

January 11, 2024

Eric Scott Colorado Division of Reclamation, Mining, and Safety 1313 Sherman St, Rm. 215 Denver, CO 80203

Delivered Via Email RE: Ewing Gravel Pit, DRMS File M2023-033 Adequacy Response 2

Mr. Scott

The attached letter addresses each adequacy item in your January 4, 2024 letter regarding the Ewing Gravel Pit. Items marked as adequate are omitted. Revised exhibits and maps are attached as well. Feel free to contact my office with any questions.

Regards,

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Exhibit C – Pre-mining and Mining Maps

1. Remove/correct incorrect text boxes from Figure C-2 for permit and affected area. Permit area = 156.7 acres and affected area = 127 acres. (Disturbed area of 116 acres is not relevant).

Map C-2 has been revised to remove the conflicting labels.

2. The application states that significant amounts of overburden, sand, and topsoil will be maintained on-site for reclamation, and that all stockpiles will be placed in Pod 3 outside of the Flood Plain. Please show the locations and expected volumes of all topsoil and overburden/sand stockpiles on the Mining Plan map. Note that the Act/Rule requires that Topsoil and Overburden/sand be segregated and maintained separately for reclamation.

Separate topsoil and overburden stockpile locations have been labelled on the Detail 2 inset of Map C-2.

3. What is the anticipated volume of the "concealment berm" shown on the mining plan map, and the "barrier berm" shown on the north side of the processing area?

The berms will contain roughly 80,000 CY, combined.

3a-Please edit height of eastern concealment berm for consistency on Figure C-2 (20 ft or 35 ft?)

The label on Map C-2 has been corrected.

Exhibit D – Mining Plan

7. Please clarify if both slurry walls will be installed at the same time prior to commencing mining activity, or if the Pod 3 slurry wall will be installed at a later date. <u>Mining timetable does not include when second (Pod 3) slurry wall will be installed – please include</u>

Slurry installation has been added to the Table D-1. Mining Timetable

Exhibit E – Reclamation Plan

-The area/acreage values in Table E-1 do not match the values in the preceding paragraph – please edit for consistency.

The preceding paragraph has been corrected to match the table and maps.

-Do the required topsoil values for reclamation in Table E-2 include replacement topsoil for the Process Area? It would be useful to also include a column for acreage(s) for areas/pods where topsoil replacement and revegetation will be required that add to the totals for Rangeland provided in Table E-1.



Table E-1 has been recalculated and reformatted to better communicate the reclamation volumes for the Ewing Gravel Pit. Furthermore, Map F-1 has been updated to correct the rangeland area in Pod 3.

-Please modify Tables E-2 and E-3 to add information for required backfill volumes for the process area ponds and relate those volumes to the projected area and depth of these ponds.

Tables E-2 and E-3 show the reclamation volumes and associated areas as well as the material balance needed for backfilling. Language in Exhibit E, section 1 has been rewritten to be clearer as to material balance.

- Where will the approximately 200K c.y. of required excess sand/byproduct be placed prior to use in reclamation?

Backfill material will be maintained onsite either in stockpiles or as available material within the mining ponds.

Exhibit G – Water Information

15. The well locations identified in Table G-4 are very difficult to find/identify or are not shown on Figure C-1. Please provide another map (or a modified copy of Figure C-1) to clearly show the wells listed, as well as the XCEL wells in Table G-5, and the 4 piezometers listed in Table G-6.

Map G-2 has been added to the permit to clearly show the location of all water wells and piezometers listed on Table G-4 & G-6. It should be noted that Table G-5 lists the Xcel wells separately, but that all of these wells are also listed in Table G-4.

15a - As a general note, my copy contained several formatting issues with the Exhibit G, primarily with subheading numbering in Sections 6 and 7, and also within the Water Quality Monitoring Plan, but I'm not entirely sure if these are in the provided file or an artifact of viewing on my system. Please review formatting for consistency where needed.

Exhibit G formatting has been proofread to ensure clarity.

17. The following comments (17a- 17k) are from review of the provided revised Appendix G-2 Groundwater Quality Monitoring Plan (GQMP).

17a - Introduction, After the 5 consecutive quarters of baseline data are collected and any site specific Numeric Protection Levels (NPL) have been set (if needed) DRMS believes that quarterly water chemistry sampling may be excessive. All mining will take place within slurry walls that should isolate mining impacts from surrounding alluvial aquiver. Therefore, DRMS would suggest that quarterly water chemistry sampling from the identified POC wells would likely be sufficient for 12 months after installation of the initial slurry wall, with sampling thereafter reduced to twice a year (every 6 months). With the installation of the second slurry wall, frequency will again increase to quarterly for 12 months before



dropping again to every 6 months. This frequency should be sufficient unless additional site activity or the data warrants an increase in sampling frequency. Analytical data, and groundwater level data should be provided with the annual report, unless exceedances of Table Value Standards or Site Specific NPL are observed, or changes in Groundwater Elevations exceed trigger levels.

Please see the revised Appendix G-2 for the requested changes in monitoring frequency and reporting requirements. Groundwater level measurements up to this point have occurred on a weekly basis at the piezometers, and quarterly basis at the groundwater monitoring wells. In the future, they will be completed to meet the new frequency requirements. Past quality monitoring has been consistent with the DRMS recommendations.

17b – Section 1.2: The sampling points are referred to in Appendix 1 and on Figure 3. I believe it should read Figure 2, as there is no Figure in the GQMP – please correct as needed.

Please see the revised Appendix G-2 for the corrected labelling.

17c – Appendix 1 Map: Xcel wells should be specifically identified to match the provided permit #'s, and Piez 1 is not labelled on the map – please correct as needed.

Please see the revised G-2 map for this information.

17d – Section 1.2.1: Provide lithologic and well construction information for the seven identifies wells. If it is contained in the identified CDWR permits, provide copies of those permits. Also provide the surveyed elevations for the TOC for the seven wells.

Lithologic and well construction information are included in the CDWR documents that have been added as an appendix to the revised GW Monitoring Plan. The surveyed TOC elevations were previously, and are still provided in Table 1.

17e – Section 1.2.2: The introduction states that GW levels will be collected weekly, and Section 1.2.2 states that GW level data collection will take place no less than quarterly. DRMS will require that water level data be collected and recorded from the 3 GW wells and 4 Piezometers on a no less than monthly basis. This data will be graphed and included as a required addendum to the annual report. Please modify the GQMP as needed.

Please see the revised Appendix G-2 for more consistent language on the recommended monthly GW level data collection. As outlined in 17a, all future measurements will occur monthly at all wells and piezometers.

17f – Section 3.1: DRMS has determined that GW1, Piez 1, and Piez 2 will be the Points of Compliance for this site, and all three locations will be monitored for life of mine. Monitoring frequency may be based on the proposed schedule in comment 17a. DRMS would also suggest that at least one background location be monitored at least annually as a reference to protect the mine from any off-site influences on groundwater chemistry that may be observed, otherwise changes/exceedances in POC well data must be assumed to be a result of mining activity. Please modify the GQMP as needed.



Please see the revised Appendix G-2 for the requested changes in Points of Compliance monitoring. A few background well locations to be sampled during mining are recommended in the revised text.

17g - Section 4.3: First sentence should read ... parameters identified in Table 2, not Table 1. Also include applicable Reg. 41 standards for the parameters identified in Table 1. Please also define the parameter MBAS, and make sure there is a reason (if so, please provide) for sampling for any total metals identified.

Please refer to the revised Appendix G-2 for the updated text and labelling. The parameter table (now Table 5) has been updated for consistency with the 'Full parameter list for Construction Material Sites' published by the DRMS.

MBAS (foaming agents), total metals, and other miscellaneous additional parameters were included in the previous table as derived from Regulation 41 Tables 1-4. Inconsistencies are primarily due to the original GW monitoring plan being developed prior to the DRMS' September 2023 GW Monitoring Guidance document. These additional parameters were included to get the complete background profile of the groundwater, but will not continue to be measured in the future.

Also of note, lithium-dissolved testing has not taken place up to this point. The testing laboratory does not provide testing for lithium at this time. However, the conditions of the site and type of mining make it unlikely for lithium to be present or impacted throughout the life of the mine. Therefore, the lithium testing for background was foregone, and the TVS limits for lithium will be accepted for future compliance monitoring of lithium.

17h - Section 4.4: Samples must be preserved and shipped in accordance with method requirements (i.e. nitric acid to pH less than 2 for dissolved metals and iced to 4 deg. C.) Industry standards for field sampling logbooks or field data sheets should be maintained for all sampling locations and events. Please provide generic examples of whichever method will be utilized.

Please refer to the revised Appendix G-2 for the requested information and documents. Sampling up to this point have been to industry standards with the required preservatives and transportation methods.

17i - Section 4.5.1: Site specific Numeric Protection Levels for any analytes that exceed table value standards in baseline data will be determined by DRMS when all five quarters of baseline data have been provided for review in a subsequent TR to be submitted for the site. This would also apply to groundwater level monitoring corrective action trigger levels and corrective actions. At this time the applicant will need to commit to submittal of a TR containing the full set of baseline water quality data along with any proposed NPLs for constituents that exceed Table Value Standards, along with proposed groundwater elevation trigger levels and proposed corrective actions for DRMS review prior to installation of the first slurry wall. (this commitment could be in Section 4.7 Reporting). Please acknowledge/modify as needed.



This is acknowledged, and Burnco commits to submitting a TR with this information in the revised Appendix G-2.

17*j* - Section 4.8: as a general note, this would be a good place to include any appropriate TSOP documents or data collection sheets.

The requested documents are provided in an added Appendix to the revised GW monitoring plan.

17k – Appendix 2: Consider using the tables provided in the Peak Ranch baseline data submittal as a template for this section.

Table Value Standards for all constituents should be provided and highlighted in the data when/where they are exceeded. Consistent units should also be provided for all data (mg/L or other). It may be useful to provide a separate sheet/table for each baseline sampling location as the existing data is very awkwardly presented at this time.

Data should be reported as "ND" - not detected at the method detection level (specify for analyte), not "0"

Water level data should always be reported in feet ASL to correlate with data presented on any groundwater contour map(s) and any applicable graphing for water levels in each well over time. However, a row for depth to water from surveyed TOC may be included if you wish.

All water level data should always be collected and reported to the nearest (0.01 foot).

Explanations should be provided for any data missing from Appendix 2

Refer to the revised Appendix G-2 for the requested changes.



Exhibit L – Reclamation Costs

19. DRMS will evaluate the reclamation bond calculation when the other adequacy issues have been resolved. However, a significantly more detailed reclamation estimate, ideally broken down by Pod and Reclamation Task will need to be provided along with supporting documentation for provided unit costs (for example, a task list for Pods 1 and 2 reclamation should include at a minimum: Installation cost for slurry wall, costs to install inlet/outlet structures, backfilling of mine slope to 3:1, topsoil replacement, soil prep., seeding and weed control costs, etc..). Initial cost estimate will need to include tasks for reclamation of Pods 1 and 2, process area, and visual berms at a minimum.

A detailed breakdown of reclamation tasks and costs can be seen in the revised Exhibit L.

Additional Information:

The provided proof of publication is adequate, however, you will need to provide proof that adequacy responses have been included with the Weld County review copy.

Proof of adequacy filing with the Weld County clerk will be provided under separate cover.







Attachments

Map C-2 Mining Map Map F-1 Reclamation Map Map G-2 Well Map **Revised Exhibits**



EXHIBIT D

MINING PLAN

1. General Mining Plan

The property boundary has been surveyed on site and the permit area will be surveyed prior to any additional acreage to the site disturbance. Map C-2 shows the mining plan. The mine will affect an area of 127 acres. The primary commodity to be mined will be sand and gravel for use in construction materials. These construction materials may include crushed rock, sand, washed rock, concrete, and asphalt. Fill dirt may incidentally be produced as well. The mine will be accessed from the existing connection to US-85. This access road will require improvements to be able to support mine traffic. These road improvements will be installed surrounding Pod 1 and 2, and another surrounding Pod 3. These walls will stop groundwater from infiltrating into the pits, and facilitate water storage in the reclaimed pits. Slurry wall construction will be completed prior to mining in any given pod.

The sand and gravel deposit is an average 25 to 45-foot thickness within the alluvial deposit surrounding the South Platte. The deposit is overlain by an average of two feet of topsoil and two feet of overburden. It is split into two terraces: a lower terrace adjacent to the Platte River and an upper terrace along US-85. The lower terrace is made up of the primary sand and gravel layer overlain with topsoil and overburden. An additional sand layer overlies the gravel deposit, starting midway through the lower terrace and increasing in depth to the southeast. It reaches an average thickness of 28 feet in the easternmost mining area, Pod 3, on the upper terrace. The bedrock is an olive-gray claystone and siltstone that exists approximately 30 to 40 feet below the surface.

Mining will occur in three separate pods, starting on the lower terrace and proceeding east: Pod 1, Pod 2, then Pod 3. The processing area in the northern part of Pod 3 will be mined last. Mining and reclamation will occur concurrently as mining progresses in order to minimize the total disturbance. There is sufficient topsoil and overburden on site to successfully reclaim the site to its final condition as water storage ponds surrounded by rangeland. Reclamation will include backfilling and regrading of the site, topsoiling, and revegetation. The slurry walls installed prior to mining will be retained.

All mining will continue to the bottom of the gravel deposit with 1.5H:1V final mining slopes along the perimeter. The active highwall will be at a near vertical slope, and will progress to the halfway point of the final mining slope. This allows for the remaining highwall to be knocked down via dozer to create the completed mining slope. Slopes will then be backfilled with sand or overburden to the reclaimed 3H:1V slopes. Refer to the cross sections on Map C-3 for the various slope details throughout mining.

Dozers and scrapers will be used to strip topsoil and overburden from the areas to be mined to be stored in the designated stockpiles. Any stockpile to be in place longer than 90 days will be



seeded to prevent erosion. While pre-mine stripping is occurring, all existing buildings, except for the oil wells and their related structures, will be demolished. All debris will be removed from the site. Sand and gravel will be extracted using loaders, excavators, dozers, and trucks. Excavated material will be conveyed to processing area from the active mining area. Processing of material will include screening, washing, crushing, and the production of concrete and asphalt.

No blasting will take place at the Ewing Gravel Pit. No refuse, acid, or toxic producing material are expected to be encountered in this operation. If these materials are encountered, at least two feet of inert material will be placed over the area and mining will move to a different area.

2. Mining Timetable

Mining operations at the Ewing Gravel Pit are expected to take approximately 10.5 years to complete, based on an annual average production of 700,000 tons. Actual production rates will fluctuate based on market conditions. An approximate mining timetable based on this production and the phased mining plan is shown in Table D-1.

Description	Time Required
Construction of access road and slurry wall.	2 months
Initial stripping of processing area and Pod 1 (west portion on lower terrace)	1 month
Mine and reclaim Pod 1 according to approved plans. Reclamation occurs as mining has reached its maximum extents in an area. Construction of Pod 2 slurry wall.	4 years
Initial stripping of new mining area for Pod 2 (center portion on lower terrace)	1 month
Mine and reclaim Pod 2 according to approved plans. Reclamation occurs as mining has reached its maximum extents in an area. Construction of Pod 3 slurry wall.	2 years
Initial stripping of new mining area for Pod 3 (east portion on upper terrace)	1 month
Mine and reclaim Pod 3 according to approved plans. Reclamation occurs as mining has reached its maximum extents in an area.	4 years
Total	10.5 years

Table D-1 Mining Timetable

3. Mine Facilities and Operation

The site will contain the following facilities and equipment:

Facilities:

- Portable hot mix asphalt (HMA) plant
- Concrete batch plant
- Portable wash plant
- Portable crushing & screening unit



- Gradation screen/conveyor (portable)
- Portable toilet
- Mine office (portable)
- Scale
- Portable fuel storage

Equipment:

- Front-end loaders
- Bulldozers
- Scrapers
- Haul trucks (off highway)
- Water trucks
- Graders
- Excavators
- Conveyors

Only a loader and scale will be located on the site full time, as most of the year the mine will not need to be running at full production. No permanent structures will be built within the mining area. All production facilities and equipment will be portable. BURNCO will provide portable toilets and bottled water to employees on site during operations. These will be located in the processing area. Any fuel stored on site will have full secondary containment that can carry 110% of the fuel tank volume. All facilities will be removed during reclamation. Explosives will not be used at the site.

4. Topsoil and Overburden Handling

Topsoil averages two feet overlying two feet of overburden. Topsoil and overburden will be stripped with appropriate earthmoving equipment as deemed suitable for the operation such as front-end loaders, dozers, excavators, and water trucks. Topsoil and overburden will be stockpiled separately onsite in either designated stockpiles, berms, or directly placed to create final reclamation slopes. These materials will be directly placed in the designated stockpile areas or berms which can be seen on Map C-2. Stockpiles to be in place longer than 90 days will be seeded with the permanent seed mix to prevent erosion (see Exhibit E for seed mix). Screening berms will be constructed immediately with overburden, topsoil, and/or sand extracted from Pod 1. These berms will be vegetated to prevent erosion and provide noise and visual screening. An average of two feet of topsoil and two feet of overburden were assumed to determine the overall material balance shown in Table D-2.

Table D-2 Topsoil and Overburden Material Generated During Mining

Material Generated (CY)		
Topsoil	271,360	
Overburden	271,360	

Due to the reclaimed land use as water storage ponds, there will be an excess of topsoil than what is needed for reclamation. This is because the lakes make up the majority of the reclaimed land and do not need to be topsoiled entirely. There is not enough overburden to meet



reclamation needs by itself. Excess topsoil and sand will be used to augment the overburden in achieving the final grading shown in the reclamation map in Exhibit F. Overburden, topsoil, and sand will be used to backfill mining slopes to their final reclaimed state. Topsoil will be replaced on all disturbances outside of the ponds and on the pond slopes. It will not be replaced on the pond floor. Topsoil will be replaced in an average two-foot layer to restore the existing soil conditions. Details pertaining to reclamation can be found in Exhibit E and the maps in Exhibit F.

5. Site Access and Internal Road Improvements

The Ewing Gravel Pit will be accessed via the existing northeast access connecting to U.S. Highway 85. All improvements will be covered by appropriate CDOT permits. Improvements to this road will be completed prior to shipment of any construction materials from the site.

The remainder of the site will be accessed internally. The ditch separating the upper and lower terraces has an existing crossing which is currently 15 feet wide. BURNCO plans to widen this crossing to facilitate access from the lower mining areas to the processing area. The crossing will be widened to 30 feet, and a box culvert will be inserted below to maintain flow through the ditch. Details of the crossing improvements are shown on Map C-2. This will be completed prior to the start of mining.

The location and details of these items are all shown on Map C-2 in Exhibit C.



6. Water Information, Rights, and Augmentation

All water rights issues such as availability of water for this operation, consumption rates, dust control, etc. is presented in Exhibit G – Water Information.

7. Schedule of Operations

Mining operations will occur as dictated by demand with an average annual production of 700,000 tons. Mining, screening, and processing will be conducted on site with portable equipment throughout the year. Asphalt and concrete production will occur onsite at various times of the year. Product will be sold from these activities throughout the year. The operator will not have night gravel mining operations, although minor truck activity and repairs may occur after hours.

8. Fort Lupton Impacts and Environmental Impacts

All potential county impacts and concerns are addressed in the Fort Lupton Special Use Permit and Fort Lupton Annexation Application.



