David W. Bieber
Manager of Geology/Survey

December 23, 2021

Tim Cazier
Colorado Division of Reclamation, Mining and Safety
1313 Sherman Street
Denver, Colorado 80203

Re: Parkdale Quarry, Permit No. M-1997-054; Response to Third Adequacy Review for 112 Construction Materials Reclamation Permit Amendment Application (AM-02),

Dear Mr. Cazier.

Front Range Aggregates, LLC. received a copy of the Division of Reclamation, Mining and Safety's (DRMS) forth adequacy review for our 112 Construction Materials Reclamation Permit Amendment Application (AM-02) for the Parkdale Quarry, Permit No. M-1997-054 dated December 23, 2021. Please see the following responses, and the referenced supporting documentation for our responses.

6.4.6 EXHIBIT G – Water Information

23. Groundwater: The DRMS has the following comments based on the revised Exhibit G submitted on November 16, 2021.

A. General Comments:

i. Section 4.2.1 – Remove direction reference "southeast" from this paragraph – it conflicts with the surface topography arrows on Figure 5.

Response: The direction reference to "southeast" has been removed from the paragraph noted in Section 4.2.1. The sentence now reads "The apparent direction of groundwater flow is away from Cactus Mountain and toward the Arkansas River."

ii. Section 4.2.3 – Remove sentence "The gross alpha radiation level was corrected for Uranium, but was not corrected for Radon as specified in Table 1 of the Interim Narrative Standard." This data should also be removed from Table 7 as the applicant does not have the Radon data to allow it to be properly calculated and compared against the applicable standard. Applicant will need to collect necessary radionuclide data to compare properly against applicable standards.

Response: The sentence "The gross alpha radiation level was corrected for Uranium, but was not corrected for Radon as specified in Table 1 of the Interim Narrative Standard." has been removed from Section 4.2.3 and that data has been removed from Table 7.

iii. Section 5.2 - Remove discussion of setting standards for radionuclides in fourth paragraph of this section beginning with "The maximum concentration/activity." DRMS will evaluate radionuclide data and apply the Interim Narrative Standard as appropriate after a minimum of five full quarters of data are collected and submitted.

Response: The discussion of setting standards for radionuclides in the fourth paragraph of Section 5.2 beginning with "The maximum concentration/activity" has been removed.

iv. Section 5.2.2 – Include statement that "All non-dedicated sampling equipment will be appropriately decontaminated prior to sampling and between sampling locations."

Response: The statement that "All non-dedicated sampling equipment will be appropriately decontaminated

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prior to sampling and between sampling locations." has been added to Section 5.2.2.

v. Section 5.2.2 – Include statement that "All samples will be collected in appropriate containers, preserved as required by method, and maintained and shipped at appropriate temperatures and within appropriate holding times as specified by the laboratory and/or analytical method.

Response: The statement that "All samples will be collected in appropriate containers, preserved as required by method, and maintained and shipped at appropriate temperatures and within appropriate holding times as specified by the laboratory and/or analytical method." has been added to Section 5.2.2.

vi. Any changes made to the contents of the following tables should be accurately reflected in the text of the plan where necessary. Surface water monitoring locations on Currant Creek and Tallahassee Creeks are inconsistently named with respect to upstream and downstream locations. In order to avoid future potential confusion, please rename/renumber the locations such that they consistently increase in the downstream direction.

Response: Changes made to the contents of Tables 7, 8, and 9 should now be accurately reflected in the text of the plan.

The comment "Surface water monitoring locations on Currant Creek and Tallahassee Creeks are inconsistently named with respect to upstream and downstream locations. In order to avoid future potential confusion, please rename/renumber the locations such that they consistently increase in the downstream direction." appears to be a carryover from the December 10 adequacy review, as the monitoring location numbering was revised in the December 10 revision to Exhibit G and remains so in the current revision dated December 23, 2021.

B. Table 7 Comments:

i. Parameter heading has typo "fotenote"

Response: The Parameter heading typo "fotenote" has been corrected to "Footnote."

ii. The row identified in this table as Gross Alpha should be referred to as "Total Alpha Activity".

Response: The row identified in Table 7 as "Gross Alpha" has been changed to "Total Alpha Activity." The text in Section 4.2.3 has been updated to remove the reference to gross alpha in the sentence and now reads "The samples indicate that groundwater in granite has near neutral pH (6.64-7.71), low to moderate concentrations of total dissolved solids (318-437 mg/l), and meets water quality standards for the monitored parameters with the exceptions of uranium and radium (Table 7). The reported total alpha activity levels exceeded the Gross Alpha standards referenced in CDPHE Regulation 41 but were not corrected for uranium or radon, so cannot be used to quantify Regulation 41 Gross Alpha levels."

iii. "Adjusted Gross Alpha" should be referred to as "Gross Alpha – Reg 41" to eliminate confusion with respect to which values should be compared to Regulation 41. The footnote for this row should specify how this value is obtained (by excluding alpha activity from Radon and Uranium from the total alpha activity).

Response: As per (iv) below, the Adjusted Gross Alpha Row has been removed from Table 7 and the explanatory footnote Total Alpha Activity has been edited to read "The total alpha activity level must be corrected to calculate adjusted gross alpha -Reg 41 levels. The adjusted gross alpha - Reg 41 water quality standard is based on Gross Alpha Activity less uranium and radon and is 15 pCi/L. Only limited uranium

analysis and no radon analysis was performed on the samples, so adjusted gross alpha – Reg 41 levels are not available." Total Alpha Activity has been added to Table 9 and the explanation of adjusted gross alpha – Reg 41 has been added to Footnote (5) in Table 9, as well.

iv. Data currently shown in the Adjusted Gross Alpha row should be removed - no Radon data was collected and therefore this value cannot be properly calculated and shown relative to the applicable standard. The row can be retained as a place-holder for future properly calculated data.

Response: The Adjusted Gross Alpha row has been removed from Table 7.

v. Only one value of 15 pCi/L needs to be shown in the Standards box for Gross Alpha – Reg 41

Response: Since the "Gross Alpha" row has been deleted, a note has been added to Footnote (2) of Table 7 that "The adjusted gross alpha - Reg 41 water quality standard is based on Gross Alpha Activity less uranium and radon and is 15 pCi/L."

vi. First sentence in Footnote 2 should be removed.

Response: The sentence "The adjusted gross alpha level is the total alpha activity corrected for the uranium concentration." has been removed from Footnote (2) of Table 7.

vii. Please provide a reference for the Gross Beta "screening level" of 50 pCi/L shown in Table 7, and make sure all values above 50pCi/L are properly shaded. For consistency, please continue to collect and report gross beta activity level data for all background sampling events.

Response: The Gross Beta "screening level" of 50 pCi/L shown in Table 7 is a U.S. Environmental Protection Agency (USEPA) screening level that approximates the Maximum Contaminant Level (MCL) of 4 millirem per year (USEPA Environmental Radiation Data Report 116, 402-R-03-009). All values above 50pCi/L are properly shaded and the values presented in bold text for consistency. FRA will continue to collect and report gross beta activity level data for all background sampling events.

viii. There should be no standard value shown or data highlighted/shaded/footnoted for Radium 226 or Radium 228 levels. The standard of 5 pCi/L applies to Total Radium and the data presented in the Total Radium row is correct as shown.

Response: viii. The standard value shown for Radium 226 or Radium 228 levels has been deleted from Table 7 and the values exceeding 5 pCi/L are no longer highlighted/shaded/footnoted.

ix. Text for footnote 3 appears to be clipped/incomplete.

Response: The clipped text has been placed back into Footnote (3) of Table 7 so that it now reads "Whenever a range of standards is listed and referenced to this footnote, the first number in the range is a strictly health-based value, based on the Colorado Water Quality Control Commission's established methodology for human health-based standards. The second number in the range is a maximum contaminant level, established under the federal Safe Drinking Water Act that has been determined to be an acceptable level of this chemical in public water supplies, taking treatability and laboratory detection limits into account."

x. Footnote 4 should be eliminated.

Response: Footnote 4 of Table 7 has been eliminated and the footnotes renumbered accordingly.

C. Table 8 Comment: Both the Monitoring Frequency and Monitored Parameters columns can be removed. The Monitoring Frequency column has the same statement for all locations, and the Monitored Parameters column entries only differ between surface and groundwater locations and these parameters are provided in Table 9.

Response: The Monitoring Frequency and Monitored Parameters columns have been removed from Table 8.

D. Table 9 Comments:

i. Delete " ' " in front of Table name.

Response: The " ' " in front of Table has been removed.

ii. It would be very helpful to divide Table 9 into sections as was done in Table 7 (Field parameters, Solution Parameters/Major Ions, Nutrients, Dissolved Metals, and Radionuclides). This makes data comparison much easier, and Table 7 presents radionuclide data in a more coherent way.

Response: Table 9 has been divided into sections as was done in Table 7.

iii. For Total Suspended Solids replace "R" with "value recorded and reported" (as in above columns) for consistency and remove footnote for "R."

Response: For Total Suspended Solids in Table 9, the "R" has been replaced with "value recorded and reported" (as in above columns) for consistency and the footnote for "R" has been removed

iv. Add units for Radon (pCi/L) and a footnote for Radon stating that although no standard has been established for Radon activity, the data is required to properly calculate Gross Alpha per Reg 41 requirements.

