SAMPLING AND ANALYSIS PLAN (REVISED)

Nix Sand and Gravel Mine

April 2023



2500 East Brannan Way Denver, Colorado 80229 303.534.1231

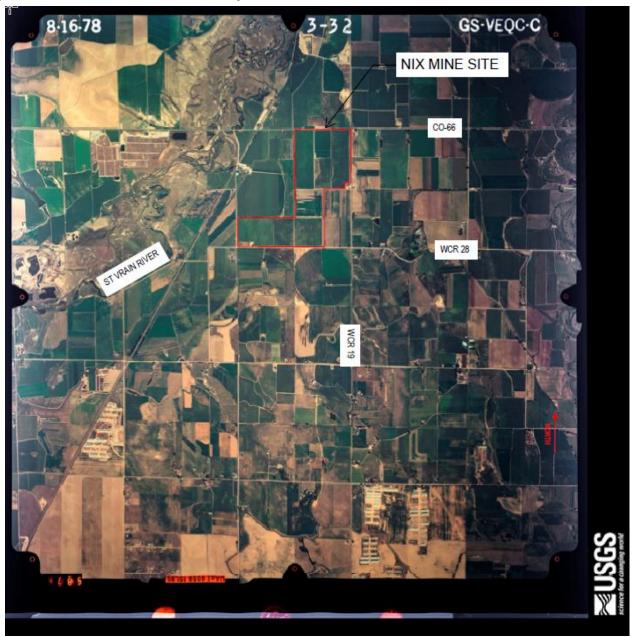
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1. BACKGROUND

Ready Mixed Concrete Company, LLC (RMCC, or Operator) plans to operate the Nix Sand and Gravel Mine (Nix) under the authority of the Colorado Division of Reclamation, Mining and Safety (DRMS) Permit M2001-046. Nix is in Weld County, approximately four miles west of Platteville, Colorado. See general vicinity map in **Figure 1**, below.

Figure 1: Nix Mine Site and Vicinity



2. BASELINE GROUNDWATER DATA

RMCC has gathered data from 13 monitoring wells located around the property. This data shows the baseline groundwater condition within the alluvial aquifer of the St. Vrain River. The locations of the sampled and measured wells can be found in **Figure 2**, below. This figure also provides information on the groundwater flow and shows the extensive mining to the south and west of Nix.

Five monitoring wells are on the southern boundary of the mining area, four are located on the interior of the site within a future slurry-walled area and may be removed when leak testing is complete, and four are in the northern section of the property. Of the latter, two are downgradient including the new Mon-9 drilled at DRMS's request in the northwest corner of the site. Wells Nix-Owens-Mon 1, Nix-Owens-Mon 2, and Nix-Owens-Mon 4A are now dry (likely due to adjacent dewatering); Well Nix-Varra-Mon 3 is only 1" in diameter and is not able to be sampled using standard techniques.

2.1 Baseline Groundwater Quality Data

RMCC's sampling and monitoring program is conducted to thoroughly establish the baseline water quality and quantity for the site, and to allow for long-term water quality and water level monitoring. The purpose of the monitoring is to determine if gravel pit operations have impacted the alluvial aquifer. **Table 1** shows a summary of the initial well sample results from June 2021.

Figure 2: Map of Wells on Nix Site (following page)

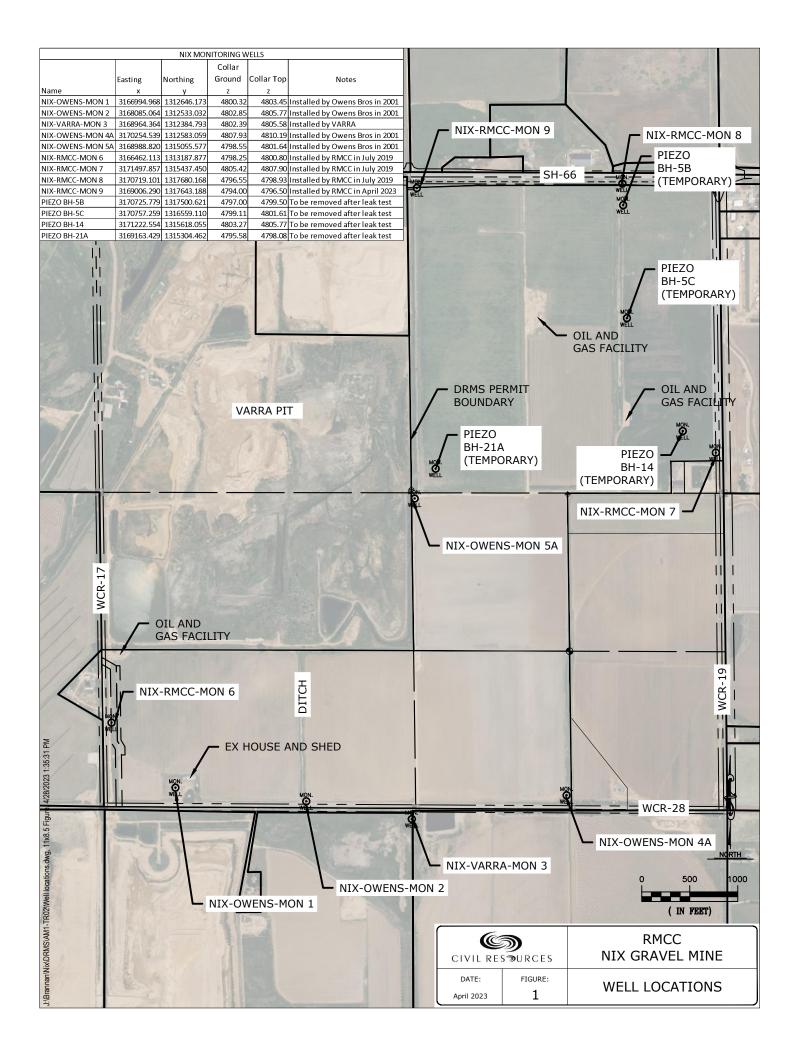


Table 1: Baseline Groundwater Quality Data¹

| | | | Nix-Owens | 2 | 8 | 8 | IIS | | | |
|--|---------------------|-------------------------------|-----------------|-----------------|-----------------|-----------------|------------------|-------------------|--------------------------|---|
| | Complia | Compliance Standard | Mon 4 (ug/L) | Mon 7 (ug/L) | Mon 6 (ug/L) | Mon 8 (ug/L) | Mon 5A (ug/L) | Method Used | Detection Limit(ug/L) | Notes |
| Aluminum (AI) | 2000 | ug/L | 309 | 220 | 1150 | 3460 | 3930 | EPA 200.8 | 20 | |
| Antimony(Sb) | 9 | ug/L | 0.0805 | QN | 0.831 | 0.173 | 0.419 | EPA 200.8 | 0.05 | |
| Arsenic (As) | 10 | ng/L | ND | QN | 0.692 | 0.967 | 0.857 | EPA 200.8 | 9.0 | |
| Asbestos | 7.0x10 ⁶ | Ų | | | | | | TBD | TBD | Analyte not reported, RMCC to sample prior to May annual Report |
| Barium(Ba) | 2000 | ug/L | 54.7 | 43.7 | 36.8 | 93.5 | 74.1 | EPA 200.8 | 1 | |
| Beryllium (Be) | 4 | ug/L | QN | QV | QN | 0.106 | | EPA 200.8 | 0.1 | |
| Boron (B) | 750 | ng/L | 204 | 243 | 201 | 212 | 245 | EPA 200.8 | 10 | |
| Cadmium(Cd) | 5 | | ND | QN | QN | QN | 0.0512 | EPA 200.8 | 0.05 | |
| Chlorophenol | 0.2 | | ND | QN | QN | QN | | EPA 8270D | 10 | |
| Chloride (Cl) | 250000 | 1/Bn | 145000 | 157000 | 89600 | 136000 | 94000 | EPA 300.0 | 0009 | |
| Chromium(Cr) | 100 | | | | | | | EPA 200.8 | TBD | Recovering 2021 data from lab, will sample prior to May Report |
| Cobalt (Co) | 20 | | ND | QN | QN | QN | QN | EPA 200.8 | 1 | |
| Copper (Cu) | 200 | 1/Bn | 1.41 | QN | 4.43 | 1.54 | 4.02 | EPA 200.8 | 1 | |
| Cyanide [Free](CN) | 200 | ng/L | ND | QN | QN | QN | | EPA 335.4 | 50 | |
| Fluoride(F) | 2000 | 1/Bn | 631 | 697 | 1210 | 1360 | 1750 | EPA 300.0 | 40 | |
| Iron (Fe) | 300 | ng/L | 214 | 159 | 177 | 2060 | 1640 | EPA 200.8 | 10 | Above domestic water supply standards, below agricultural |
| Lead(Pb) | 20 | 1/Bn | ND | QN | 1.55 | 1.83 | 1.37 | EPA 200.8 | 0.5 | |
| Lithium (Li) | 2500 | 1/Bn | 20.9 | 28.5 | 14.9 | 23.2 | 43.6 | EPA 200.7 | 5 | |
| Nickel (Ni) | 100 | ng/L | 1.69 | 2.57 | 1.2 | 5.56 | 3.13 | EPA 200.8 | 1 | |
| Nitrate(NO3) | 10000 | 1/Bn | 11500 | 3630 | 3720 | 12900 | 13900 | EPA 300.0 | 0.05 | Above domestic water supply standards |
| Nitrite (NO2) | 1000 | ug/L | 6820 | 7450 | 3830 | 0899 | 4570 | EPA 300.0 | 0.06 | Above domestic water supply standards, below agricultural |
| Nitrite & Nitrate (NO2+NO3) | 10000 | 1/Bn | 18320 | 11080 | 7550 | 19580 | 18470 | EPA 300.0 | NA | Above domestic water supply standards/ below AG |
| Manganese (Mn) | 20 | ug/L | 4.1 | 3.88 | 108 | 54.8 | 81.2 | EPA 200.8 | 1 | |
| Mercury (Hg) | 2 | ng/L | ND | QN | QN | QN | QN | EPA 245.1 | 0.2 | |
| Molybdenum(Mo) | 210 | ng/L | 2.79 | 3.7 | 2.68 | 5.34 | 6.23 | EPA 200.8 | 1 | |
| Selenium(Se) | 20 | ug/L | 1.42 | QN | 1.2 | 5.56 | 1.69 | EPA 200.8 | 1 | |
| Silver(Ag) | 20 | ug/L | ND | ND | ND | ND | ND | EPA 200.8 | 0.25 | |
| Sulfate (SO 4) | 250000 | ug/L | 294000 | 348000 | 331000 | 290000 | 402000 | EPA 300.0 | 30 | Above domestic water supply standards |
| Thallium(TI) | 2 | ug/L | | | | | | EPA 200.8 | TBD | Recovering 2021 data from lab, will sample prior to May Report |
| Uranium(U) | 16.8 | ug/L | 6.08 | 7.66 | 13 | 16.1 | 16.5 | EPA 200.8 | 0.5 | |
| Vanadium (V) | 100 | ug/L | 1.62 | 1.23 | 3.07 | 5.84 | 5.06 | EPA 200.8 | 0.05 | |
| Zinc (Zn) | 2000 | ug/L | ND | 1.46 | 28.1 | 8.32 | 6.96 | EPA 200.8 | 1 | |
| Foaming Agents | 200 | ug/L | ND | ND | QN | ND | ND | SM 5540C | 100 | |
| PH Hd | 0 | 6.5-8.5 | 7.39 | 7.3 | 7.47 | 7.43 | 7.32 | SM4500 | NA | |
| Phenol | 300 | ng/L | ND | QN | QN | QN | ON | EPA 8270D | 10 | |
| Color | 15 | 15 color units | | | | | | TBD | NA | Analyte not reported, RMCC to sample prior to May annual Report |
| Corrosivity | Non | Non-Corrosive | | | | | | TBD | NA | Analyte not reported, RMCC to sample prior to May annual Report |
| Total Coliforms(MPL/100ML) | 2.2 org/ | 2.2 org/100mL (30 day avg) | >2400 | >2400 | QN | QN | QN | SMEWW 92238(b) | 1 | Above domestic water stranger standards |
| Income in the last of the last | 1.25 x | 1.25 x background | | | | ! | | | | an annual debug annual |
| TDS | | (mg/L) | 969 | 730 | 594 | 299 | 0// | SM2540C | 10 mg/L | |

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 $^{^{\}rm 1}$ For the accompanying report, please see RMCC's March 31, 2023, Response to TR2, Adequacy Review 1.

