grammacus*	RpL
McCrown's Longspur	*Calcarius mccownii*	SgP
Chestnut-collared Longspur	*Calcarius ornatus*	SgP
Bobolink	*Dolichonyx oryzivorus*	Cr, hayfields
Red-Winged Blackbird	*Agelaius phoeniceus*	Ag
Passerines		
Western Meadowlark	*Sturnella neglecta*	Cr
Brewer's Blackbird	*Euphagus cyanocephalus*	Ag
Common Grackle	*Quiscalus quiscula*	Ag
Brown-headed Cowbird	*Molothrus ater*	Ag
Orchard Oriole	*Icterus spurius*	RpL, Ag
Northern Oriole	*Icterus galbula*	RpL, Ag
American Goldfinch	*Carduelis tristis*	Ag
House Sparrow	*Passer domesticus*	Ag

Habitat Types

SgP	Shortgrass-Prairie
RpL	Riparian Lowland
W/OG	Wet open ground
Ri	Open Water-Streams and Rivers
Ag	Agriculture
Cr	Croplands

Table 3. Reptile and Amphibian Species Potentially Inhabiting the Vogl Site

Classification/Common Name	Scientific Name	Preferred Habitat
Amphibians		
Salamanders		
Tiger Salamander	*Ambystoma tigrinum*	all types
Toads and Frogs		
Great Plains Toad	*Bufo Cognatus*	SgP, RpL, Ag
Woodhouse's Toad	*Bufo woodhousei*	SgP, RpL, Ag
Blanchard's Cricket Frog	*Acris crepitans blanchardi*	RpL
Boreal Chorus Frog	*Pseudacris triseriata maculata*	RpL, Ag
Bull Frog	*Rana catesbiana*	RpL
Northern Leopard Frog	*Rana pipiens*	RpL
Plains Spadefoot	*Scaphiopus bombifrons*	SgP
Turtles		
Common Snapping Turtle	*Chelydra serpentina*	RpL, OW-St/Ri
Western Painted Turtle	*Chrysemys picta belli*	RpL, OW-St/Ri
Ornate Box Turtle	*Terrapene ornata*	SgP, RpL
Western Spiny Softshell	*Trionys spiniferus hartwegi*	RpL, OW-St/Ri
Reptiles		
Lizards		
Northern Earless Lizard	*Holbrookia maculata*	SgP, Ag
Short-horned Lizard	*Phrynosoma douglassi*	SgP
Red-lipped Prairie Lizard	*Sceloporus undulatus erythrocheilus*	SgP, RpL
Northern Prairie Lizard	*Sceloporus undulatus garmani*	SgP
Prairie-lined Racerunner	*Cnemidophorus sexlineatus viridis*	SgP, RpL
Skinks		
Northern Many-lined Skink	*Eumeces multivirgatus*	SgP, Ag
Snakes		
Eastern Yellowbelly Racer	*Coluber constrictor flaviventris*	SgP, RpL, Ag
Plains Hognose Snake	*Heterodon nasicus*	SgP, RpL, Ag
Milk Snake	*Lampropeltis triangulum*	SgP, RpL, Ag
Northern Water Snake	*Nerodia sipedon*	RpL, OW-St/Ri
Bullsnake	*Pituophis melanoleucus sayi*	SgP, RpL, Ag
Wandering Garter Snake	*Thamnophis elegans vagrans*	RpL
Western Plains Garter Snake	*Thamnophis radix haydeni*	RpL, SgP
Red-sided Garter Snake	*Thamnophis sirtalis parietalis*	RpL
Prairie Rattlesnake	*Crotalus viridis*	SgP

Habitat Types

SgP	Shortgrass-Prairie
RpL	Riparian Lowland
W/OG	Wet open ground
OW-St/Ri	Open Water-Streams and Rivers
Ag	Agriculture
Cr	Croplands

BURNCO
VOGL PROJECT SITE
WELD COUNTY, COLORADO
WATERS OF THE UNITED STATES LOCATION AND IDENTIFICATION
WETLAND IDENTIFICATION AND DESCRIPTION

Prepared by: **Savage and Savage, Inc.**
4610 Haystack Drive
Windsor, CO 80550
970 674 8080

January 2020

TABLE OF CONTENTS

FIGURES

APPENDIX

INTRODUCTION

Site Description

Savage and Savage conducted a waters of the United States identification and wetland delineation for the Burnco Vogl project site on January 14, 2020. The Vogl project site is comprised of approximately 160 acres within the SW¼ of Section 29, the E½ of Section 31, and the NW¼ of Section 32, all within Township 3 North, Range 67 West of the 6th Prime Meridian Weld County, Colorado (Figure 1.). The property is bounded on the north by the St. Vrain River, the east by the Pelican Shores development, the south by Weld County Roads 26 and 26½, and west by private residences. The property was accessed from Weld County Road 26½. Weather during our site investigation was mild, dry, and clear with a high temperature of 51 (ºF).

Topography and Hydrologic Features

The topography of the site is dominated by the primary and secondary alluvial terraces of the St. Vrain River. The elevation of the project area averages 4820 feet and slopes gently to the north toward the St. Vrain River. The significant hydrologic feature on the site is the St. Vrain River. The Last Chance Ditch enters the site along the west edge of the property, traverses the southern quarter of the property, and eventually flows into the St. Vrain River to the northeast of the project site. A manmade irrigation ditch skirts the southernmost boundary of the property.