EXHIBIT E RECLAMATION PLAN

1. General Reclamation Plan

The total affected area to be reclaimed under this permit is 127 acres out of the 156.7-acre permit area. Reclamation of the Ewing Gravel Pit will convert the site to a final land use of water storage ponds and rangeland.. Reclamation will occur concurrently with mining. Final reclamation will be completed after mining has finished. The pre-mine land use is predominantly agriculture with some oil production areas and one residence. Rangeland exists along the South Platte River corridor. Surroundings land uses include agriculture, open space, and mining. Pursuant to Rule 6.4.5.2(b), the applicant evaluated the post-mine land use in regard to adopted state and local land use plans for this area and adjacent land uses. The proposed post-mine land use of water storage ponds and rangeland is compatible with the general agricultural character of the area and the current zoning with is Agriculture

The permit and affected area of the site are 156.7 acres and 127 acres respectively, not all of which will be disturbed and require reclamation. Approximately 116.0 acres will be disturbed. There will be 65.6 acres of water storage while the remaining area will be rangeland (50.4 acres). Table E-1 below summarize the final land uses within the affected area upon completion of reclamation.

Description	Area (Acres)
Rangeland	50.4
Water Storage Ponds	65.6
Disturbed Area Total	116.0
Undisturbed Area	11.0
Total Affected Area	127
Total Permit Area	156.7

Table E-1 Reclamation Areas

Reclamation will occur concurrently as mining progresses through each pod. No more than 1000 feet of highwall will be unreclaimed at a time. Mining slopes will be backfilled and graded to a maximum 3H:1V slope. The slopes will then be compacted for stabilization and to prevent erosion. All portable facilities and equipment will be removed from the area. All berms will be flattened. The slurry wall will remain during and after reclamation. The pond slopes and any other surrounding disturbances will be topsoiled and seeded for revegetation. Topsoil will be replaced in a two-foot layer to restore the current soil profile. Revegetation will be completed using a native seed mix recommended by the Natural Resource Conservation Service. Revegetation efforts will be monitored following reclamation. The pits will be used for freshwater storage after they have been fully reclaimed and revegetated. The ponds must have a minimum of three feet of freeboard at all times. Wildlife fencing may need to be installed surrounding the



reservoirs for reclamation. These will be installed by BURNCO at the request of Colorado Parks and Wildlife (CPW) or the City of Fort Lupton.

There will be more than enough material stockpiled from on-site materials to fulfill reclamation needs as the groundwater lakes take up the majority of the reclamation area. Table E-2 shows the volumes of topsoil and overburden required for reclamation and the material volumes that will be stripped and stockpiled. As shown, there is an excess of topsoil that is stripped versus what is required for reclamation. The stripped overburden does not meet the amount required for backfilling the pits. However, there will be an excess of topsoil and sand that will be more than enough to meet these requirements. These calculations were made assuming that the site has a uniform two feet of topsoil and two feet of overburden across all areas. Topsoil will be replaced in an average two foot layer across all non-pond disturbances, while overburden will be used to backfill the pit slopes from 1.5H:1V to 3H:1V.

Pod	Area Stripped (ac.)	Topsoil Stripped (CY)	Overburden Stripped (CY)	Rec. Rangeland Areas (ac.)	Topsoil Required (CY)	Overburden Backfill Required (CY) ²
1	50.9	164,237	246,356	13.5	43,560	287,407
2	20.3	65,501	32,751	6.6	21,296	165,037
3	23.7	76,343	133,826	9.2	29,556	449,066
Proc. Area ¹	21.1	68,212	-	21.1	68,211	190,000 ³
Totals	116	374,293	412,933	50.4	162,623	1,091,510

Table E-2 Reclamation Volumes

¹Processing area topsoil removal includes topsoil under screening berms.

²Overburden reclamation requirements not met by the stripped overburden. There is an excess of topsoil (~200,000 CY) and sand (>2M CY) present at the site that can be used to augment the backfill requirements. ³Backfill volume for freshwater and settling ponds in processing area: three-acre ponds 40-ft deep.

Overburden reclamation requirements will not be met by the stripped overburden alone. There is an excess of topsoil and sand present at the site that can be used to satisfy the backfill requirements. Sand volumes have been determined from pre-mine drilling conducted on the site. Table E-3 shows the excess topsoil available for use as backfill as well as the sand that will be needed to make up for backfill shortfalls in Pods 2 and 3. Total Sand Needed is the difference between backfill requirement, backfill stripped (from Table E-2), and excess topsoil. The information in Table E-3 is for the entirety of the operation and is therefore greater than the material requirements of backfill at any given snapshot in time of the operation. The volume of material needed to reclaim at a given snapshot in time is roughly 284,000 CY to cover backfilling of the active highwall and the ponds within the processing area. The operator will maintain enough sand available onsite to backfill the processing area (190,000 CY) and reclaim the 1000-ft of active highwall (94,000 CY). This sand volume will be maintained in either stockpiles or be available within the current mining pod.



Pod	Topsoil Required (CY)	Excess Topsoil Available (CY)	Overburden Backfill Required (CY)	Overburden Stripped (CY)	Total Sand Needed (CY)
1	43,560	120,677	287,407	246,356	0
2	21,296	44,205	165,037	32,751	88,081
3	29,556	46,787	449,066	133,826	268,454
Proc. Area	68,211	-	190,000	-	190,000
Totals	162,623	211,669	1,091,510	412,933	546,535

Table E-3 Additional Backfill Material Requirements

2. Topsoil Replacement

An average of two feet of topsoil will be stripped and stockpiled prior to mining. After backfilling and grading has been completed during reclamation, topsoil will be replaced at an average depth of feet in a manner that is similar to the pre-mine soil profile. Topsoil will only be placed on the pond slopes and other surrounding disturbances. Topsoil will not be replaced on the pond floors. Replaced topsoil will be directly placed by loaders and haul trucks. All topsoiled areas will be disced to aid in root penetration.

3. Haul Roads and Access

All internal haul roads will remain following reclamation to sustain access to the various water and oil wells throughout the site. The main access will be via US-85. The ditch crossing and secondary property access will also remain in place.

4. Reclamation Timetable and Sequence

The sequence and timing of reclamation can be seen in Table E-4 below. The reclamation schedule is dependent on the rate of mining and fluctuating market demands. The operator will reclaim the site concurrently with the progression of mining to limit the total disturbance.

Description	Time Required
Develop and mine pod 1	4 years
Develop and mine pod 2 while reclaiming previous phases	2 years
Develop and mine pod 3 while reclaiming previous phases	4 years
Backfill, topsoil, and revegetate remaining disturbances	1 year
Vegetation monitoring	2 years

Table E-4 Reclamation Timetable



Total	13 years

5. Revegetation Plans

Seed will be placed in all areas to be vegetated following grading, topsoiling, and discing of the soil. All disturbances that are retopsoiled will be seeded with a Rangeland Seed Mix. The Weld County recommended mix to be used is as follows:

5.1. Rangeland Seed Mix

<u>Species</u>	Pounds of pure live seed per acre (drilled)
Sand Bluestem	1.0
Sand Lovegrass	2.5
Indian Ricegrass	3.0
Prairie Sandreed	0.75
Green Needlegrass	1.5
Little Bluestem	0.75
Yellow Indiangrass	0.5
Switchgrass	1.5
Sand Dropseed	0.5
Total	12.0

Broadcast seeding will be done at double the drill rate. Mulch will be placed at roughly 4000 pounds per acre.

6. Post Reclamation Site Drainage

The site will drain internally following reclamation. All water that enters the site will drain to the water storage ponds across the site. Refer to map F-1 for the post reclamation drainage of the site.

7. Revegetation Success Criteria

Revegetation will be deemed adequate when erosion is controlled, the vegetation cover matches neighboring wildlife habitat areas, and when it is considered satisfactory according to Division standards. This will be monitored in the two years following the completion of reclamation.



8. Monitoring Reclamation Success

Measures will be employed for the control of any noxious weed species. The objective of this weed management plan is to control undesirable plants on the Ewing property. Plants identified through the Colorado Noxious Weed Act (C.R.S 35-5.5) and the Weld County Noxious Weed List as undesirable and designated for management within the county will be removed. Any weeds identified as List A species will be eradicated. Other lower listed plants identified as noxious weeds will be managed by control measures. A Weed Control Plan will be utilized as follows:

- 1) Each April, a weed survey will be taken of the permit area.
- 2) If any patches or plants have been identified, they will be sprayed by backpack sprayer or 4-wheeler using chemicals approved for use by the weed control staff of Weld County.
- After reclamation, weed surveys and spraying will continue until the perennial cover and production of the site have met DRMS requirements and bond release has been obtained.

The Division and Weld County staff will be consulted regarding any weed infestation areas and any control measures prior to their initiation. The plan does not contemplate total weed removal on the property. Rather, the goal is to prevent the spread of weeds into uninfected areas as is the primary goal of the Weld County Weed Management Plan.

Each year during the mining operation, the permit area will be monitored closely, through which the operator may determine if any additional weeds have grown. If any new species of weeds are found, Weld County and the Division will be consulted in order to formulate the best plan for the new infestation.

8.1. Weed List

Weeds listed in Table E-1 will be eradicated or suppressed according to Weld County requirements.

Eradication	lication Suppression	
List A (in Weld County)		
Cypress Spurge		
Haire Willow-Herb		
Japanese		
Myrtle Spurge		
Purple Loosestrife		
Yellow Flag Iris		
List B (in Weld County)		
Absinth Wormwood	Canada Thistle	
Black Henbane	Common & Cutleaf Thistle	
Bull Thistle	Eurasian Watermilfoil	
Chamomile species	Jointed Goatgrass	

Table E-1. Weld County Weed List



Eradication	Suppression
Chinese Clematis	Musk Thistle
Houndstongue	Russian knapweed
Moth Mullein	Scotch Thistle
Oxeye Daisy	Yellow Nutsedge
Plumeless thistle	Bouncingbet
Spotted knapweed	Common Tansy
Sulfur Cinquefoil	Dalmation Toadflax
Tamarisk	Dames Rocket
Wild Caraway	Diffuse Knapweed
Yellow Toadflax	Hoary Cress
	Leafy Spurge
	Perrenial Pepperweed
	Russian Olive
List C (in Weld County)	
	Common Mullein
	Cheatgrass/Downy Brome
	Field Bindweed
	Puncturevine/Goatheads



EXHIBIT G

WATER INFORMATION

1. General

The Ewing Gravel Pit is within the floodplain and floodway of the South Platte River. The Platteville Ditch traverses the site from south to north roughly halfway across it. Mining pods 1 and 2 are located on the lower, western terrace which is within the floodplain. Mining pod 3 is located on the upper, eastern terrace along US-85, outside of the floodplain. Mining within the floodway/floodplain will be conducted with no filling or stockpiling above the natural ground grade. Groundwater is located roughly five feet below the natural grade in mining pods 1 and 2; 25-feet below grade in mining pod 3. All groundwater onsite is part of the South Platte River alluvial aquifer. Prior to mining any pod, a slurry wall will be installed around the perimeter of each terrace of gravel, as shown on Map C-2. These slurry walls will be for the development of water storage reservoirs following reclamation.

Xcel Energy maintains a system of groundwater wells on the property for the purpose of supplying water to their power plant to the east, in Keensburg. These wells will be protected from groundwater impacts by their proximity to the South Platte River. Analysis conducted by BURNCO and shown in Appendix G-3 demonstrates this protection.

BURNCO is committed to protecting the hydrological balance and water quality at the site.

2. Water Quality Protection

The primary concerns surrounding water quality protection at the Ewing Gravel Pit site are the potential impacts to the surface and groundwater from sediment, hydraulic fluids, and diesel fuel. Sediment will be controlled through the use of stormwater retention within the disturbance area through the life of the mine. The site will be graded in a manner that maintains all surficial flows within the disturbed area, in turn containing all sediment and unwanted discharges from leaving the site. Hydraulic fluids and diesel fuels will be contained within vehicles or with adequate storage methods that follow best practices of maintenance; these practices including regular inspections of vehicles, hydraulic lines, and any other potential spill sources. Diesel fuel will be stored on-site in double walled tanks with secondary containment. Fuel storage will be stored away from exposed groundwater and other waterways. Spill kits will be located near all fueling areas to clean up inadvertent spills as soon as possible. An SPCC plan will be in place to prevent oil discharges and establish a response procedure in the event of spills.

Any surface water discharges from the site will be sampled in accordance with the NPDES discharge permit. All discharge will be via the approved Outfall, the proposed location of which is shown on Map C-2.



Table G-1. Surface Water Discharge Monitoring Requirements in NPDES DischargePermit

Parameter	Monitoring Frequency	Sample Type
Flow	Instantaneous, Monthly	In-situ
рН	2x/month	Grab
Total Suspended Solids	2x/month	Grab
Oil and Grease Visual	2x/month	Visual
Oil and Grease	Contingent on visibility of oil and grease	Grab
Total Flow	Instantaneous, Monthly	Calculated
Selenium, Potentially Dissolved	2x/month	Grab
Total Dissolved Solids	Quarterly	Grab

Note: these are the anticipated analytes based on operator experience at similar sites. CDPHE may issue different sampling requirements with the permit.

3. Floodplain

The majority of the site is within the 100-year floodplain and floodway as reported by the Federal Emergency Management Agency. These boundaries are shown in the Exhibit C and F maps. The minimum distance maintained from the South Platte River to excavation activities is 100 feet. Additionally, no stockpiling or filling above the natural grade will occur in the floodway or floodplain. All topsoil and overburden stockpiles will be placed on the upper terrace. Overall, the downstream flood impacts should remain the same or be reduced from activity at the site as the removal of material results in more storage space for flood water below the existing grade. A no-rise certification has been provided to the City of Fort Lupton as part of its floodplain development permit.

In accordance with the Mile High Flood Control District technical guidelines, inflow/outflow structures will be installed near the riverbank where mining Pod 1 reaches its closest point to the South Platte River. Details of these designs can be seen on the Map F-2.

In the event of flooding at the site, equipment from the active mining floor will be removed and the pit will be allowed to fill with water. The flooded pit will be pumped only after the flood has subsided. All fuel will be stored at least one foot above the base flood elevation and in sufficient secondary containment with 110% carrying capacity.



4. Wetlands

The National Wetlands Inventory aerial-based mapping indicates the presence of wetlands within the permit area. These wetlands are mostly associated with the vegetated banks along the South Platte River. BURNCO commits to conducting a wetlands survey prior to disturbing any potential wetlands. Exhibit C and F maps show the NWI mapped wetlands.

5. Aquifers

The only identified aquifer located at the site is the shallow alluvial aquifer of the South Platte River. The depth to this aquifer varies throughout the year but is typically five feet below surface for the lower terrace (Pods 1 and 2) and 25 feet below the upper terrace (Pod 3). According to the U.S. Geological Survey's Ground Water Atlas of the United States¹, the underlying bedrock aquifer is the Laramie Fox Hills Aquifer of the Denver Basin system. The entirety of the Ewing Gravel Pit mining operation will take place in the overlaying alluvium above a shale/siltstone layer; the Laramie Fox Hills Aquifer will not be mined.

6. Surface Water

The mining operation will impact surface water in the area through the stormwater runoff that enters the site. Map G-1 – Drainage Map shows the drainage patterns and how they are affected throughout the life of the mine. The maps include information on the drainage basins currently, during mining, and post reclamation as well as the drainage directions throughout these stages. The primary concern for surface water protection at the site is preventing the discharge of sediment, oil, and/or hydraulic fluids from the operation areas. Oils and hydraulic fluids are stored on site following the standard best management practices. These practices include the use of secondary containment at fluid storage and transfer points, spill kits, and employee training regarding safe handling practices. Sediment is trapped onsite using controls and best management practices by directing and controlling surface water runoff that enters the disturbed areas. More information on sediment and surface water control is provided below.

6.1. Surface Water Handling

There are three drainage basins that collect all stormwater runoff on and around the Ewing site. These are shown on the Drainage Map. The first two consist of the lower terrace and cover Pods 1 and 2 respectively, as well as undisturbed portions to the south. Runoff from this drainage basin will be collected in the mining pods during mining and in the water reservoirs following reclamation.

The second drainage basin exists on the upper terrace and consists of mining pod 3 and undisturbed upland to the south. Runoff from this drainage basin will be collected to the mining pod and processing area during mining and the water storage reservoir following reclamation.



¹ https://pubs.usgs.gov/ha/ha730/ch_c/

All drainage basins are shown on the Drainage Map.

6.1.1. Mining

During all phases of mining, and for each drainage basin, surface water runoff will drain to the active mining pod, reclaimed reservoir, or the processing area. Water collected in the active mining pod will be allowed to evaporate or will be discharge via the approved CDPHE outfall once sediment has settled out. Water collected within the processing area will be allowed to evaporate or discharged via the approved CDPHE outfall once sediment has settled out.

6.1.2. Post Reclamation

The drainage patterns during mining will be retained following reclamation of the site. Any surface water runoff will collect in the reclaimed reservoirs. There is enough storage capacity above the anticipated reservoir levels and the top of the shore to store the 100-year storm events. More on those calculations is provided below.

6.1.3. Flood Protection

Mining Pod 1 will extend to within 150 feet from the South Platte River in two locations as shown on the Drainage Map. Due to this proximity to the river, measures will be taken to protect the riverbank from erosion during a flood event. An inflow and outflow structure will be constructed between the River and the mining pod once mining is within 300 feet of the river. These structures will allow for the safe exchange of flood waters between the pit and river which prevents erosion of the riverbank and pitside slope during flood events. These structures are of a design approved for use by the Mile High Flood District. Details of the inflow/outflow structure are shown on the Map F-2.

6.2. Disturbed Area Runoff

During all stages of mining, there is enough water storage capacity to contain the 5-year and 100-year 24-hour storm events and prevent erosion from surface water discharge. The expected rainfall from these events at the Ewing Site is provided in Table G-2 below.

Event Probability	Event Rainfall (inches)
5-YR 24-HR	2.28
100-YR 24-HR	4.64

Table G-2. Area Storm Events (from NOAA²)

The peak runoff was generated from these values for the three drainage basins during all stages of mining. Pre-mine, mining, and reclamation conditions are delineated on the Drainage Map. The discharge volumes from these storm events are calculated in Appendix G-1 at the end of this exhibit. Table G-3 summarizes the runoff volumes and storage volumes for each



² National Oceanic and Atmospheric Administration

drainage. All drainage calculations were made using the Rational Method identified in the Mile High Flood Control District.

Drainage Basin 1						
Site Condition	Area (ac)	Runoff Coefficient	100-Yr 24-Hr Runoff (ac-ft)Discharge Flow Rate (gpm)*		Detention Capacity (ac-ft)***	
Base	60.8	0.5	10.8	15,450	N/A	
Mine	60.8	0.9	11.0	1000-3000**	191.5	
Reclamation	60.8	0.9	11.0	0	191.5	
Drainage Basi	in 2	'				
Site Condition	Area (ac)	Runoff Coefficient	100-Yr 24-Hr Runoff (ac-ft)	Discharge Flow Rate (gpm)*	Lake Storage Capacity (ac-ft)***	
Base	22.4	0.5	2.3	5,300	N/A	
Mine	22.4	0.9	4.2	1000-3000**	71.6	
Reclamation	22.4	0.9	4.2	0	71.6	
Drainage Basi	Drainage Basin 3					
Site Condition	Area (ac)	Runoff Coefficient	100-Yr 24-Hr Runoff (ac-ft)	Discharge Flow Rate (gpm)*	Lake Storage Capacity (ac-ft)***	
Base	107.8	0.5	6.1	27,400	N/A	
Mine	107.8	0.9	19.4	1000-3000**	146.8	
Reclamation	107.8	0.9	19.4	0	146.8	

Table G-3. Drainage Calculations

* The discharge flow rate is calculated from the peak discharge of the 100-Yr 24-Hr storm event.