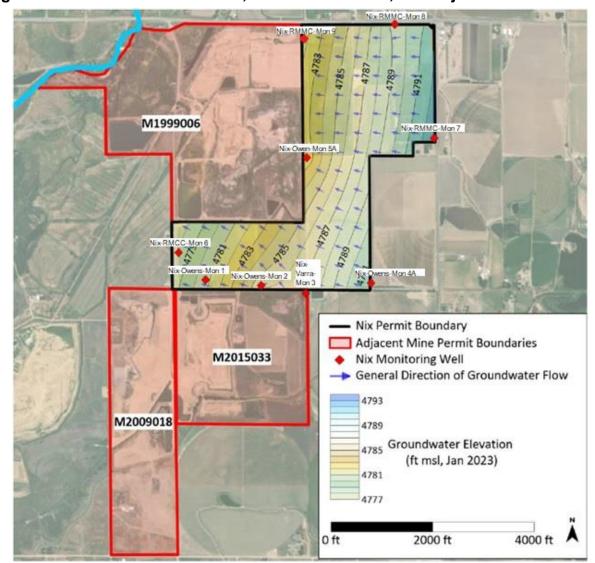


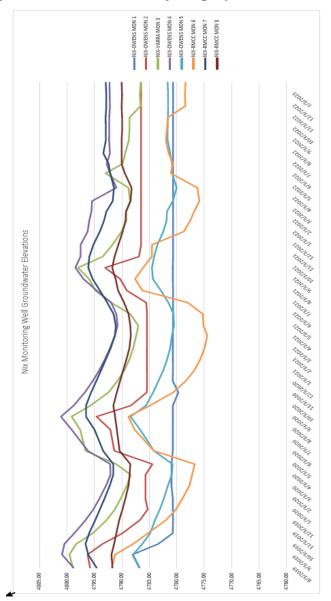
Figure 3: Nix Groundwater Levels, Groundwater Flow, and Adjacent Mine Sites²

2.2 Baseline Groundwater Quantity Data

RMCC has been monitoring groundwater levels since August 2019, as shown in **Figure 3** (some measurements commenced long before 2019 but are not shown here). The seasonality of groundwater levels is noted. Several wells (see, e.g., Nix-Owens-Mon 1, Nix-Owens-Mon 2, Nix-Owens-Mon 4A) have run dry around the same time as the nearby Raptor Materials pit was dewatered for mining; RMCC will continue to test those wells for water.

² For the full figure and accompanying report, please see RMCC's March 31, 2023, Response to TR2, Adequacy Review 1. Figure 3 has been modified since the adequacy review to include Nix-RMCC-Mon 9.

Figure 4: Groundwater Hydrographs³



3. WATER QUALITY MONITORING

3.1 Introduction

As part of this Sampling and Analysis Plan (Plan), the Operator will test for water quality at Nix. The purpose of this Plan is to protect the integrity of the region's groundwater quality and to meet the requirements set forth in DRMS rules and regulations and the Colorado Department of Public Health and Environment (CDPHE) Regulation No. 41.

³ For the accompanying report, please see RMCC's March 31, 2023, Response to TR2, Adequacy Review 1.

More specifically, the Plan will provide baseline and long-term water quality data for surface and groundwater conditions at the site. Long-term monitoring results will be compared to baseline conditions to determine if gravel pit operations have impacted water quality either from mining activity or from trucks moving mined material offsite.

The Plan provides for the collection of pre-operational water quality data (baseline data) that will ultimately be used to compare with results from continuing long-term water quality monitoring. Collection of pre-operational groundwater levels has also occurred as part of the Plan.

3.2 Sampling Methodology

This section identifies the groundwater sampling locations, selected parameters, frequency of tests, analytical techniques, the method of interpreting the results of the tests, and general program operation.

3.2.1 Background Monitoring and Point of Compliance (POC) Locations

Seven water quality sampling wells have been identified to evaluate pre-operational water quality and potential impacts to surface and groundwater. An additional six wells will be monitored for groundwater elevations, but not sampled for water quality. The location of the monitoring locations is shown above in **Figure 2**; the locations and their purpose are summarized in **Table 2**. Available well construction and yield estimate reports are provided, as is available, in **Attachment B**. Note: Not all monitoring wells were either constructed by RMCC or registered with the Division of Water Resources, so construction diagrams are not available.

Table 2: Groundwater Monitoring Stations

| Station | Туре | POC Well | Top of Casing Elevations | Location | Purpose |
|---------------------|--|----------|-----------------------------|---|--|
| Nix-Owens-Mon 1 | Water Elevation | No | 4803.45 | Southwestern perimeter of site. | To establish groundwater flow direction, not used for water quality sample collection. Included in monthly water level sampling. |
| Nix-Owens-Mon 2 | Water Quality & Water Elevation | No | 4805.77 | Southwestern perimeter of site. | To establish upgradient water quality in the southwest corner of the site. Can be compared against other downstream wells to determine potential influence from mining operations. |
| Nix-Varra-Mon 3 | Water Elevation | No | 4805.58 | Southwestern perimeter of site. | To establish groundwater flow direction, not used for water quality sample collection. Included in monthly water level sampling. |
| Nix-Owens-Mon 4A | Water Quality & Water Elevation | No | 4810.19 | Southeastern corner of site. | To monitor the groundwater upgradient of the central portion of gravel pit. Can compare results to the downgradient station results to determine if any impacts to groundwater have occurred. |
| Nix-Owens-Mon 5A | Water Quality & Water Elevation | Yes | 4801.64 | Western perimeter of site. | To monitor the groundwater downgradient of the gravel pit & influence from nearby mining operations. Can compare results to the upgradient station results to determine if any impacts to groundwater have occurred. |
| Nix-RMCC-Mon 6 | Water Quality & Water Elevation | Yes | 4800.80 | Western perimeter of site. | To monitor the groundwater downgradient of the gravel pit. Can compare results to the upgradient station results to determine if any impacts to groundwater have occurred |
| Nix-RMCC-Mon 7 | Water Quality & Water Elevation | No | 4807.90 | Eastern perimeter of site. | To monitor the groundwater upgradient of the mining operation. Can compare results to the downgradient station results to determine if any impacts to groundwater have occurred. |
| Nix-RMCC-Mon 8 | Water Quality & Water Elevation | No | 4798.93 | Northern perimeter of site. | To monitor the groundwater upgradient of the mining operation. Can compare results to the downgradient station results to determine if any impacts to groundwater have occurred. |
| Nix-RMCC-Mon 9 | Water Quality & Water Elevation | Yes | 4794.00 | Northwest corner of site. | To monitor the groundwater downgradient of the gravel pit. Installed in April 2023. Can compare results to the upgradient station results to determine if any impacts to groundwater have occurred. |
| Piezo BH-5B | Water Elevation | No | 4797.00 | North of Piezo BH-5C, in cell 2. | To establish groundwater flow direction, not used for water quality sample collection. Included in monthly water level sampling. |
| Piezo BH-5C | Water Elevation | No | 4799.11 | Northwestern mining envelope, in cell 2. | To establish groundwater flow direction, not used for water quality sample collection. Included in monthly water level sampling. |
| Piezo BH-14 | Water Elevation | No | 4803.27 | On eastern site perimeter, in cell 2. | To establish groundwater flow direction, not used for water quality sample collection. Included in monthly water level sampling. |
| Piezo BH-21A | Water Elevation | No | 4795.58 | Central western perimeter, on southern perimeter of cell 3. | To establish groundwater flow direction, not used for water quality sample collection. Included in monthly water level sampling. |

The following wells have been identified as the POC wells: Nix-Owens-Mon 5A, Nix-RMCC-Mon 6 and Nix-RMCC-Mon 9. Note: Nix-RMCC-Mon 9, in the northwest corner of the site, was installed in April 2023 at DRMS's request to provide data in the most downgradient point in that area of the permit.

Wells Nix-Owens-Mon 2 and Nix-RMCC-Mon 6, located upstream and downstream, respectively, of the southwest mining envelope (including Cell 1, Cell 6, the proposed plant, siltation pond, and freshwater pond) will allow characterization of groundwater impacts of operations to the groundwater quality. Wells Nix-Owens-Mon 4A and Nix-Owens Mon 5A, located upstream and downstream of the southern mining envelop will allow determination of groundwater impacts from Cells 4 and 5. Similarly, wells Nix-RMCC-Mon 7 and Nix-RMCC-Mon 5A, located upstream and downstream of the northwestern mining envelope will allow determination of groundwater impacts across Cell 2 and Cell 3. Nix-RMCC-Mon 9 will be compared against Nix-RMCC-Mon 8 to evaluate influence across the northern perimeter of the site. Because Nix will use slurry walls, any water quality effects on groundwater are expected to be negligible.

3.2.2 Monitoring Frequency

The Plan has two phases: Baseline and Operational. Baseline Phase consists of sample collection that has already occurred prior to, or will occur subsequent to and in conjunction with, mining activity on the site; that is, after consultation with and approval by DRMS, the Operator will continue to develop its baseline dataset at the same time it commences mining operations. Operational Phase will occur on an ongoing basis once the baseline data is acquired; and will continue until mining ceases.

3.2.2.1 Baseline Phase (Prior to Mining Activity)

RMCC has initiated its pre-operational water quality sampling program. Groundwater levels have been measured monthly since August of 2019 or before. Initial baseline water quality samples were collected in June 2021 at the following locations: Nix-Owens-Mon 4A, Nix-Owens-Mon 5A, Nix-RMCC-Mon 6, Nix-RMCC-Mon 7, and Nix-RMCC-Mon 8.