Response: iv. Radon units (pCi/L) have been added and a footnote for Radon added as Footnote (4) stating that although no standard has been established for Radon activity, the data is required to properly calculate Gross Alpha per Reg 41 requirements.

v. Present Alpha activity data consistent with format in Table 7 - See comments for Table 7.

Response: The alpha activity data in Table 9 has been changed to be consistent with that in Table 7 (Gross Alpha has been changed to Total Alpha Activity).

vi. Make sure that Uranium activity levels and Radium 226/228 activity levels are included as part of this table (like in Table 7) as they are needed to properly calculate "Gross Alpha – Reg 41" for comparison to the standard.

Response: Uranium activity levels and Radium 226/228 activity levels are included as part of Table 9 (like in Table 7).

vii. Until all five quarters of background data are collected, Gross Beta activity data should be

presented consistently with existing data in Table 7, and compared to "screening level" of 50 pCi/L. It should can be noted in footnotes that the Reg 41 standard is a dose-based standard of 4 mrem/yr.

Response: Gross Beta activity has been added to Table 9 consistent with existing data in Table 7

viii. Text after first sentence in Note (1) is not applicable to Table 9, and should be removed and placed into text of report (or Table 8 if Table 8 is retained) MW3 is also incorrectly referred to in this note as upgradient.

Response: Text after first sentence in Note (1) of Table 9 has been removed and placed into Section 5.2 of the report and as a Note (2) in Table 8. The reference to upgradient well MW-3 in the note has been corrected to MW-4 in Note (2) of Table 8.

ix. Note 2 does not seem to be applicable to Table 9, this text should be moved to surface water monitoring locations section of report.

Response: The text of Note (2) has been removed from Table 9 and added to Section 5.1 of the report and added as Note (1) of Table 8. The notes that followed Note (2) have been renumbered Accordingly.

x. Note 5 needs to be corrected as previously to be consistent with Table 7.

Response: Note 5 of Table 9 has been corrected to read "The Adjusted Gross Alpha - Reg 41 water quality standard is based on Gross Alpha Activity less uranium and radon."

6.5 GEOTECHNICAL STABILITY EXHIBIT

E. Geotechnical Stability Exhibit: The Factor of Safety results in Tables 2 (Planar and Topple Failures) and 3 (Wedge Failures) provided in the December 21 version differ from the results in those same two tables submitted on December 10th. Please explain why the results changed, in some cases significantly, between the two versions of the Exhibit.

Response: The Factor of Safety results presented in the December 10th version assumed that fractures were fully saturated with water. However, the fractures observed in outcrops and quarry faces were dry or otherwise contained minimal water. Therefore, the Factor of Safety analysis was rerun to better reflect observed conditions, which yielded the higher Factor of Safety values reported in the December 21st version.

If you have questions about this response, please contact me at (720) 245-6423 or e-mail at david.bieber@martinmarietta.com.

Sincerely,

Front Range Aggregates, LLC

David Bieber, PG

Attachments:

Exhibit G - Parkdale Groundwater Monitoring Mitigation Plan - 12232021

MONITORING AND MITIGATION PLAN FOR SURFACE WATER AND GROUNDWATER

PARKDALE QUARRY

Prepared for

Prepared by

David W. Bieber. PG
Manager of Geology/Survey
Martin Marietta West Division
1627 Cole Blvd., Ste 200
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December 23, 2021

Table of Contents

LIST OF FIGURES

LIST OF TABLES

LIST OF APPENDICES

1. INTRODUCTION

Front Range Aggregates, LLC (Front Range) proposes to expand their current mining operation north onto public lands owned by the United States and managed by the Department of Interior, Bureau of Land Management (BLM). The currently permitted mining area encompasses approximately 513.2 acres. The current mining permit boundary includes approximately 103 acres where Precambrian granite crops out at the surface, approximately 65 acres of which are permitted for mining. The expansion area (BLM Permit Area) is made up of approximately 1,400 acres. The BLM Permit Area includes an approximate 700-acre granite disturbance/active mining area (BLM Mining Area) bordered on the east, north, and west by an approximate 700 total acre buffer area where mining-related disturbance will not occur (Buffer Area). The existing quarry and BLM Permit Area (overall mining area) are located in Fremont County, Colorado, about nine miles northwest of Cañon City. The general location of the Parkdale Quarry is shown on the Site Location Map (Figure 1) and the relative location of the areas making up the quarry are shown on the Land Ownership and Site Layout (Figure 2). This Surface and Groundwater Mitigation and Monitoring Plan (MMP) is being developed in cooperation with the Colorado Division of Reclamation, Mining and Safety (DRMS) to address the following topics:

1. Monitoring of surface water and groundwater quality including data collection that will be used to support adaptive management of mining practices as necessary.
2. Monitoring of groundwater availability to detect changes in groundwater levels that could adversely affect water supplies near the Permit Area. In the event that potentially adverse impacts are detected, the mine operator will initiate a focused analysis in coordination with applicable regulatory agencies to determine if the impacts are related to mining activities at the Parkdale Quarry. If impacts are determined to be the result of mining of the Parkdale Quarry, the operator will initiate actions for timely replacement of mining-affected water supplies.

2. DESCRIPTION OF OPERATIONS

The Parkdale Quarry has operated since 1997 and produces construction aggregate, railroad ballast, and rip rap from an alluvial deposit and granite bedrock located on private land north of the Arkansas River (Figure 2). The majority of current activities occur from an approximately 65-acre area of granitic bedrock near the northeast corner of the private land. Water for the quarryis groundwater that collects in the alluvial pit and is augmented through an approved Substitute Water Supply Plan (SWSP). The mine currently uses about 1,500 gallons per minute (gpm) of water at the wash plant, most of which is recycled. About 14 gpm is also applied to haul roads for dust control. Future mined material will be transported from the mining area to the processing plant by conveyor, so trucking distances will be similar to current conditions. As new aggregate processing equipment is added, equipment and processing procedures that utilize water conservation technology will be incorporated. As a result, water usage for the quarry expansion will be similar to current usage and will be obtained from the same sources.

The quarry expansion on BLM land will be developed in five phases that progress from northwest to southeast over the projected 100-year plus mine life. The phases include the West Pit, West Central Pit, Central Pit, East Central Pit, and the East Pit (Figure 2). Development of the haul road accessing the West Pit is scheduled to begin in 2022, with pit development and production mining starting in 2024. Mining will be conducted using standard hillside mining techniques that employ blasting to fracture the granitic bedrock followed byexcavation and loading onto haul trucks for transport to a dump hopper feeding the conveyor facilities.

Groundwater monitoring data indicates that the quarry expansion will be partially developed below the existing water table in the Mining Area as shown in the cross-sections depicting the granite pit, Figures 3A and 3B. The predicted groundwater inflow during operation ranges from about 15 to 27 gpm (ERM 2019 and Whetstone 2019) and is low enough that active dewatering of bedrock in advance of mining will not be required. Free flowing groundwater and stormwater that enters the quarry will be routed to settling ponds for infiltration ordischarge to Currant or Tallahassee Creek per the approved Colorado Department of Public Health and the Environment (CDPHE) Colorado Discharge Permit System (CDPS) Discharge Permit.

Surface disturbances will be reclaimed concurrently with mining. Final reclamationof the site will be conducted in accordance with the Mining and Reclamation Plan (Martin Marietta2019) and applicable requirements of existing Colorado Division of Reclamation and Mine Safety and Fremont County permits, and BLM. Final reclamation will include abandonment of monitoring wells used for the operation in accordance with procedures set forth by the Colorado Division of Water Resources.

3. MONITORING AND MITIGATION PLAN OBJECTIVES

The MMP is intended to provide a systematic framework for the collection of surface water and groundwater data for the Parkdale Quarry. The objectives of the MMP are to:

1. Identify and describe streams, springs, and groundwater within one-mile of, but outside of the permit boundary that could be negatively impacted by the quarry expansion.
2. Describe the methodology and list the stations that will be used to monitor surface water and groundwater, in and adjacent to, the Permit Area.
3. Establish the schedule for surface water and groundwater quality monitoring.
4. Specify analytes for analysis of water quality samples.
5. Establish a framework for the review and reporting of collected data to facilitate decision making for adaptive management of mining operations and mitigation to water resources if needed.
6. Describe mitigation measures that will be implemented in the event that adverse impacts to water resources occur from expansion of the quarry.

4. HYDROLOGIC SETTING

4.1 Surface Water

The overall mining area is located on the flank of Cactus Mountain and drains southwest toward Currant and Tallahassee Creeks. Drainages within the planned Mining Area are intermittent or ephemeral and flow for limited periods during most years in response to direct precipitation and snowmelt. One perennial stream and four springs occur within the BLM Permit Area boundary, along with one perennial stream in the current permit area (Figure 4). The streams include Currant Creek in the buffer area of the BLM Permit Area and Tallahassee Creek within the current permit boundary. The springs include Cactus Mountain Spring, Cactus Mountain South Spring, and Parkdale South Spring which are located in the Mining Area, and Parkdale Spring located in the Buffer Area. An additional five springs are located within one-mile of the BLM Mining Area, but outside of the Project boundary (Figure 4).