Discharge flow rate is variable and controlled during mining as all discharges are pumped from the settling pond. *Detention Capacity calculated in CAD.



7. Groundwater

Groundwater is located approximately five feet below the surface of the lower terrace and approximately 25 feet below the upper terrace at the Ewing site. This was determined from wells installed onsite. 12 wells are located onsite for different uses. Table G-4 outlines all wells within 600' of the permit area. These well locations are shown in Map C-1.

		Total		Distance from
		Depth	D	nearest mining
Applicant/Well ID	Permit ID	(feet)	Purpose	area (ft)
L G EVERIST INC	53518-MH	39	Monitoring/Sampling	29
MARTINEZ, HUMBERTO C.	215110A	53	Domestic	106
DITIRRO JOHN JR	11082-F-R	45	Irrigation	606
TRICYCLE LANE TEXASS LLC	151399A	55	Domestic	31
(HAHNE, CLIFFORD)	151200		Demostie	0
EWING, DALE	151398-	50	Domestic	0
ROCKY MOUNTAIN ENERGY CENTER LLC	58545-F	50	Industrial	375
			Stock	265
BACHOFER, ROSS ROCKY MOUNTAIN ENERGY	310554- 58543-F	52	Industrial	365
CENTER LLC		52		88
TRICYCLE LANE TEXASS LLC (HAHNE, CLIFFORD)	146-R	55	Irrigation	0
ROCKY MOUNTAIN ENERGY	58540-F	50	Industrial	472
CENTER LLC	505101	50	lindustriai	172
L G EVERIST INC	53509-MH	55	Monitoring/Sampling	0
L G EVERIST INC	297890-	51	Monitoring/Sampling	0
ROCKY MOUNTAIN ENERGY	58541-F	54	Industrial	319
CENTER LLC				
L G EVERIST INC	53510-MH	60	Monitoring/Sampling	84
L G EVERIST INC	57957-F	45	Industrial	590
L G EVERIST INC	57958-F	0	Other	528
FORMBY, ERNEST	98266-VE	53	Domestic	159
TRICYCLE LANE TEXASS LLC	6912-F	54	Irrigation	47
(HAHNE, CLIFFORD)				
L G EVERIST INC	297892-	27	Monitoring/Sampling	10
GAYTAN, ROCIO	215110A	53	Domestic	159
ROCKY MOUNTAIN ENERGY CENTER LLC	58544-F	46	Industrial	65
EWING, DALE	151399-	40	Domestic	27
TRICYCLE LANE TEXASS LLC (HAHNE, CLIFFORD)	151398A	55	Domestic	30
L G EVERIST INC	297891-	58	Monitoring/Sampling	84
L G EVERIST INC	77371-F	50	Industrial	590
OTTESENS INC	22612-F-R	52	Irrigation	270
FORMBY, EMMETT	215110-	52	Domestic	156
ROCKY MOUNTAIN ENERGY	58542-F	58	Industrial	52
CENTER LLC	50572-1	50		52
DITIRRO JOHN JR	11082-F	45	Irrigation	600
	110021	15	Button	000

Table G-4. Wells Within 600' of Permit Area

*Ewing, Tricycle Lane, and LG Everist listed wells on the property are under the applicant's control.



The Rocky Mountain Energy Center listed wells are the Xcel wells for powerplant water. They are listed separately in Table G-5. The landowner has recently installed piezometers onsite for groundwater level monitoring. These are listed in Table G-6. The piezometers will be used to track groundwater changes before and during mining. They will remain following reclamation for the benefit of the landowner.

Applicant/Well ID	Permit ID	Total Depth (feet)	Purpose	Distance from nearest mining area (ft)
ROCKY MOUNTAIN ENERGY CENTER LLC	58545-F	50	Industrial	375
ROCKY MOUNTAIN ENERGY CENTER LLC	58543-F	52	Industrial	88
ROCKY MOUNTAIN ENERGY CENTER LLC	58540-F	50	Industrial	472
ROCKY MOUNTAIN ENERGY CENTER LLC	58541-F	54	Industrial	319
ROCKY MOUNTAIN ENERGY CENTER LLC	58544-F	46	Industrial	65
ROCKY MOUNTAIN ENERGY CENTER LLC	58542-F	58	Industrial	52

Table G-5. Xcel Supply Wells Within 600' of Permit Area

Table G-6. Piezometers

Applicant/Well ID	Total Depth (feet)	Purpose	Distance from nearest mining area (ft)
Piez-1	50	Industrial	208
Piez-2	50	Industrial	50
Piez-3	50	Industrial	97
Piez-4	50	Industrial	450

Groundwater quality data was gathered in advance of mining. This data and discussion of it can be seen in the Groundwater Monitoring Plan in Appendix G-2.

7.1. Groundwater - Mining

Prior to mining of each pod, a slurry wall will be installed around the perimeter of the pod to prevent groundwater flow into the mining area. Following slurry wall installation, the operator will mine out the pod by dewatering it via the approved CDPHE discharge point. Pumping to conduct this dewatering will take place during the initial mining of each pod and then pumping will cease. Stormwater runoff that is collected in an active pod may be pumped out to protect local water rights, once sediment has settled. For this reason, the CDPHE discharge point will be maintained over the life of the mine. The pump will be located at least two feet below the active mining floor at the lowest point of the pit. It will be surrounded by a gravel filter. This configuration minimizes the risk of sediment being pumped out of the pit.



The typical pit pump location can be seen on Map C-2.

7.2. Groundwater - Reclamation

Permanent water storage reservoirs will be left behind within each pod, as can be seen on Map F-1. There will be no groundwater consumptive use in reclamation.

7.3. Groundwater – Slurry Wall Impact

The installation of several slurry walls within the alluvial aquifer of the South Platte River creates two main potential impacts to the aquifer: the creation of local groundwater shadows or mounding that damage neighboring structures or property and the potential exacerbation of regional groundwater impacts. For these reasons, the applicant has had a groundwater model developed by GSI. The groundwater model looks at the potential impacts of the slurry wall installation on neighboring property and structures, particularly the Xcel supply wells.

7.3.1. Xcel Supply Wells

A set of five groundwater wells run along the west side of the mining pod 1 (Map C-1). Xcel Energy pumps from these wells to supply their operations near Keenesburg, CO. The wells feed a pump house on the northwest corner of the property, from there the water is pumped east to Keenesburg. The wells are located both upstream and downstream of a proposed slurry wall. GSI analyzed the impact of the slurry wall on the Xcel wells to determine if the wall would prevent the wells from producing as Xcel required. The GSI report is in Appendix G-3.

Monitoring of the groundwater level along the South Platte River and the slurry wall will take place as outlined in the groundwater monitoring plan in Appendix G-2.

8. Water Related Permits

The operator is applying for all necessary permits that have not already been acquired for water handling at the Ewing Gravel Pit. This includes a discharge permit with the Colorado Department of Public Health and Environment and a gravel well permit for initial dewatering of each pod with the Colorado Division of Water Resources.

9. Water Consumption and Source

Water for dust control will be the primary consumptive use at the Ewing Gravel Pit site. Water will also be used for aggregate washing, dust control, and concrete/asphalt production. Water will be purchased from the local water conservancy district during operations. No ongoing water consumptive use exists in reclamation, since the water storage pods are lined. This water will be sourced from a freshwater pond in the processing area. This pond will be covered by a gravel well permit. Table G-7 summarizes the estimated water consumption for the operation throughout the year.



Month	Aggregate Washing (ac-ft)	Concrete/Asphalt Production (ac-ft)	Dust Control (ac-ft)	Evaporative Depletions (ac-ft)	Water Removed from Mining (ac-ft)	Total (ac-ft)
Jan	0	0	0.11	0.00	0.00	0.1
Feb	0	0	0.12	0.00	0.00	0.1
Mar	0	0	0.19	0.00	0.00	0.2
Apr	2.88	3.00	0.32	1.62	0.00	7.8
May	2.99	3.12	0.42	1.68	0.00	8.2
Jun	2.88	3.00	0.51	1.62	0.00	8.0
Jul	2.99	3.12	0.53	1.68	0.00	8.3
Aug	2.99	3.12	0.47	1.68	0.00	8.3
Sep	2.88	3.00	0.35	1.62	0.00	7.9
Oct	2.99	3.12	0.25	1.68	0.00	8.0
Nov	0	0	0.14	0.00	0.00	0.1
Dec	0	0	0.11	0.00	0.00	0.1
Total	20.62	21.48	3.50	11.56	0	57.2

Table G-7. Water Consumption

The Ewing Gravel Pit sources water for operations via water contract. Any groundwater exposure will be covered by a gravel well permit with the Colorado Division of Water Resources.



Appendix G-2 Groundwater Quality Monitoring Plan



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Introduction

This groundwater quality monitoring plan will be implemented at the Ewing Gravel Pit located in Weld County, just north of Fort Lupton, Colorado. This plan outlines the methods that the mine operator will follow to protect and monitor the integrity of the local groundwater quality and quantity. This plan is intended to meet the requirements of the Division of Reclamation, Mining, and Safety (DRMS) Mineral Rules and Regulations Rule 3.1.7(7)(b) and the Colorado Department of Public Health & Environment (CDPHE) Regulation No. 41. The Ewing site is not located on any classified areas regarding groundwater; therefore, the statewide regulations (CDPHE Regulation 41) will be followed.

This monitoring plan requires the collection of pre-operational groundwater data that will be used as the baseline data to compare to the results of continued long-term groundwater monitoring. At least five quarters of monitoring data will be collected prior to operations commencing onsite. As shown in Appendix 2, this baseline data collection began in Q4 of 2022 and will achieve five quarters of data collection by Q4 of 2023. Continued monitoring will take place during operations. Results of this monitoring will be used to evaluate if any adverse impacts on groundwater have taken place as a result of the Ewing gravel mining operations.

The Ewing Gravel Pit will create three slurry-wall-encased water storage reservoirs. Initial dewatering of the mining pods following slurry wall installation will be via CDPHE approved discharge outfalls. There will be no ongoing interaction between mining operations and the local groundwater aquifer. The presence of slurry walls may impact local groundwater levels through mounding or shadow effects during mining and following reclamation. Based on these conditions, sampling of water chemistry at the Ewing Gravel Pit will be conducted on a quarterly basis to begin the baseline characterization. Sampling of water levels onsite will take place monthly. The operator may apply to reduce sampling frequency with CDRMS.



1. Background Information

1.1. Site Description

The Ewing Gravel Pit Site is located directly north of Fort Lupton in Weld County, Colorado. An address associated with the site is 7501 US-85, Fort Lupton, 80621. The site is a total of 156.7 acres.

It is bounded by the South Platte River to the west and US-85. The site is currently multiple active agricultural fields on two terraces, the lower one being closer to the river, while the upper terrace is adjacent to the highway. Each terrace is mostly flat with the Platteville irrigation ditch diving them. There are various abandoned residences and agricultural buildings on the upper terrace. Active oil wells and facilities are scattered across the site on both terraces. Additionally, Excel energy makes use of the site through multiple groundwater wells along the river to supply water to their power plant in the east. The site location is shown in the vicinity map in Figure 1 below.



Figure 1 – Vicinity Map



The geology of the site is composed of a sand and gravel alluvial deposit created by the South Platte River. The deposit is overlain by approximately two feet of overburden and two feet of topsoil. The deposit itself is composed of a layer of sand at the top, with an average thickness of 28 feet. An interbedded sand and clay deposit exists on the lower terrace with a thickness of 12 feet that dips shallowly to the east. Below this is the gravel deposit with an average 16-foot thickness. The bedrock below the alluvial deposit is claystone and siltstone with an approximate depth of 30-40 feet below the surface.

The groundwater aquifer present in the general vicinity is the South Platte alluvial aquifer. This aquifer is approximately 5 feet below the surface of the lower terrace, and 25 feet below the upper terrace. Characterization data of this aquifer was sourced from the South Platte Decision Support System Alluvial Groundwater Model Update Documentation published by the Colorado Water Conservation Board and Division of Water Resources¹. The alluvial aquifer is unconfined and spreads along the South Platte River across much of northeastern Colorado, extending up towards Nebraska. Groundwater flows are generally in the direction of the South Platte River moving towards the northeast. The aquifer ranges from 20 feet in thickness in the upper tributaries of the river, to more than 300 feet further downstream along the mainstem South Platte River extending towards Nebraska. The hydraulic conductivity generally ranges from 200-600 feet/day, but can reach up to 2,000 feet/day in the more productive sand and gravel deposits. The aquifer is recharged in various ponds and canals throughout the basin.

Underlying the South Platte aquifer is the Laramie Fox Hills bedrock aquifer which will not be interacted with as it is over 1,000 feet below the surface.

An estimated potentiometric contour model for the groundwater aguifer was developed based on groundwater data measured at the site. This data was measured through the wells identified to be used in this monitoring plan, over the course of five quarters. This mapped data, averaged throughout the seasonal fluctuations, is attached in Appendix 1. Also included in this map are all existing wells at and around the site, as well as other physical features of the site.



¹ Brown and Caldwell, South Platte Decision Support System Alluvial Groundwater Model Update Documentation. The Colorado Water Conservation Board and Division of Water Resources. June 2017

1.2. Baseline Groundwater Characterization

Water quality and quantity sampling will take place at seven locations for five quarters prior to mining operations in order to establish the baseline groundwater characterization. As shown in Appendix 2, this baseline data collection began in Q4 of 2022 and will achieve five quarters of data collection by Q4 of 2023.

Each sample point can be seen on the map in Appendix 1 and on Figure 2



Figure 2. Details on the sampling locations are provided in


Table 1.



Figure 2 – Groundwater Sampling Locations



ID	Location Description	Lat	Long	Surface Elev.	Top of Casing Elev.	Total depth (ft)	Completion Date
GW-1	NE upper terrace near US- 85	40.10834	-104.81558	4830'	4831'	55.0	1/30/2014
GW-2	NW upper terrace near residences	40.10897	-104.81108	4830'	4830' 4834' 58.0		4/6/2015
GW-3	W upper terrace in field	40.10537	-104.81356	4830'	4833'	51.0	4/6/2015
Piez-1	N lower terrace by river	40.10848	-104.81794	4815'	4819'	43.0	2/1/2023
Piez-2	W lower terrace by river	40.10705	-104.82193	4820'	4824'	4824' 45.0	
Piez-3	SW lower terrace by river	40.10405	-104.82176	4820'	4824'	50.0	2/1/2023
Piez-4	S lower terrace by river	40.10207	-104.81735	4825'	4829'	46.0	2/1/2023

Table 1 – Groundwater Sampling Location Data



1.2.1. Monitoring Well Installation

All wells being used for monitoring have already been constructed and permitted with the Colorado Division of Water Resources (CDWR). They have been constructed by a licensed contractor following the State Engineer's Office (SEO) guidelines. Construction information and lithology for each well is provided in Appendix 3 under the associated CDWR permit documents. Other characteristics of the wells are provided in Table 1 above. Table 2 below lists the permit CDWR permit numbers for each of these wells.

ID	CDWR Permit No.
GW-1	151398-A
GW-2	297891-
GW-3	297890-
Piez-1	329516-
Piez-2	329532-
Piez-3	329517-
Piez-4	329518-

Table 2 – CDWR Well Permits

1.2.2. Baseline Groundwater Quantity

The baseline water level will be quantified with at least five quarters of static water level measurements at all seven sampling locations. It will be taken quarterly prior to quality sampling at groundwater wells GW-1, GW-2, and GW-3. It will also be taken monthly, at a minimum, from piezometers Piez-1, Piez-2, Piez-3, Piez-4. The water level will be measured using depth measuring equipment such as a sounder from the top of the well casing, using the sampling methods outlined later in this plan. Data will be recorded in table and graph format in Appendix 1.

This data will be analyzed to show the water level against time in graph format, as well as to create a potentiometric head model. This model will be developed by averaging the five guarters of water level measurements at three or more points. A spatial model will be developed using the average water level and well location in geospatial mapping software. A contour map created from the baseline level data is provided in Appendix 1.

Quantity sampling will continue following the installation of slurry walls on a monthly basis with quality sampling. This sampling will occur at all seven sampling locations across the site. Results will be reported to the DRMS in table and graph format with the annual report.

1.2.3. Baseline Groundwater Quality

The baseline water quality will be quantified with at least five quarters of water quality sampling at three of the seven sampling locations. Field and laboratory samples will be taken quarterly at groundwater wells GW-1, GW-2, and GW-3. While these wells do not represent the upstream



and downstream locations of all the mining areas, they will work to quantify the ambient baseline quality of the groundwater aquifer as it should be homogenous across the site. Quality sampling will meet Regulation 41 standards and parameters using the sampling methods described in this plan. Data will be recorded in a table and reported in Appendix 1.

2. Predicted Impacts to Hydrologic Balance

Predicted impacts to the hydrologic balance due to operations at the Ewing Gravel Pit will primarily include water quantity impacts from the slurry wall. Mounding of the groundwater in the aquifer will likely occur surrounding the slurry wall. Water quality is not anticipated to be impacted as the slurry wall separates mining operations from the groundwater aquifer. The mounding of groundwater has been quantified through a groundwater model to determine the cumulative effects of the slurry wall with the surrounding conditions. This report is attached in Appendix G-3 of the CDRMS permit. Water quality is not anticipated to occur as all mining is surrounded by slurry walls such that no continued groundwater action takes place.

The sampling and monitoring methods in this plan will work to identify any impacts to hydrologic balance once mining starts. Also outlined in this plan are actions to take in the case that adverse impacts to the groundwater are encountered.

3. Ongoing Groundwater Monitoring Plan

When operations commence onsite, this groundwater monitoring plan will be enacted at the Ewing Gravel Pit to identify and quantify and potential impacts of mining to the local groundwater aquifer.

3.1. Groundwater Points of Compliance

The points of compliance (POC) at the Ewing Gravel Pit will be used to monitor quality and quantity of groundwater during mining operations to ensure compliance with Regulation 41. These points of compliance are downstream of mining. GW-1, Piez-1, and Piez-2 will be the POC during the life of the mine. Monitoring will begin quarterly at the designated POC for the first 12 months after the installation of any new slurry walls. If monitoring shows no adverse effects of mining at these POC's, monitoring frequency will be decreased to twice a year (every 6 months). With the installation of the second slurry wall around Pod 3, quarterly sampling will begin again for 12 months at the designated POC's. It will then be reduced to twice a year after this time period. Results of the quality and quantity sampling at the POC's will be provided to the DRMS with the annual report. If adverse effects are identified, the DRMS will be notified immediately and BURNCO will start a water quality mitigation plan as advised by the DRMS.

It is recommended, but not required, to monitor upgradient water locations. This quality sampling would work as a reference point to protect the mine from any exceedances due to offsite influences. Upgradient locations will be investigated by the operator for this sampling.



4. Sampling Methods

This section identifies the sampling methods that will be used to quantify the groundwater conditions at the Ewing Gravel Pit.

4.1. Sampling Location

The sampling locations, including frequency and sampling type, are detailed in the table below.

	Baseline Sam	Baseline Sampling POC Sampling			Background Sampling			
ID	Quantity Sampling Frequency	Quality Sampling Frequency	QuantityQualitySamplingSamplingFrequencyFrequency					
GW-1	Quarterly	Quarterly for five quarters	Monthly	Quarterly then semi-annually*				
GW-2	Quarterly	Quarterly for five quarters						
GW-3	Quarterly	Quarterly for five quarters			Monthly	Quarterly then semi- annually*		
Piez-1	Monthly		Monthly	Quarterly then semi-annually*				
Piez-2	Monthly		Monthly Quarterly then semi-annually*					
Piez-3	Monthly							
Piez-4	Monthly				Monthly	Quarterly then semi- annually*		

Table 3 – Sampling Type and Frequency

*Quarterly sampling will take place at all POC's after the first 12 months of any new slurry wall. After 12 months, it can be decreased to a semi-annual schedule.