RMCC Environmental Manager Scott Legg has discussed the 2021 results with DRMS Environmental Protection Specialist Eric Scott. RMCC sampled four wells again in April 2023. Though results are pending, the testing will confirm any exceedances and will provide results for analytes missed in 2021. Further, RMCC will continue monitoring for quality until it has five quarters worth of data, then proceed in the future with annual testing every June.

The first round of subsequent samples was collected on April 17, 2023. Sample collections were attempted at the following dry wells: Nix-Owens-Mon 1, Nix-Owens-Mon 2, and Nix-Owens Mon 4. Nix-Varra-Mon 3 is a 1" well and is deemed not suitable for water quality sampling. Nix-RMCC-Mon 9, was installed on April 12, 2023, and will be included in future sampling events. Additional subsequent sampling events at all seven

water quality locations will be conducted in June 2023, August 2023, and October 2023. Two additional sampling events at Nix-RMCC-Mon 9 will be conducted if deemed necessary by DRMS to collect up to five baseline samples at each well. At the end of the baseline phase, RMCC will submit a Baseline Data Summary report as a Technical Revision.

3.2.2.2 Operational Phase (Long-Term Operation)

Water quality samples will be taken annually in June at each of the seven water quality wells for the duration of mining operations. The frequency of sampling for long-term monitoring can be modified in the future if water quality impacts are detected. Monthly water levels will continue to be collected at each monitoring well, however the Piezo wells may be removed after leak testing occurs.

3.2.3 Monitoring Parameters

The Operator will conduct field and laboratory analysis on 37 different water quality parameters at each site, based on CDPHE Regulation 41, Tables 1-4. A proposed list of the 37 parameters is shown in **Table 3**. **Table 4** includes the list of omitted analytes and justifications as previously discussed with and approved by DRMS staff. All analysis of "non-field" measurements will be performed by a State of Colorado-certified laboratory that follows accepted industry standards and quality assurance/quality control (QA/QC) procedures.

Table 3: Baseline and Operational Water Quality Parameters

| Analyte | Phase | Analytical Methodology | Standard | Standard Reference |
|----------------|--------------------------|---------------------------|-------------|------------------------|
| Aluminum (Al) | Dissolved – lab filtered | M200.8 ICP | 5 mg/L | 5 CCR 1002-41; Table 3 |
| Antimony (Sb) | Dissolved – lab filtered | M200.8 ICP | 0.006 mg/L | 5 CCR 1002-41; Table 1 |
| Arsenic (As) | Dissolved – lab filtered | M200.8 ICP | 0.01 mg/L | 5 CCR 1002-41; Table 1 |
| Barium (Ba) | Dissolved – lab filtered | M200.8 ICP | 2.0 mg/L | 5 CCR 1002-41; Table 1 |
| Beryllium (Be) | Dissolved – lab filtered | M200.8 ICP | 0.004 mg/L | 5 CCR 1002-41; Table 1 |
| Boron (B) | Dissolved – lab filtered | M200.8 ICP | 0.75 mg/L | 5 CCR 1002-41; Table 3 |
| Cadmium (Cd) | Dissolved – lab filtered | M200.8 ICP | 0.005 mg/L | 5 CCR 1002-41; Table 1 |
| Chloride (CI) | Dissolved – lab filtered | EPA 300.0 | 250 mg/L | 5 CCR 1002-41; Table 2 |
| Chlorophenol | Total | SM8270 | 0.0002 mg/L | 5 CCR 1002-41; Table 2 |
| Chromium (Cr) | Dissolved – lab filtered | M200.8 ICP | 0.1 mg/L | 5 CCR 1002-41; Table 1 |
| Cobalt (Co) | Dissolved – lab filtered | M200.8 ICP | 0.05 mg/L | 5 CCR 1002-41; Table 3 |
| Copper (Cu) | Dissolved – lab filtered | M200.8 ICP | 0.2 mg/L | 5 CCR 1002-41; Table 3 |
| Conductivity | Field | SM4500 | N/A | N/A |
| Cyanide [Free] | Free | 4500-CN-E | 0.2 mg/L | 5 CCR 1002-41; Table 1 |
| Fluoride (F) | Dissolved – lab filtered | M200.8 ICP | 2.0 mg/L | 5 CCR 1002-41; Table 3 |
| Iron (Fe) | Dissolved – lab filtered | M200.8 ICP | 5 mg/L | 5 CCR 1002-41; Table 3 |
| Lead (Pb) | Dissolved – lab filtered | M200.8 ICP | 0.05 mg/L | 5 CCR 1002-41; Table 1 |
| Lithium (Li) | Dissolved – lab filtered | M200.8 ICP | 2.5 mg/L | 5 CCR 1002-41; Table 3 |
| Manganese (Mn) | Dissolved – lab filtered | M200.8 ICP | 0.2 mg/L | 5 CCR 1002-41; Table 3 |

| Mercury (Hg) (inorganic) | Dissolved – lab filtered | M200.8 ICP / EPA 245.1 | 0.002 mg/L | 5 CCR 1002-41; Table 1 |
|--|--------------------------|---------------------------|------------------|-----------------------------|
| Mercury (Hg) | Dissolved – lab filtered | M200.8 ICP / EPA 245.1 | 0.01 mg/L | 5 CCR 1002-41; Table 3 |
| Molybdenum (Mo) | Dissolved – lab filtered | M200.8 ICP | 0.21 mg/L | 5 CCR 1002-41; Table 1 |
| Nickel (Ni) | Dissolved – lab filtered | M200.8 ICP | 0.1 mg/L | 5 CCR 1002-41; Table 1 |
| Nitrate (NO2) | Dissolved – lab filtered | EPA 300.0 | 10.0 mg/L | 5 CCR 1002-41; Table 1 |
| Total Nitrite & Nitrate (NO2 +NO3) | Dissolved – lab filtered | EPA 300.0 | 10.0 mg/L | 5 CCR 1002-41; Table 1 |
| Nitrite (NO3) | Dissolved – lab filtered | EPA 300.0 | 1.0 mg/L | 5 CCR 1002-41; Table 1 |
| pН | Total | SM4500 | 6.5 s.u 8.5 s.u. | 5 CCR 1002-41; Tables 2 & 3 |
| Phenol | Total | SM8270 | 0.3 mg/L | 5 CCR 1002-41; Table 2 |
| Selenium (Se) | Dissolved – lab filtered | M200.8 ICP | 0.02 mg/L | 5 CCR 1002-41; Table 3 |
| Silver (Ag) | Dissolved – lab filtered | M200.8 ICP | 0.05 mg/L | 5 CCR 1002-41; Table 1 |
| Sulfate (SO4) | Dissolved – lab filtered | EPA 300.0 | 250 mg/L | 5 CCR 1002-41; Table 2 |
| Thallium (TI) | Dissolved – lab filtered | M200.8 ICP | 0.002 mg/L | 5 CCR 1002-41; Table 1 |
| Total Dissolved Solids (TDS) | Dissolved – lab filtered | SM2540 | TBD* | 5 CCR 1002-41; Table 4 |
| Uranium (U) | Dissolved – lab filtered | M200.8 ICP | 0.0168 mg/L | 5 CCR 1002-41; Table 1 |
| Vanadium (V) | Dissolved – lab filtered | M200.8 ICP | 0.1 mg/L | 5 CCR 1002-41; Table 3 |
| Zinc (Zn) | Dissolved – lab filtered | M200.8 ICP | 2 mg/L | 5 CCR 1002-41; Table 3 |

^{*}Per 5 CCR 1002-41; Table 4, Maximum Allowable TDS Concentrations are based on background levels. Previous sampling results from 6/2021 were 500-1,000mg/L making the limit 1.25x background concentration.

Table 4: Omitted Parameters from CDPHE Regulation 41, Tables 1-4

| Analyte | CDPHE Reg 41 Citation | Justification |
|--------------|------------------------------------|--|
| Total | Table 1 - Domestic Water Standards | Mining operations are not expected to impact bacteriological coliform |
| Coliforms | - Human Health Standards | levels nor can be reasonably attributed to mining operations. |
| | Table 1 - Domestic Water Standards | Asbestos will not be used in mining operations and cannot be reasonably |
| Asbestos | - Human Health Standards | attributed to mining operations. |
| Radiological | Table 1 - Domestic Water Standards | Mining operations are not expected to impact radiological levels; levels of |
| Elements | - Human Health Standards | this parameter cannot be reasonably attributed to mining operations. |
| | Table 2 - Domestic Water Standards | Mining operations are not expected to affect aquifer color; changes of this |
| Color | - Drinking Water Standards | parameter cannot be reasonably attributed to mining operations. |
| | Table 2 - Domestic Water Standards | Mining operations are not expected to affect aquifer corrosivity; pH will be |
| Corrosivity | - Drinking Water Standards | analyzed. |
| | | Mining operations are not expected to affect aquifer foaming, no large- |
| Foaming | Table 2 - Domestic Water Standards | scale use of surfactants is planned, and cannot be reasonably attributed |
| Agents | - Drinking Water Standards | to mining operations. |
| | | Mining operations are not expected to affect aquifer odor. Olfactory |
| | Table 2 - Domestic Water Standards | observations will be noted during sample collection; changes of this |
| Odor | - Drinking Water Standards | parameter cannot be reasonably attributed to mining operations. |

3.2.4 Sampling Protocol

The following protocol will be used to collect water samples:

3.2.4.1 Bottles

Specific bottles will be ordered from the analytical laboratory to collect the water samples. The laboratory will be notified they will be responsible for filtering dissolved samples prior to placing a bottle order.

3.2.4.2 Static Water Levels

Static water levels in the wells will be measured and recorded using a water level well sounder prior to any pumping of the well. The measurement location at the top edge of the casing will be marked with permanent ink pen and should be touched up with fresh ink at each sampling event. All water levels, and observation well elevations should be measured to at least 0.01' (hundredth of a foot).

3.2.4.3 Purging

Monitoring wells will be purged prior to sample collection. Either a low-flow submersible pump or polyurethane bailers will be used to purge the wells and collect samples, depending on the required purge volume. Pumps will be decontaminated prior to being placed in each well, whereas new bailers will be used and disposed of for each well. Removal of three well casing volumes will occur prior to sampling. The static volume of water in the well will be calculated using the following equation:

 $V = r^2 h(0.163)$

Where

V = static volume of water in well (in gallons)

r = inner radius of well casing (in inches)

h = length of water column (in feet) which is equal to the total well depth minus depth to water.

0.163 = a constant conversion factor that compensates for the conversion of the casing radius from inches to feet for 2-inch diameter wells and the conversion of cubic feet to gallons, and pi (A). This factor would change for different diameter wells.

The purged volume of water will be measured using a five-gallon bucket to verify that the static volumes in the wells are evacuated prior to sample collection. Should the well purge dry prior to three casing volumes being removed, samples will be collected first draw after appropriate recharge.