Soils

The Soil Survey of Weld County, Colorado Southern Part (USDA, 1981) identifies three soil map units within the Vogl project site. The predominant soil map unit, Aquolls and Aquents, gravelly substratum is found throughout the majority of the project site, while the remaining soil map units, Aquolls and Aquepts, flooded, and Heldt silty clay are found only in the far southeast corner of the project site at the corner of Weld County Roads 26½ and 11¼.

Aquoll and aquent (gravelly substratum) soils are found on bottom lands and flood plains of all the major streams in the area. They are deep, poorly drained soils that have formed in recent alluvium. Aquolls (60% of the unit) have a dark colored surface layer. Aquents (35% of the unit) have a light colored surface layer. In both, the surface layer is loam or clay. In places they have a gleyed layer in the underlying material. These soils are underlain by sand or sand and gravel within 48 inches. Aquoll and aquent soils are defined by the U.S. Department of Agriculture Natural Resource Conservation Service as hydric (USDA, 2019).

Aquoll and aquept (flooded) soils are found in depressions on the plains and along bottoms of drainageways. Aquolls (55% of the unit) have a dark surface layer while aquepts (45% of the unit) have a lighter colored surface layer. Sandstone or shale parent material is exposed within 48 inches of the surface. A gleyed layer may be present. Both soils are deep and poorly drained, originating from recent alluvium. Aquoll and aquept

soils are defined by the U.S. Department of Agriculture Natural Resource Conservation Service as hydric.

Heldt silty loam soils are found in alluvial sediments derived from shale. These soils are moderately well drained, deep soils with a silty clay surface layer. Subsoil layers to 60 inches are silty clay. Heldt soils are not identified as hydric.

Vegetation

A riparian woodland community of plains cottonwoods (*Populus deltoides*) dominates the riparian corridor immediately adjacent to the St. Vrain River and the primary alluvial terrace to the south of the river corridor. This riparian corridor is dominated by mature cottonwoods with a scattered dense coyote willow shrub understory with a moderate to dense herbaceous understory component dominated by cattails (*Typha latifolia* and *Typha angustifolia*) and reed canarygrass (*Phalaris arundinacea*).

Ruderal mesic to xeric areas are located within and west and south of the riparian woodland vegetation community. These vegetation communities are dominated by secondary successional plant species, including; alkali sacaton (*Sporobolus airoides*), meadow foxtail (*Hordeum jubatum*), smooth brome (*Bromus inermis*), white sweetclover (*Melilotus alba*), knapweeds (*Centaurea* sp.), kochia (*Kochia scoparia*), bull thistle (*Cirsium vulgare*), field bindweed (*Convolvulus arvensis*), horseweed (*Conyza canadensis*), and curlycup gumweed (*Grindelia squarrosa*).

An old field lies at the south edge of the primary alluvial terrace on the east half of the project site. This vegetation community is dominated by smooth brome, intermediate wheatgrass (*Agropyron intermedium*), inland saltgrass (*Distichlis spicata*), kochia, curly dock (*Rumex crispus*), and cheatgrass (*Bromus tectorum*). Within the old field is a crescent of wetland vegetation, dominated by three square (*Scirpus americanus*) and cattails.

Active and inactive agricultural areas dominate the remainder of the project site, with individual fields within the west, southwest, and southeast areas of the project site. At the time of our investigation, the west and southwest agricultural areas were planted to corn, while the southeast field was fallow.

Study Methods

Wetlands and Waters of the United States were evaluated and mapped based on the USACE (2008) determinate criteria of hydrophytic vegetation, hydric soils, and prevailing near-surface growing season hydrology within the Vogl project site. Based on the field observations corroborated with aerial imagery from Google Earth©, a map of identified wetlands and waters of the United States was prepared and is appended.

Conclusions

Areas identified as wetlands and waters of the United States (Figures 2-5) were evaluated and mapped based on vegetation, soils, and hyrdology within the Vogl project site. Figure 6. depicts the wetlands and Waters of the United States identified and located on the project site that include; A. The St. Vrain River channel, the adjacent area of the primary alluvial terrace south of the channel, and a relict alluvial channel feature, B. a wetland drainage bisecting an agricultural field whose water source is irrigation water from the irrigation channel to the south, C. a crescent shaped wetland and drainage channel attributed to previous aggregate mining, D. isolated wetlands of mixed origins (some attributable to agricultural operations), E. the Last Chance Ditch irrigation canal, and F. an unnamed agricultural irrigation ditch complex.

As noted above, Features B, C, D, and F were determined to be either man made irrigation or mining features (B, C, and F) or isolated (D) and concluded to be non-jurisdictional due to their origin as constructed agricultural or mining related features, and the ephemeral or intermittent nature of their hydrology. The isolated features (D) were concluded to have prevailing hydrology distinct and discontinuous from the St. Vrain River alluvial hydrology and not surface connected to adjacent jurisdictional features, and therefore, isolated and non-jurisdictional.