4.2. Sampling Frequency

Baseline groundwater sampling will begin at least five quarters in advance of mining at the Ewing Gravel Mine. One sample per quarter will be taken at each of the groundwater sampling locations to define the baseline conditions of groundwater (GW-1, GW-2, and GW-3).

Point of compliance sampling will begin after mining has started. It will start out as quarterly sampling for the initial 12 months after slurry wall installation. If adverse impacts have not been encountered after five quarters of sampling, the frequency may be decreased to every six months. After the installation of the second slurry wall, the sampling frequency will return to quarterly for 12 months, then decrease to semi-annually.

4.3. Sampling Parameters

BURNCO will perform field and laboratory analysis of their samples for the water quality parameters identified in Table 4Error! Not a valid bookmark self-reference.. These



parameters are consistent with those required by the DRMS for Construction Material Sites, derived from Regulation 41 Tables 1-4. All laboratory analysis of the groundwater samples will be performed by a State of Colorado certified laboratory that follows industry standards and quality assurance/quality control (QA/QC) procedures.

Analyte		Table Value Standard (mg/L unless stated otherwise)	Reg.41 Table Reference (1-4)
1	pH (Field)	6.5-8.5 units	2&3
2	TDS	400, or 1.25 x Background	4
3	Chloride - Dissolved	250	2
4	Fluoride - Dissolved	2	3
5	Nitrate (NO3)	10	1
6	Nitrite (NO2)	1.0	1
7	Nitrite + Nitrate as Nitrogen	10	1
8	Sulfate - Dissolved	250	2
9	Aluminum - Dissolved	5	3
10	Antimony - Dissolved	0.006	1
11	Barium - Dissolved	0.01	1
12	Beryllium - Dissolved	2	1
13	Boron - Dissolved	0.004	1
14	Cadmium - Dissolved	0.75	3
15	Chromium - Dissolved	0.005	1
16	Cobalt - Dissolved	0.1	1 & 3
17	Cobalt - Dissolved	0.05	3
18	Copper - Dissolved	0.2	3
19	Iron - Dissolved	0.3	2
20	Lead - Dissolved	0.05	1
21	Lithium - Dissolved	2.5	3
22	Manganese - Dissolved	0.05	2
23	Mercury - Dissolved	0.002	1
24	Molybdenum - Dissolved	0.21	1
25	Nickel - Dissolved	0.1	1
26	Selenium - Dissolved	0.02	3
27	Silver - Dissolved	0.05	1
28	Thallium - Dissolved	0.002	1
29	Uranium - Dissolved	0.0168-0.03	1
30	Vanadium - Dissolved	0.1	3
31	Zinc - Dissolved	2	3

Table 4 – Water Quality Parameters

4.4. Sampling Procedure

The following protocol will be used for the collection and testing of water samples:

1) Specific bottles will be ordered from an appropriate laboratory which will be used for collecting water samples.



- 2) The static water level of the groundwater well will be measured and recorded using a water level well sounder prior to pumping of the well. The measurement location at the top edge of the well casing will be marked with a permanent ink pen. This mark will be touched up with fresh ink each time a sample is taken.
- 3) The contents of the well will be purged prior to sample collection using a low-flow, submersible pump. This pump will be cleaned prior to being placed in the well. At least three well volumes will be removed prior to sampling.
- 4) The following field measurements will be taken with cleaned and calibrated meters:
 - a. pH
 - b. Temperature
 - c. Dissolved Oxygen
 - d. Conductivity
- 5) Water will be pumped from the well into a clean pitcher or bottle which will be used to fill the bottles from the laboratory. The bottles will be marked with the date, time, and site location of the sample as well as the person who collected the sample. If a pump controller system is used, the sample bottles may be filled directly from the well. Samples will be preserved and shipped in accordance with the method requirements. Filled sample bottles will then be placed in a cooler with ice for transport to the lab.
- 6) A chain of custody will be completed for the sample which indicates what analyses need to be performed, the date and time of sampling, sample identification, and who assembled the sample. The samples will be delivered to the lab the day of collection.

Field measurements will be reported consistent with industry standards for field sampling logbooks. An example of the logbook to be used is shown in Appendix 4.

4.5. Analytical Procedures

The results from the analytical water quality testing will be evaluated through comparison with the State groundwater quality standards. The Ewing Gravel Mine is not within any WQCC specified areas that would require conformance with anything other than statewide water quality standards. Baseline groundwater data can be found in Appendix 2.

4.5.1. Site-Specific Numeric Protection Levels

Based on the pre-mine baseline water quality data gathered at the Ewing Gravel Pit, the following Site-Specific Numeric Protection Levels are proposed for the parameters identified below. The Site-Specific Numeric Protection Levels is based on the two-sigma (95-percentile) statistical value for the parameter sampled. While this is the proposed standard from BURNCO, Site-Specific Numeric Protection Levels will ultimately be determined by the DRMS following the submittal of five quarters of baseline data. BURNCO commits to the submittal of Technical Revision (TR) with the Division to comply with the DRMS defined table value standards, as well as the DRMS' proposed action trigger levels and corrective actions.



Table 5. Proposed Ambient Standards

Parameter (mg/L)	Average	Two-Sigma	Reg 41 – Drinking Water	Reg 41 – Ag. Water	Reg 41 – Human Health	Samples in Excess of Standards
Manganese	0.325	1.20	0.05	0.2	N/A	4
Uranium	0.018	0.04	N/A	N/A	0.03	3

4.6. State Water Quality Standards

The analytical results of water quality testing during mining will be compared to the regulatory limits established by Water Quality Control Commission (WQCC) and those otherwise defined by the DRMS. The groundwater of the Ewing Gravel Mine is subject to the statewide groundwater quality standards as defined in Tables 1-4 of the WQCC Regulation 41. The site is not within any specified areas identified by the WQCC to have specific groundwater quality standards. Final site-specific standards will be determined by the DRMS and implemented as the exceedance action trigger level in a subsequent TR. If any exceedance of these standards or the ambient values are detected during mining at the Ewing Gravel Mine, the DRMS will be notified in accordance with Rule 3.1.7(9) and BURNCO will initiate a water quality mitigation plan as proposed by the DRMS.

If any exceedances of the WQCC Regulation 41 basic groundwater standards are encountered, BURNCO will implement the following reporting and mitigation procedures:

- Notify the DRMS of the exceedance within five (5) working days of receiving the analytical report from the laboratory.
- Implement DRMS proposed corrective actions, as defined in a subsequent TR, such as the following:
- Identify the potential cause or source of the exceedance.
- Implement supplemental water quality sampling. Sampling and testing of the groundwater well will be increased until the parameter(s) drop below the allowable limit. Only parameter(s) that were in exceedance will be measured as part of this supplemental sampling.
- Consult with the Weld County Department of Environmental Health on appropriate mitigation methods of the exceedance.
- Provide a report to Weld County staff and the DRMS with details of the exceedance, mitigation measures, and results.

4.7. Reporting

Baseline water quality and quantity data for the initial five quarters will be reported to the CDRMS prior to operations. Reporting of POC data will be included with the mine's annual



report. Data reporting will be in table format and graph format when necessary. If water quality sampling shows exceedances of the parameter table value standards as defined by the DRMS, they must immediately be reported to the Division.

BURNCO commits to the submittal of a TR containing the full set of baseline water quality data along with any proposed Numeric Protection Levels that exceed Table Value Standards. The TR will also include proposed groundwater elevation trigger levels and proposed corrective actions for DRMS review prior to the installation of the first slurry wall.

4.8. Sampling Quality Assurance Project Plan (QAPP)

BURNCO's quality assurance methods for water sampling includes only using Colorado State certified laboratories with an industry standard Quality Assurance/Quality Control plan in place. On-site quality assurance for field sampling is included in the Sampling Procedure described in Section 1.4. Certain steps of the procedure such as clearing three well volumes before sampling and using cleaned and calibrated testing equipment help to ensure that the testing results are accurate and free of altering contaminants. Any samples that are collected will include information on who took the sample, when it was taken, sample identification, and the chain of custody. A sample data collection sheet from previous baseline monitoring at the site is provided in Appendix 5.



Appendix 1 - Map







Appendix 2 - Baseline Groundwater Quality Data

	Missing Data										
Parameter	Date(s)	Reason									
Lithium, Dissolved	All	Lithium testing was not available at chosen testing laboratory. Conditions of the site and mining make it unlikely for any lithium to be detected or impacted by the operation. This parameter will be tested in the future, and the defined Table Value standard of 2.5 mg/L will be accepted as the limit.									
Mercury, Dissolved	9/28/22	This parameter was not tested at the laboratory for the first quarter of background. However, subsequent testing shows that this parameter is not detected.									



		GW	7-1						GW-2				GW-3			
Parameter, Limit	9/28/22	2/8/23	3/30/23	6/29/23	12/12/23	9/28/22	2/8/23	3/30/23	6/29/23	12/12/2023	9/28/22	2/8/23	3/30/2023	6/29/23	12/12/23	Compiled Standards
Aluminum, Dissolved	ND	0.002	ND	0.003	ND	ND	0.006	0.002	0.005	.001	ND	0.003	0.006	0.003	ND	5.0
Antimony, Dissolved	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006
Arsenic, Dissolved	0.0018	0.0008	0.0006	ND	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01
Barium, Total	0.094	0.09	0.078	0.069	0.125	0.111	0.039	0.057	0.049	0.041	0.053	0.053	0.095	0.063	0.064	2.0
Beryllium, Dissolved	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.004
Boron, Dissolved	0.22	0.22	0.35	0.25	0.16	0.24	0.24	0.30	0.31	0.21	0.21	0.16	0.21	0.23	0.20	0.75
Cadmium, Dissolved	0.0001	0.0002	ND	0.0001	ND	ND	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001	ND	0.0001	ND	0.005
Chloride	128.97	150.66	137.06	141.61	136.00	164.92	173.75	164.13	156.98	161.00	160.13	174.77	177.58	198.43	165.00	250
Chromium, Dissolved	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1
Cobalt, Dissolved	0.0004	0.0008	0.0011	0.0016	0.0002	0.0009	0.001	0.001	0.0009	0.0009	0.0066	0.0058	0.0057	0.0078	0.002	0.05
Copper, Dissolved	0.0062	0.0015	0.0017	0.002	.003	0.0008	0.0009	0.0008	0.0008	.001	0.0025	0.0022	0.002	0.0029	.001	0.2
Cyanide-Weak Acid Dissociable	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Field - Dissolved Oxygen	3.9	0.0033	0.001	0.69	4.8	2.75	0.0219	12.8937	1.13	5.27	0.9	ND	12.04	1.19	4.83	
Field - Electroconductivity	1290.0	0.01	0.0	1180.0	1073.0	893.0	ND	19.59	1614.0	1520.0	771.0	7.27	16.08	1506.0	1353.0	
Field - pH	6.9	7.2	7.1	7.3	7.0	7.8	7.3	7.4	7.4	6.9	7.4	7.3	10.2	7.5	6.9	6.5-8.5
Field - Temperature	20.0	20.0	20.0	19.4	14.0	15.5	20.0	20.0	15.9	13.8	17.8	20.0	20.0	14.4	12.2	
Field - Water Depth	4811.00	4808.80	4810.02	4812.91	4810.18	4810.60	4806.70	4809.99	4814.32	4811.40	4810.70	4806.70	4809.33	4813.63	4810.74	
Fluoride	0.91	1.52	1.5	1.45	0.76	1.58	1.69	1.64	1.65	1.63	1.24	1.32	1.26	1.21	1.09	2.0
Iron, Dissolved	0.007	0.027	0.012	ND	0.006	ND	ND	ND	ND	ND	ND	ND	ND	0.012	ND	0.3
Lead, Dissolved	ND	ND	ND	ND	0.000	ND	ND	ND	ND	ND	ND	ND	ND	0.000	ND	0.05
Manganese, Dissolved	0.001	0.057	0.065	0.102	0.001	0.571	1.1	0.995	0.999	0.926	0.001	0.004	0.005	0.004	0.002	0.05
Mercury, Dissolved		ND	ND	ND	ND		ND	ND	ND	ND		ND	ND	ND	ND	0.002
Molybdenum, Dissolved	0.006	0.004	0.004	0.004	0.004	0.009	0.006	0.005	0.004	0.005	0.003	0.004	0.004	0.003	0.003	0.21
Nickel, Dissolved	0.0023	0.003	0.003	0.0038	0.0016	0.0033	0.0032	0.0031	0.0029	0.003	0.0052	0.0052	0.0046	0.0054	0.0023	0.1
Nitrate Nitrogen	0.72	5.9	4.1	3.95	3.01	7.27	7.83	7.28	7.91	6.27	2.9	3.7	4.94	9.4	9.35	10.0
Nitrate/ Nitrite Nitrogen	0.72	5.9	4.1	3.95	3.01	7.27	7.83	7.28	7.91	6.27	2.9	3.7	4.94	9.4	9.35	10.0
Nitrite Nitrogen	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0
Selenium, Dissolved	ND	0.002	ND	ND	0.001	0.007	0.01	0.011	0.01	0.009	ND	ND	ND	ND	0.002	0.02
Silver, Dissolved	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05
Sulfate	144.6	198.1	167.4	166.0	257.0	276.1	286.6	266.0	243.6	257.0	168.6	187.3	186.7	202.6	198.0	250
Thallium, Dissolved	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0002	ND	ND	ND	ND	0.002
Total Dissolved Solids	596.0	757.0	699.0	704.0		1012.0	1047.0	1029.0	1009.0		733.0	738.0	788.0	918.0		400 or 1.25x Background
Uranium, Dissolved	0.0084	0.0167	0.0094	0.0097	0.0074	0.0219	0.0398	0.0366	0.0338	0.29	0.0069	0.0082	0.0082	0.02	0.0127	0.0168 - 0.03
Vanadium, Dissolved	0.001	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1
Zinc, Dissolved	0.001	ND	0.001	0.001	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	2.0



Appendix 3 – CDWR Permits

Documents provided in the following order:

<u>ID</u>	CDWR Permit No.
GW-1	151398-A
GW-2	297891-
GW-3	297890-
Piez-1	329516-
Piez-2	329532-
Piez-3	329517-
Piez-4	329518-



WRJ-25-75				
	COLORADO DIVISION O	F WATER RE	SOURECEIVED	
TYPE OR PRINT IN <u>BLACK INK.</u> COPY OF ACCEPTED	818 Centennial Bidg. Denver, Colore	, 1515 Sheiman 51	•	
STATEMENT MAILED ON REQUEST. STA	TE OF COLORADO	100 00203	DEC 0 1 1988	
COU	NTY OF Weld	{ ss.	MATER AGENELDAVIT	
		······································		
	<u>x</u> STATEMENT OF BENEFICE AMENDMENT OF EXISTING LATE REGISTRATION		UND WATER	
	PERMIT NUMBER	151399 -2 X	LOCATION OF WELL	
THE AFFIANT(S) Dale	Ewing	County	_Weld	
whose mailing address is <u>7503, Hwy</u>	. 85	NE	½ of the <u>SE</u> ½, Section <u>31</u>	<u>)</u>
City Fort Lupton	Co. 80621	Twp2	<u>N</u> , Rng. <u>66</u> <u>W</u> , <u>6</u>	Рм
			of the well described hereon; the well	
located as described above	, at distances of <u>2600</u> feet from	the <u>south</u>	section line and <u>1200</u> feet from	the
east section line; wo	ater from this well was first applied to a	beneficial use fo	r the purpose(s) described herein on the 🚊	5
day of <u>Oct.</u> ,	19 <u>88</u> ; the maximum sustained pumpir	ig rate of the well	is <u>15</u> gallons per minute, the pump	oing
rate claimed hereby is <u>15</u>	gallons per minute; the total de	pth of the well is	<u>.55</u> feet; the average annual amo	ount
of water to be diverted is _	1acre-feet; for which claim is	s hereby made for	Domestic	
<u> </u>	purpose(s); the legal desc	ription of the land	on which the water from this well is use	d is
	ec. 30 Twp. 2 N Rng/ 66 1	M. <u>6</u> P.M.	of w	hi ch
compliance with the permit	approved therefor; this statement of ber statements made hereon; knows the cont (COMPLETE REVERSE	neficial use of gro ent thereof; and th	of this form; that this well was complete und water is filed in compliance with law hat the same are true of his (their) knowle URM)	; he
Subscribed and sworn	T. Mar hall	.48	FOR OFFICE USE ONLY	
to before the on this	day of <u>wender</u> , 1 My Commission Expires	<u>с.</u>	urt Case No	
My Commission expires:	Eeb, 12, 1991	<u>, Р</u>	ior Mo Day Yr	
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ACCEPTED FOR FILING	BY THE STATE ENGINEER OF COLO		c 1y	
THAT THOSE CONDITIONS	OF APPROVAL AS STATED ON THE	we	II Use S	
PERMIT ARE COMPLIED W	ITH.	Di	st. 2 Basin Man Dis	,
			P	
SEP 2 5 1989	- Juin U. Wanuldon		Thelissatore)	
DATE	STATE ENGINEER		вт О	

Well drilled by <u>R & R Well & Pump Inc.</u>	Lic. No. <u>857</u>
Permanent Pump installed by <u>Spains</u> Pump Service	Lic. No715
Meter Serial No Flow Meter	Date Installed <u>10-5-88</u>
Owner of land on which water is being used <u>Dale Ewing</u>	

THE LOCATION OF THE WELL MUST BE SHOWN AND FOR LARGE CAPACITY IRRIGATION WELLS THE AREA ON WHICH THE WATER IS USED MUST BE SHADED OR CROSS-HATCHED ON THE DIAGRAM BELOW.

This diagram represents nine (9) sections. Use the **CENTER SQUARE** (one section) to indicate the location of the well, if possible.



WATER EQUIVALENTS TABLE (Rounded Figures)

An acre-foot covers 1 acre of lond 1 foot deep. 1 cubic foot per second (cfs) . . . 449 gallons per minute (gpm). 1 ocre-foot . . . 43,560 cubic feet 325,900 gallons. 1,000 gpm pumped continuously for one day produces 4.42 acre-feet. 100 gpm pumped continuously for one year produces 160 acre-feet.

(WHITE AND PINK COPY TO BE FILED WITH THE STATE ENGINEER PINK COPY WILL BE RETURNED TO OWNER)

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- PUMP INSTALLATION REPORT				
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CONTRACTORS STATEMENT

-

The undersigned, being duly sworn upon oath, deposes and says that he is the contractor of the well or pump installation described hereon; that he has read the statement made hereon; knows the content thereof, and that the same is true of his own knowledge.

Signature Ston ant & prinn	License No. 715
State of Colorado, County of	SS
Subscribed and sworn to before me this 24 day of January	, 19 <u>89</u> .
My Commission expires: 19.2 , 19.22	
Notary Public_ Jence On Collam	

FORM TO BE MADE OUT IN QUADRUPLICATE: WHITE FORM must be an original copy on both sides and signed. WHITE AND GREEN copies must be filed with the State Engineer. PINK COPY is for the Owner and YELLOW COPY is for the Driller.