3.2.4.4 Field Measurements

Measurement of pH, temperature, and specific conductivity will be collected in the field. Visual and olfactory observations will be documented on field sheets. The meters will be cleaned and calibrated prior to measurements. Sample field and instrument calibration sheets are shown in **Appendix A**.

3.2.4.5 Handling of Sample Bottles

Water will be pumped or collected directly into sample bottles. The date and time of sample collection will be marked on the bottle along with who collected the sample and the site location. Samples will then be placed in a cooler with ice.

3.2.4.6 Chain of Custody

A chain of custody form will be completed and will indicate what analysis needs to be run, the date and time collected, sample identification, and who assembled the sample. The samples will be delivered to the lab on the day of sample collection, or stored below 6°C in a refrigerator until delivery is available on the following day. Dissolved parameters are to be filtered by the laboratory.

3.3 Analytical Procedures: Comparison to State Water Quality Standards

The analytical results will be compared to the regulatory limits established by the Colorado Water Quality Control Commission. The groundwater water quality data from these wells will be compared to standard values in Tables 1-4 of CDPHE Regulation 41. In the case of multiple standards, the more stringent standard will apply. Analytical results from baseline water quality sample collection will be used to determine if the above standards are appropriate for all parameters. Should it be determined that background concentrations of any parameters are elevated due to prior existing activity or ambient conditions, the Operator will work with DRMS to propose modified standards, considering pre-mining land use activity. After final standards are established, if exceedances of any of the water quality standards are detected in POC wells, the Operator will notify DRMS and initiate a water quality mitigation plan as discussed in more detail below.

3.4 Water Quality Mitigation Plan

If limits are exceeded, the Operator will implement the following mitigation procedures:

- Notify DRMS of the exceedance within seven days of either receiving the analytical report from the laboratory or completing the described regression analysis.
- Identify the potential causes/sources of the exceedance parameters.
- Implement supplemental water quality sampling. If exceedances are

detected, the Operator will collect samples to confirm the exceedance as soon as practicable, but no longer than 14 days after receiving the exceedance. If confirmed, the Operator will work with DRMS to establish an appropriate supplemental sampling schedule. Only parameter(s) which exceed the regulatory limits will be analyzed and will continue to be monitored until the parameter(s) drop below the allowable limit.

The Operator will begin implementing one or more mitigation measures if mining and reclamation activity is determined to be a significant factor to groundwater changes requiring mitigation. Mitigation measures may include, but are not limited to:

- Review chemical inventory for elevated analytes and develop plans for chemical containment, abatement, reduction and/or substitution. Confirm effectiveness of appropriate controls surrounding chemical spill.
- Review effectiveness of slurry walls and source area containment.
- Collect additional samples of stockpiled materials and review placement and containment of stockpiles if identified analytes are detected in elevated rates.
- Remove suspected contaminated materials and replace with clean fill or another suitable material.

3.5 Annual Report

A water quality summary report will be prepared annually and submitted with the Operator's annual DRMS report. The report will present summaries of the data collected during the previous year and compare such data to State water quality standards and the baseline monitoring results.

4. WATER LEVEL MONITORING PLAN

4.1 Monthly Monitoring

The Operator's water level monitoring plan submitted in June 2021 has been approved by DRMS. Consistent with that plan, the Operator will continue to monitor its groundwater level wells monthly to improve the operator's knowledge of the water table on- and off-site during operations.

4.2 Criteria and Trigger Values

Certain water level deviation observed during monthly water level monitoring may initiate additional investigation. Specifically, once mining operations commence, if RMCC observes water levels in a monitoring well that are more than two feet above or below

historic maximum or minimum levels observed for that well for more than two consecutive months, the Operator will take steps consistent with the Groundwater Monitoring Plan previously submitted and approved. Some of those steps include:

- The Operator will evaluate the cause and will notify DRMS within seven days.
- After the DRMS has been notified, the Operator will review the data and available information and submit a report to DRMS within 30 days. The evaluation will include discussions with the well owner who has contacted the operator regarding a concern, if any, and review of baseline data from the well and vicinity to evaluate whether changes may be due to seasonal variations, climate, mining, slurry wall lining or other factors. The report will identify the extent of potential or actual impacts associated with the changes.
- If the extent of groundwater changes due to mining or reclamation activities is determined to be a significant contributing factor that has or may create adverse impacts, the mining-associated impacts will be addressed to the satisfaction of DRMS.
- The Operator will begin implementing one or more mitigation measures if mining and reclamation activity is determined to be a significant factor to groundwater changes requiring mitigation.
- Mitigation measures may include, but are not limited to:
 - Placing water in a recharge pond to raise groundwater levels around the well.
 - Constructing a local clay liner at the edge of the mine Cell (i.e., between the dewatering point and the well) in order to raise water levels on the well side of the liner and mitigate dewatering effects.
 - Cleaning the well to improve efficiency.
 - Providing an alternative source of water or purchasing additional water to support historic well use in terms of water quantity and quality. If needed, water quality parameters will be checked in affected wells to ensure alternative sources support historic use.
 - Modifying a well to operate under lower groundwater conditions.
 This could include deepening the well or lowering pumps. All work would be done at the operator's expense with the exception of replacing equipment that was non-functional prior to mining.

| Attachment A: | Field Sheets | and Instrument | Calibration | Sheet |
|---------------|--------------|----------------|-------------|-------|
|---------------|--------------|----------------|-------------|-------|

Well Sampling Log--SAMPLE Nix Sand and Gravel Mine Groundwater Monitoring Field Sheet

| Sample Poi | nt: SAMPI | LE | | | | | Date: _ | |
|-----------------------------|---------------------------------|-----------------------------|--------------------|-------------------------|------|---------------------|----------------------------|----------|
| Sampler Na | ame: | | | | | | Time: _ | |
| Weather/F | ield Conditi | ons: | | | | | | |
| Groundwat | ter Monitor | ing Well F | Purging/S | Sampling: | | | | |
| Fotal Well Denth | epth (TD) = _ to Water (D | TW)= | feet fee | t | | | | |
| Casing Volur Purge Volum | me = 0.163ga ne = (Casing \ | l (for 2" dia /olume x 3 | am. well) :) = | x (TD – DTW) gallons | = | gallons | | |
| Purge Metho | od: 🗆 Baile | r 🗆 Pur | mp | | | | | |
| Time | Volume Removed (gal) | pH (s.u.) | Temp (°C) | Sp. Cond. (μS/cm.) | Odor | Color / Sediment | Bubbles / Effervescence | Comments |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| et | Damana 11 | _ | | | | | | |
| Time | Parameters Volume Removed (gal) | : pH (s.u.) | Temp (°C) | Sp. Cond. (μS/cm.) | Odor | Color / Sediment | Bubbles / Effervescence | Comments |
| | (gai) | | | | | | | |

Analysis Requested:

Dissolved Metals: Ag, Al, As, Ba, Be, B, Cd, Cr, Co, Cu, F, Fe, Pb, Li, Mn, Hg, Mo, Ni, Sb, Se, Tl, U, V, Zn (Lab filtered)

Anions: Cl, NO2, NO3, NO2 + NO3, SO4 (Lab filtered)

SVOC: Phenol, Chlorophenol **Misc.:** pH, TDS, Free Cyanide

Field Instrument Calibration Sheet

| Instrument: | | |
|---------------------|---------------------|-------------------------|
| Make: <u>Oakton</u> | Model: PCTSTestr 50 | Serial : <u>2897197</u> |
| Date: | | |
| Pre-Sampling Time: | Post Sam | pling Time: |
| Performed By: | | |

Calibration

The multimeter must be calibrated/verified **before and after** sample collection. In addition, the meter must be calibrated/verified for **all** field parameters that are to be measured and recorded.

Perform a three-point pH calibration. Record measured value for each buffer solution after calibration has been completed. In addition, record pH mV values.

| Calibration (Standard | Pre-Samp | ling Value | Post Samp | oling Value |
|--|-----------|---------------|-----------|---------------|
| Calibration/Standard | Temp (°C) | Result (s.u.) | Temp (°C) | Result (s.u.) |
| pH 4.0 Buffer Lot#: 2GI306 Exp Date: 9/2024 | | | | |
| pH 7.0 Buffer Lot#: 3ga766 Exp Date: 1/2025 | | | | |
| pH 10.0 Buffer Lot#: 3GA1134 Exp Date: 1/2025 | | | | |
| Conductivity Standard 1413 (μS/cm) Lot#: 3GB162 Exp Date: 2/2024 | | | | |

Attachment B: Well Construction and Yield Estimate Reports

| ı | | | | | | | | | |
|------------------------------|---------------------|--|------------------|---------------------------------------|----------------------|-----------------|----------------|---------------------|---------------------------------------|
| FORM NO. GWS-31 4/2012 | STATE C | F COLORADO 313 Sherman St. Main (303) 866- | 0000000 | THE CTATE | - ENGINEE | R e.co.us | RA-Mon 3 | r Office Use O | • |
| 1. WELL PI | ERMIT NUMBER: | - | 29953 | 37 Ide | ntified as: | NIX-VA | RRA-Mon 3 | HOW . | R _C |
| 2. WELL O | WNER INFORMAT | TION | | | | | | | |
| NAME OF | WELL OWNER: Va | rra Companie | s, Inc. | | | | - Per Tro | SCOURCES NOWEERS | |
| MAILING A | ADDRESS: 8120 Ga | ige Street | | | | | | NOW CE | |
| CITY: Fre | derick | STATE | ≣: CO | | ZIP CODE: | 80516 | ે ંગ્ | CHANGE CES | |
| TELEPHONE | E NUMBER w/area | code: | | | | | | | |
| . WELL LOC | CATION AS DRILLE | NE 1/4, N | <u>W</u> 1/4, Se | ec., <u>33</u> | _{Twp.} 3 x | N or S, | □ Range 67 | _ 🖾 E or | w 🗷 |
| DISTANCE | ES FROM SEC. LINE | S: <u>179</u> | ft. from 🔀 | Nor⊏Ss | section line a | ind <u>2592</u> | ft. from 🔲 | E or ⊠W s | ection line. |
| | ION: | | | | | | CK FIL | ING (UNIT) | |
| | GPS Location: GPS | | | | | | ر Owner's W | ell Designation | on: <u>P-11</u> |
| must be m | eters, Datum must b | e NAD83 , Unit | must be set t | o true N, | Zone 12 c | r Zone | 13 Easting: | | |
| STREET A | DDRESS AT WELL | LOCATION: N | lone assigne | ed | | | Northing: | | |
| | SURFACE ELEVATI | | | | DRILLING | METHOD D | irect Push | | |
| | MPLETED 08/06/20 | | | 1 44 | | _ | MPLETED 44 | feet | |
| . GEOLOGI | | | | · · · · · · · · · · · · · · · · · · · | 6. HOLE D | | | | To (ft) |
| Depth | Type | Grain Size | Color | Water Loc. | 2 | | 0 | 44 | |
| | | | | | 1 | | | | |
| | | | | | | | | | |
| | | | | | 7. PLAIN C | CASING: | | | |
| | | | | | OD (in) | Kind | Wall Size (in) | From (ft) | To (ft) |
| | | | | | 1 ' | | 0.133 | | 5 |
| | | | | | 1 | | <u> </u> | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | DEREOR | TED CASI | NG: Screen Slo | ot Size (in): | 0.010 |
| **** | | | | | 7 | | 0.133 | | |
| | | | | | 1.00 | 1_10 | 0.100 | | |
| | | - | | | | | | | |
| | | | <u> </u> | | 1 | | | | |
| | | | | | 8. FILTER | DACK: | a DACKE | R PLACEME | NT. |
| | | | | | 7 | Silica Sa | i ' | | 141. |
| | | | | | | 10-20 | <u>na</u> Type | | |
| | | | | | Size | 4-44 | — | | · · · · · · · · · · · · · · · · · · · |
| | | 1 | 1 | 1 | Interval | 4-44 | Depth | | |