4.1.1 Currant Creek

Currant Creek is a perennial stream that flows south through the Buffer Area, approximately 1,000 feet west of the western portion of the BLM Mining Area, to its confluence with Tallahassee Creek. The stream channel iswithin the Buffer Area, is separated from the Mining Area for the planned quarry by an approximate 200 to 300-foot tall ridgeline, and will not be disturbed by the mining operation. Designated beneficial uses of Currant Creek include Class 1 Coldwater Aquatic Life, Existing Recreation, Agriculture, and Water Supply. Streamflow and water quality data for Currant Creek are available from three stations located above its confluence with Cottonwood Creek (Figure 4). Stations 07094090 and 383150105225500 were monitored by the USGS. Station 21COL001-7110 was monitored by CDPHE. Available data from the stations on Currant Creek are presented in Appendix B of this report, in Appendix F of the Draft Environmental Impact Statement Parkdale Mineral Materials Competitive Sale DOI-BLM-CO-F020-2019-0013-EIS (BLM 2020b), in Appendix F of the Final Environmental Impact Statement for the Proposed Competitive Mineral Materials Sale (COC-078119) at Parkdale, Fremont County, Colorado (BLM 2020c), and are summarized in Table 1. The monitored parameters did not meet all applicable water quality standards in 5 CCR 1002-31 and 1002-3 of the Colorado Code of Regulations. Constituents reported to exceed water quality standards in Currant Creek include the following:

- Alpha Particles, which exceeded the domestic water supply standard in ten of twelve samples tested; and
- Chromium, which exceeded the standards for aquatic life in three of ten samples tested.

The mainstem of Currant Creek from its source in Park County to the confluence of Tallahassee Creek is not 303 (d)listed in the 2020 Colorado Integrated Report (CDPHE 2020a) and is assessed as meeting all of its designated beneficial uses.

4.1.2 Tallahassee Creek

Tallahassee Creek is a perennial stream that flows southeast through the existingpermit area to its confluence with the Arkansas River. Though classified as a perennial stream in the USGS National Hydrography Dataset, most years during summer months, Tallahassee Creek is an intermittent stream from downstream of the confluence of Currant Creek to where Tallahassee Creek enters the

Arkansas River. The stream channel for TallahasseeCreek will not be modified within the Mining Area, but disturbance of the creek may periodically occur on private land during operation of the quarry. Designated beneficial uses of Tallahassee Creek include Class 1 Coldwater Aquatic Life, Existing Recreation, Agriculture, and Water Supply. Streamflow and water quality data for Tallahassee Creek are available from four stations (Figure 4). Stations 07094300 and 382917105225200 were monitored by the USGS and arelocated above the confluences of Currant Creek and the Arkansas River, respectively. Stations 21COL001-Tallahassee04 and 21COL001-7115 are located above and below the confluence of Currant Creek, respectively, and were monitored by CDPHE. Available data from the stations are presented in Appendix F of the Final Environmental Impact Statement for the Proposed Competitive Mineral Materials Sale (COC-078119) at Parkdale, Fremont County, Colorado (BLM 2020b) and are summarized in Table 2. The monitored parameters did not meet all applicable water quality standards in 5 CCR 1002-31 and 1002-3 of the Colorado Code of Regulations. Constituents reported to exceed water quality standards in Tallahassee Creek include the following:

- Alpha Particles, which exceeded the domestic water supply standard in six of eleven samples tested;
- Beta Particles, which exceeded the domestic water supply standard in one of twelve samples tested;
- Chromium, which exceeded the standards for aquatic life in one of twelve samples tested; and
- Manganese, which exceeded the domestic water supply standard in 22 of 30 samples tested.

The mainstem of Tallahassee Creek from the confluence of South Tallahassee Creek to the confluence with the Arkansas River is not 303 (d) listed in the 2020 Colorado Integrated Report (CDPHE 2020a) and is assessed as meeting its designated beneficial uses.

4.1.3 Springs

Ten springs are located on or within one-mile of the overall mining area (Figure 6, Table 3). Cactus Mountain Spring, Cactus Mountain South Spring, and the Parkdale South Spring are located in the Mining Area, and Parkdale Spring located in the Buffer Area are located within the BLM Permit Area. The other springs within one-mile of the mining area are located outside of the Project Boundary. BLM intends to withdraw Federal Reserved Water Rights on Cactus Mountain Spring and Parkdale Spring as part of the mineral materials contract for the site as referenced in Decision Record, Proposed Competitive Mineral Materials Sale (COC-078119) at Parkdale, Fremont County, CO, DOI-BLM-CO-F020-2019-0013 EIS, Mitigation Measure 5, Surface, Ground Water, and Water Quality.

The four springs within the BLM Permit Area were surveyed by BLM during November 2019. CactusMountain, Cactus Mountain South, and Parkdale springs were all flowing at about 0.25 gpm. Parkdale South Spring was dry. The springs are recharged by infiltration of precipitation on the overlying watersheds and discharge from bedrock in intermittent drainages on the southwest side of Cactus Mountain. The water rights for Parkdale Spring and Cactus Mountain Spring will be withdrawn by BLM as part of the mineral lease process.

Currant, and Narrow Canyon springs are located on BLM land north and northwest of the BLM Mining Area (Figure 6). Narrow Canyon spring was surveyed by the BLM near the end of June in 2016. Narrow Canyon Spring was flowing at the time of observation, but at avery low rate (Table

3). Narrow Canyon Spring is located in the channel of an intermittent tributary to Currant Creek. Current Spring was surveyed at the end of August in 2012 at which time it was dry.

Campbell King Spring 1, Tallahassee Ditch No. 2 Spring, Harvey Brothers Twelve Mile Spring, and Wheaton College Spring16 are located on private land and only limited information including the spring locations and elevations are available. Location information for the springs is summarized in Table 3.

4.2 Groundwater

Groundwater on and near the Parkdale Quarry is recharged by infiltration of precipitation on upland areas. Based on groundwater monitoring data in MW-1, MW-3, and MW-10, the groundwater flow direction generally follows the surface topography. It flows laterally away from high points following topography to discharge at streams and springs at lower elevations. The apparent flow directions within the granite area are shown on Figure 5. The average precipitation at the site is about 17 inches annually (BLM 2017a) with recharge to groundwater estimated to be about 0.16 inches per year (ERM 2019).

Four hydrostratigraphic/aquifer units are recognized on and within one-mile of the overall mining area. They include Quaternary alluvium in Arkansas River and Tallahassee Creek streamchannels and feeder drainages, Mesozoic sedimentary rocks north and south of the BLM Permit Area, and Precambrian granitic rocks that are divided into weathered granite near the surface and competent but fractured granite below a depth of about 20 feet (ERM 2020). Alluvium occurs over bedrock in intermittent drainages on slopes and as thicker deposits in the Tallahassee and Currant Creek drainages and underlying and adjacent to the Arkansas River. The alluvium is the unit mined in the alluvial deposit portion of the Parkdale Quarry. Sedimentaryrocks rest unconformably on granite near the southern boundary of the BLM Permit Area and are in fault contact with granite north and east of the planned quarry expansion (Figure 6). The faults potentially cause compartmentalization of groundwater flow across the structures by the disruptionof stratigraphy and juxtaposition of rock types with different hydraulic characteristics.

4.2.1 Groundwater Levels and Direction of Flow

Groundwater levels in granitic bedrock within the BLM Mining Area are documented by three monitoring wells installed by Martin Marietta (Table 4), which were monitored for level in December, 2018; May, August, and November, 2019; and February, 2020. The observed depths to groundwater ranged from about 7 to 129 feet below ground level, and water levels fluctuate seasonally by upto 28 feet (Table 5). The apparent direction of groundwater flow is away from Cactus Mountain and toward the Arkansas River. Observed groundwater elevations within the BLM Permit Area rangefrom about 6,022 to 6,262 feet which is 82 to 322 feet higher than the planned minimum pit floor elevation of 5,940 feet.

4.2.2 Hydraulic Characterization Data

Hydraulic characterization data for granitic bedrock within the BLM Mining Area are available from single well tests performed in monitoring wells MW-1, MW-3, and MW-10. The results of the tests are summarized in Table 6 and indicate hydraulic conductivities ranging from 0.0019 to 0.0065 ft/day (ERM 2019). The average hydraulic conductivity from the three tests is calculated to be 0.0037 ft/d, which is considered to be a reasonable estimate of the bulk hydraulic conductivity of fractured granite below 20 feet depth (ERM 2020).

4.2.3 Water Quality Data

Limited background groundwater quality data for the BLM Permit Area are available from eleven samples collected in 2018, 2019, and 2020. The samples indicate that groundwater in granite has near neutral pH (6.64-7.71), low to moderate concentrations of total dissolved solids (318-437 mg/l), and meets water quality standards for the monitored parameters with the exceptions of uranium and radium (Table 7). The reported total alpha activity levels exceeded the Gross Alpha standards referenced in CDPHE Regulation 41 but were not corrected for uranium or radon, so cannot be used to quantify Regulation 41 Gross Alpha levels. Based on the regional geology, the uranium, radium, and radionuclides are likely naturally occurring.