10-3-88	- 8° 8° -
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NK.				151399-A STATE CORL
VELL O	WNER_	Dale_Ewing		NE ¼ of the ¼ of Sec30
ADDRE	ss _ 75	03 Hwy. 85 Fort Lupton, C	<u>o.</u>	T. <u>2</u> N., R. <u>66</u> W., <u>6</u> P.M
OATE C	OMPLE	TED9-28	, 19 <u>8.8.</u>	
	[WELL LOG	Water	7 <u>7/8</u> in. from <u>0</u> to <u>55</u> ft. 1
From	То	Type and Color of Material	Loc.	in. from to ft.
0	3	Top soil		in. from to ft.
3 10	10 20	Coarse sand/fine gravel Pea gravel-1" gravel		DRILLING METHOD <u>Rotary</u> CASING RECORD: Plain Casing
20	41	Coarse sand/ pea gravel	x x	Size <u>5</u> & kind <u>PVC</u> from <u>+1</u> to <u>35</u> ft
41 43	43 53 P	Gray clay ea gravel	x	Size & kind from to ft
53	55	Shale		
				Size & kind from to ft
				Perforated Casing
				Size <u>5</u> & kind <u>PVC</u> from <u>35</u> to <u>55</u> ft.
				Size & kind from to ft.
				Size & kind from to ft.
				GROUTING RECORD
				Materialcement
				Intervals 0-10
				Placement Method
				GRAVEL PACK: Size 3/8
	Ì			Interval <u>10-55</u>
				TEST DATA
				Date Tested <u>9_28</u> , 1988_
				Static Water Level Prior to Test19 ft
				Type of Test Pump <u>Bailed</u>
				Length of Test2 Hrs
				Sustained Yield (Metered) <u>15 GPM</u>
	l Ilao d	TOTAL DEPTH <u>55</u> additional pages necessary to complete log.	I	Final Pumping Water Level23 !

PUMP INSTALLATION REPORT Pump Make Not installed by R & R Type		
Powered by: HP		
Pump Serial No		
Motor Serial No.		[版] 레 레 키너 「TABLE
Date Installeo		
Pump Intake Depth		
Remarks		
		DRAWDOWN
WELL TEST DATA WITH PERMANENT PUMP	DEPTH TO INT	
Date Tested Not installed by R & R	DEPTH	CONE OF DEPRESSION
Static Water Level Prior to Test	DEF	
Length of Test Hours		
Sustained yield (Metered) GPM		
Pumping Water Level		
Remarks		
	│ <u>¥</u>	
	<u>t</u>	

CONTRACTORS STATEMENT

The undersigned, being duly sworn upon oath, deposes and says that he is the contractor of the well or pump installation described hereon; that he has read the statement made hereon; knows the content thereof, and that the same is true of his own knowledge.

Signature	License No. 857
State of Colorado, County of	SS
Subscribed and sworn to before me this 17 day of Prince	, 19 <u>88</u> .
My Commission expires: Feb. 12, 1991, 19	
Notary Pupilo angara & Clement	

FORM TO BE MADE OUT IN QUADRUPLICATE: WHITE FORM must be an original copy on both sides and signed. WHITE AND GREEN copies must be filed with the State Engineer. PINK COPY is for the Owner and YELLOW COPY is for the Driller.

	$1 \sim \infty$
	# OF WATER RESOURCES rman St., Denver, Colorado 80203
Application must be complete where applicable. Type or print in <u>BLACK</u> <u>INK.</u> No overstrikes or erasures unless initialed. A PERMIT TO () A PERMIT TO ()	LICATION FORM USE GROUND WATER CONSTRUCT A WELL INSTALL A PUMP IT FOR NO. 151399 RECORDS CASE NO. 77L 20.00
(1) APPLICANT - mailing address	FOR OFFICE USE ONLY: DO NOT WRITE IN THIS COLUMN
NAME Dale W. Ewing STREET7503 U.§. Hwy. 85 CITY_Ft. Lupton, Colo. 80621 (State) (Zip) TELEPHONE NO. 857-4319 (2) LOCATION OF PROPOSED WELL County_WEld	Receipt No. <u>12789</u> <u>Dist</u> . Basin <u>Dist</u> . <u>CONDITIONS OF APPROVAL</u> This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of the permit does not assure the applicant that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action. <u>ISSUANCE OF THIS PERMIT DOES NOT</u> <u>CONFER A DECREED WATER RIGHT</u>
Number of acres to be irrigated: 10,000 SQ. Ft. Proposed total depth (feet): 40 Aquifer ground water is to be obtained from: Owner's well designation GROUND WATER TO BE USED FOR: () HOUSEHOLD USE ONLY - no irrigation (0) (Y) DOMESTIC (1)	 2) THE USE OF GROUND WATER FROM THIS WELL IS LIMITED TO ORDINARY HOUSEHOLD PURPOSES INSIDE ONE SINGLE FAMILY DWELLING, THE WATERING OF DOMESTIC ANIMALS, AND THE IRRIGATION OF NOT MORE THAN 10,000 SQUARE FEET OF HOME GARDENS AND LAWNS. 3) THE DEPTH OF THIS WELL SHALL NOT EXCEED 40 FEET.
() OTHER (9) DETAIL THE USE ON BACK IN (11)	
(4) <u>DRILLER</u> Name <u>Licensed</u> Street	DATE ISSUED <u>OCT 0 3 1998</u> EXPIRATION DATE <u>OCT 0 3 1990</u> in A. Maniulan (STATE ENGINEER) BY <u>bhull</u> . <u>Dilisely</u> I.D. <u>1702</u> COUNTY <u>62</u>

(5) THE LOCATION OI which the water will be	used must be indicated of	n the diagram below.	(6) THE WELL MUST BE LOCATED BELOW by distances from section lines.
	ION (1 section, 640 acres)	for the well location. \rightarrow	ft. fromsec. line
	- 1 MILE, 5280 FEET	· · · · · · · · · · · · · · · · · · ·	1200 ft. from Hast or west) sec. line
+ + +	+ + +	+ + +	LOTBLOCKFILING #
			SUBDIVISION
+ - + - +	1 1 1 1 1 1 1		
			(7) TRACT ON WHICH WELL WILL BE LOCATED Owner: Ewing
	+ - + - + -		No. of acres 156
ON		T SEC	the only well on this tract?NO
+- +- +- 01 38	++		(8) PROPOSED CASING PROGRAM
		Ň	Plain Casing
+ ∎ +- ≚	·+ +	- M + +	<u>6 5/8 in from 0 ft. to 20 ft.</u>
			in. from ft. to ft.
+ + +	SOUTH SECTION LINE	┩ ╴╍╸┼╴╌╸┼╽	Perforated casing
			<u>4 1/2</u> in. from <u>20</u> ft. to <u>40</u> ft.
	+ + +	+ + +	in. from ft. to ft.
			(9) FOR REPLACEMENT WELLS give distance and direction from old well and plans for plugging
+ - + - + -	+ - + - +	+ + +-	it:
	the diagram is 2 inches = 1		<u> Offset - old well will be plugged</u>
	Il square represents 40 acre ER EQUIVALENTS TABLE (I	· · · · · · · · · · · · · · · · · · ·	and abandoned per rules and regs.
An acre-foot covers 1 ac		•	
A family of 5 will require	re approximately 1 acre-foot of	te (gpm) fwater per vear.	
1 acre-foot 43,560 d	cubic feet 325,900 gallons. tinuously for one day produces		
(10) LAND ON WHICH			
Owner(s):			No. of acres:
Legal description:	·		
			Id use and domestic wells must indicate type of disposal
			watering of domestic animals and live-
			lens and lawns and fire protection.
		-	
(12) OTHER WATER R	IGHTS used on this land	d, including wells. Giv	e Registration and Water Court Case Numbers.
Type or right	Used for	(purpose)	Description of land on which used
<u>3 wells</u>	<u> </u>	. 2 irrigation	
<u></u>			
	S) STATE(S) THAT ST OF HIS KNOWLE		ON SET FORTH HEREON IS
1 Dale 1	D. Elina		
SIGNATURE OF APPLICANTIS	" d		
	1		

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EXEMPT WELL DATA SHEET - DENVER BASIN, COLORADO

APPLICANT: DALE EWING RECEIPT NO. 292789 LOCATION: NE1/4 OF SE1/4 OF SEC. 30, T.2N., R.66W. (2600 SSL, 1200 ESL)

PROPOSED AQUIFER:

SURFACE ELEVATION: 4880 NUMBER OF ACRES IN TRACT: 156

IS PROPERTY WITHIN SERVICE BOUNDARIES OF MUNICIPALITY S.B.5 CONSENT MAPS? NO ____YES____ IF SUBDIVISION IS UNDER AUGMENTATION PLAN, CASE NO. IS _____, DIV. IF SUBDIVISION WAS RECOMMENDED FOR APPROVAL BY THE WATER MANAGEMENT BRANCH, DATE OF LETTER IS INFORMATION ON SUBDIVISION OR TRACT OF LAND/SPECIAL RESTRICTIONS:

evaluated by JWB on SEPTEMBER 30, 1988 _____

	ELEVA	TION		DEPTH	T0	ANNUAL	
			NET			APPROP	STATUS
AQUIFER	80T.	TÚP	SAND	BOT.	TOP	A-F	
UPPER DAWSON			~				
LOWER DAWSON				~			
DENVER	·						
UPPER ARAPAHOE		**			→ <i>→</i>	19 - C	
LOWER ARAPAHOE						· · · · · · · · · · · · · · · · · · ·	
LARAMIE-FOX HILLS	4207	4449	142	673	431	33.228	NT

note: E indicates location is at aquifer boundary and values may be more approximate. * indicates the proposed aquifer.

All values are interpolated from the S.B.5 data base assembled in November of 1986.

Best Copy Available

EXEMPT WELL DATA SHEET - DENVER BASIN, COLORADO

APPLICANT: DALE EWING RECEIPT NO. 292789 LOCATION: NE1/4 OF SE1/4 OF SEC. 30, T.2N., R.66W. (2600 SSL, 1200 ESL)

PROPOSED AQUIFER:

SURFACE ELEVATION: 4880 NUMBER OF ACRES IN TRACT: 156

IS PROPERTY WITHIN SERVICE BOUNDARIES OF HUNICIPALITY S.B.5 CONSENT MAPS? NO YES_____ IF SUBDIVISION IS UNDER AUGMENTATION PLAN, CASE NO. IS ______, DIV. IF SUBDIVISION WAS RECOMMENDED FOR APPROVAL BY THE WATER MANAGEMENT BRANCH, DATE OF LETTER IS ______. INFORMATION ON SUBDIVISION OR TRACT OF LAND/SPECIAL RESTRICTIONS:

evaluated by JWB on SEPTEMBER 30, 1988

	ELEVA	TION	NET	DEPTH	t T0	ANNUAL Approp	STATUS
AQUIFER	BOT.	TOP	SAND	BOT.	TOP	A-F	
UPPER DAWSON							
LOWER DAWSON							
DENVER	المرجعة و						
UPPER ARAPAHOE			4 473 7A	1 1107		uce	
LOWER ARAPAHOE						70 <u>3</u>	
LARAMIE-FOX HILLS	4207	(4449)	142	673	(431)	33.228	NT

note: E indicates location is at aquifer boundary and values may be more approximate. * indicates the proposed aquifer.

All values are interpolated from the S.B.5 data base assembled in November of 1986.

co	COLORADO Division of Water Resources Department of Material Resources		ELL PERMIT NUMBER	R 15139 02927		
ORIGINAL PE	RMIT APPLICANT(S)	APPROVED WELL LO	CATION			
DALE EWING		Water Division: 1 Water District: 2 Designated Basin: N/A Management District: N/A County: WELD Parcel Name: N/A Physical Address: 7501 U.S. 85 FORT LUPTON, CO 8062				
		NE 1/4 SE 1/4 Sectio	n 30 Township 2.0 N	Range 66	.0 W Sixth P.M.	
		UTM COORDINATES				
		Easting: 515774.2	Northing: 44	139874.7		
	al well permit file for permit conditions Permit Search Tool at www.water.sta		Date is	sued:	10/3/1988 10/3/1990	
PERMIT HISTO	DRY					
01-28-2019	CHANGE IN OWNER NAME/MAIL (HAHNE, CLIFFORD)	ING ADDRESS. CHAI	NGED TO TRICYCL	E LANE TE	EXASS LLC	
01-08-2019	CHANGE IN OWNER NAME/MAIL CLIFFORD)	ING ADDRESS. CHAI	NGED TO BURNCO	COLORAI	DO LLC (HAHNE	

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[
FORM NO. GWS-31 04/2005	STATE OF C 1313 Sherman	WELL CONS OLORADO, OFI St., Room 818, Do 303) 866-3587 Ma	FICE OF THE enver, CO 8020		REPORT GINEER			For Office Us	
	Fax (303) 866-	3589		w.water.state	e.co.us				
1. WELL PI 2. WELL OW	ERMIT NUMBER:	053510-MH ION						MAY 97	2015
NAME OF	WELL OWNER: L	L.G. Everist, Inc.							UNCES
	ADDRESS: 7321 E			adaraaa CO				VATER HES	GINEER
CITY: Hen		STAT		ideison, CO				5 (UL	
	NE NUMBER: (30		2.00		ZIP CODE	00504			
	CATION AS DRILL		SE1/4 5						
DISTANCE	ES FROM SEC. LI	NES	ft from [∃Nor∏ €	rwp. <u>2</u>	N OF L	IS, Kange <u>b</u>		or 🛛 W
SUBDIVIS	iion:								W section line
Optional (GPS Location: GF leters, Datum mus	PS Unit must use	the following	settings: Ec	rmat must i			s Well Design	nation:
STREET A	DDRESS AT WEL	LL LOCATION:					Northin	g: 4439852	
GROUND	SURFACE ELEVA	TION 4893	feet		DRILLING	METHOD H			
	MPLETED 4/6/15			1 60.0'	feet		MPLETED 5		et
GEOLOGI	C LOG:					DIAM (in.)			To (ft)
Depth	Туре	Grain Size	Color	Water Loc		X/	0		
0-6.5'	Topsoil	Sandy Clay	Brown				· · · · · · · · · · · · · · · · · · ·	<u></u>	
5-55'	Alluvuim	Sand Grav	Pink Brown	x	1				
.0-60'	Bedrock	Clay	Gray	<u> </u>	7. PLAIN	CASING		······································	
					OD (in)		Wall Size (i	n) From (fi	T_{0}
					1 • /	PVC			
·····						PVC			
						••			
						*		<u> </u>	
					PERFOR	ATED CASIN	IG: Screen S	Slot Size (in)	0.01
						PVC			
									······
			i		8. FILTER	PACK:	9. PACH	ER PLACEN	ENT:
1					Material	Sand	_ Туре		
			łi		Size	10/20	_		
					Interval	58-10'	 Depth		
				· · · · · · · · · · · · · · · · · · ·	Interval 10. GROU	58-10 TING RECO			
amarks: Boo	topite Seal 10' 7.0			·····	Interval	58-10 TING RECO	RD	Interval	Placement
	tonite Seal 10'-7.0'	,			Interval 10. GROU	58-10 TING RECO	RD	Interval	Placement
utting 4.5'-1'					Interval 10. GROU	58-10 TING RECO	RD	Interval	Placement
utting 4.5'-1' tick Up Casii	ng w/ concret surfa				Interval 10. GROU Material	58-10 [•] TING RECO Amount	RD	Interval	Placement
utting 4.5'-1' tick Up Casii . DISINFEC	ng w/ concret surfa TION: Type	ace completion	ta is submittee	d on Form N	Interval 10. GROU Material	58-10' TING RECOI Amount	RD Density		Placement
utting 4.5'-1' tick Up Casin DISINFEC WELL TES	ng w/ concret surfa TION: Type ST DATA: Chec	ace completion	ta is submittee	d on Form N	Interval 10. GROU Material	58-10' TING RECOI Amount	RD Density		Placement
utting 4.5'-1' tick Up Casin DISINFEC WELL TES ESTING ME	ng w/ concret surfa TION: Type ST DATA: [] Chec THOD <u>NA</u>	ace completion ck box if Test Da			Interval 10. GROU Material Amt. Us umber GWS	58-10' TING RECO Amount 	RD Density 	est.	Placement
utting 4.5'-1' tick Up Casin DISINFEC WELL TES ESTING ME tatic Level <u>1</u> {	ng w/ concret surfa TION: Type <u>ST DATA:</u> Chec THOD <u>NA</u> 8.5 ft. Da	ace completion ck box if Test Da ate/Time measu	red: <u>4/1/2015</u>		Interval 10. GROU Material Amt. Us umber GWS	58-10 [•] TING RECO Amount ed S 39 Supplem	RD Density 	est.	Placement
tick Up Casin DISINFEC WELL TES ESTING ME tatic Level <u>18</u> umping Leve	ng w/ concret surfa TION: Type ST DATA: [] Chec THOD <u>NA</u>	ace completion ck box if Test Da ate/Time measu	red: <u>4/1/2015</u>		Interval 10. GROU Material Amt. Us umber GWS	58-10 [•] TING RECO Amount ed S 39 Supplem	RD Density 	est.	Placement
tick Up Casin DISINFEC WELL TES ESTING ME tatic Level <u>18</u> umping Leve emarks: I have read th	ng w/ concret surfa TION: Type ST DATA; C Chec THOD <u>NA</u> 8.5 ft. Da be statements made	ace completion ck box if Test Da ate/Time measur ate/Time measur herein and know t	red: <u>4/1/2015</u> red	rent and they	Interval 10. GROU Material Amt. Us umber GWS	58-10 [•] TING RECO Amount ed 3 39 Supplem Production R Test Length (RD Density mental Well Te ate hrs)	est. gpm.	
utting 4.5'-1' tick Up Casin DISINFEC WELL TES ESTING ME tatic Level <u>18</u> umping Leve emarks: I have read th ordance with	ng w/ concret surfa TION: Type ST DATA: Chec THOD <u>NA</u> 8.5 ft. Di bl ft. Di he statements made Rule 17 4 of the Wate	ace completion ck box if Test Da ate/Time measur ate/Time measur herein and know to er Well Construction	red: <u>4/1/2015</u> red he contents ther	reof, and they	Interval 10. GROU Material Amt. Us umber GWS are true to m filing of a dog	58-10 [•] TING RECO Amount ed S 39 Supplem Production R Test Length (y knowledge.	RD Density mental Well Te ate thrs) This document	est. gpm.	
tick Up Casin tick Up Casin DISINFEC WELL TES ESTING ME tatic Level <u>18</u> umping Leve emarks: I have read the cordance with	ng w/ concret surfa TION: Type ST DATA; Chec THOD <u>NA</u> 8.5 ft. Di he statements made Rule 17 4 of the Wate 8(1)(e), C.R.S., and it	ace completion ck box if Test Da ate/Time measur ate/Time measur herein and know to er Well Construction	red: <u>4/1/2015</u> red he contents ther	reof, and they	Interval 10. GROU Material Amt. Us umber GWS are true to m filing of a dog	58-10' TING RECOF Amount Amount Ged S 39 Supplem Production R Test Length (by knowledge, current that con ontracting licens	RD Density mental Well Te ate [hrs) This document ntains false sta	est. gpm.	certified in olation of

		RECEIVED				
GWS-51 3/2013	NOTICE OF INTENT TO CONSTRUC Please type or print legibly in black or blue ink or file of COLORADO DIVISION OF WATER RESOURCES-13' PHONE: 303-866-3581FAX: 303-866-	IS SHERMAN ST-STE 821-DENVER-CO-80203				
Well Owner N	ame(s): L.G. Everist, Inc.	Location: NE ½ SE ½, Section 30				
Address : 73	21 E. 88th Avenue, Suite 200, Henderson, CO	Township 2 IN S. Range 66 TE W. 6 PM				
Phone (area o	ode & no.): 303-286-2248	County Weld				
Landowner's	Name: DW Ewing Farms	Subdivision:				
Please check	one and complete as indicated including contact info: Driller Licensed in Colorado – Lic. No.	Lot: Block: Filing Unit: Site/Property Address				
Professiona	al Engineer Registered in Colorado - Reg. No.	GPS Location in UTM format (optional):				

Easting_

water levels

Professional Geologist per CRS 34-1-201(3)

Other -anyone directly employed by or under the supervision of a licensed driller, registered professional engineer or professional geologist

Fax 303-651-1469

Contact / Company Deere & Ault Consultants, Inc.