10. GROUTING RECORD

Material Amount Density

Ben______

Remarks:

13. I have read the statements made herein and know the contents thereof, and they are true to my knowledge. This document is signed (or name entered if filing online) and certified in accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402-2. The filing of a document that contains false statements is a violation of section 37-91-108(1)(e), C.R.S., and is punishable by fines up to \$5000 and/or revocation of the contracting license. If filing online the State Engineer considers entering of licensed contractor name to be compliance with Rule 17.4

document that contains false statements is a violation of section 37-91-108(1)(e), C.R.S., and is punishable by fines up to \$5000 and/or revocation of the contracting license. If filing online the State Engineer considers entering of licensed contractor name to be compliance with Rule 17.4

Company Name:

DrillPro Services, Inc.

Phone w/area code:
303-280-5380

License Number:
N/A

Mailing Address: 2220 E. 74th Pl., Unit A, Denver, CO 80229

Remarks: direct push - no cuttings recovered

Sign (or enter name if filing online)
Blake Jones

Print Name and Title Blake Jones - President Date 11/05/2015

Placement

Interval

2-4 positive

WELL CONSTRUCTION AND YIELD ESTIMATE REPORT

| GWS-31 | 1313 | State of Color. Sherman St., Roo | | | - | 581 | | | |
|----------------------------------|--|-----------------------------------|-----------------|---------------|---------------------|---------------|--------------------|--------------------|-----------------|
| 02/2017 | | w.water.state.co | | | | | | | |
| 1. Well Permit | : Number: MH-059! | 597 | Receipt N | Number: | | | | | |
| | ell Designation: RM | | • | | | | | | |
| | Name: Ready Mixe | • | | | | | | | |
| 4. Well Location | on Street Address | :8133 County Ro | ad 28, Platte | eville, CO 80 | 651 | | | | |
| | Well Location (re | | | | | Northing: | | | |
| _ | _ocation: <u>SW</u> 1/ | 74, <u>SW</u> 1/4, S | Sec., <u>28</u> | Twp. 3 | ■ N or S | , Range_6 | 57 E | or W 💶, <u>6</u> | P.M. |
| County: <u>V</u> Subdivision: | | | | | , Lot | _, Block _ | , Fi | ling (Unit) _ | |
| 7. Ground Sur | face Elevation: 48 | 01 feet | Date Com | pleted: 06/ | 11/2019 | Drilling Met | hod: Hollow S | tem Auger | |
| 8. Completed | Aquifer Name: A | lluvial | Te | otal Depth: | 52 fe | eet De | pth Complete | d: <u>52</u> | feet |
| 9. Advance No | tification: Was No | otification Requi | red Prior to (| Construction | ? 🖪 Yes 🔲 | No, Date I | Notification Gi | ven: <u>05/10/</u> | 2019 |
| 10. Aquifer Ty | | One Confining La | | | Multiple Conf | • . | | | |
| (Check on | | (Not overlain by | Type III) | ☐Type II(| Overlain by | | | (alluvial/col | • |
| 11. Geologic I | | | | 1 | 12. Hole Di | ` |) Fro | om (ft) | To (ft) |
| Depth | Туре | Grain Size | Color | Water Loc. | | 8 | <u> </u> | 0 | 52 |
| 0-2 | Overburden sand | clayey sand | Brown | | ļ <u> </u> | | <u> </u> | | |
| 2 54 | sand same gravit | | + | 17 0' | 13. Plain Ca | cina | <u> </u> | | |
| 2-51 | sand, some gravl | | tan | 17.8' | OD (in) | Kind | Wall Size (in) | From (ft) | To (ft) |
| 51-52 | claystone | | grey | | 2 | PVC | Sch 40 | 42 | 2.5 ag |
| 31 32 | ctaystoric | | 5109 | | | | | | |
| | | | | | l ——— | | | | |
| | | | | | - | | | | |
| | | | | | Perforate | ed Casing Sc | reen Slot Size | (in): 0.010 | |
| | | | | | OD (in) | Kind | Wall Size (in) | | To (ft) |
| | | | | | 2 | PVC | Sch 40 | 52 | 42 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | 1 | | |
| | | | | | 14. Filter Pa | - | - | ker Placeme | - |
| | | | | | Material | Native | Туре | NA | _ |
| | | | | | Size Interval | 52-5 | . Donth | | |
| | | | | | 16. Grouting | | Depth | | _ |
| | | | | | Material | Amount | Density | Interval | Method |
| Remarks: | | | 0.40.40 | | Bentonite | | 20 | 5-1 | place & hydrate |
| wate | er measured be | low ground on | 16-13-19 | | cement | 1 sack | | 1-0 | place & trowel |
| | | | | | | | | | |
| 17. Disinfecti | on: Type NA | | | | Amt. Used | AN b | | | |
| | Estimate Data: | | Check bo | x if Test Dat | a is submitte | d on Form N | umber GWS-39 | , Well Yield | Test Report |
| | Estimate Method: | NA | | | | _ | | | |
| Static Leve | | | | | ield (gpm) <u>N</u> | | | | |
| Date/Time | measured: | time of drilling | | Estimate Le | ngth (hrs) N | <u> </u> | | | |
| Remarks: | | | | | | | | | |
| | he statements made h | | | | | | | | |
| | certified in accordance iolation of section 37 (| | | | | | | | |
| | er considers the entry | | | | | | ir or the contract | ing ticense. If | riting offittie |
| Company Name | <u> </u> | l _F | mail: | | | Phone w/ar | ea code: | License N | umber: |
| Civil Resource | | | gary@civilres | ources.com | | | 684-7221 | NA NA | |
| | s: P. O. Box 680 Fre | | | | | , -, | | | |
| | name if filing onlin | | _ | e and Title | | | | Date: | |
| Gary Linden | 5 · ···· | | | | ering Geologi | ist | | 06/12/20 | 110 |
| Cary Linden | | | 1 1 | 5 | 5 | | | 00/12/20 | 117 |

WELL CONSTRUCTION AND YIELD ESTIMATE REPORT

| GWS-31 | 1313 | State of Colora Sherman St Roo | | | - | 581 | | | | |
|----------------------------------|--|-----------------------------------|-----------------|---------------------|---------------------|---------------|------------|-------------|-----------------------|-----------------|
| 02/2017 | 1313 Sherman St., Room 821, Denver, CO 80203 303.866.3581 www.water.state.co.us and dwrpermitsonline@state.co.us | | | | | | | | | |
| 1. Well Permit | : Number: MH-059! | 597 | Receipt N | lumber: | | | | | | |
| | ell Designation: RM | | | · · · · · | | | | | | |
| 3. Well Owner | Name: Ready Mixe | ed Concrete Com | pany | | | | | | | |
| 4. Well Location | on Street Address: | 13505 County Ro | oad 19, Platt | eville, CO 80 | 0651 | | | | | |
| | Well Location (re | | | | | Northing: | | | | |
| _ | _ocation: <u>SE</u> 1/ | 4, <u>NE</u> 1/4, S | Sec., <u>28</u> | Twp. 3 | ■ N or S | , Range _6 | 57 | E or | W <u>■</u> , <u>6</u> | P.M. |
| County: <u>V</u> Subdivision: | Veld | | | | , Lot | _, Block _ | | , Filir | ng (Unit) | |
| 7. Ground Surf | face Elevation: 48 | 11 feet | Date Com | pleted: <u>06/2</u> | 21/2019 | Drilling Met | thod: _ | Hollow Ste | em Auger | |
| 8. Completed | Aquifer Name: A | lluvial | To | otal Depth: | 33 fe | eet De | pth Co | ompleted: | 33 | feet |
| 9. Advance No | tification: Was No | tification Requir | ed Prior to C | Construction | ? 🖪 Yes 🔲 | No, Date I | Notific | ation Give | en: <u>05/10/2</u> | 2019 |
| 10. Aquifer Ty | | One Confining La | • . | | Multiple Conf | | _ | Laramie-F | | |
| (Check one | | (Not overlain by | Type III) | ☐Type II (| Overlain by | | | | alluvial/coll | |
| 11. Geologic l | | | | | 12. Hole Di | • |) | From | | To (ft) |
| Depth | Туре | Grain Size | Color | Water Loc. | | 8 | _ | (|) | 33 |
| 0-3 | sandy clay | | Brown | | | | - | | | |
| 2.4 | cilty cand | | ton | | 13. Plain Ca | cina | _ | | | |
| 3-6 | silty sand | | tan | | OD (in) | Kind | Wall 9 | Size (in) | From (ft) | To (ft) |
| 6-12 | sandy clay | | brown | | 2 | PVC | | h 40 | 23 | 2.5 ag |
| 0 12 | sariay etay | | DIOWII | | | | | | | |
| 12-32 | sand and gravel | | tan | 12.8 | | | | | | |
| | <u> </u> | | | | | | | | | |
| 32-33 | claystone | | tan-grey | | Perforate | ed Casing Sc | reen S | lot Size (i | n): <u>0.010</u> | - |
| | | | | | OD (in) | Kind | | Size (in) | From (ft) | To (ft) |
| | | | | | 2 | PVC | Scl | า 40 | 33 | 23 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | 14. Filter Pa | - | | - | er Placeme | nt: |
| | | | | | Material | Native | - | Type | NA | - |
| | | | | | Size Interval | 33-5 | _ | Donth | | |
| | | | | | 16. Groutin | | | Depth | | _ |
| | | | | | Material | Amount | De | ensity | Interval | Method |
| Remarks: | | | 0.04.40 | | Bentonite | | | | 5-1 | place & hydrate |
| wate | er measured be | low ground on | 6-21-19 a | pprox. 6 | cement | 1 sack | | | 1-0 | place & trowel |
| nou | rs after drilling | | | | | | | | | |
| 17. Disinfection | on: Type NA | | | | Amt. Used | d NA | | | | |
| 18. Well Yield | Estimate Data: | | Check bo | x if Test Dat | a is submitte | d on Form N | lumber | GWS-39, | Well Yield | Test Report |
| Well Yield | Estimate Method: | NA | | | | _ | | | | |
| Static Leve | el: | | | | ield (gpm) <u>N</u> | | • | | | |
| Date/Time | measured: | | | Estimate Lei | ngth (hrs) N | A | | | | |
| Remarks: | | | | | | | | | | |
| | he statements made h | | | | | | | | | |
| | certified in accordance iolation of section 37 (| | | | | | | | | |
| | er considers the entry | | | | | | ii oi tiie | Contracting | g ticerise. If i | iting ontine |
| Company Name | <u> </u> | lf | mail: | | | Phone w/ar | ea cod | le: | License Nu | ımber: |
| Civil Resources | | | ary@civilres | ources.com | | | 684-7 | | NA NA | |
| | s: P. O. Box 680 Fre | | | | | / | | | 1 | |
| | name if filing onlin | | | e and Title | | | | | Date: | |
| Gary Linden | 5 · ···· | | 1 | | ering Geolog | ist | | | 06/21/20 | 10 |
| Cary Enden | | | | .570 | 3 - 3 - 3 - 3 | | | | 00/21/20 | 17 |