4.2.4 Groundwater Users

Groundwater users within a two-mile radius of the overall mining area have been identified by a records search of the Colorado Division of Water Resources (DWR) well database (Appendix A). The results of the search indicate that 97 wells are located within two miles of the overall mining area (Figure6). The majority of wells are situated east and northeast of the Project in areas underlain by Mesozoic-age sedimentary rocks. The site and regional geology is depicted on Figure 6, including the general distribution of aquifer units. Eight wells are reported to be located on the south side of the Parkdale Fault in an area underlain by granitic bedrock. The reported well locationssouth of the Parkdale Fault appear to be in error based on a review of aerial photographs and drillingrecords that indicate the wells are completed in sedimentary rocks. The true locations of those wells are unknown, but the wells are most likely located on the north side of the Parkdale Fault.

A review of water level data from the DWR database indicates that groundwater elevations within two miles of the overall mining area range from about 5,657 to 7,041 feet elevation. Reported groundwater elevationsvary widely over relatively short distances with differences in elevation often exceeding 100 to 200 feet between wells located within 1,000 to 2,000 feet of each other. Although the accuracy of the DWR data is affected by a number of factors including errors in the reported well locations and surface elevations and the range of time over which the groundwater levels were measured, the reported variability is consistent with groundwater systems in low-permeable rocks that are poorlyinterconnected over short distances.

5. PROPOSED MONITORING NETWORK

The proposed surface water and groundwater monitoring locations for Parkdale Quarry are summarized in Table 8 and shown in Figures 7 and 8. Water quality samples will be collected prior to the start of ground-disturbing activities to establish a pre-mining baseline. Samples will be collected from Currant and Tallahassee creeks (CC-1, CC-2, TC-2, and TC-1. Water monitoring will continue throughout the life of the mine and continue for a minimum of four quarters after mining. Additional wells will be installed and monitored no less than one-year prior to the start of mining of Phases 1, 2, and 3.

5.1 Surface Water Monitoring

The proposed surface water monitoring network for the Parkdale Quarry includes four stations that will be established by FRA to monitor streams at the approximate locations shown on Figure 7. Stations CC-1 and TC-1 are upstream monitoring locations, and CC-2 and TC-2 are downstream monitoring locations. CC-1 and CC-2 will monitor Currant Creek upstream and downstream of the BLM Mining Area, respectively. Station TC-1 will monitor Tallahassee Creek above the confluence of Currant Creek and station TC-2 will monitor Tallahassee Creek above the confluence with the Arkansas River. Surface water monitoring locations CC-1 and TC-1 on Currant Creek and Tallahassee Creek are upgradient from the mining area and thus provide background data for water quality. CC-2 and TC-2 are Point of Compliance locations.

The proposed monitoring frequency for surface water is quarterly for five quarters prior to mining activities within the specified phases to establish a baseline. Quarterly sampling will continue unless otherwise approved by DRMS through a technical revision to the mine permit. The monitored parameters will include field parameters for pH, temperature, specific conductance (SC), dissolved oxygen (DO), and turbidity, and laboratory testing for pH and Total Suspended Solids (TSS). If there is no flow at the specified location at the time of monitoring, that will be noted, and no additional data or sample will be collected at that location during that quarter. If one or more monitoring locations cannot reasonably be accessed at the scheduled monitoring time, monitoring will be delayed until all stations can be accessed within a three-day period.

5.1.1 Surface Water Monitoring Procedures

Water quality samples for each station will be collected so as to avoid channelor bottom disturbances that could affect water chemistry. Where multiple stations exist on the same stream, sampling will begin at the downstream site and move upstream. Standard operating procedures for surface water monitoring include the following:

- Ideally, monitoring of surface water locations will be scheduled for one day to help reduce variability due to flow conditions. However, in the event that all monitoring cannot be completed in one day, the monitoring will be conducted in a maximum three-day period. A general site inspection will be performed upon arrival at each station, and comments regarding site conditions will be recorded on the field sampling record.
- All field instruments will be calibrated according to manufacturers' specifications at the beginning of each day.

5.2 Groundwater Monitoring

The proposed groundwater monitoring network for the Parkdale Quarry includes three existing wells that monitor groundwater in fractured granite within the BLM Mining Area, and up to four newwells installed as mining progresses that will monitor groundwater in fractured granite between the BLM Mining Area and groundwater users located to the north and east of the Project (Figure 8). Monitoring wells MW-1 and MW-3 will be used as points of compliance to evaluate adverse impacts to groundwater that might affect offsite receptors.

Groundwater monitoring will continue in the three existing monitoring wells (MW-1, MW-3 and MW-10), and up to three additional monitoring wells will be installed no less than one and one-quarter year prior to mining of a particular mine phase, and monitored throughout the life of the mine, as follows:

- Phase 1 West Pit (MW-6);
- Phase 2 West Central Pit, (MW-5);
- and Phase 3 Central Pit (MW-4).

Wells MW-4, MW-5, and MW-6 are upgradient from the mining area and thus provides background data for water quality. MW-10 will be used to evaluate water quality trends during the mining process.

Quarterly water level monitoring and water quality sampling will occur for five quarters prior to mining activities within the specified phases to establish a baseline. Quarterly level monitoring and sampling will continue after mining activities have begun in each phase unless the monitoring frequency is changed through a technical revision to the DRMS mining permit. Water level monitoring may be recorded using a water level meter, transducer, or other appropriate method to measure levels. The monitored water quality parameters will include field measurements of pH, temperature, and SC. Additionally, MW-1 and MW-3 will be used as a down-gradient compliance wells.

Laboratory analysis for radionuclides will be performed quarterly starting in the first quarter of 2022. Given that the radionuclide data collected to date represents pre-mining conditions it is likely that groundwater in the area of the mine is naturally high in radionuclides. Consequently, following the collection of the additional data the applicant will prepare a summary of the analyses and present all of the results along with the maximum and minimum concentration/activity for the parameters.

Wells MW-1 and MW-3 are located within the proposed mining area. No less than 90 days prior to the time where MW-1 and/or MW-3 will be destroyed by the mining, a replacement well will be installed in a location within 500 feet of the well being replaced that has already been mined or is otherwise unlikely to be destroyed by mining activities.

5.2.1 Well Installation and Testing

It is proposed that new monitoring wells be installed using a phased approach based on the planned mining sequence and observations from the three existing wells. The applicant will install the wells prior to mining in the BLM Permit Area such that five quarters of sampling will be performed to document pre-mining groundwater conditions. As proposed, monitoring well MW-6 will be installed prior to the start of mining in the Phase 1 (West Pit), MW-5 will be installed prior to the start of mining in the Phase 2 (West-central Pit), and MW-4 will be installed prior to the start of mining in the Phase 3 (Central Pit). MW-4, MW-5, and MW-6 will be used to collect baseline/background water level and water quality data, and also be used to detect changes in water

levels and water quality during mining in that area.

The new wells for the groundwater monitoring network will be installed by a Colorado licensed water well driller following the applicable well construction rules in the Code of Colorado Regulations. The wells will be screened at and below the water table in granitic bedrock with the final depths, screened intervals, filter packs, and other relevant details being determined in the field by the supervising engineer or geologist.

Monitoring wells that are no longer needed for monitoring groundwater on the Parkdale Quarry will be abandoned as part of the site reclamation process in accordance with procedures set forth by the Colorado Division of Water Resources in coordination with DRMS and BLM.

5.2.2 Groundwater Monitoring Procedures

Water levels for each well will be measured using an electrical water level sounder (e-tape) or other applicable method. Water samples will be collected using a disposable bailer, a dedicated low-flow pump, or a pump deployed from the surface and decontaminated between wells.

Samples of groundwater for measurement of field parameters and laboratory analysis will be collected using either the conventional three casing volume purge sampling method or the micro-purge sampling method. The conventional groundwater sampling method requires that three casing volumes of water be evacuated from the well before the sample is collected. The intent is to remove stagnant water from the well casing to ensure that the sample is representative of water in the formation. The micro-purge sampling method does not require that three casing volumes be evacuated from the well prior to sample collection. Instead it relies on low pumping rates (typically 0.1 to 0.5 L/min) from an intake located in the well screen to collect a representative sample of formation water with minimal disturbance of water in the well casing. Standard operating procedures for groundwater monitoring include the following:

- A general site inspection will be performed upon arrival at each monitoring well and comments regarding site conditions will be recorded on the field sampling record.
- A physical water level measurement will be completed for each well prior to sample collection.
- All field instruments will be decontaminated and calibrated according to manufacturers' specifications at the beginning of each day.
- All non-dedicated sampling equipment will be appropriately decontaminated prior to sampling and between sampling locations.
- Samples of groundwater from each well will be collected using the either the conventional or the micro-purge sampling method.
- Only certified clean bottles will be used to store and ship samples for laboratory analysis.
- All samples will be collected in appropriate containers, preserved as required by method, and maintained and shipped at appropriate temperatures and within appropriate holding times as specified by the laboratory and/or analytical method.
- Chain-of-custody (COC) forms and custody seals will be used for all samples shipped to the laboratory.