Address 600 South Airport Rd., BLDG A, STE 205

City, State & Zip Longmont, Colorado 80503

Phone 303-651-1468

Print Name: Theodore Deere

Vlooden TRUZ Sign or enter full name here:

Date Notice Submitted (mm/dd/yyyy): 03/26/2015					
(Must be at least 3 days prior to construction					

Anticipated Date of Construction (mm/dd/yyyy) 04/01/2015

Set GPS unit to true north, datum NAD83, and use meters for

Estimated Depth 40 Ft., Aquifer Unconfined

Purpose of Monitoring Hole(s) Measure shallow

Northing

the distance units, C Zone 12 or F Zone 13.

of Monitoring Hole(s) to be constructed: 1

Div.		MH PROCESSED BY M M W				
	V WD BAS MD	DATE ACKNOWLEDGED 03 26 2015				
		NITORING HOLE ACKNOWLEDGEMENT				
	A COPY OF THE WRITTEN NOTICE OR ACKN	OWLEDGEMENT SHALL BE AVAILABLE AT THE DRILLING SITE.				
1) M	Notice was provided to the State Engineer at least 3 da	ays prior to construction of monitoring & observation hole(s).				
2) (Construction of the hole(s) must be completed within	90 days of the date notice was given to the State Engineer. Testing and/or				
P	pumping shall not exceed a total of 200 hours unless prior	written approval is obtained from the State Engineer. Water diverted during testing				
		e hole(s) is responsible for obtaining permit(s) and complying with all rules and				
r	regulations pertaining to the discharge of fluids produced d	luring testing.				
1 - P		n Rules, 2 CCR 402-2. Minimum construction standards must be met or a variance				
		ns, including online filing instructions, are found on the DWR website at				
		it Reports (GWS-31) must be completed for each hole drilled. The licensed				
	· · · · · · · · · · · · · · · · · · ·	ted forms to this office within 60 days of monitoring hole completion.				
		I, the hole(s) must be plugged and sealed within one (1) year after				
		must be submitted within 60 days of plugging & sealing. The above MH				
	acknowledgement number, owners structure name, and o construction and abandonment reports.	wner's name and address must be provided on all well permit application(s), well				
5) 7	The owner of the hole(s) shall maintain records of wat	er quality testing and submit this data to the State Engineer upon request.				
5) A	A MONITORING HOLE CANNOT BE CONVERTED TO A PRODUCTION WATER WELL, except for purposes of remediation (recovery)					
c	or as a permanent dewatering system, if constructed in	n accordance with the Water Well Construction Rules and policies of the State				
E	Engineer.					
C 10		TICE WITHIN 90 DAYS, PLEASE WRITE, "NO HOLES CONSTRUCTED" ON A				
Ç	COPY OF THE ACKNOWLEDGED NOTICE WITH THE FILE	NUMBER AND FAX THE COPY TO THE DIVISION OF WATER RESOURCES.				
	THIS ACKNOWLEDGEMENT OF NOTICE DO	ES NOT INDICATE THAT WELL PERMIT(S) CAN BE APPROVED.				

-**h**

Best Copy Available

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	- V	VELL CONST	PHOTION	ND TEST	DEDODT		T	For Office Use	Only	
FORM NO. WELL CONSTRUCTION AND TEST REPORT GWS-31 STATE OF COLORADO, OFFICE OF THE STATE ENGINEER										
04/2005 1313 Sherman St., Room 818, Denver, CO. 80203							And the other states and the states			
Phone - Info (303) 866-3587 Main (303) 866-3581							-3	RECEIVED		
	Fax (303) 866-35	1								
1. WELL PI	ERMIT NUMBER: 0	1 1.4	AV 0 2 cot	2						
2. WELL OW	INER INFORMATIO	·	1 ^{M,}	AY 07201	3					
NAME OF	WELL OWNER: L.	WAT	RRESOURC	SES.						
	ADDRESS: 7321 E.	STA	TE ENGINEE COLO	R						
CITY Her	derson	STAT	E: CO		ZIP CODE	: 80604	· ·			
TELEPHC	NE NUMBER: (303)						1			
			05444				-I			
	CATION AS DRILLE									
	ES FROM SEC. LIN									
SUBDIVIS	ION:				, LOT	BLO				
Ontional	CDO Lasatians CDC		41- a . 6 - 11				Owner's	Well Designa	tion:	
	GPS Location: GPS leters, Datum must I	b Unit must use	the following:	settings: Fol	mat must b	e UTM, Units		4		
inust de n	ieters, Datum must	DE NADOJ, UNI	t must de set i	lo true N, L	jzone iz c		Easting:	5158/0		
STREET /	DDRESS AT WELL	LOCATION:					Northing	<u>: 4439337</u>		
4. GROUND	SURFACE ELEVAT	ION 4889	feet		DRILLING	METHOD Ho	llow Stem A	Joers		
		۲		155.0'	feet	DEPTH COM			<u></u>	
5. GEOLOGI		,	0.110 041 11							
	1		0-1	1		DIAM (in.)				
	Туре		Color	1	<u> </u>		0	<u>55</u> .	.0	
0.0-3.5'	Topsoil	Sandy Clay	Gray Brown							
3.5-52.5	Alluvuim	Sand Gravi	Pink Brown	×						
52.5-55.0'	Bedrock	Clay	Gray		7. PLAIN	CASING:				
					OD (in) Kind Wall Size (in) From (ft) To (ft)					
					1	PVC	-		••	
		-!			1					
					2.3/5	PVC	.154	<u>, 51'</u>	46	
								····		
					PERFOR	ATED CASIN	G: Screen S	lot Size (in): (<u>0.01</u>	
					2.375	PVC	.154	46.0'	36.0	
					1					
									<u> </u>	
			-							
					8. FILTER			ER PLACEM		
					Material	Sand	_ Type			
					Size	10/20	-		····-	
					interval	51.0'-10'	Depth		· · · · · · · · · · · · · · · · · · ·	
		4		l	10. GROU	ITING RECOF	RD			
					Material	Amount	Density	Interval	Placement	
Remarks: Be	ntonite Seal 10.0'-6.	0']	. <u></u>				
Cutting 6.0-1	, Hole Caved 55-51	•								
	ing w/ concret surfa									
11. DISINFE					Amt. Us	sed	<u> </u>	··· · · · · · · · · · · · · · · · · ·		
12. WELL TE	ST DATA: Chec	k box if Test Da	ata is submitte	d on Form N			ental Well Te	est.	Ma	
TESTING MI				•					<u> </u>	
	Static Level 19.1 ft. Date/Time measured: 4/6/2015 Production Rate gpm.									
Pumping Lev	/el ft. Da	ite/Time measu	ired			Test Length (hrs)			
Remarks:				······						
13. I have read	the statements made									
	Rule 17.4 of the Wate							itements is a vi	olation of	
Section 37-91-1 Company Na	08(1)(e), C.R.S., and is	s punisnable by fi	nes up to \$5000	ang/of revoci	ation of the c Phon			License Num	har	
Deere & Ault						e. 651-1468		NA		
Mailing Adda	ess: 600 S. Airnort R	d Bida A So	ite 205							

GWS-25 COLORADO DIVIS 818 Centennial Bidg., 1313 Sher	SION OF WATER RE man St., Denver, Colorado 80203	SOURCES					
(303) 866-3581		· · · · · · · · · · · · · · · · · · ·	EXST				
		R 297890	<u> </u>				
APPLICANT	DIV. 1 WD 2	DES. BASIN	MD				
		APPROVED WELL L	OCATION				
		WELD COUNTY SE 1/4 SE 1	1/4 Section 30				
L G EVERIST INC		Township 2 N Rang	ge 66 W Sixth P.M.				
C/O DEERE & AULT CONSULT 600 S AIRPORT RD BLDG A # 2		DISTANCES FROM					
LONGMONT, CO 80503-	-05	834 Ft. from South 892 Ft. from East	Section Line Section Line				
(303) 651-1468			S (Meters,Zone:13,NAD83)				
PERMIT TO USE AN EXISTING WELL		Easting: 515870	Northing: 4439337				
ISSUANCE C	OF THIS PERMIT DOES NOT CONDITIONS OF APPE		RIGHT				
 This well shall be used in such a way a does not ensure that no injury will occu from seeking relief in a civil court actio 	ur to another vested water right o		•				
2) The construction of this well shall be in	compliance with the Water We						
approval of a variance has been grante Installation Contractors in accordance		ers of Water Well Constr	ruction and Pump				
 Approved pursuant to CRS 37-92-6020 to monitoring water levels and/or water 		CRS 37-92-602(1)(f). Us	se of this well is limited				
 Approved for the use of an existing we known as LGEBH04. 	II acknowledged for construction	under monitoring hole no	otice MH-053509, and				
 This well must be equipped with a lock well. The well must be kept capped ar 							
 Records of water level measurements to the Division of Water Resources upper 		be maintained by the we	II owner and submitted				
	Upon conclusion of the monitoring program the well owner shall plug this well in accordance with Rule 16 of the Water Well Construction Rules. A Well Abandonment Report must be completed and submitted to the Division of Water						
8) The owner shall mark the well in a con							
9) This well must have been constructed	This well must have been constructed by or under the supervision of a licensed well driller or other authorized individual according to the Water Well Construction Rules.						
10) This well must be located not more that) This well must be located not more than 200 feet from the location specified on this permit.						
NOTE: Issuance of this permit does not guarantee that this well can be converted to a production well under a future permit. Additionally, pursuant to Rule 14.2 of the Water Well Construction Rules (2 CCR 402-2), monitoring holes constructed pursuant to a monitoring hole notice shall not be converted to a production well. (Upon obtaining a permit from the State Engineer, a monitoring hole may be converted to a monitoring well, recovery well for remediation of the aquifer, or a dewatering system for dewatering the aquifer.)							
NOTICE: This permit has been approve calculated from UTM coordinate values right to appeal the issuance of this per	NOTICE: This permit has been approved subject to the following changes: The distances from section lines were calculated from UTM coordinate values provided with the permit application. You are hereby notified that you have the right to appeal the issuance of this permit, by filing a written request with this office within sixty (60) days of the date of issuance, pursuant to the State Administrative Procedures Act. (See Section 24-4-104 through 106, C.R.S.)						
APPROVED SVJ State Engineer	Diel Welle	AQ	Mauicir				

DATE ISSUED 06-22-2015

EXPIRATION DATE NA

25 x 32b

									<u>a ana 15</u>	f Comme State	
COLORADO DIVISION OF WATER RESOURCES DEPARTMENT OF NATURAL RESOURCES						Office Use Only					
1313 SHERMAN ST., Ste 821, DENVER CO 80203											
Phone: (303) 866-3581 Fax: (303) 866-2223 <u>dwrpermitsonline@state.co.us</u>						MAY 1 3 2015					
MONITORING/OBSERVATION Water Well Permit Application						WATER RESOURCES STATE ENGINEER					
								STATE	ENGIÑ COLO	VEER	
Review instructions on reverse side prior to completing form. The form must be typed, completed online or in black or blue ink. 1. Well Owner Information									0		
Name of well own	her					6. Use Of Well					
L.G. Everis	t, Inc.					Use of this well is limited to monitoring water levels					
Mailing address						and/or water quality sampling					
₱/321 E. 88	th Avenue	, Suite	200, He	ndersor	n, CO	7. Well Data (proposed)					
City			State	Zip code		Total depth	feet	Aquifer			
Henderson			со	80604							
Telephone #			E-Mail (If	filing online	it is required)	8. Consultant In	formation (i	f applicable)			
303-286-22						Name of contact person					
2. Type Of	f Applicat	ion (cł	neck app	icable b	ooxes)	Theodore W. Dee	re, ∟ngineei	ring Geologis	st	· · ·	
📕 Use existi			eplacemen	t for exist	ing monitoring well:	Company name Deere & Ault Cont	sultante Inc				
Construct	new well	P	ermit no.:			Mailing address		•			
3. Refer To	o (if opplie	oblo)			····· · · · · · · · · · · · · · · · ·	600 South Airport Rd., BLDG A, STE 205					
Monitoring hole a	· · ·	able	Well nam	e or #		City		State			
мн- 05350	9		LGEB	H04		Longmont		со	O 80503		
4. Locatio	n Of Prop	osed	Well (Im	oortant	See Instructions)	Telephone #					
County						303-651-1468					
Weld			SE	1/4 of		9. Proposed Well Driller License #(optional): 10. Name of Well Owner or Authorized Agent					
Section	Township	N or S	Range	E or W	Principal Meridian	The making of false s			-	the second	
30 2 🗷 66 🖓 6						degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S.					
Distance of well fi	rom section lines	(section lin	nes are typically	/ not property		24-4-104 (13)(a). I have read the statements herein, know the contents thereof and state that they are true to my knowledge.					
	Ft. from	<u> </u>	S		Ft. from 🔲 E 🗍 W	Sign or enter full name here Date (mm/dd/yyyy)					
For replacement	wells only – dista	nce and dir	rection from old	I well to new	well	Khod Ver S/11/15					
		feet			direction	If signing print name. Print title if other than land owner.					
Well location add	ress (Include City	, State, Zip) 🗋 Check	if well addre	ss is same as Item 1.	Theodore W. Deere, Ensineering Serbsian					
Ontional: CBS	S well leastion	informativ	on in LITM fo	mat		_ Office Use Only					
Optional: GPS well location information in UTM format You must check GPS unit for required settings as follows:						USGS map name		DWR map no.	Surf	ace elev.	
Format must be UTM											
Zone 12 or			Eastin	ng <u>5158</u>	70	Galia	Receipt area	only			
Units must be Me Datum must be I			North	ing_4439	337	834'9 892'E					
	Unit must be set to true north					892E					
Was GPS unit checked for above?					1						
5. Propert	y Owner I	nform	ation			1					
Name of property owner					1						
DW Ewing Farms					т	ansaction #:	366962	7 B			
Mailing address					D	ale: 5/13/20	015 10:19:5	9 AM			
7501 U.S. HW. 85						ansaction Tota HECK#10997					
City		State		Zip Code	1						
Fort Lupton			co		80621		ì				
Telephone #					1		2				
								WD_ 0 _ BA_	MC)	
						1					



COLORADO

Division of Water Resources

Department of Natural Resources

WELL PERMIT NUMBER 329516-

RECEIPT NUMBER

10025439

ORIGINAL PERMIT APPLICANT(S)

APPROVED WELL LOCATION

Water Division: 1	Water District: 2
Designated Basin:	N/A
Management District:	N/A
County:	WELD
Parcel Name:	N/A
Physical Address:	7501 HWY 85 FORT LUPTON, CO 80621
Section 30 Township 2	2.0 N Range 66.0 W Sixth P.M.

AUTHORIZED AGENT

TRICYCLE LANE TEXAS LLC

LEWICKI & ASSOCIATES (LANGENFELD, BEN)

Well to be constructed on specified tract of land

PERMIT TO CONSTRUCT A NEW WELL

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT CONDITIONS OF APPROVAL

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of this permit does not ensure that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- 2) The construction of this well shall be in compliance with the Water Well Construction Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 18.
- 3) Approved pursuant to CRS 37-92-602(3)(b)(I) for uses as described in CRS 37-92-602(1)(f). Use of this well is limited to monitoring water levels and/or water quality sampling.
- This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The 4) well must be kept capped and locked at all times except during sampling or measuring.
- Records of water level measurements and water quality analyses shall be maintained by the well owner and submitted to the 5) Division of Water Resources upon request.
- Upon conclusion of the monitoring program the well owner shall plug this well in accordance with Rule 16 of the Water Well 6) Construction Rules. A Well Abandonment Report must be completed and submitted to the Division of Water Resources within 60 days of plugging.
- The owner shall mark the well in a conspicuous location with the well permit number and name of aguifer as appropriate, and 7) shall take necessary means and precautions to preserve these markings.
- 8) This well must be constructed by or under the supervision of a licensed well driller or other authorized individual according to the Water Well Construction Rules. If non-standard construction is anticipated, a variance request must be submitted in accordance with Rule 18 and approved prior to well construction.
- A Well Construction and Yield Estimate Report (Form GWS-31), including lithologic log must be submitted by the individual 9) authorized to construct the well. For non-standard construction, the report must include an as-built drawing showing details such as depth, casing, perforated zones, and a description of the grouting type and interval.
- 10) Pursuant to Rule 6.2.3 of the Water Well Construction Rules, the well construction contractor shall submit the as-built well location on work reports required by Rule 17.1 within 60 days of completion of the well. The measured location must be accurate to 200 feet of the actual location. The location information must include a GPS location (UTM coordinates) pursuant to the Division of Water Resources' guidelines.

NOTE: Issuance of this permit does not guarantee that this well can be converted to a production well under a future permit.

NOTE: This permit will expire on the expiration date unless the well is constructed by that date. A Well Construction and Yield Estimate Report (GWS-31) must be submitted to the Division of Water Resources to verify the well has been constructed. An extension of the expiration date may be available. Contact the DWR for additional information or refer to the extension request form (GWS-64) available at: dwr.colorado.gov

RECEIPT NUMBER 10025439

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Issued By ANITIA ARCHULETA

 Date Issued:
 1/11/2023

 Expiration Date:
 1/11/2025



COLORADO

Division of Water Resources Department of Natural Resources

WELL PERMIT NUMBER 329532-

RECEIPT NUMBER

10025440

ORIGINAL PERMIT APPLICANT(S)

APPROVED WELL LOCATION

Water Division: 1 **Designated Basin:** Management District: County: Parcel Name: Physical Address:

Water District: 2 N/A N/A WELD N/A 7501 HWY 85 ARISTOCRAT RANCHETTES. CO 80621

AUTHORIZED AGENT

TRICYCLE LANE TEXAS LLC

LEWICKI & ASSOCIATES (LANGENFELD, BEN)

Section 30 Township 2.0 N Range 66.0 W Sixth P.M.

Well to be constructed on specified tract of land

PERMIT TO CONSTRUCT A NEW WELL

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT CONDITIONS OF APPROVAL

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of this permit does not ensure that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- 2) The construction of this well shall be in compliance with the Water Well Construction Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 18.
- 3) Approved pursuant to CRS 37-92-602(3)(b)(I) for uses as described in CRS 37-92-602(1)(f). Use of this well is limited to monitoring water levels and/or water quality sampling.
- This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The 4) well must be kept capped and locked at all times except during sampling or measuring.
- Records of water level measurements and water quality analyses shall be maintained by the well owner and submitted to the 5) Division of Water Resources upon request.
- Upon conclusion of the monitoring program the well owner shall plug this well in accordance with Rule 16 of the Water Well 6) Construction Rules. A Well Abandonment Report must be completed and submitted to the Division of Water Resources within 60 days of plugging.
- The owner shall mark the well in a conspicuous location with the well permit number and name of aguifer as appropriate, and 7) shall take necessary means and precautions to preserve these markings.
- 8) This well must be constructed by or under the supervision of a licensed well driller or other authorized individual according to the Water Well Construction Rules. If non-standard construction is anticipated, a variance request must be submitted in accordance with Rule 18 and approved prior to well construction.
- A Well Construction and Yield Estimate Report (Form GWS-31), including lithologic log must be submitted by the individual 9) authorized to construct the well. For non-standard construction, the report must include an as-built drawing showing details such as depth, casing, perforated zones, and a description of the grouting type and interval.
- 10) Pursuant to Rule 6.2.3 of the Water Well Construction Rules, the well construction contractor shall submit the as-built well location on work reports required by Rule 17.1 within 60 days of completion of the well. The measured location must be accurate to 200 feet of the actual location. The location information must include a GPS location (UTM coordinates) pursuant to the Division of Water Resources' guidelines.