WELL CONSTRUCTION AND YIELD ESTIMATE REPORT

| GWS-31 | 1313 | State of Colora Sherman St. Roo | | | - | 581 | | | | |
|----------------------------------|---|---------------------------------|-----------------|--------------------|----------------------------|---------------|--------------|-------------|--------------------|-----------------|
| 02/2017 | 1313 Sherman St., Room 821, Denver, CO 80203 303.866.3581 www.water.state.co.us and dwrpermitsonline@state.co.us | | | | | | | | | |
| 1. Well Permit | Number: MH-059 | 597 | Receipt N | lumber: | | | | | | |
| | Il Designation: RM | | • | | | | | | | |
| 3. Well Owner | Name: Ready Mixe | ed Concrete Com | pany | | | | | | | |
| 4. Well Location | on Street Address | 13505 County Ro | oad 19, Platt | teville, CO 80 | 0651 | | | | | |
| 5. As Built GPS | Well Location (re | equired): 🔲 Zon | e 12 🔳 Zor | ne 13 Easting | g: 509465.0 | Northing: | | | | |
| _ | ocation: <u>NE</u> 1/ | 4, <u>NE</u> 1/4, S | Sec., <u>28</u> | Twp. 3 | ■ N or S | , Range_6 | 57 | E or | W 💽, <u>6</u> | P.M. |
| County: <u>V</u> Subdivision: | | | | | , Lot | _, Block | | —, Filiı | ng (Unit) | |
| 7. Ground Surf | face Elevation: 47 | 99 feet | Date Com | pleted: <u>06/</u> | 11/2019 | Drilling Met | hod: <u></u> | Iollow Ste | em Auger | |
| | Aquifer Name : A | | To | otal Depth: | 36.5 fe | eet De | pth Co | mpleted: | 36.5 | _ feet |
| 9. Advance No | tification: Was No | otification Requir | ed Prior to 0 | Construction | ? 🔳 Yes 🔲 | No, Date I | Notifica | tion Give | en: <u>05/10/2</u> | 2019 |
| 10. Aquifer Ty | pe: 🔲 Type I (| One Confining La | ıyer) | Type I (/ | Multiple Conf | ining Layers |) 🔲 | _aramie-l | ox Hills | |
| (Check one | e) Type II | (Not overlain by | Type III) | ☐Type II (| Overlain by 1 | | | Гуре III (а | alluvial/coll | .uvial) |
| 11. Geologic l | _og: | | | | 12. Hole Di | ameter (in. |) | From | ı (ft) | To (ft) |
| Depth | Туре | Grain Size | Color | Water Loc. | | 8 | | (|) | 36.5 |
| 0-4 | Overburden sand | | Brown | | | | | | | |
| 4-35.5 | sand, some gravl | | tan | 10.7' | 13. Plain Ca | sing | | | | |
| 1 33.3 | Jana, Joine grave | | can | 10.7 | OD (in) | Kind | Wall S | ize (in) | From (ft) | To (ft) |
| 35.5-36.5 | claystone | | grey | | 2 | PVC | Sch | | 26.5 | 2.5 ag |
| 33.3 30.3 | ctaystone | | 5,09 | | | | | | | |
| | | | | | l ——— | | | | | |
| | | | | | | | | | | |
| | | | | | Perforate | ed Casing Sc | reen Sl | ot Size (i | n): 0.010 | |
| | | | | | ize (in) | From (ft) | | | | |
| | | | | | 2 | PVC | Sch | 40 | 36.5 | 26.5 |
| | | | | | - | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | 14. Filter Pa | ack: | 1 | 15. Pack | er Placeme | nt: |
| | | | | | Material | Native | _ | Type | NA | _ |
| | | | | | Size | | _ | | | |
| | | | | | Interval | 36.5-5 | | Depth | | |
| | | | | | 16. Grouting | g Record | | | | |
| | | | | | Material | Amount | De | nsity | Interval | Method |
| Remarks: wate | er measured be | low ground on | 6-13-19 | | Bentonite | | | | 5-1 | place & hydrate |
| | | Ü | | | cement | 1 sack | | | 1-0 | place & trowel |
| 47 Disimforti | Time NA | | | | Amet Hear | J 114 | | | | |
| 17. Disinfection | | | Chock bo | y if Tost Dat | Amt. Used a is submitte | * | umbor | CWC 30 | Wall Viold | Tost Poport |
| | Estimate Data: Estimate Method: | NΔ | Пспеск ро | x II Test Dat | a is subillitte | u on Form N | umber | GW3-39, | well field | rest Report |
| Static Leve | | 114 | | Estimated V | ield (gpm) <u>N</u> | <u> </u> | | | | |
| | | time of drilling | | | | | • | | | |
| Date/Time | measured: | time or dritting | | Estimate Lei | ngth (hrs) N | <u> </u> | | | | |
| Remarks: | | <u> </u> | | | | | | | | |
| | he statements made he certified in accordance | | | | | | | | | |
| | olation of section 37 | | | | | | | | | |
| | r considers the entry | | | | | | - | | | <u>-</u> |
| Company Name | <u>;</u> | E | mail: | | | Phone w/ar | ea code | 2: | License Nu | ımber: |
| Civil Resource | s, LLC | g | ary@civilres | ources.com | | (720) | 684-72 | 21 | NA | |
| Mailing Address | S: P. O. Box 680 Fre | ederick, CO 8053 | 0 | | | | | | | |
| Sign (or enter r | name if filing onlin | e) | Print Name | e and Title | | | | | Date: | |
| Gary Linden Gary Linde | | | | en Sr Engine | ering Geologi | | 06/11/2019 | | | |

WELL CONSTRUCTION AND YIELD ESTIMATE REPORT

| GWS-31 | 1313 | | rado, Uttice (| | - | 581 | | | | |
|------------------------------|--|-----------------------|------------------|--------------------|---------------------------|--|----------|---------------|--------------------|---------------------------------------|
| 02/2017 | 1313 Sherman St., Room 821, Denver, CO 80203 303.866.3581 www.water.state.co.us and dwrpermitsonline@state.co.us | | | | | | | | | |
| 1. Well Permit | l t Number: MH-647(| | Receipt N | | | | | | | |
| | ell Designation: NIX | | | 141112011 | | | | | | |
| | Name: Ready Mixe | | npany | | | | | | | |
| | on Street Address: | | · · | , CO 80651 | | | | | | |
| 5. As Built GPS | S Well Location (re | equired): 🔲 Zo | ne 12 🔳 Zor | ne 13 Easting | g: 508949.1 | Northing: | 445037 | 79.11 | | |
| | Location: <u>NW</u> 1/ | 4, <u>NE</u> 1/4, | Sec., <u>28</u> | Twp.3 | ■ N or S | , Range | 67 | E or | · W 💽, <u>6</u> | P.M. |
| County: V | VELD | | | | | | | | • | |
| Subdivision: \underline{P} | arcel: 1209281000 | 11 | | | , Lot | _, Block _ | | —, Filir | ng (Unit) 28 | <u></u> |
| 7. Ground Sur | face Elevation: 479 | 98 fee | t Date Com | pleted: <u>04/</u> | 13/2023 | Drilling Me | thod: | 8" O.D. Ho | llow stem A | Auger |
| 8. Completed | Aquifer Name: <u>a</u> | lluvial | T | otal Depth: | <u>50</u> f | eet D e | epth C | ompleted: | : <u>50</u> | _ feet |
| | otification: Was No | | | | | | | | en: <u>04/10/2</u> | 2023 |
| 10. Aquifer Ty | | One Confining L | | | Multiple Con | | _ | Laramie-I | | |
| (Check on | | (Not overlain by | / Type III) | ☐Type II (| (Overlain by | | | • • • • | alluvial/coll | · · · · · · · · · · · · · · · · · · · |
| 11. Geologic | | C · C· | <u> </u> | I 1 | 12. Hole D | iameter (in. | .) | From | | To (ft) |
| Depth | Туре | Grain Size | Color | Water Loc. | | 8 | _ | |) | 50 |
| 0 | Overburden | | Brown | | | | _ | | | |
| 5 | Sand S. Cravel | | Brown | 10 | 13. Plain Ca | ncina | _ | | | |
| 10 15 | Sand & Gravel Gravel & Cobble | | Brown Brown | -10 | OD (in) | Kind | Wall | Size (in) | From (ft) | To (ft) |
| 20 | Gravel & Cobble | | Grey/ Brown | | 2 | PVC | | H.40 | 0 | 30 |
| 25 | Gravel & Cobble | | Grey/Brown | | l —— | | | | | |
| 30 | Sand & Gravel | | Brown | | | | | | | |
| 35 | Sand & Gravel | | Brown | | | | | | | |
| 40 | Sand & Gravel | | Brown | | Perforate | ed Casing S | creen | Slot Size (| in): 20 Slot | |
| 45 | Sand,Gravel,cobbl | | Brown | | OD (in) | Kind | Wall | Size (in) | From (ft) | To (ft) |
| 50 | Sand & Sandstone | | Brown | | 2 | PVC | SC | H.40 | 30 | 50 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | 14. Filter P | - | | · · | er Placeme | - |
| | | | | | Material | Silica San | <u></u> | Туре | N/A | _ |
| | | | | | Size | 10/20 | _ | l | N/A | |
| | | | | | Interval | <u>5-50</u> | | Depth | | = |
| | | | | | 16. Groutin | _ | _ | anaitu. | امسما | Mothod |
| Pomarks: D | | 405 | | | Material bentonite Chi | Amount of the Am | D | ensity | Interval 1-5 | Method Poured & Hydrated |
| Kelligi ks. Red | rock at approx. | 49ft. | | | Concrete | | | 0-1 | | Placed & Formed |
| | | | | | Concrete | 40(03 | | | U-1 | |
| 17. Disinfecti | on: Type N/A | | | | Amt. Use | d N/A | | | | |
| | Estimate Data: | | Check bo | x if Test Dat | | | lumbei | r GWS-39, | Well Yield | Test Report |
| | Estimate Method: | | | | | | | | | · |
| Static Leve | el: | | | Estimated Y | ield (gpm) _ | | _ | | | |
| Date/Time | | | | | | | | | | |
| Remarks: | | | | | | | | | | |
| 19. I have read t | the statements made h | nerein and know th | ne contents ther | reof, and they a | are true to my | knowledge. T | his doc | ument is sign | ned (or name | entered if |
| filing online) and | certified in accordance | e with Rule 17.4 o | of the Water We | ell Construction | Rules, 2 CCR | 402 2. The fili | ng of a | document t | hat contains f | false |
| | iolation of section 37 9 | | | | | | n of the | e contracting | g license. If 1 | filing online |
| the State Enginee | er considers the entry | or the ticensed co | ntractor's name | to be complia | nce with Kule ' | 17.4. | | | | |
| Company Name | | | Email: | | | Phone w/ar | | | License Nu | umber: |
| Civil Resources | - | | Noah@civilre | sources.com | | (720 | 245-4 | 1338 | N/A | |
| Mailing Address | | | | | | | | | _ | |
| Sign (or enter i | name if filing onlin | e) | I | e and Title | ronocris - T- | ch | | | Date: | |
| Noah Hagen | | | INOAN HAG | en, Field Eng | geneering re | CII. | | | 04/14/20 | 23 |
| 1 | | | 1 | | | | | | 1 | |