LITERATURE CITED

U.S. Army Corps of Engineers. 2008. Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Great Plains Region, ed. J.S. Wakeley, R.W. Lichvar, and C.V. Noble, ERDC/EL TR-08-12. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

U.S. Department of Agriculture Soil Conservation Service. 1981. Soil Survey of Weld County, Colorado, Southern Part.

U.S. Department of Agriculture, Natural Resource Conservation Service. 2019. State Soil Data Access (SDA) Hydric Soils Rating by Map Unit Web Site. https://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcseprd1316620.html

FIGURES

Figure 1. Burnco Vogle Project Site Project General Location Map

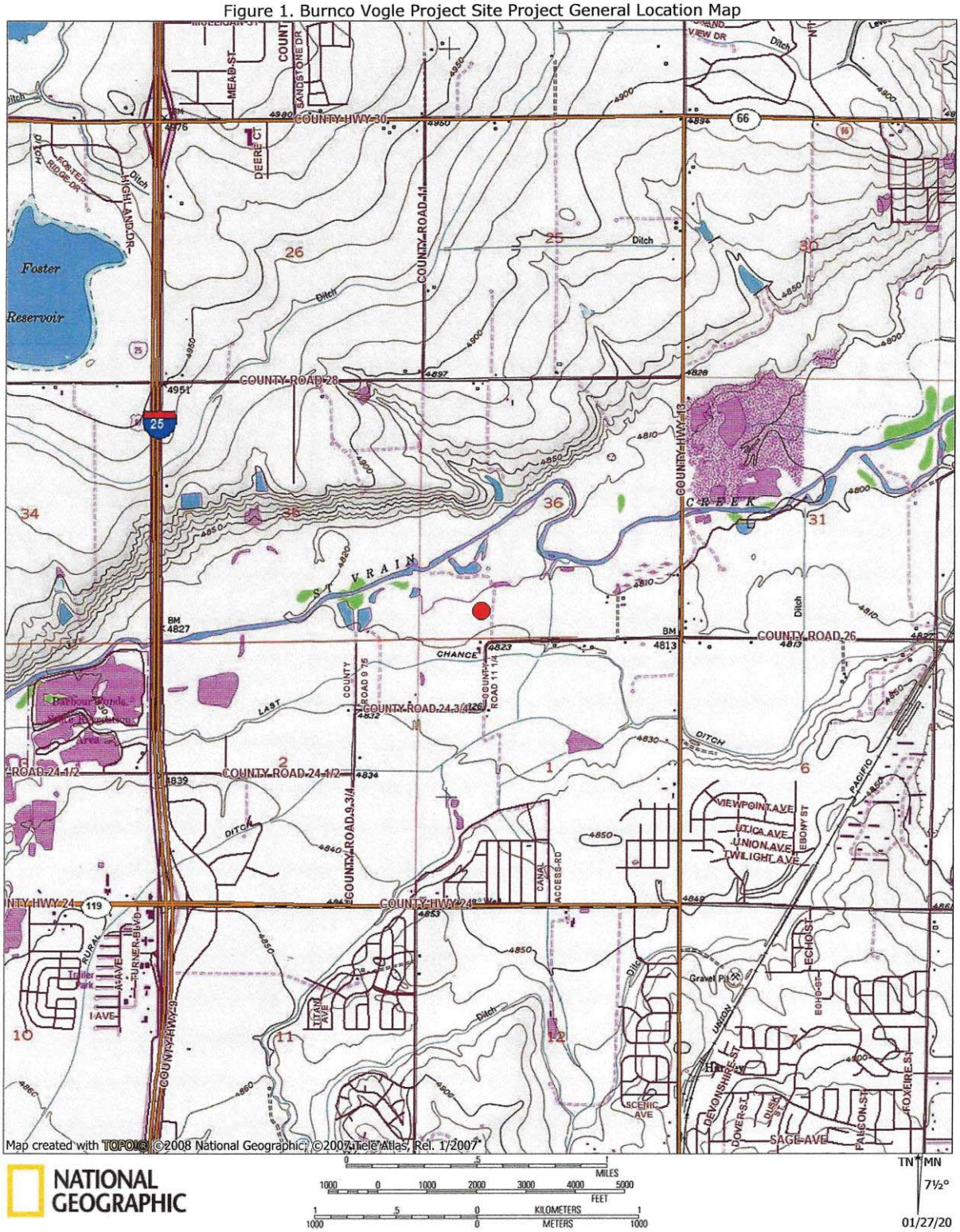
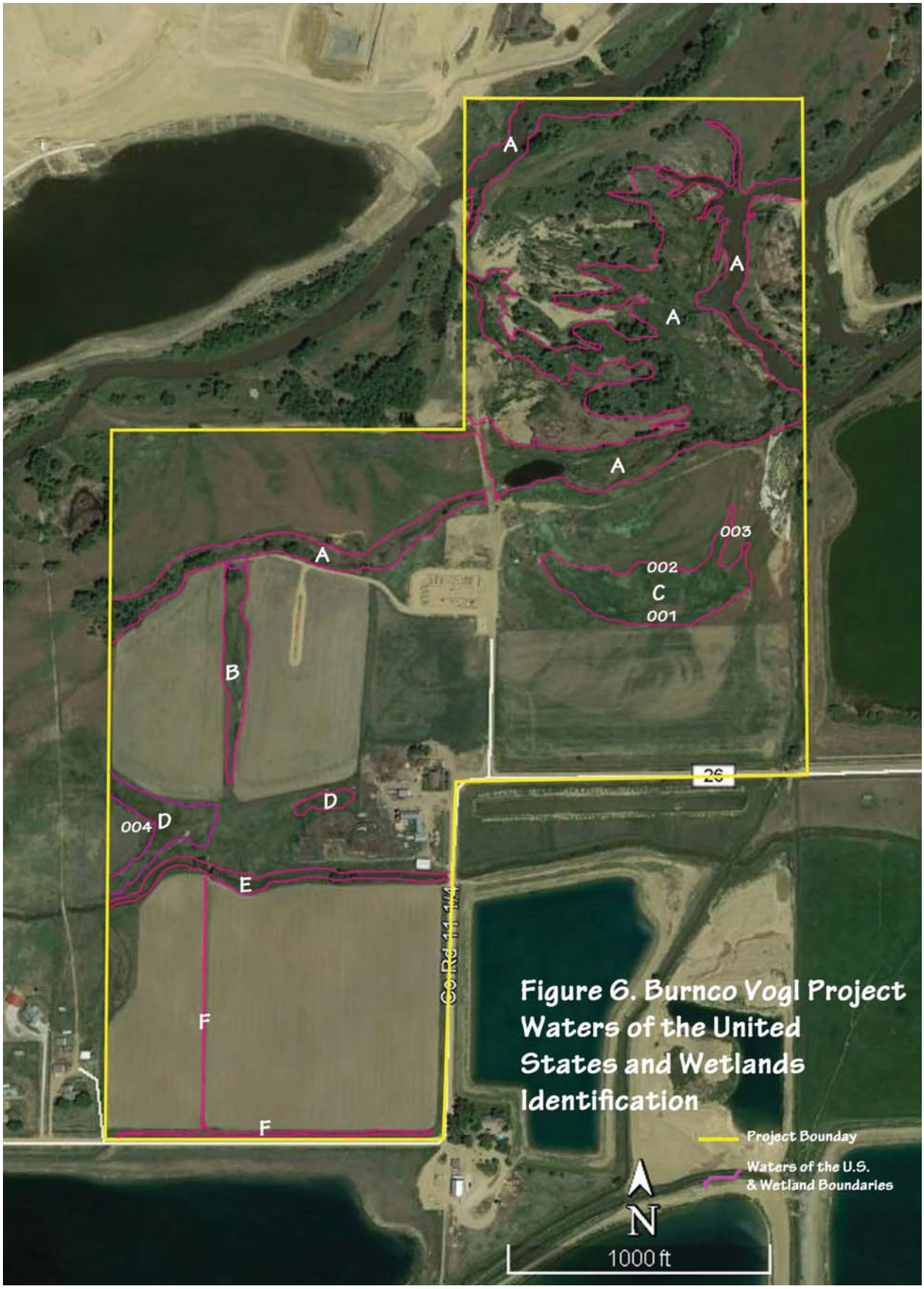