NOTE: Issuance of this permit does not guarantee that this well can be converted to a production well under a future permit.

NOTE: This permit will expire on the expiration date unless the well is constructed by that date. A Well Construction and Yield Estimate Report (GWS-31) must be submitted to the Division of Water Resources to verify the well has been constructed. An extension of the expiration date may be available. Contact the DWR for additional information or refer to the extension request form (GWS-64) available at: dwr.colorado.gov

RECEIPT NUMBER 10025440

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Issued By ANITIA ARCHULETA

 Date Issued:
 1/12/2023

 Expiration Date:
 1/12/2025



COLORADO

Division of Water Resources Department of Natural Resources

WELL PERMIT NUMBER 329517-

RECEIPT NUMBER

10025441

ORIGINAL PERMIT APPLICANT(S)

APPROVED WELL LOCATION

Water Division: 1 Water District: 2 **Designated Basin:** N/A Management District: N/A County: WELD Parcel Name: N/A Physical Address:

7501 HWY 85 ARISTOCRAT RANCHETTES. CO 80621

AUTHORIZED AGENT

TRICYCLE LANE TEXAS LLC

LEWICKI & ASSOCIATES (LANGENFELD, BEN)

Section 30 Township 2.0 N Range 66.0 W Sixth P.M.

Well to be constructed on specified tract of land

PERMIT TO CONSTRUCT A NEW WELL

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT CONDITIONS OF APPROVAL

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of this permit does not ensure that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
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- 3) Approved pursuant to CRS 37-92-602(3)(b)(I) for uses as described in CRS 37-92-602(1)(f). Use of this well is limited to monitoring water levels and/or water quality sampling.
- This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The 4) well must be kept capped and locked at all times except during sampling or measuring.
- Records of water level measurements and water quality analyses shall be maintained by the well owner and submitted to the 5) Division of Water Resources upon request.
- Upon conclusion of the monitoring program the well owner shall plug this well in accordance with Rule 16 of the Water Well 6) Construction Rules. A Well Abandonment Report must be completed and submitted to the Division of Water Resources within 60 days of plugging.
- The owner shall mark the well in a conspicuous location with the well permit number and name of aguifer as appropriate, and 7) shall take necessary means and precautions to preserve these markings.
- 8) This well must be constructed by or under the supervision of a licensed well driller or other authorized individual according to the Water Well Construction Rules. If non-standard construction is anticipated, a variance request must be submitted in accordance with Rule 18 and approved prior to well construction.
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- 10) Pursuant to Rule 6.2.3 of the Water Well Construction Rules, the well construction contractor shall submit the as-built well location on work reports required by Rule 17.1 within 60 days of completion of the well. The measured location must be accurate to 200 feet of the actual location. The location information must include a GPS location (UTM coordinates) pursuant to the Division of Water Resources' guidelines.

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RECEIPT NUMBER 10025441

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Issued By ANITIA ARCHULETA

 Date Issued:
 1/11/2023

 Expiration Date:
 1/11/2025



COLORADO

Division of Water Resources Department of Natural Resources

WELL PERMIT NUMBER 329518-

RECEIPT NUMBER

10025442

ORIGINAL PERMIT APPLICANT(S) TRICYCLE LANE TEXAS LLC

APPROVED WELL LOCATION

Water District: 2
N/A
N/A
WELD
N/A.
7501 HWY 85 ARISTOCRAT RANCHETTES, CO 80621

AUTHORIZED AGENT

LEWICKI & ASSOCIATES (LANGENFELD, BEN)

Section 30 Township 2.0 N Range 66.0 W Sixth P.M.

Well to be constructed on specified tract of land

PERMIT TO CONSTRUCT A NEW WELL

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT CONDITIONS OF APPROVAL

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- 3) Approved pursuant to CRS 37-92-602(3)(b)(I) for uses as described in CRS 37-92-602(1)(f). Use of this well is limited to monitoring water levels and/or water quality sampling.
- This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The 4) well must be kept capped and locked at all times except during sampling or measuring.
- Records of water level measurements and water quality analyses shall be maintained by the well owner and submitted to the 5) Division of Water Resources upon request.
- Upon conclusion of the monitoring program the well owner shall plug this well in accordance with Rule 16 of the Water Well 6) Construction Rules. A Well Abandonment Report must be completed and submitted to the Division of Water Resources within 60 days of plugging.
- The owner shall mark the well in a conspicuous location with the well permit number and name of aguifer as appropriate, and 7) shall take necessary means and precautions to preserve these markings.
- 8) This well must be constructed by or under the supervision of a licensed well driller or other authorized individual according to the Water Well Construction Rules. If non-standard construction is anticipated, a variance request must be submitted in accordance with Rule 18 and approved prior to well construction.
- A Well Construction and Yield Estimate Report (Form GWS-31), including lithologic log must be submitted by the individual 9) authorized to construct the well. For non-standard construction, the report must include an as-built drawing showing details such as depth, casing, perforated zones, and a description of the grouting type and interval.
- 10) Pursuant to Rule 6.2.3 of the Water Well Construction Rules, the well construction contractor shall submit the as-built well location on work reports required by Rule 17.1 within 60 days of completion of the well. The measured location must be accurate to 200 feet of the actual location. The location information must include a GPS location (UTM coordinates) pursuant to the Division of Water Resources' guidelines.

NOTE: Issuance of this permit does not guarantee that this well can be converted to a production well under a future permit.

NOTE: This permit will expire on the expiration date unless the well is constructed by that date. A Well Construction and Yield Estimate Report (GWS-31) must be submitted to the Division of Water Resources to verify the well has been constructed. An extension of the expiration date may be available. Contact the DWR for additional information or refer to the extension request form (GWS-64) available at: dwr.colorado.gov

RECEIPT NUMBER 10025442

Luti

Issued By ANITIA ARCHULETA

 Date Issued:
 1/11/2023

 Expiration Date:
 1/11/2025

Appendix 4 – Industry Standard Field Sampling Logbook



Groundwater Quality Sampling Form (EXAMPLE)

Site Name	Permit No
Monitoring Point No	Date/Time
Name of Person Sampling	
Name of Person Filling out Form	
Type of Monitoring Point	
□ Groundwater Monitoring Well □ Piezometer	Other:
Purpose of Monitoring	
□ Baseline □ Point of Compliance (POC) □ POC Ba	ckground 🛛 Corrective Action Monitoring
□ Other:	
Monitoring Point Conditions	
General Description/Condition/Other Comments:	
Was water discolored? If so, describe:	
Does water have odor? If so, describe:	
Time pumped before sample:	
Field Measurements	
Time Sampled:	
Weather Conditions:	
Equipment Used:	
Time Pumped Before Sample:	Pump Rate:
Measurements After Stabilization (Include Units):	
Depth Temperature	pH Dissolved Oxygen
ConductivitySpecific Conductivity	

Appendix 5 – Sample Data Collection Sheet





Task No.: 231212140 Client PO: Client Project: Ewing Gravel Mine

> Customer Sample ID GW-1 Sample Date/Time: 12/12/23

11:00 AM

Analytical Results

TASK NO: 231212140

Bill To: Libby Hyde Company: Trinity Consultants, Inc. 1391 North Speer Blvd Suite 350 Denver CO 80204

Date Received: 12/12/23 Date Reported: 12/19/23 Matrix: Water - Ground

Lab Number:	231212140-01						
Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	136 mg/L	EPA 300.0	1.00	0.007	12/13/23	QC69975	NRP
Cyanide-Total	ND mg/L	EPA 335.4	0.005	0.0005	12/13/23	QC70031	JCB
Cyanide-Weak Acid Dissociable	ND mg/L	ASTM 2036-09C	0.005	0.0005	12/13/23	QC70030	JCB
Fluoride	0.76 mg/L	EPA 300.0	0.10	0.024	12/13/23	QC69979	NRP
MBAS (calculated as LAS, mol wt 340)	ND mg/L	SM 5540-C	0.1	0.052	12/13/23	QC69987	LEH
Nitrate Nitrogen	3.01 mg/L	EPA 300.0	0.05	0.02	12/13/23	QC69976	NRP
Nitrate/ Nitrite Nitrogen	3.01 mg/L	Calculation	0.05	0.02	12/13/23	-	AMJ
Nitrite Nitrogen	ND mg/L	EPA 300.0	0.03	0.01	12/13/23	QC69980	NRP
рН	6.74 units	SM 4500-H-B	0.01	0.01	12/12/23	-	ARH
Phenols - Total	ND ug/L	EPA 420.4	15.0	1.5	12/15/23	QC70077	DPL
Sulfate	163 mg/L	EPA 300.0	1.00	0.012	12/13/23	QC69978	NRP
Dissolved							
Mercury	ND mg/L	EPA 245.7	0.0002	0.00002	12/14/23	QC70056	MBN
Aluminum	ND mg/L	EPA 200.8	0.001	0.00003	12/15/23	QC70079	MBN
Antimony	ND mg/L	EPA 200.8	0.0012	0.00012	12/15/23	QC70079	MBN
Arsenic	0.0020 mg/L	EPA 200.8	0.0006	0.00006	12/15/23	QC70079	MBN
Beryllium	ND mg/L	EPA 200.8	0.0001	0.000008	12/15/23	QC70079	MBN
Cadmium	ND mg/L	EPA 200.8	0.0001	0.000006	12/15/23	QC70079	MBN
Chromium	ND mg/L	EPA 200.8	0.0015	0.00015	12/15/23	QC70079	MBN
Cobalt	0.0002 mg/L	EPA 200.8	0.0002	0.00005	12/15/23	QC70079	MBN
Copper	0.0034 mg/L	EPA 200.8	0.0008	0.00001	12/15/23	QC70079	MBN
Lead	ND mg/L	EPA 200.8	0.0001	0.000006	12/15/23	QC70079	MBN
Manganese	0.0014 mg/L	EPA 200.8	0.0008	0.00001	12/15/23	QC70079	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level

MDL = Method Detection Limit

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 1 of 11



Task No.: 231212140 Client PO: Client Project: Ewing Gravel Mine

> Customer Sample ID GW-1 Sample Date/Time: 12/12/23

11:00 AM

Analytical Results

TASK NO: 231212140

Bill To: Libby Hyde Company: Trinity Consultants, Inc. 1391 North Speer Blvd Suite 350 Denver CO 80204

Date Received: 12/12/23 Date Reported: 12/19/23 Matrix: Water - Ground

Lab Number:	231212140-01						
Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
<u>Dissolved</u>							
Molybdenum	0.0034 mg/L	EPA 200.8	0.0005	0.00005	12/15/23	QC70079	MBN
Nickel	0.0016 mg/L	EPA 200.8	0.0009	0.00005	12/15/23	QC70079	MBN
Selenium	0.0008 mg/L	EPA 200.8	0.0008	0.00008	12/15/23	QC70079	MBN
Silver	ND mg/L	EPA 200.8	0.0005	0.000003	12/15/23	QC70079	MBN
Thallium	ND mg/L	EPA 200.8	0.0002	0.000003	12/15/23	QC70079	MBN
Uranium	0.0074 mg/L	EPA 200.8	0.0002	0.000002	12/15/23	QC70079	MBN
Vanadium	0.001 mg/L	EPA 200.8	0.001	0.0001	12/15/23	QC70079	MBN
Zinc	ND mg/L	EPA 200.8	0.001	0.00003	12/15/23	QC70079	MBN
Boron	0.16 mg/L	EPA 200.7	0.05	0.01	12/14/23	QC70025	MBN
Iron	0.006 mg/L	EPA 200.7	0.005	0.0005	12/14/23	QC70025	MBN
<u>Total</u>							
Mercury	ND mg/L	EPA 245.7	0.0002	0.00002	12/14/23	QC70056	MBN
Aluminum	0.012 mg/L	EPA 200.8	0.001	0.00003	12/15/23	QC70079	MBN
Arsenic	0.0024 mg/L	EPA 200.8	0.0006	0.00006	12/15/23	QC70079	MBN
Barium	0.1252 mg/L	EPA 200.8	0.0007	0.00007	12/15/23	QC70079	MBN
Cadmium	0.0001 mg/L	EPA 200.8	0.0001	0.000006	12/15/23	QC70079	MBN
Copper	0.0042 mg/L	EPA 200.8	0.0008	0.00001	12/15/23	QC70079	MBN
Lead	0.0002 mg/L	EPA 200.8	0.0001	0.000006	12/15/23	QC70079	MBN
Molybdenum	0.0036 mg/L	EPA 200.8	0.0005	0.00005	12/15/23	QC70079	MBN
Zinc	0.002 mg/L	EPA 200.8	0.001	0.00003	12/15/23	QC70079	MBN
Iron	0.155 mg/L	EPA 200.7	0.005	0.0005	12/14/23	QC70025	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level MDL = Method Detection Limit mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.

(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 2 of 11



Task No.: 231212140 Client PO: Client Project: Ewing Gravel Mine

> Customer Sample ID GW-2 Sample Date/Time: 12/12/23

> > Lab Number: 231212140-02

10:15 AM

Analytical Results

TASK NO: 231212140

Bill To: Libby Hyde Company: Trinity Consultants, Inc. 1391 North Speer Blvd Suite 350 Denver CO 80204

Date Received: 12/12/23 Date Reported: 12/19/23 Matrix: Water - Ground

Lab Nullibel.	231212140-02						
Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	161 mg/L	EPA 300.0	1.00	0.007	12/13/23	QC69975	NRP
Cyanide-Total	ND mg/L	EPA 335.4	0.005	0.0005	12/13/23	QC70031	JCB
Cyanide-Weak Acid Dissociable	ND mg/L	ASTM 2036-09C	0.005	0.0005	12/13/23	QC70030	JCB
Fluoride	1.63 mg/L	EPA 300.0	0.10	0.024	12/13/23	QC69979	NRP
MBAS (calculated as LAS, mol wt 340)	ND mg/L	SM 5540-C	0.1	0.052	12/13/23	QC69987	LEH
Nitrate Nitrogen	6.27 mg/L	EPA 300.0	0.05	0.02	12/13/23	QC69976	NRP
Nitrate/ Nitrite Nitrogen	6.27 mg/L	Calculation	0.05	0.02	12/13/23	-	AMJ
Nitrite Nitrogen	ND mg/L	EPA 300.0	0.03	0.01	12/13/23	QC69980	NRP
рН	6.94 units	SM 4500-H-B	0.01	0.01	12/12/23	-	ARH
Phenols - Total	ND ug/L	EPA 420.4	15.0	1.5	12/15/23	QC70077	DPL
Sulfate	257 mg/L	EPA 300.0	1.00	0.012	12/13/23	QC69978	NRP
<u>Dissolved</u>							
Mercury	ND mg/L	EPA 245.7	0.0002	0.00002	12/14/23	QC70056	MBN
Aluminum	0.001 mg/L	EPA 200.8	0.001	0.00003	12/15/23	QC70079	MBN
Antimony	ND mg/L	EPA 200.8	0.0012	0.00012	12/15/23	QC70079	MBN
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	12/15/23	QC70079	MBN
Beryllium	ND mg/L	EPA 200.8	0.0001	0.000008	12/15/23	QC70079	MBN
Cadmium	0.0002 mg/L	EPA 200.8	0.0001	0.000006	12/15/23	QC70079	MBN
Chromium	ND mg/L	EPA 200.8	0.0015	0.00015	12/15/23	QC70079	MBN
Cobalt	0.0009 mg/L	EPA 200.8	0.0002	0.00005	12/15/23	QC70079	MBN
Copper	0.0009 mg/L	EPA 200.8	0.0008	0.00001	12/15/23	QC70079	MBN
Lead	ND mg/L	EPA 200.8	0.0001	0.000006	12/15/23	QC70079	MBN
Manganese	0.9262 mg/L	EPA 200.8	0.0008	0.00001	12/15/23	QC70079	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level

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mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 3 of 11



Task No.: 231212140 Client PO: Client Project: Ewing Gravel Mine

> Customer Sample ID GW-2 Sample Date/Time: 12/12/23

> > Lab Number: 231212140-02

10:15 AM

Analytical Results

TASK NO: 231212140

Bill To: Libby Hyde Company: Trinity Consultants, Inc. 1391 North Speer Blvd Suite 350 Denver CO 80204

Date Received: 12/12/23 Date Reported: 12/19/23 Matrix: Water - Ground

Lub Humber.	201212140-02						
Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
<u>Dissolved</u>							
Molybdenum	0.0050 mg/L	EPA 200.8	0.0005	0.00005	12/15/23	QC70079	MBN
Nickel	0.0030 mg/L	EPA 200.8	0.0009	0.00005	12/15/23	QC70079	MBN
Selenium	0.0085 mg/L	EPA 200.8	0.0008	0.00008	12/15/23	QC70079	MBN
Silver	ND mg/L	EPA 200.8	0.0005	0.000003	12/15/23	QC70079	MBN
Thallium	ND mg/L	EPA 200.8	0.0002	0.000003	12/15/23	QC70079	MBN
Uranium	0.0290 mg/L	EPA 200.8	0.0002	0.000002	12/15/23	QC70079	MBN
Vanadium	ND mg/L	EPA 200.8	0.001	0.0001	12/15/23	QC70079	MBN
Zinc	ND mg/L	EPA 200.8	0.001	0.00003	12/15/23	QC70079	MBN
Boron	0.21 mg/L	EPA 200.7	0.05	0.01	12/14/23	QC70025	MBN
Iron	ND mg/L	EPA 200.7	0.005	0.0005	12/14/23	QC70025	MBN
<u>Total</u>							
Mercury	ND mg/L	EPA 245.7	0.0002	0.00002	12/14/23	QC70056	MBN
Aluminum	0.479 mg/L	EPA 200.8	0.001	0.00003	12/15/23	QC70079	MBN
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	12/15/23	QC70079	MBN
Barium	0.0412 mg/L	EPA 200.8	0.0007	0.00007	12/15/23	QC70079	MBN
Cadmium	0.0002 mg/L	EPA 200.8	0.0001	0.000006	12/15/23	QC70079	MBN
Copper	0.0014 mg/L	EPA 200.8	0.0008	0.00001	12/15/23	QC70079	MBN
Lead	0.0003 mg/L	EPA 200.8	0.0001	0.000006	12/15/23	QC70079	MBN
Molybdenum	0.0051 mg/L	EPA 200.8	0.0005	0.00005	12/15/23	QC70079	MBN
Zinc	0.002 mg/L	EPA 200.8	0.001	0.00003	12/15/23	QC70079	MBN
Iron	0.356 mg/L	EPA 200.7	0.005	0.0005	12/14/23	QC70025	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level MDL = Method Detection Limit mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

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Task No.: 231212140 Client PO: Client Project: Ewing Gravel Mine

> Customer Sample ID GW-3 Sample Date/Time: 12/12/23

10:40 AM

Analytical Results

TASK NO: 231212140

Bill To: Libby Hyde Company: Trinity Consultants, Inc. 1391 North Speer Blvd Suite 350 Denver CO 80204