WELL CONSTRUCTION AND YIELD ESTIMATE REPORT

| GWS-31 | 4242 | State of Color | • | | - | F04 | | | | |
|----------------------------------|--|---------------------|-----------------|--------------------|---------------------|----------------|-----------|-------------|---------------------|-----------------|
| 02/2017 | 1313 Sherman St., Room 821, Denver, CO 80203 303.866.3581 www.water.state.co.us and dwrpermitsonline@state.co.us | | | | | | | | | |
| | | | | | | | | | | |
| | t Number: MH-0600 | | • | Number: | | | | | | |
| | ell Designation: RM | | | | | | | | | |
| | Name: Ready Mixe | | | | | | | | | |
| | on Street Address | | | | | | | | | |
| | S Well Location (re | | | | | Northing: | | | | |
| | Location: <u>NE</u> 1/ | 4, <u>NE</u> 1/4, S | Sec., <u>28</u> | Twp. 3 | N or S _ | , Range _ | 6/ | E OI | r W 💽, <u>6</u> | P.M. |
| County: \(\frac{\lambda}{\chi}\) | wela | | | | | | | | | |
| Subdivision: _ | | | | | , Lot | _, Block _ | | , Fili | ing (Unit) | |
| 7. Ground Sur | face Elevation: 47 | 98 feet | Date Com | pleted: <u>10/</u> | 16/2019 | Drilling Me | thod: | Hollow St | em Auger | |
| 8. Completed | Aquifer Name: A | ılluvial | T | otal Depth: | 31.5 fe | eet D e | epth Co | ompleted | l: <u>31</u> | _ feet |
| 9. Advance No | otification: Was No | otification Requi | red Prior to | Construction | ? 🖪 Yes 🔲 | No, Date | Notific | ation Give | en: <u>10/02/</u> 2 | 2019 |
| 10. Aquifer Ty | /pe: 🔲 Type I (| One Confining La | ayer) | Type I (| Multiple Conf | fining Layers | i) 🔲 | Laramie- | Fox Hills | |
| (Check on | e) 🔲 Type II | (Not overlain by | Type III) | ☐Type II(| Overlain by | Type III) | ⊡ | Type III (| alluvial/coll | luvial) |
| 11. Geologic | Log: | | | | 12. Hole Di | iameter (in | .) | Fron | n (ft) | To (ft) |
| Depth | Туре | Grain Size | Color | Water Loc. | 1 | 8 | | (| 0 | 31 |
| 0-4 | Overburden sand | | Brown | | | | | | | |
| | with clay | | | | | | _ | | | |
| 4-35.5 | sand, some gravl | | tan | 4' | 13. Plain Ca | asing | | | | |
| | | | | | OD (in) | Kind | Wall | Size (in) | From (ft) | To (ft) |
| 31-31.5 | sandstone | | grey | | 2 | PVC | Sc | h 40 | 11 | 3.0 ag |
| | | | <u> </u> | | 1 | | | | | |
| | | | | | 1 | | | | | |
| | | | | | l - | | | | | |
| | | | | | Perforate | ed Casing S | creen S | Slot Size (| in): <u>0.010</u> | |
| | | | | | OD (in) | Kind | | Size (in) | From (ft) | - (6.) |
| | | | | | 2 | PVC | | h 40 | 31 | 11 |
| | | | | | l —— | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | 14. Filter Pa | ack. | | 15 Pack | er Placeme | nt. |
| | | | | | Material | Native | | Type | NA | |
| | | | | | Size | Hatire | - | Турс | | - |
| | | | | | Interval | 31-5 | - | Depth | | |
| | | | | | 16. Groutin | | | рерии | | _ |
| | | | | | Material | Amount | D | ensity | Interval | Method |
| Remarks: | | <u> </u> | | | Bentonite | | <i>D</i> | crisity | 5-1 | place & hydrate |
| wat | er measured be | low ground or | า 10-16-19 | | | | | | 1-0 | place & trowel |
| | | | | | cement | 1 sack | | | 1-0 | place a trower |
| 17. Disinfecti | on: Type NA | | | | Amt. Used | d NA | | | | |
| | Estimate Data: | | Chack bo | y if Tost Dat | a is submitte | | lumboi | - C/WS-30 | Wall Viold | Test Penert |
| | Estimate Method: | NΛ | Пспеск рс | ix ii Test Dat | a is subillitte | d on ronn r | vuilibei | GW3-37, | well Held | rest keport |
| | | 11/4 | | Estimated V | iold (gpm) N | | | | | |
| Static Leve | | Line of duilling | | | ield (gpm) <u>N</u> | | - | | | |
| Date/Time | measured: | time of drilling | | Estimate Le | ngth (hrs) N | A | | | | |
| Remarks: | | | | | | | | | | |
| | the statements made h | | | | | | | | | |
| | certified in accordance | | | | | | | | | |
| | iolation of section 37 of Friconsiders the entry | | | | | | on of the | contractin | ig license. If i | riling online |
| | <u> </u> | | | . to be complia | nce with Nute 1 | | | | | |
| Company Name | | | Email: | | | Phone w/ai | | | License Nu | umber: |
| Civil Resource | s, LLC | ٤ | gary@civilres | sources.com | | (720 |) 684-7 | 221 | NA | |
| Mailing Addres | s: P. O. Box 680 Fre | ederick, CO 8053 | 30 | | | | | | | |
| Sign (or enter | name if filing onlin | e) | Print Nam | e and Title | | | | | Date: | |
| Gary Linden | | | Gary Lind | len Sr Engine | ering Geolog | ist | | | 10/23/20 | 19 |
| | 10/25/2019 | | | | | | | | | |

WELL CONSTRUCTION AND YIELD ESTIMATE REPORT

| GWS-31 | 1313 | State of Colora Sherman St. Roor | | | • | 581 | | | | |
|----------------------------------|---|--|----------------|--------------------|-----------------------|-------------------------------|--------------|------------|--------------------|-----------------|
| 02/2017 | 1313 Sherman St., Room 821, Denver, CO 80203 303.866.3581 www.water.state.co.us and dwrpermitsonline@state.co.us | | | | | | | | | |
| 1. Well Permit | : Number: MH-0600 | | Receipt N | lumber: | | | | | | |
| | ell Designation: RM | | • | | | | | | | |
| | Name: Ready Mixe | | | | | | | | | |
| | on Street Address: | | | | | | | | | |
| | Well Location (re | | | | | Northing: 4 | | | | |
| _ | Location: <u>NE</u> 1/ | 4, <u>NE</u> 1/4, Se | ec., <u>28</u> | Twp. 3 | N or S | , Range _6 | 57 | E or | W 💽, <u>6</u> | P.M. |
| County: <u>V</u> Subdivision: | | | | | , Lot | _, Block | | —, Filir | ng (Unit) | |
| 7. Ground Sur | face Elevation: 47 | 99 feet | Date Com | pleted: <u>10/</u> | 17/2019 | Drilling Met | hod: <u></u> | Hollow Ste | em Auger | |
| 8. Completed | Aquifer Name: A | lluvial | To | otal Depth: | 54.5 fe | | | mpleted: | | _ feet |
| | otification: Was No | | | | | | | | en: <u>10/02/2</u> | 2019 |
| 10. Aquifer Ty | · _ · | One Confining Lay | | | Multiple Conf | • . | _ | Laramie-F | | |
| (Check on | | (Not overlain by T | Type III) | ∐Type II (| Overlain by 1 | | | | alluvial/coll | |
| 11. Geologic | | Grain Size | Color | Water Loc. | 12. Hole Di | ameter (in. _. 8 |) | From | 1 (ft)) | To (ft) 54 |
| Depth 0-4 | Type | Grain Size | Color | water Loc. | | 0 | | | , | J4 |
| 0-4 | Overburden sand with clay | | Brown | | - | | | | | |
| 4-54 | sand, some gravl | | tan | 8' | 13. Plain Ca | sing | - | | | |
| 131 | Sana, Some grave | | cuii | | OD (in) | Kind | Wall S | ize (in) | From (ft) | To (ft) |
| 54-54.5 | silty sandstone | | grey | | 2 | PVC | | 1 40 ´ | 34 | 3.0 ag |
| | | | J - , | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | Perforated Casing Screen Slot Size (in): <u>0.0</u> | | | | | | | | n): <u>0.010</u> | |
| | | | | OD (in) Kind Wall | | | | | From (ft) | To (ft) |
| | | | | | 2 | PVC | Sch | 40 | 54 | 34 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | 14. Filter Pa | | Ī | 15 Packe | er Placeme | |
| | | | | | Material | Native | | Type | NA | 110. |
| | | | | | Size | | - | Турс | | - |
| | | | | | Interval | 54-9.5 | - | Depth | | |
| | | | | | 16. Grouting | | <u>I</u> | p | | - |
| | | | | | Material | Amount | De | ensity | Interval | Method |
| Remarks: | er measured be | low ground on | 10 17 10 | | Bentonite | 75 lbs | | | 9.5-1 | place & hydrate |
| wat | ei illeasureu be | low ground on | 10-17-19 | | cement | 1 sack | | | 1-0 | place & trowel |
| | | | | | | | | | | |
| 17. Disinfecti | | | | | Amt. Used | | | | | |
| | Estimate Data: | , IA | Check bo | x if Test Dat | a is submitte | d on Form N | umber | GWS-39, | Well Yield | Test Report |
| | Estimate Method: | INA | | F-+:+ | : al al (ara ara) N | | | | | |
| Static Leve | | time of drilling | | | ield (gpm) <u>N</u> | | | | | |
| | measured: | time of dritting | | Estimate Lei | ngth (hrs) N | 4 | | | | |
| Remarks: | | | | | | | | | | |
| | the statements made he certified in accordance | | | | | | | | | |
| | iolation of section 37 | | | | | | | | | |
| | er considers the entry | | | | | | | • | | |
| Company Name | e: | Er | mail: | | | Phone w/ar | ea cod | e: | License Nu | ımber: |
| Civil Resource | | ga | ary@civilres | ources.com | | (720) | 684-72 | 221 | NA | |
| Mailing Address | s: P. O. Box 680 Fre | ederick, CO 80530 |) | | | | | | | |
| Sign (or enter i | name if filing onlin | e) | Print Name | e and Title | | | | | Date: | |
| Gary Linden | | | Gary Lind | en Sr Engine | ering Geologi | ist | | | 10/23/20 | 19 |
| | | | | | | | | | 1 | |