Figure 2. Sample Point 001, Crescent Shaped Manmade Wetland (South Boundary), Photo Facing East, January 14, 2020

Figure 3. Sample Point 002, Crescent Shaped Manmade Wetland (North Boundary), Photo Facing East, January 14, 2020

Figure 4. Sample Point 003, Crescent Shaped Manmade Wetland (channel), Photo Facing Northeast, January 14, 2020

Figure 5. Sample Point 004 in Test Pit,
Photo Facing East, January 14, 2020


A
A
A
A
A
003
002
C
001
B
D
004 D
E
F
F
26
Figure 6. Burnco Vogl Project Waters of the United States and Wetlands Identification
Project Bounday
Waters of the U.S. & Wetland Boundaries
N
1000 ft

APPENDIX

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: VOGL City/County: WELD Sampling Date: JAN 14, 2020

Applicant/Owner: BORNCO State: CO Sampling Point: ØØ1

Investigator(s): MS SAVAGE / EA SAVAGE Section, Township, Range: PORTIONS 29, 31, 32 T3N, R67W

Landform (hillslope, terrace, etc.): 1° ALLUVIAL TERRACE Local relief (concave, convex, none): FLAT Slope (%): < 1%

Subregion (LRR): Lat: 40.176868 Long: -104.953470 Datum:

Soil Map Unit Name: AQUOLLS & AQUENTS, GRAVELLY SUBSTRATUM NWI classification:

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes X No

Hydric Soil Present? Yes X No

Wetland Hydrology Present? Yes X No

Is the Sampled Area within a Wetland? Yes X No

Remarks: SWALE @ N EDGE OF 2° TERRACE. BROWN FALLOW AG FIELD
PHOTOS #003–004 → E

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: N/A)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: N/A)			
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size: 10'X10')			
1. Phalaris arundinacea	90	Y	FACW+
2. Typha latifolia	5	N	OBL
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	95 = Total Cover		
Woody Vine Stratum (Plot size: N/A)			
1.			
2.			
	95 = Total Cover		

% Bare Ground in Herb Stratum 5%

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC–): 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:	
OBL species	x 1 =	
FACW species	x 2 =	
FAC species	x 3 =	
FACU species	x 4 =	
UPL species	x 5 =	
Column Totals: (A)		(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No