6. REPORTING

Monitoring results for streams and groundwater will be provided to DRMS on the 28th day after the quarter of completion of each monitoring event and receipt of applicable analytical data. If an analyte exceeds a standard, the appropriate agency will be notified, as applicable, within five days of receipt of the relevant lab data with a report to follow in 30 days. The information provided will include tabulated summaries of flow measurements and water quality analyses, laboratory reports, and water level data. Submission will be in the form of a letter report with copies of the analytical data, and will be transmitted electronically.

7. MITIGATION OF POTENTIAL IMPACTS TO WATER RESOURCES

The mitigation measures summarized in Table 10 are actions that may be implemented by the quarry operator to avoid, minimize, or correct unintended adverse impacts to water resources. Potential adverse impacts from the quarry expansion were identified in the Environmental Impact Statement (EIS) for the competitive mineral materials sale at Parkdale (BLM2020b) and include:

- Alteration of groundwater levels and quality, and reduction of groundwater availability to users outside of the permit boundary.
- Alteration of water quality in Currant and Tallahassee Creeks.

Increased Total Dissolved Solids (TDS), TSS, and turbidity in surface water can be caused by runoff, and in groundwater by infiltration of stormwater from mining disturbed areas.

8. REFERENCES

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United States Department of Interior Bureau of Land Management (BLM) 2020b. Draft Environmental Impact Statement Parkdale Mineral Materials Competitive Sale DOI-BLM-CO-F020-2019-0013-EIS (BLM 2020b

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Available online: http://prd-tnm.s3-website-us-west-2.amazonaws.com/?prefix=Staged

Products/Hydrography/NHD/HU4/HighResolution/GDB/. Release date 3/14/2005. Accessed 10/2/2017.

Whetstone 2019. Scoping-Level Analysis of Area Potentially Affected by Drawdown Related Impacts for the Parkdale Quarry Expansion.

FIGURES

Figure 1. Site Location Map

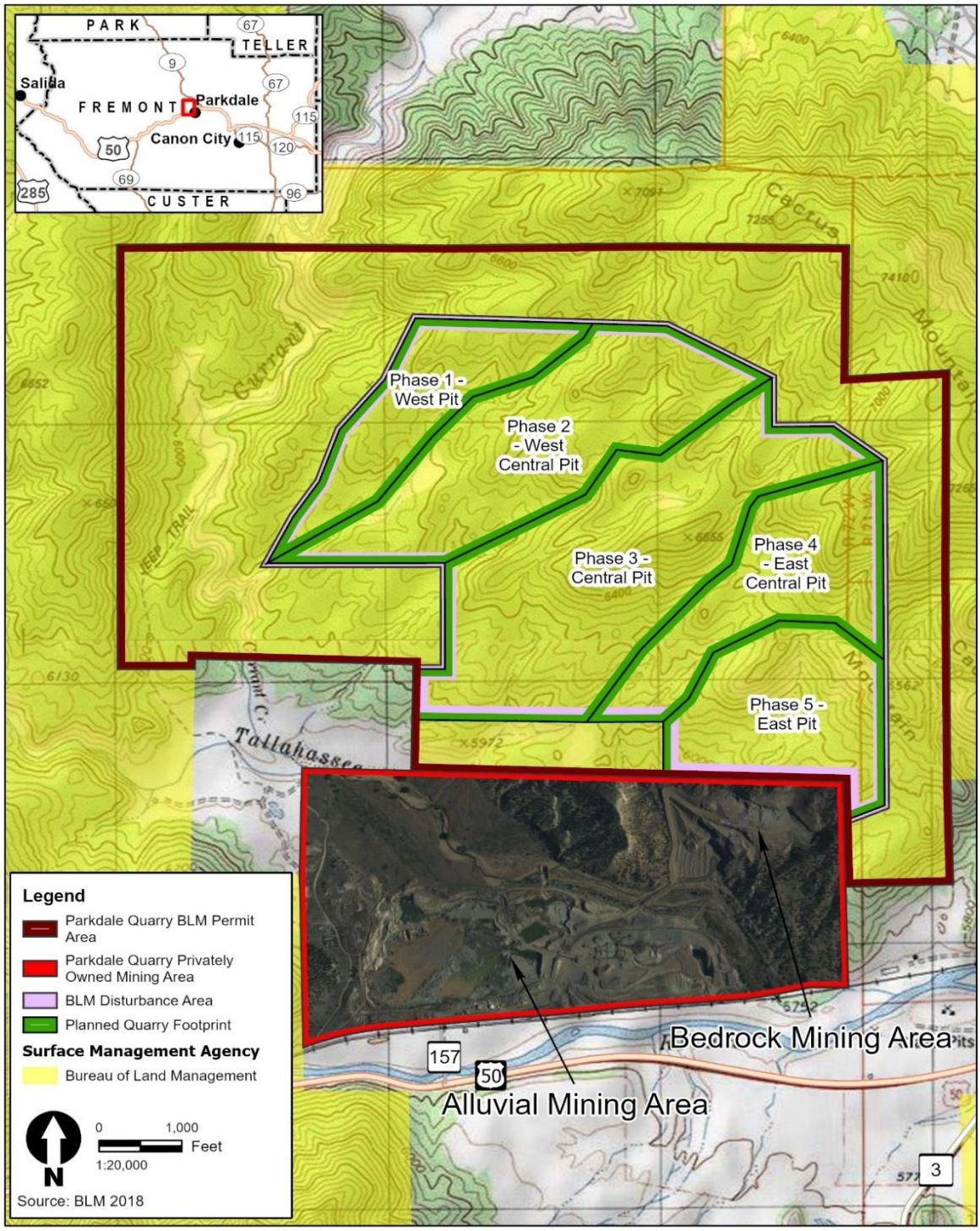

Figure 2. Land Ownership and Site Layout

Figure 3A - Cross Section A-A'

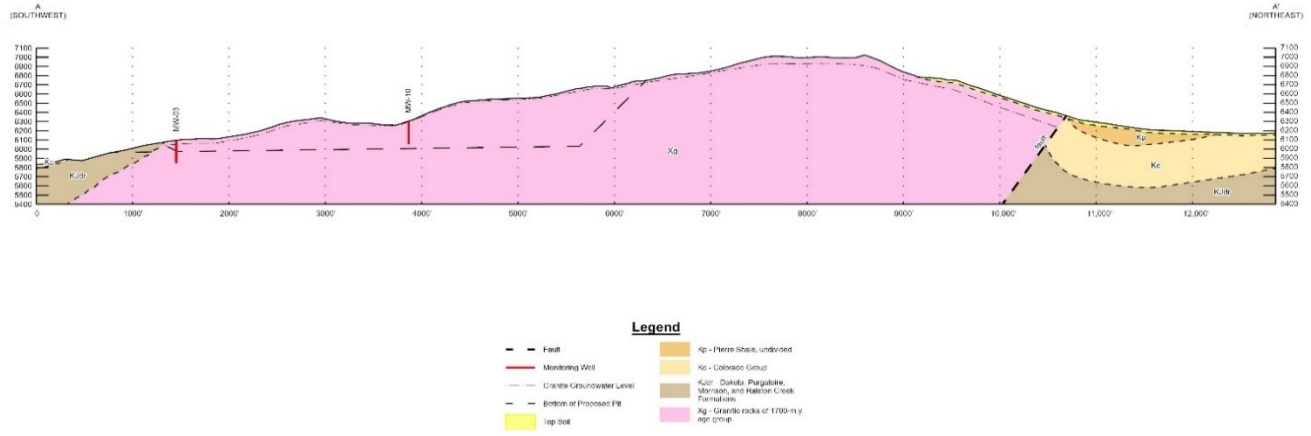

Figure 3B - Cross Section B-B'