WELL CONSTRUCTION AND YIELD ESTIMATE REPORT

| GWS-31 | 1313 | State of Colora Sherman St Rooi | | | - | 581 | | | | |
|----------------------------------|---|------------------------------------|----------------|--------------------|---------------------|-------------------|----------|-------------|--------------------|-----------------|
| 02/2017 | 1313 Sherman St., Room 821, Denver, CO 80203 303.866.3581 www.water.state.co.us and dwrpermitsonline@state.co.us | | | | | | | | | |
| 1. Well Permit | : Number: MH-0600 | 094 | Receipt N | lumber: | | | | | | |
| | ell Designation: RM | | | | | | | | | |
| | Name: Ready Mixe | | | | | | | | | |
| | on Street Address: | | | | | | | | | |
| | Well Location (re | | | | | Northing: 4 | | | | |
| _ | _ocation: <u>SE</u> 1/ | 4, <u>NE</u> 1/4, Se | ec., <u>28</u> | Twp. <u>3</u> | ■ N or S | | 57 | E or | W 💽, <u>6</u> | P.M. |
| County: <u>V</u> Subdivision: | | | | | , Lot | _, Block | | —, Filiı | ng (Unit) | |
| 7. Ground Sur | face Elevation: 480 | 05 feet | Date Com | pleted: <u>10/</u> | 17/2019 | Drilling Met | hod: | Hollow Ste | em Auger | |
| 8. Completed | Aquifer Name: 💆 | lluvial | То | otal Depth: | 52.3 fe | eet De | pth Co | mpleted | 52 | feet |
| 9. Advance No | tification: Was No | otification Require | ed Prior to C | Construction | ? 🔳 Yes 🔲 | No, Date I | Notifica | ation Give | en: <u>10/02/2</u> | .019 |
| 10. Aquifer Ty | | One Confining Lay | | | Multiple Conf | • . | _ | Laramie-I | | |
| (Check on | | (Not overlain by T | Type III) | ☐Type II (| Overlain by | | | | alluvial/coll | · · |
| 11. Geologic I | | | | | 12. Hole Di | • |) | From | , , | To (ft) |
| Depth | Туре | Grain Size | Color | Water Loc. | | 8 | | (|) | 52 |
| 0-10.5 | Overburden sand | | Brown | | | | | | | |
| 40 5 52 | with clay | | | 7 1 | 13. Plain Ca | ain a | | | | |
| 10.5-52 | sand, some gravl | | tan | 6' | OD (in) | Kind | Wall C | ize (in) | From (ft) | To (ft) |
| 52-52.3 | silty sandstone | | grey | | 2 | PVC | | n 40 | 32 | 2.5ag |
| 32-32.3 | sitty salidstolle | | grey | | | . , , | JC1 | 1 10 | <u> </u> | 5 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | Perforate | ed Casing Sc | reen S | lot Size (i | n): 0.010 | |
| | | | | ize (in) | From (ft) | To (ft) | | | | |
| | | | | | OD (in) 2 | PVC | | 1 40 Č | 52 ` | 32 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | 14. Filter Pa | ack: | | 15. Pack | er Placeme | nt: |
| | | | | | Material | Native | _ | Type | NA | - |
| | | | | | Size | | . | | | |
| | | | | | Interval | 52-5.5 | | Depth | | = |
| | | | | | 16. Grouting | _ | | | | |
| | | | | | Material | Amount | De | ensity | Interval | Method |
| Remarks: wate | er measured be | low ground on | 10-17-19 | | Bentonite 75 lbs | | | 5.5- | | place & hydrate |
| | | · · | | | cement | 1 sack | | | 1-0 | place & trowel |
| 17 Disinfosti | on. Type NA | | | | Amt. Used | 4 717 | | | | |
| 17. Disinfection 18. Well Vield | Estimate Data: | 1 | Check bo | v if Test Dat | a is submitte | | umber | GWS-39 | Well Yield | Test Report |
| | Estimate Method: | NA | епеск во | X II TCSC Dat | a is subilified | u 011 1 01111 1 1 | unibei | G113 37, | Well Field | rest report |
| Static Leve | | | | Estimated Y | ield (gpm) <u>N</u> | Δ | | | | |
| | | time of drilling | | | ngth (hrs) N | | | | | |
| Remarks: | illeasureu. | | | Listimate Lei | igeii (iii3) | <u> </u> | | | | |
| | ha stataments made h | orgin and know the | contonts than | and thou | ro truo to my l | raculadas Th | sic docu | mont is sig | and (or name | antarad if |
| | he statements made h certified in accordance | | | | | | | | | |
| | iolation of section 37 | | | | | | | | | |
| the State Enginee | er considers the entry | of the licensed contr | ractor's name | to be complia | nce with Rule 1 | 7.4. | | | | |
| Company Name | 2: | Er | mail: | | | Phone w/ar | ea cod | e: | License Nu | ımber: |
| Civil Resource | | ga | ary@civilres | ources.com | | (720) | 684-7 | 221 | NA | |
| Mailing Address | s: P. O. Box 680 Fre | ederick, CO 80530 |) | | | | | | • | |
| | name if filing onlin | | | e and Title | | | | | Date: | |
| Gary Linden | _ | | Gary Lind | en Sr Engine | ering Geologi | ist | | | 10/23/2019 | |
| Cary Emden | | | | 3 | | | | | 10/23/20 | 17 |

WELL CONSTRUCTION AND YIELD ESTIMATE REPORT

| GWS-31 | 4242 | State of Color | | | - | -04 | | | | |
|-----------------------------|---|-------------------|----------------|----------------|---------------------|----------------|---------|--------------|--------------------|-----------------|
| 02/2017 | 1313 Sherman St., Room 821, Denver, CO 80203 303.866.3581 www.water.state.co.us and dwrpermitsonline@state.co.us | | | | | | | | | |
| | | | | | ewstate.co.u | 15 | | | | |
| | t Number: MH-0600 ell Designation: RM | | Receipt N | Number: | | | | | | |
| | Name: Ready Mixe | | | | | | | | | |
| | on Street Address | | | teville (0.8) | 0651 | | | | | |
| | S Well Location (re | | | | | Northing: | 44496 | 22 | | |
| | Location: SW 1/ | | | | | | | | - W 💽, 6 | P.M. |
| County: V | Weld | | | | | | | | | |
| Subdivision: $\underline{}$ | | | | | , Lot | _, Block _ | | , Fili | ng (Unit) | |
| 7. Ground Sur | face Elevation: 48 | 00 feet | Date Com | pleted: 10/ | 17/2019 | Drilling Met | hod: | Hollow St | em Auger | |
| 8. Completed | Aquifer Name : | lluvial | T | otal Depth: | 52.5 fe | eet De | pth C | ompleted | <u>52</u> | feet |
| 9. Advance No | otification: Was No | otification Requi | red Prior to (| Construction | ? 🔳 Yes 🔲 | No, Date I | Notific | ation Give | en: <u>10/02/2</u> | .019 |
| 10. Aquifer Ty | | One Confining L | - / | | Multiple Conf | • , | _ | Laramie- | | |
| (Check on | | (Not overlain by | Type III) | ☐Type II (| Overlain by | | | | alluvial/coll | |
| 11. Geologic | | | | T | 12. Hole Di | • |) | | n (ft) | To (ft) |
| Depth | Туре | Grain Size | Color | Water Loc. | | 8 | - | | 0 | 52 |
| 0-3 | Overburden sand | | Brown | | | | - | | | |
| 2 52 | with clay | | ton | 10' | 13. Plain Ca | cina | _ | | | |
| 3-52 | sand, some gravl | | tan | 10' | OD (in) | Kind | Wall | Size (in) | From (ft) | To (ft) |
| 52-52.5 | silty sandstone | | grey | | 2 | PVC | | :h 40 | 32 | 2.5ag |
| 32 32.3 | sitty sandstone | | 5109 | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | Perforate | ed Casing Sc | reen S | Slot Size (i | in): <u>0.010</u> | - |
| | | | | | OD (in) | Kind | | Size (in) | From (ft) | To (ft) |
| | | | | | 2 | PVC | Sc | h 40 | 52 | 32 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | 44 511 8 | | | 45 5 1 | - DI | |
| | | | | | 14. Filter Pa | ack: Native | | | er Placeme | nt: |
| | | | | | Material Size | Native | - | Туре | NA | • |
| | | | | | Interval | 52-8 | - | Depth | | |
| | | | | | 16. Groutin | | | рерит | | - |
| | | | | | Material | Amount | D | ensity | Interval | Method |
| Remarks: | | l | - 40 47 40 | | Bentonite | | | , | 8-1 | place & hydrate |
| wat | er measured be | iow ground or | 1 10-17-19 | | cement | 1 sack | | | 1-0 | place & trowel |
| | | | | | | | | | | |
| 17. Disinfecti | | | | | Amt. Used | | | | | |
| | Estimate Data: | | Check bo | ox if Test Dat | a is submitte | d on Form N | umbei | r GWS-39, | Well Yield | Test Report |
| | Estimate Method: | NA | | I= | | _ | | | | |
| Static Leve | | | | | ield (gpm) <u>N</u> | | | | | |
| | measured: | time of drilling | | Estimate Le | ngth (hrs) N | A | | | | |
| Remarks: | | | | | | | | | | |
| | the statements made I | | | | | | | | | |
| | certified in accordance iolation of section 37 | | | | | | | | | |
| | er considers the entry | | | | | | | | J | |
| Company Name | e: | Ir | Email: | | | Phone w/ar | ea coc | le: | License Nu | ımber: |
| Civil Resource | | | gary@civilres | sources.com | | | 684-7 | | NA NA | |
| | s: P. O. Box 680 Fre | | | | | <u> </u> | | | 1 | |
| | name if filing onlin | | | e and Title | | | | | Date: | |
| Gary Linden | 5 | , | | | ering Geolog | ist | | | | 10 |
| Jai y Lilidell | | | 5 - 50.05 | - | | 10/23/2019 | | | | |