Remarks:

SOIL

Sampling Point: 001

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4"	7.5YR 3/1	95	N/A				URBAN LOAM	A HORIZON, ROOTS, MOIST
4-13"	7.5YR 3/1	95	N/A				CLAY	CLAYEY, MOIST
13-23+	2.5/N	95	2.5YR 4/8	5	RM	M	CLAY	CLAYEY, SATURATED

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) **(LRR F)**
- ___ 1 cm Muck (A9) **(LRR F, G, H)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 2.5 cm Mucky Peat or Peat (S2) **(LRR G, H)**
- X 5 cm Mucky Peat or Peat (S3) **(LRR F)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- X Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ High Plains Depressions (F16) **(MLRA 72 & 73 of LRR H)**

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) **(LRR I, J)**
- ___ Coast Prairie Redox (A16) **(LRR F, G, H)**
- ___ Dark Surface (S7) **(LRR G)**
- ___ High Plains Depressions (F16) **(LRR H outside of MLRA 72 & 73)**
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Dry-Season Water Table (C2)
- ___ Oxidized Rhizospheres on Living Roots (C3) **(where not tilled)**
- ___ Presence of Reduced Iron (C4)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Oxidized Rhizospheres on Living Roots (C3) **(where tilled)**
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- X Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)
- ___ Frost-Heave Hummocks (D7) **(LRR F)**

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): _____

Water Table Present? Yes X No ___ Depth (inches): 17"

Saturation Present? (includes capillary fringe) Yes X No ___ Depth (inches): 14"

Wetland Hydrology Present? Yes X No ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: NO AGRICULTURAL RUNOFF CONTRIBUTION TO HYDROLOGY @ THIS TIME OF YEAR. ENCOUNTERED NEAR SURFACE GROUNDWATER.

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: VOGL City/County: WELD Sampling Date: JAN 14, 2020

Applicant/Owner: BORNCO State: CO Sampling Point: 002

Investigator(s): MS SAVAGE / EA SAVAGE Section, Township, Range: PORTIONS 29, 31, 32 T3N, R67W

Landform (hillslope, terrace, etc.): 1° ALLUVIAL TERRACE Local relief (concave, convex, none): FLAT Slope (%): <1%

Subregion (LRR): Lat: 40.177213 Long: -104.953488 Datum:

Soil Map Unit Name: AQUOLLS & AQUENTS, GRAVELLY SUBSTRATUM NWI classification:

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area within a Wetland? Yes X No
Hydric Soil Present?	Yes X No	
Wetland Hydrology Present?	Yes X No	

Remarks: 1° ALLUVIAL TERRACE SWALE (NORTH EDGE) BORDERING UPLAND ADJA (TO NORTH).
PHOTO #907 → E

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: N/A)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: N/A)			
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size: 10'X10')			
1. Phalaris arundinacea	95%	Y	FACW
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	95% = Total Cover		
Woody Vine Stratum (Plot size: N/A)			
1.			
2.			
	95 = Total Cover		

% Bare Ground in Herb Stratum 5

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC–): 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ___ 1 - Rapid Test for Hydrophytic Vegetation
- ___ 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No

Remarks:

SOIL

Sampling Point: DP2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-3"	7.5YR 2.5/1	95	N/A				LOAM	A HORIZON (ORGANIC)
3-8"	7.5YR 3/1	92	N/A					
8-22+"	7.5YR 4/2	90	2.5YR 4/8	10		M	SANDY LOAM	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) **(LRR F)**
- ___ 1 cm Muck (A9) **(LRR F, G, H)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 2.5 cm Mucky Peat or Peat (S2) **(LRR G, H)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR F)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ High Plains Depressions (F16) **(MLRA 72 & 73 of LRR H)**

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) **(LRR I, J)**
- ___ Coast Prairie Redox (A16) **(LRR F, G, H)**
- ___ Dark Surface (S7) **(LRR G)**
- ___ High Plains Depressions (F16) **(LRR H outside of MLRA 72 & 73)**
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Dry-Season Water Table (C2)
- ___ Oxidized Rhizospheres on Living Roots (C3) **(where not tilled)**
- ___ Presence of Reduced Iron (C4)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- X Drainage Patterns (B10)
- ___ Oxidized Rhizospheres on Living Roots (C3) **(where tilled)**
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- X Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)
- ___ Frost-Heave Hummocks (D7) **(LRR F)**

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): _____

Water Table Present? Yes ___ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): _____

Wetland Hydrology Present? Yes X No ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: TRANSITION AREA TO ADJACENT UPLAND

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: VOGL City/County: WELD Sampling Date: JAN 14, 2020

Applicant/Owner: BORNCO State: CO Sampling Point: 003

Investigator(s): MS SAVAGE / EA SAVAGE Section, Township, Range: PORTIONS 29, 31, 32 T3N, R67W

Landform (hillslope, terrace, etc.): SWALE IN 1° TERRACE Local relief (concave, convex, none): SWALE Slope (%): 1%

Subregion (LRR): Lat: 40.177629 Long: -104.952425 Datum:

Soil Map Unit Name: AQUOLLS & ARVADA, GRAVELLY SUBSTRATUM NWI classification:

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes X No

Hydric Soil Present? Yes X No

Wetland Hydrology Present? Yes X No

Is the Sampled Area within a Wetland? Yes X No

Remarks: LOCATED IN NNE TRENDING SWALE 12' W x 2' D.
PHOTO # 909 → NNE

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: N/A)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: N/A)			
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size: 10' X 10')			
1. Phalaris arundinacea	90	Y	FACW
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	90 = Total Cover		
Woody Vine Stratum (Plot size: N/A)			
1.			
2.			
	90 = Total Cover		

% Bare Ground in Herb Stratum 5

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC−): 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No

Remarks: Phalaris restricted to swale channel 12' WIDE, 2' DEEP

SOIL

Sampling Point: 013

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6"	7.5 YR 4/1	95	N/A				CLAY LOAM	MOIST
6-12"	7.5 YR 2.5/1	90	2.5 YR 4/8	5	RM	M	CLAY	MOIST → SATURATED
12+							GRAVEL	SATURATED

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) **(LRR F)**
- ___ 1 cm Muck (A9) **(LRR F, G, H)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 2.5 cm Mucky Peat or Peat (S2) **(LRR G, H)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR F)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ High Plains Depressions (F16) **(MLRA 72 & 73 of LRR H)**

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) **(LRR I, J)**
- ___ Coast Prairie Redox (A16) **(LRR F, G, H)**
- ___ Dark Surface (S7) **(LRR G)**
- ___ High Plains Depressions (F16) **(LRR H outside of MLRA 72 & 73)**
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Dry-Season Water Table (C2)
- ___ Oxidized Rhizospheres on Living Roots (C3) **(where not tilled)**
- ___ Presence of Reduced Iron (C4)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Oxidized Rhizospheres on Living Roots (C3) **(where tilled)**
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)
- ___ Frost-Heave Hummocks (D7) **(LRR F)**

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): _____

Water Table Present? Yes ___ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes X No ___ Depth (inches): 14"

Wetland Hydrology Present? Yes X No ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: VOGL City/County: WELD Sampling Date: JAN 14, 2020

Applicant/Owner: BORNCO State: CO Sampling Point: ØØ4

Investigator(s): MS SAVAGE / EA SAVAGE Section, Township, Range: PORTIONS 29, 31, 32 T3N, R67W

Landform (hillslope, terrace, etc.): 1° TERRACE Local relief (concave, convex, none): FLAT Slope (%): <1%

Subregion (LRR): ____ Lat: 40.174807 Long: -104.959965 Datum: ____

Soil Map Unit Name: AQUOLLS & AQUENTS, GRAVELLY SUBSTRATUM NWI classification: ____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes X No ____	Is the Sampled Area within a Wetland?	Yes X No ____
Hydric Soil Present? Yes X No ____		
Wetland Hydrology Present? Yes X No ____		

Remarks: RELICT FEATURE W BOUNDARY, S OF AG FIELD ADJACENT TO TH 17
PHOTO # 018 → E

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot size: N/A)			
1.			
2.			
3.			
4.			
= Total Cover			
Sapling/Shrub Stratum (Plot size: N/A)			
1.			
2.			
3.			
4.			
5.			
= Total Cover			
Herb Stratum (Plot size: 10x10)			
1. Scirpus americanus	70%	Y	OBL
2. Chenopodium album	5%	N	
3. Purple vervain	2%	N	
4. Phalaris arundinacea	10%	N	
5.			
6.			
7.			
8.			
9.			
10.			
= Total Cover			
Woody Vine Stratum (Plot size: N/A)			
1.			
2.			
= Total Cover	87		
% Bare Ground in Herb Stratum 2%			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC–): 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation
___ 2 - Dominance Test is >50%
___ 3 - Prevalence Index is ≤3.0[1]
___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks:

SOIL

Sampling Point: 004

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-8"	7.5YR 3/1	80	2.5YR 4/8	15	RM	M	CLAY LOAM	FROZEN @ SURFACE
8-20+"	5/N	95	N/A				SANDY CLAY	CURVED

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) **(LRR F)**
- ___ 1 cm Muck (A9) **(LRR F, G, H)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 2.5 cm Mucky Peat or Peat (S2) **(LRR G, H)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR F)**
- X Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- X Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ High Plains Depressions (F16) **(MLRA 72 & 73 of LRR H)**

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) **(LRR I, J)**
- ___ Coast Prairie Redox (A16) **(LRR F, G, H)**
- ___ Dark Surface (S7) **(LRR G)**
- ___ High Plains Depressions (F16) **(LRR H outside of MLRA 72 & 73)**
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- X Dry-Season Water Table (C2)
- ___ Oxidized Rhizospheres on Living Roots (C3) **(where not tilled)**
- ___ Presence of Reduced Iron (C4)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Oxidized Rhizospheres on Living Roots (C3) **(where tilled)**
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- X Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)
- ___ Frost-Heave Hummocks (D7) **(LRR F)**

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): _____

Water Table Present? Yes X No ___ Depth (inches): 20"

Saturation Present? (includes capillary fringe) Yes X No ___ Depth (inches): ?