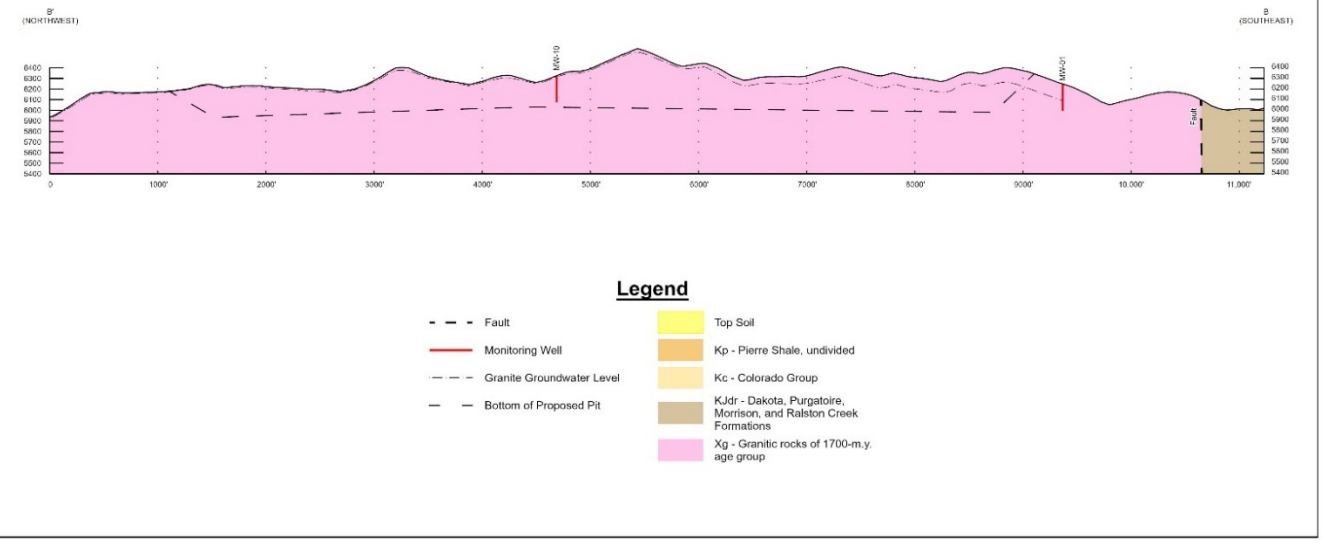

Figure 3A and 3B. Cross-sections Depicting the Granite Pit

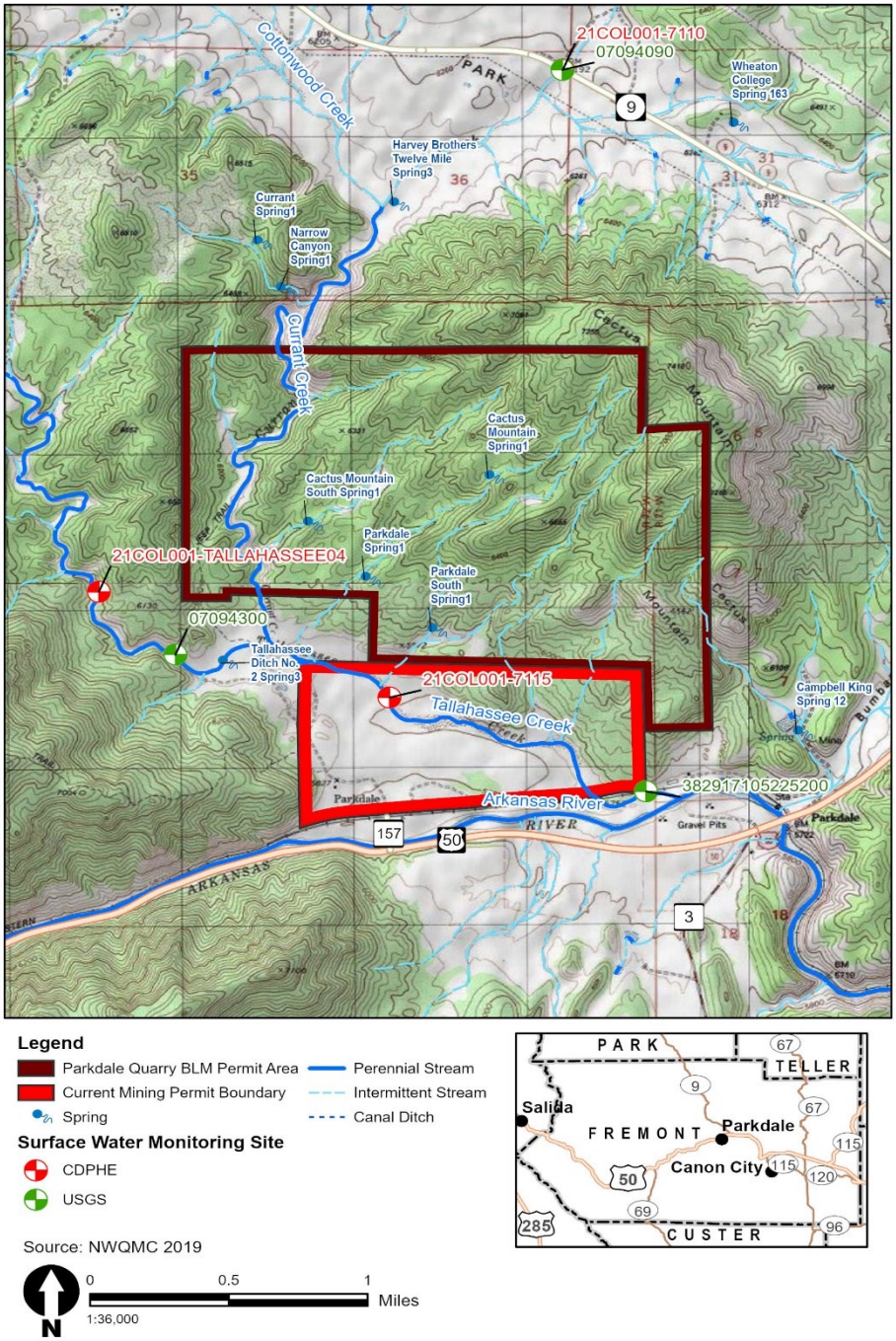

Figure 4. Locations of USGS and CDPHE Surface Water Monitoring Stationswith Background Data for Currant and Tallahassee Creeks

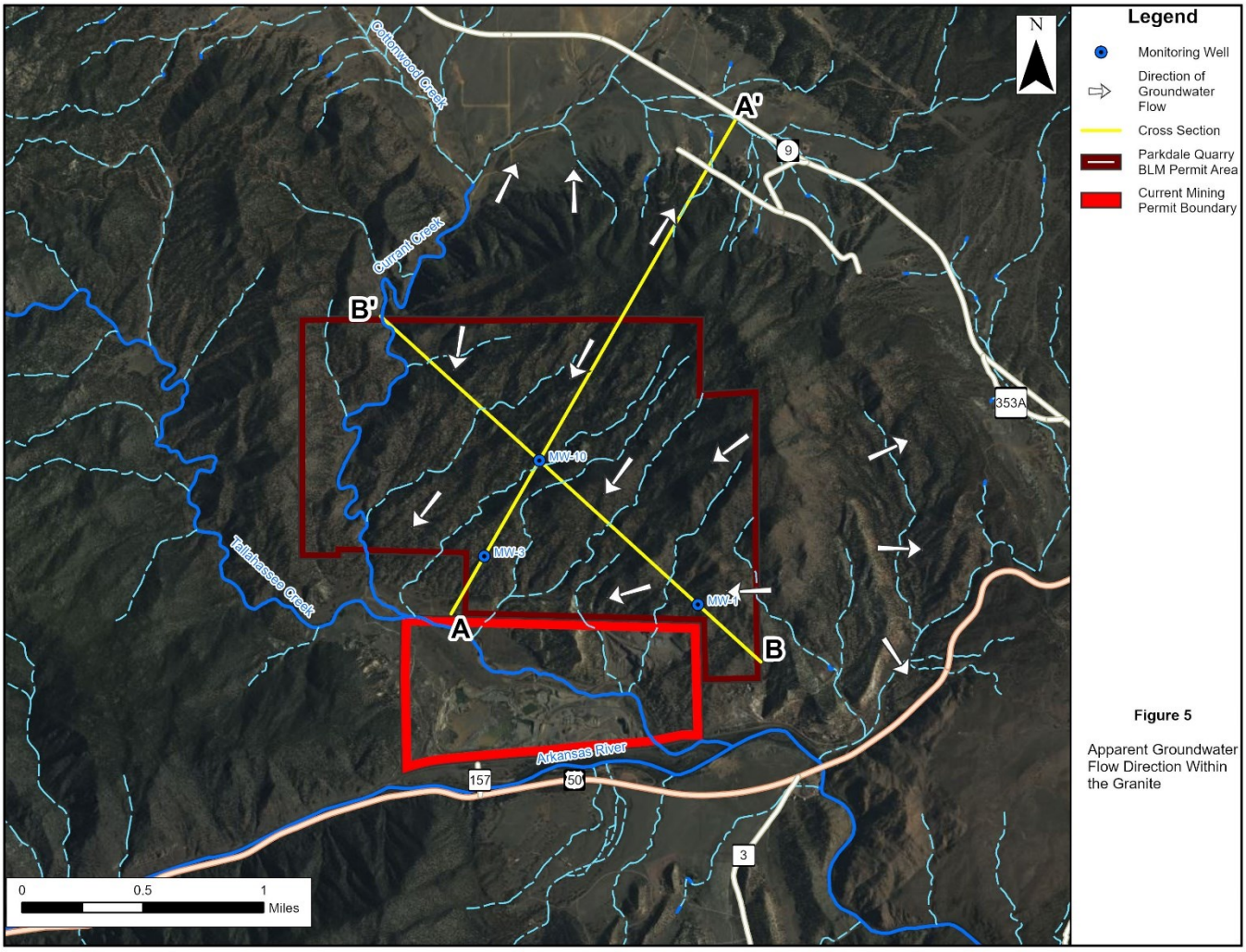

Figure 5. Assumed Groundwater Flow Direction within the Granite in the Parkdale Quarry Area Based on Well Data and Surface Topography