Date Received: 12/12/23 Date Reported: 12/19/23 Matrix: Water - Ground

Lab Number: 2	231212140-03						
Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
		·					
Chloride	165 mg/L	EPA 300.0	1.00	0.007	12/13/23	QC69975	NRP
Cyanide-Total	ND mg/L	EPA 335.4	0.005	0.0005	12/13/23	QC70031	JCB
Cyanide-Weak Acid Dissociable	ND mg/L	ASTM 2036-09C	0.005	0.0005	12/13/23	QC70030	JCB
Fluoride	1.09 mg/L	EPA 300.0	0.10	0.024	12/13/23	QC69979	NRP
MBAS (calculated as LAS, mol wt 340)	ND mg/L	SM 5540-C	0.1	0.052	12/13/23	QC69987	LEH
Nitrate Nitrogen	9.35 mg/L	EPA 300.0	0.05	0.02	12/13/23	QC69976	NRP
Nitrate/ Nitrite Nitrogen	9.35 mg/L	Calculation	0.05	0.02	12/13/23	-	AMJ
Nitrite Nitrogen	ND mg/L	EPA 300.0	0.03	0.01	12/13/23	QC69980	NRP
рН	6.75 units	SM 4500-H-B	0.01	0.01	12/12/23	-	ARH
Phenols - Total	ND ug/L	EPA 420.4	15.0	1.5	12/15/23	QC70077	DPL
Sulfate	198 mg/L	EPA 300.0	1.00	0.012	12/13/23	QC69978	NRP
<u>Dissolved</u>							
Mercury	ND mg/L	EPA 245.7	0.0002	0.00002	12/14/23	QC70056	MBN
Aluminum	ND mg/L	EPA 200.8	0.001	0.00003	12/15/23	QC70079	MBN
Antimony	ND mg/L	EPA 200.8	0.0012	0.00012	12/15/23	QC70079	MBN
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	12/15/23	QC70079	MBN
Beryllium	ND mg/L	EPA 200.8	0.0001	0.000008	12/15/23	QC70079	MBN
Cadmium	ND mg/L	EPA 200.8	0.0001	0.000006	12/15/23	QC70079	MBN
Chromium	ND mg/L	EPA 200.8	0.0015	0.00015	12/15/23	QC70079	MBN
Cobalt	0.0020 mg/L	EPA 200.8	0.0002	0.00005	12/15/23	QC70079	MBN
Copper	0.0011 mg/L	EPA 200.8	0.0008	0.00001	12/15/23	QC70079	MBN
Lead	ND mg/L	EPA 200.8	0.0001	0.000006	12/15/23	QC70079	MBN
Manganese	0.0015 mg/L	EPA 200.8	0.0008	0.00001	12/15/23	QC70079	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level

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mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations. (s) The accuracy of the spike recovery value is reduced due to the analyte

concentration in the sample being dispropriate in relative due to the unarter concentration in the sample being dispropriate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

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Task No.: 231212140 Client PO: Client Project: Ewing Gravel Mine

> Customer Sample ID GW-3 Sample Date/Time: 12/12/23

> > Lab Number: 231212140-03

10:40 AM

Analytical Results

TASK NO: 231212140

Bill To: Libby Hyde Company: Trinity Consultants, Inc. 1391 North Speer Blvd Suite 350 Denver CO 80204

Date Received: 12/12/23 Date Reported: 12/19/23 Matrix: Water - Ground

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By					
<u>Dissolved</u>												
Molybdenum	0.0030 mg/L	EPA 200.8	0.0005	0.00005	12/15/23	QC70079	MBN					
Nickel	0.0023 mg/L	EPA 200.8	0.0009	0.00005	12/15/23	QC70079	MBN					
Selenium	0.0017 mg/L	EPA 200.8	0.0008	0.00008	12/15/23	QC70079	MBN					
Silver	ND mg/L	EPA 200.8	0.0005	0.000003	12/15/23	QC70079	MBN					
Thallium	ND mg/L	EPA 200.8	0.0002	0.000003	12/15/23	QC70079	MBN					
Uranium	0.0127 mg/L	EPA 200.8	0.0002	0.000002	12/15/23	QC70079	MBN					
Vanadium	ND mg/L	EPA 200.8	0.001	0.0001	12/15/23	QC70079	MBN					
Zinc	ND mg/L	EPA 200.8	0.001	0.00003	12/15/23	QC70079	MBN					
Boron	0.20 mg/L	EPA 200.7	0.05	0.01	12/14/23	QC70025	MBN					
Iron	ND mg/L	EPA 200.7	0.005	0.0005	12/14/23	QC70025	MBN					
<u>Total</u>												
Mercury	ND mg/L	EPA 245.7	0.0002	0.00002	12/14/23	QC70056	MBN					
Aluminum	0.146 mg/L	EPA 200.8	0.001	0.00003	12/15/23	QC70079	MBN					
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	12/15/23	QC70079	MBN					
Barium	0.0636 mg/L	EPA 200.8	0.0007	0.00007	12/15/23	QC70079	MBN					
Cadmium	ND mg/L	EPA 200.8	0.0001	0.000006	12/15/23	QC70079	MBN					
Copper	0.0014 mg/L	EPA 200.8	0.0008	0.00001	12/15/23	QC70079	MBN					
Lead	0.0002 mg/L	EPA 200.8	0.0001	0.000006	12/15/23	QC70079	MBN					
Molybdenum	0.0030 mg/L	EPA 200.8	0.0005	0.00005	12/15/23	QC70079	MBN					
Zinc	0.001 mg/L	EPA 200.8	0.001	0.00003	12/15/23	QC70079	MBN					
Iron	0.162 mg/L	EPA 200.7	0.005	0.0005	12/14/23	QC70025	MBN					

Abbreviations/ References:

RL = Reporting Limit = Minimum Level MDL = Method Detection Limit mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

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Company: Trinity Consultants, Inc.

Report To: Libby Hyde

Analytical QC Summary

TASK NO: 231212140

Receive Date: 12/12/23 Project Name: Ewing Gravel Mine

Test	QC Batch ID	QC Type	Result		Method	Prep Date
Chloride	QC69975	Blank	ND		EPA 300.0	12/12/23
Cyanide-Total	QC70031	Blank	ND	I	EPA 335.4	12/13/23
Cyanide-Weak Acid Dissociable	QC70030	Blank	ND	AS	TM 2036-09C	12/13/23
Fluoride	QC69979	Blank	ND		EPA 300.0	12/12/23
MBAS (calculated as LAS, mol wt 340)	QC69987	Blank	ND	:	SM 5540-C	12/13/23
Mercury	QC70056	Method Blank	ND	I	EPA 245.7	12/14/23
Aluminum	QC70079	Method Blank	ND	I	EPA 200.8	12/12/23
Antimony	QC70079	Method Blank	ND	I	EPA 200.8	12/12/23
Arsenic	QC70079	Method Blank	ND		EPA 200.8	12/12/23
Barium	QC70079	Method Blank	ND		EPA 200.8	12/12/23
Beryllium	QC70079	Method Blank	ND		EPA 200.8	12/12/23
Cadmium	QC70079	Method Blank	ND	I	EPA 200.8	12/12/23
Chromium	QC70079	Method Blank	ND	I	EPA 200.8	12/12/23
Cobalt	QC70079	Method Blank	ND		EPA 200.8	12/12/23
Copper	QC70079	Method Blank	ND		EPA 200.8	12/12/23
Lead	QC70079	Method Blank	ND		EPA 200.8	12/12/23
Manganese	QC70079	Method Blank	ND		EPA 200.8	12/12/23
Molybdenum	QC70079	Method Blank	ND		EPA 200.8	12/12/23
Nickel	QC70079	Method Blank	ND		EPA 200.8	12/12/23
Selenium	QC70079	Method Blank	ND		EPA 200.8	12/12/23
Silver	QC70079	Method Blank	ND		EPA 200.8	12/12/23
Thallium	QC70079	Method Blank	ND		EPA 200.8	12/12/23
Uranium	QC70079	Method Blank	ND		EPA 200.8	12/12/23
Vanadium	QC70079	Method Blank	ND		EPA 200.8	12/12/23
Zinc	QC70079	Method Blank	ND		EPA 200.8	12/12/23
Boron	QC70025	Method Blank	ND		EPA 200.7	12/12/23
Iron	QC70025	Method Blank	ND		EPA 200.7	12/12/23
Nitrate Nitrogen	QC69976	Blank	ND		EPA 300.0	12/12/23
Nitrite Nitrogen	QC69980	Blank	ND		EPA 300.0	12/12/23
Phenols - Total	QC70077	Blank	ND		EPA 420.4	12/15/23
Sulfate	QC69978	Blank	ND	I	EPA 300.0	12/12/23
Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Chloride	QC69975	Duplicate	0 - 20	-	0.7	EPA 300.0
		LCS	90 - 110	103.3	-	
		MS	75 - 125	92.6	-	
Cyanide-Total	QC70031	Duplicate	0 - 20	-	0.0	EPA 335.4
-		LCS	90 - 110	96.9	-	
		MS	75 - 125	101.0	-	
Cyanide-Weak Acid Dissociable	QC70030	Duplicate	0 - 20	-	0.0	ASTM 2036-09C
-		LCS	90 - 110	95.1	-	
		MS	75 - 125	105.0		

Abbreviations/ References:

RL = Reporting Limit = Minimum Level

MDL = Method Detection Limit

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

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Fest	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Fluoride	QC69979	Duplicate	0 - 20	-	2.0	EPA 300.0
		LCS	90 - 110	96.5	-	
		MS	75 - 125	94.8	-	
MBAS (calculated as LAS, mol wt 340)	QC69987	LCS	90 - 110	90.0	-	SM 5540-C
		MS	90 - 110	106.0	-	
		MSD	0 - 10	-	4.8	
Mercury	QC70056	Duplicate	0 - 20	-	0.0	EPA 245.7
		LCS	90 - 110	99.8	-	
		MS	80 - 120	88.0	-	
Aluminum	QC70079	LCS	90 - 110	95.7	-	EPA 200.8
		MS	70 - 130	105.7	-	
		MSD	0 - 10	-	8.7	
Antimony	QC70079	LCS	90 - 110	98.5	-	EPA 200.8
		MS	70 - 130	98.3	-	
		MSD	0 - 10	-	0.3	
Arsenic	QC70079	LCS	90 - 110	97.9	-	EPA 200.8
		MS	70 - 130	111.9	-	
		MSD	0 - 10	-	1.7	
Barium	QC70079	LCS	90 - 110	95.7	-	EPA 200.8
	QUIUU	MS	70 - 130	71.4	-	217(200.0
		MSD	0 - 10	-	0.8	
Beryllium	QC70079	LCS	90 - 110	93.8	-	EPA 200.8
or ymann	0010010	MS	70 - 130	91.8	_	200.0
		MSD	0 - 10	-	0.3	
Cadmium	QC70079	LCS	90 - 110	94.3	-	EPA 200.8
Saumum	QC10019	MS	70 - 130	94.3 96.4	-	EFA 200.0
		MSD	0 - 10	- 90.4	- 0.4	
Chromium	QC70079	LCS	90 - 110	100.6	-	EPA 200.8
SHOHIUH	QC/00/9	MS	90 - 110 70 - 130	100.0		EFA 200.0
		MSD	0 - 10		-	
	0070070			-	1.0	EDA 000 0
Cobalt	QC70079	LCS	90 - 110 70 - 130	100.4	-	EPA 200.8
		MS		100.4	-	
2	0.070070	MSD	0 - 10	-	0.2	FDA 000 0
Copper	QC70079	LCS	90 - 110	94.1	-	EPA 200.8
		MS	70 - 130	94.7	-	
		MSD	0 - 10	-	0.2	
.ead	QC70079	LCS	90 - 110	94.3	-	EPA 200.8
		MS	70 - 130	83.6	-	
		MSD	0 - 10	-	0.3	
Manganese	QC70079	LCS	90 - 110	98.8	-	EPA 200.8
		MS	70 - 130	83.8	-	
		MSD	0 - 10	-	0.6	
Molybdenum	QC70079	LCS	90 - 110	93.4	-	EPA 200.8
		MS	70 - 130	101.5	-	
		MSD	0 - 10	-	0.5	
Nickel	QC70079	LCS	90 - 110	101.7	-	EPA 200.8
		MS	70 - 130	103.9	-	
		MSD	0 - 10	-	0.3	
Selenium	QC70079	LCS	90 - 110	91.7	-	EPA 200.8
		MS	70 - 130	100.0	-	
		MSD	0 - 10	-	7.9	

Abbreviations/ References:

RL = Reporting Limit = Minimum Level MDL = Method Detection Limit mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

 (d) RPD acceptable due to low duplicate and sample concentrations.
 (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

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Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Silver	QC70079	LCS	90 - 110	98.3	-	EPA 200.8
		MS	70 - 130	89.3	-	
		MSD	0 - 10	-	4.9	
Thallium	QC70079	LCS	90 - 110	93.2	-	EPA 200.8
		MS	70 - 130	83.7	-	
		MSD	0 - 10	-	0.9	
Uranium	QC70079	LCS	90 - 110	90.9	-	EPA 200.8
		MS	70 - 130	78.4	-	
		MSD	0 - 10	-	0.1	
Vanadium	QC70079	LCS	90 - 110	102.4	-	EPA 200.8
		MS	70 - 130	109.1	-	
		MSD	0 - 10	-	1.5	
Zinc	QC70079	LCS	90 - 110	94.8	-	EPA 200.8
		MS	70 - 130	91.6	-	
pron		MSD	0 - 10	-	1.8	
Boron	QC70025	Duplicate	0 - 20	-	18.7	EPA 200.7
oron		LCS	90 - 110	96.3	-	
		MS	75 - 125	102.6	-	
ron	QC70025	Duplicate	0 - 20	-	4.0	EPA 200.7
		LCS	90 - 110	90.6	-	
		MS	75 - 125	99.0	-	
Nitrate Nitrogen	QC69976	Duplicate	0 - 20	-	8.0	EPA 300.0
-		LCS	90 - 110	102.0	-	
		MS	75 - 125	93.4	-	
Nitrite Nitrogen	QC69980	Duplicate	0 - 20	-	0.0	EPA 300.0
		LCS	90 - 110	93.9	-	
		MS	75 - 125	96.6	-	
Phenols - Total	QC70077	Duplicate	0 - 20	-	1.2	EPA 420.4
		LCS	90 - 110	96.8	-	
		MS	75 - 125	77.0	-	
Sulfate	QC69978	Duplicate	0 - 20	-	0.9	EPA 300.0
		LCS	90 - 110	100.9	-	
		MS	75 - 125	105.0	-	

All analyses were performed in accordance with approved methods under the latest revision to 40 CFR Part 136 unless otherwise identified. Based on my inquiry of the person or persons directly responsible for analyzing the wastewater samples and generating the report (s), the analyses, report, and information submitted are, to the best of my knowledge and belief, true, accurate, and complete.

DATA APPROVED FOR RELEASE BY

Abbreviations/ References:

RL = Reporting Limit = Minimum Level MDL = Method Detection Limit mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
 (s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 9 of 11

	Commerce City Lab	Lakewood Service Center	610 Garrison Street, Unit E Lakewood CO 80215	Phone: 303-659-2313		<u>www.coloradolab.com</u>	Tests Requested								-	d By: Date/Time:
Project Name / Number	Sund country	Task Number (Lab Use Only)	CAL Task	231212140	IWI	-	Tests							Code Darres	C/S Charge T	1
Bill To Information (If different from report to)	Company Name:	Address:	City State Zip	Phone:	(Crimail:	PO No.:			Drinking Water of Containers Check One Only Check One Only	No.	5	5	S	Cré Later	Deliver Via: MOLAN	y: Date/Time: Relinquished By:
Report To Information	Company Name: 11 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Address: 1391 SPEER BIND, Ste 360		Phone: (413) 226 - 8421	Email: 11004. NYCRE@ TYINITYCOUSULTANTS. COMMAIL	Sample Collector: [ADby Hyde Sample Collector Phone: 913-726 - 84 21		Sample Matrix (Select One Only)	r 🛛 Soil 🗍	e Sample ID	0 GW-1	-	12/12 10:40 CaW-3		Reference 120928083	Date/Time: Received By:
Report To Information	Company Name: Contact Name:	Address: 3991	City DELTVEK	Phone: (013)	Email: bby.h	Sample Collector Sample Collector			Waste Water	Date Time	12/12 11:00	12/12 10:15	2/12 10:4		Refer	Relinquished By:

		CAL Task 231212140 JML	Order ID: QBO23120038 Date Created: 12/7/23			
Ship To: Attention:	Trinity Consultants		Shipping Options:			
	1391 North Speer Blvd		Ship Via: Customer Pickup Cooler: No			
	Suite 350		Defaktion Worker			
	Denver CO 80204		Drinking Water: Chain of Custody Standard: 1			
	Libby Hyde		Customer Needs By: 12/12/23 Ships From: Commerce City			
	720-638-7647		Project:			
	Verify All Shipping Addresses	5	Ewing Gravel Mine			
Qty.	Bottle	1				
3	250 ml Amber - H2SO4	phinoi				
3	500 ml Cylinder - HNO3	metals				
3	500 ml Cylinder - NaOH/ Zn Aceta					
6	500 ml Cylinder - Unpreserved	hand well of	wints Where			

Samples should be shipped or hand delivered the same day they are collected. Orders that require sub-lab analysis should be delivered to the lab Monday thru Wednesday only.

Internal Shipping Instructions:

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

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EXHIBIT L RECLAMATION COSTS

The Ewing Gravel Pit will have a bond to cover the worst-case reclamation scenario. Prior to the start of mining in Pod 1, the operator/applicant will post the necessary bond.

The worst-case reclamation scenario will occur at the beginning of Pod 1, before any mining commences due to the cost of slurry wall construction. Pod 1 and 2 slurry wall is the longer of the two to be constructed. During the beginning of Pod 1, it is anticipated that the processing area will also be developed. Therefore, the worst-case reclamation scenario also includes the cost of reclaiming the processing area and a section of active highwall.

Once the first slurry wall is installed, the permittee may pursue a reduced bond via a bond reduction request to CDRMS.

Reclamation bond unit costs are based on cost calculation for the Inouye Gravel Mine (M-2018-037).

A breakdown of the estimated worst-case reclamation cost is shown in Table L-1.



Table L-1 Ewing Gravel Pit Bond Estimate.

Task	Quantity	Units	Unit Costs	Cost			
Pods 1 and 2							
Slurry wall installation around Pods 1 and 2. Excavation, materials, and dewatering. Slurry wall dimensions: 6500-ft by 50-ft deep.	325,000	Sq. ft.	\$4.30	\$1,397,500			
Inflow/outflow structures including excavation, riprap, concrete, and vegetation.	2	each	\$35,000	\$70,000			
Topsoiling to 2 FT. deep along the slurry wall installation path. 20-ft wide x 6500-ft long (3 acres) x 2-ft deep.	26,200	СҮ	\$1.05	\$27,510			
1000-ft of highwall backfilled from 1H:1V to 3H:1V to a depth of 50-ft.	94,000	СҮ	\$1.05	\$98,700			
Topsoiling rangeland areas in Pods 1 and 2 above mining highwall to 2 FT. deep (4 acres)	9,680	СҮ	\$1.05	\$10,164			
Processing Area							
Freshwater and groundwater pond backfill.	190,000	CY	\$1.05	\$199,500			
Topsoil processing area to 2 FT. deep (21.1 acres)	68,083	CY	\$1.50	\$102,124			
Remove office and scale. All other plants and equipment are portable.	2	each	\$500.00	\$1,000			
Revegetation							
Scarify topsoiled areas prior to seeding.	28.1	acres	\$150.00	\$4,215			
Seeding of processing area, slurry wall top, and mining highwall area above water level.	28.1	acres	\$400	\$11,240			
Mulching of processing area, slurry wall top, and mining highwall area above water level.	28.1	acres	\$500	\$14,050			
Weed control management for two years.	2	each	\$1,500	\$3,000			
Subtotal				\$1,939,003			
DRMS Indirect Costs (28% of direct costs)				\$542,921			
Total				\$2,481,924			