TH-17 FROZEN @ SURFACE

Wetland Hydrology Present? Yes X No ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Pre-Construction Notification
Burnco, Vogl Project Site

(1) Prospective Permittee

The prospective permittee is Burnco, 301 Centennial Drive, Milliken, Colorado 80543. The contact at Burnco is Mark Johnson at 970-587-7277. This Pre-Construction Notification was prepared and submitted by Savage and Savage, 4610 Haystack Drive, Windsor, CO 80550. The contact at Savage and Savage is Edith Savage at 970-674-8080.

(2) Location of the Proposed Project

The Vogl project site is comprised of approximately 160 acres within the SW¼ of Section 29, the E½ of Section 31, and the NW¼ of Section 32, all within Township 3 North, Range 67 West of the 6th Prime Meridian Weld County, Colorado (Figure 1.). The property is bounded on the north by the St. Vrain River, the east by the Pelican Shores development, the south by Weld County Roads 26 and 26½, and on the west by agricultural properties. The property was accessed from Weld County Road 26½.

Description of the Proposed Project Site

The topography of the site is dominated by the primary and secondary alluvial terraces of the St. Vrain River. The elevation of the project area averages 4820 feet and slopes gently to the north toward the river. The significant hydrologic feature on the site is the St. Vrain River. The Last Chance Ditch enters the site along the west edge of the property, traverses the southern quarter of the property, and eventually flows into the St. Vrain River to the northeast of the project site. A manmade irrigation ditch skirts the southernmost boundary of the property.

(3) Description of the Proposed Project

The Vogl project proposes aggregate extraction on the site. Material removal will occur in stages within several mining cells over the life of the project. Several mining cells will have slurry walls constructed around their perimeters and remain as reservoirs, while remaining mined

areas will be filled and regraded. The permanent reservoirs will be reclaimed to ensure slope stability and specific seeding/planting will be done to enhance wildlife habitat.

Direct and Indirect Adverse Environmental Effects

Best management practices will be employed by the proponent to ensure that water downstream is not adversely affected through sediment transport into the channel during construction. There will be no loss of waters of the United States as a result of this activity.

The proposed project will extract material and leave cells within the site. Permanent reclamation of the site will entail grading, respreading topsoil, and seeding and planting perennial species that will support wildlife. Reclamation will create more diverse wildlife habitat than is currently present. Areas of open water will sustain additional species of reptiles and amphibians as well as shorebirds and waterfowl. The addition of the water will create fringe environments favorable to predatory mammals and raptors, as well as food and water sources for herbivores. With the planting of additional trees and shrubs, additional strata and vegetation layers will be added to the site, creating improved cover, foraging, roosting, and nesting areas for wildlife.

Noise and air emissions during mining will cause a temporary disturbance to wildlife. Species such as raccoons, coyotes, beaver, deer, and raptors will continue to use the riparian corridor during mining operations and the site itself when and where operations are not active. Bird species will use the periphery of the site and the site itself opportunistically, if prey or food species are present.

Other Permits Required

Air and water quality permits will be required for this project from the Colorado Department of Public Health and Environment. A mining and reclamation permit will be required from the Colorado Division of Reclamation, Mining and Safety. A special use permit is anticipated to be required from Weld County.

No other NWPs, regional general permits, or individual permits are anticipated or proposed for this project.

(4) Waters of the United States and Wetland Delineation

A wetland delineation was conducted and summary report prepared in accordance with the methods approved by the Corps of Engineers, and appended to this notification for the site (Attachment – Vogl Project Site Wetland Delineation). The features discussed below are described in more detail in the wetland report and illustrated on the wetland delineation map.

There are no plans to disturb jurisdictional wetlands or Waters of the United States on the project site. The identified wetlands and Waters of the United States include; the St. Vrain River channel, the adjacent area of the primary alluvial terrace south of the current channel, a relict alluvial channel feature adjacent to the secondary alluvial terrace, and the Last Chance Ditch.

Features concluded to be non-jurisdictional in the field include; a wetland drainage bisecting an agricultural field whose water source is irrigation water from the irrigation channel to the south, a crescent shaped wetland and drainage channel attributed to previous aggregate mining, isolated wetlands of mixed origins (some attributable to agricultural operations), and an unnamed agricultural irrigation ditch complex.

(5) Wetland Mitigation Requirements

Mining will be restricted to uplands and areas found to be non-jurisdictional by the Corps. Therefore, no mitigation requirements are proposed for this site.

(6) Listed Species or Designated Critical Habitat

Potential habitat for the Preble's meadow jumping mouse (*Zapus hudsonius preblei*) and Ute ladies'-tresses orchid (*Spiranthes diluvialis*) were evaluated based on results of a search of potentially occurring threatened or endangered species on the U.S. Fish and Wildlife Service web site for Weld County, Colorado. Additionally, bald eagle (*Haliaeetus leucocephalus*) nest locations and winter night roost locales were evaluated from the Colorado Oil and Gas Conservation Commission (COGCC) web site map of sensitive wildlife habitat and restricted surface occupancy areas for protected wildlife species.

Potential habitat exists for the Preble's meadow jumping mouse within the cottonwood riparian corridor along the banks of the St. Vrain River. As the current proposed mine plan does not include disturbance to potential Preble's meadow jumping mouse critical habitat, no further evaluation was undertaken. If future project activities include disturbance to potential habitat, the permittee will obtain clearance and/or approval from the U.S. Fish and Wildlife Service.