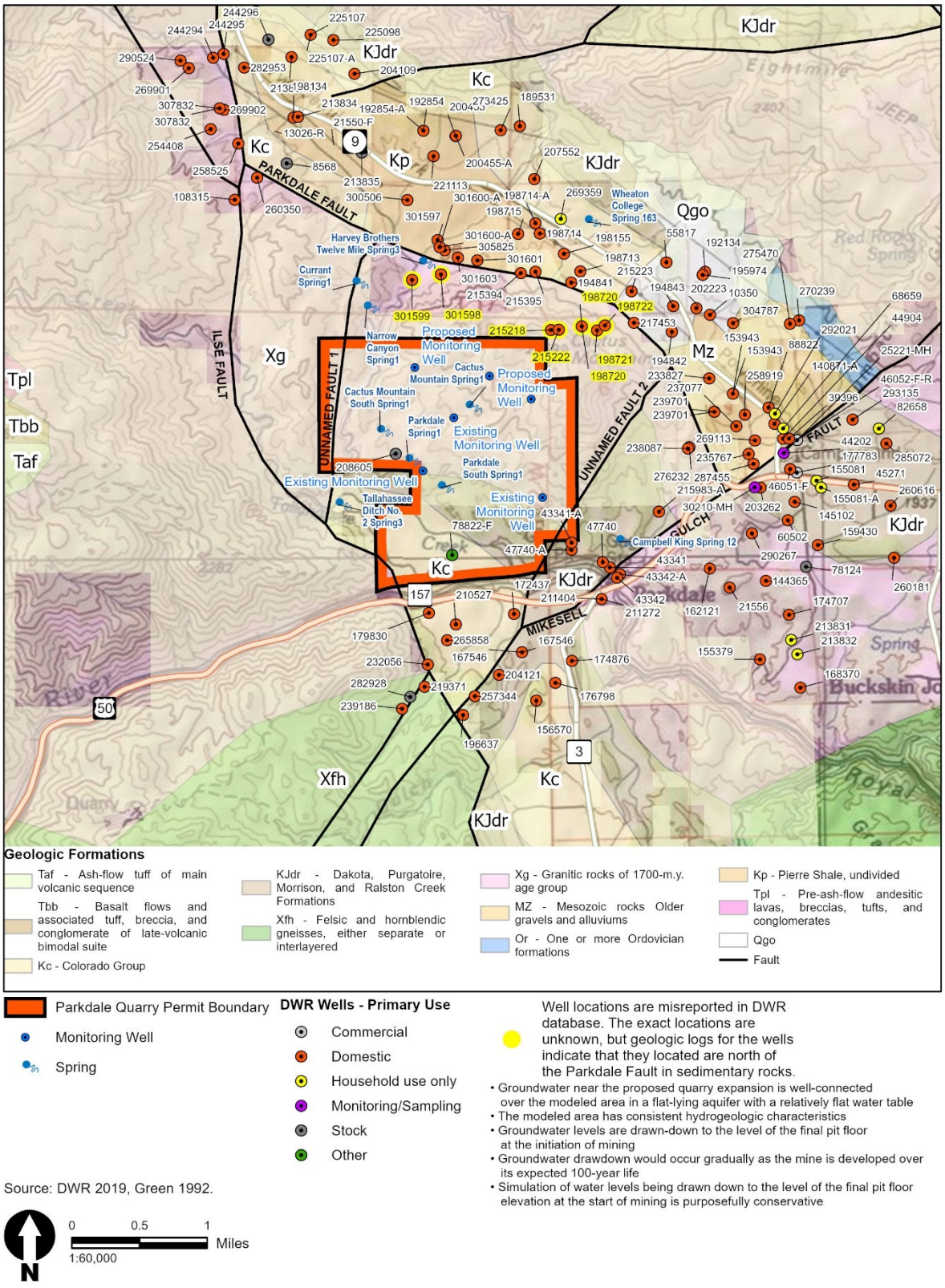

Figure 6. Site Geology and Locations of Groundwater Users Near the Parkdale Quarry