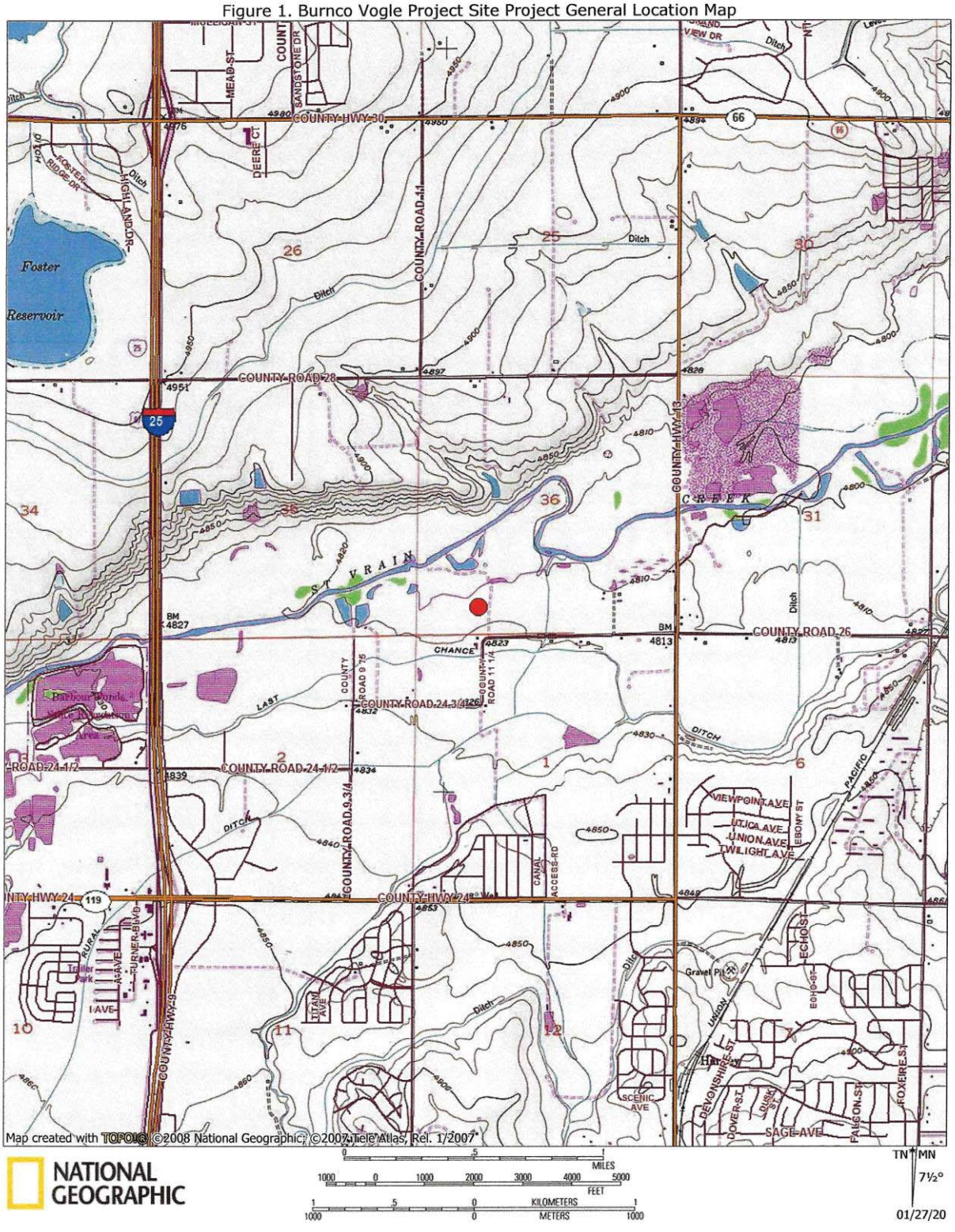
Potential habitat for the Ute ladies'-tresses orchid is present along the St. Vrain River primary alluvial floodplain that includes riverbanks and oxbows south of the river. Potential orchid habitat is also present along irrigation ditches and within other depressions and swales on the site. The current proposed mine plan may include disturbance to Ute ladies'-tresses orchid potential critical habitat. If future project activities include disturbance to potential habitat, the permittee will obtain clearance and/or approval from the U.S. Fish and Wildlife Service.

No eagles or nests were observed during our investigation of the site. The map of significant wildlife habitat from COGCC identified a bald eagle winter night roost area along the St. Vrain River that encompasses portions of the project site. The proposed plan does not include disturbance within the designated bald eagle winter night roost area. If future project activities include activities within the restricted area, the permittee will obtain clearance and/or approval from the Colorado Division of Parks and Wildlife.

(7) Historic Property

This site is not recognized as a historic property, it is not listed on or potentially eligible for listing on the National Register of Historic Places. There are no buildings or other structures on the site.

Figure 1. Burnco Vogle Project Site Project General Location Map



ATTACHMENT

BURNCO

VOGL PROJECT SITE

WATERS OF THE UNITED STATES LOCATION AND IDENTIFICAITON