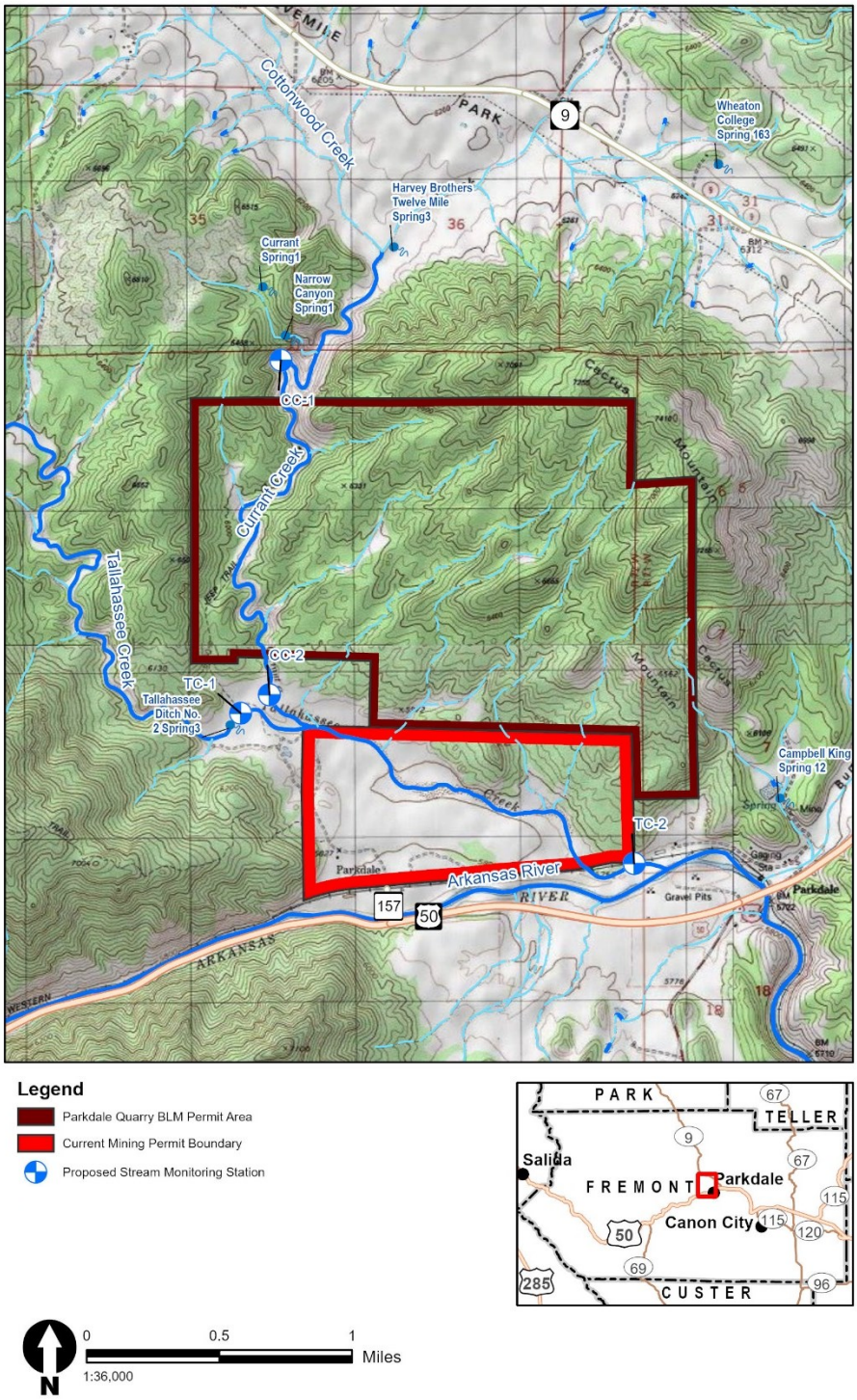

Figure 7. Proposed Surface Water Monitoring Locations

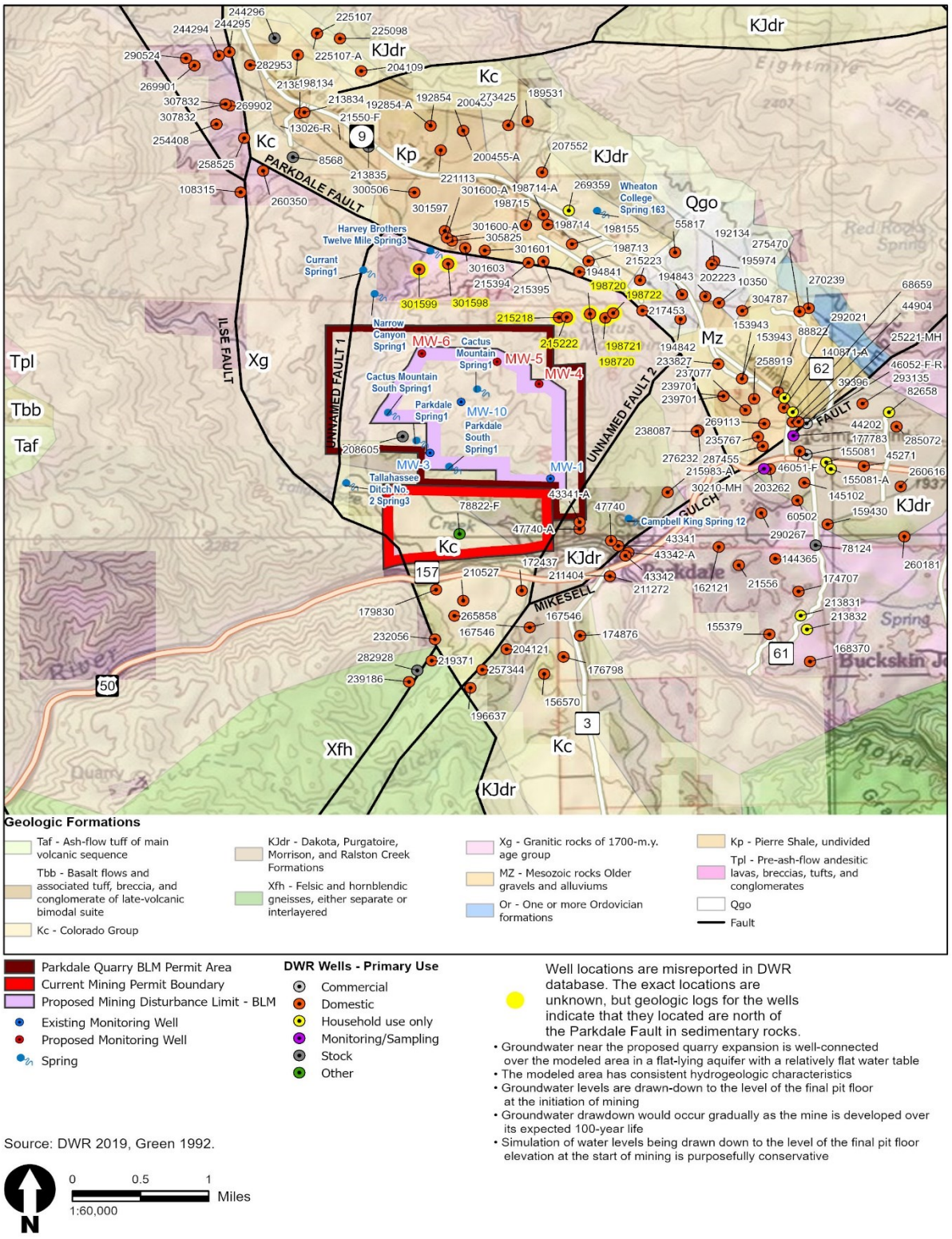

Figure 8. Proposed Groundwater Monitoring Locations

TABLES

Table 1. Summary of Background Data for Currant Creek

Station	Period of Record	Number of Samples	Range of Measured Streamflows	Water Quality Analyses
USGS 07094090	01/13/1981 – 09/21/1982	12	0.30 – 31 cfs	Streamflow, field parameters, selected ions, metals, and radionuclides
USGS 383150105225500	4/22/72	1	--	Field parameters, major ions, nutrients, iron and manganese
CDPHE 21COL001-7110	08/17/2010	1	--	Field parameters, alkalinity, hardness, nutrients, selected ions and metals

Table 2. Summary of Background Data for Tallahassee Creek

Station	Period of Record	Number of Samples	Range of Measured Streamflows	Monitored Parameters
USGS 07094300	01/13/1981 – 09/21/1982	11	0.01 – 31 cfs	Streamflow, field parameters, selected ions, metals, and radionuclides
USGS 382917105225200	06/03/1987 – 10/21/1992	14	0.14 – 44 cfs	Streamflow, field parameters, alkalinity, TDS, nutrients, and metals
CDPHE 21COL001-Tallahassee04	0/14/1980	1	--	Field parameters, alkalinity, hardness TDS, TSS, nutrients, selected ions and metals
CDPHE 21COL001-7115	09/12/2005 – 06/21/2011	3	--	Field parameters, E. Coli, alkalinity, hardness, nutrients, major ions and metals

Table 3. Summary of Springs on or within one-mile of the Overall Mining Area

Spring	Latitude	Longitude	Elevation (ft)	Discharge (gpm)	Date Monitored
Springs within the BLM Mining Area					
Cactus Mountain Spring[1]	38.50599	-105.39281	6,480	0.25	11/19/2019
Cactus Mountain South Spring[1]	38.50336	-105.40489	6,040	0.25	11/19/2019
Parkdale Spring[1]	38.5002	-105.40104	6,140	0.25	11/19/2019
Parkdale South Spring[1]	38.49727	-105.39662	5,920	No Flow	11/19/2019
Springs Near the BLM Mining Area					
Currant Spring[1]	38.51939	-105.40823	6,200	No Flow	08/24/2012
Tallahassee Ditch No. 2 Spring[3]	38.49544	-105.41055	5,920	Unknown	--
Narrow Canyon Spring[1]	38.51673	-105.40668	6,300	Very Low	06/27/2016
Campbell King Spring 1[2]	38.49140	-105.37232	5,840	Unknown	--
Harvey Brothers Twelve Mile Spring[3]	38.52156	-105.39913	6,120	Unknown	--
Wheaton College Spring 16[3]	38.52605	-105.37654	6,250	Unknown	--

Sources: [1] BLM Royal Gorge Field Office (BLM 2019)
[2] National Hydrography Dataset (USGS 2005)
[3] Colorado Division of Water Resources Water Rights Database (Appendix A)

Table 4. Completion Details for Monitoring Wells in the BLM Mining Area

Well ID	Latitude	Longitude	Casing Elevation (ft amsl)	Total Depth (ft btoc)	Well Casing	Screened Interval (ft btoc)
MW-1	38.496541°	-105.382685°	6,252.7	239	2-inch PVC	20-239
MW-3	38.499052°	-105.399946°	6,075.8	249	2-inch PVC	20-249
MW-10	38.504486°	-105.394678°	6,271.6	251	2-inch PVC	20-251

Notes: amsl – above mean sea level
btoc – below top of casing
Data source, ERM 2019

Table 5. Summary of Water Level Data for the BLM Mining Area

Date	MW-1		MW-3		MW-10	
	DTW (ft btoc)	WLE (ft amsl)	DTW (ft btoc)	WLE (ft amsl)	DTW (ft btoc)	WLE (ft amsl)
12/7/2018	103.63	6149.11	47.52	6028.23	11.19	6260.37
12/11/2018	104.13	6148.61	47.55	6028.2	9.76	6261.8
5/14/2019	123.99	6128.75	38.38	6037.37	10.17	6261.39
8/29/2019	127.71	6125.03	49.19	6026.56	18.69	6252.87
11/19/2019	129.4	6123.34	49.9	6025.85	14.28	6257.28
2/28/2020	131.6	6121.14	53.64	6022.11	12.49	6259.07

Notes: amsl – above mean sea level
btoc – below top of casing
Data source, ERM 2020

Table 6. Summary of Pumping Test Data for the BLM Mining Area

Well ID	Average Pumping Rate (gpm)	Pumping Duration (min)	Maximum Drawdown (ft)	Saturated Thickness (ft)	Transmissivity (ft^2/d)	Hydraulic Conductivity (ft/d)	Hydraulic Conductivity (cm/sec)
MW-1	0.136	110	10.5	134.9	0.26	0.0019	6.7E-07
MW-3	0.716	74	99.8	201.4	0.63	0.0027	9.5E-07
MW-10	0.960	102	≈128	241.2	1.57	0.0065	2.3E-06

Note: Data source, ERM 2020

Table 7. Water Quality Analyses for Granitic Bedrock in the BLM Mining Area

Parameter (See Footnote)	Standard [1]	MW-1		MW-3					MW-10				
		12/11/2018	5/14/2019	12/11/2018	5/13/2019	8/28/2019	11/19/2019	2/26/2020	12/12/2018	5/13/2019	8/28/2019	11/19/2020	2/26/2020
Field Parameters													
pH (s.u.)	6.6 – 8.5	7.71	7.16	7.65	7.12	7.13	7.62	7.62	7.55	6.64	6.91	6.89	--
Temperature (ºC)	--	14.68	20.26	16.4	17	18	17.3	16.9	13.43	12.86	14.71	14.3	--
Specific Conductance (µS/cm)	--	587	475	480	379	411	461	448	602	480	617	735	--
Solution Parameters and Major Ions													
Alkalinity (mg $CaCO_3$/L)	--	190	188	176	168	--	--	--	253	228	190	--	--
TDS (mg/L)	500	406	417	338	318	--	--	--	437	420	--	--	--
Calcium (mg/L)	--	67.6	75.8	50.2	48.1	--	--	--	81.4	76.4	--	--	--
Chloride (mg/L)	250	8	7.5	11.6	9.9	--	--	--	8	7.5	--	--	--
Potassium (mg/L)	--	2.9	3.03	2.36	2.13	--	--	--	2.55	1.64	--	--	--
Magnesium (mg/L)	--	15.8	15.1	11.4	10.6	--	--	--	16.5	14.8	--	--	--
Silicon	--	7.66	7.64	9.95	10.7	--	--	--	13	13.2	7.66	--	--
Sodium (mg/L)	--	23.7	23.1	30.7	28.2	--	--	--	22.6	20	--	--	--
Sulfate (mg/L)	250	99	95.8	63.2	55.7	--	--	--	86.3	85.9	--	--	--
Nutrients													
Nitrate (N mg/L)	10	5.7	6.5	1.9	2.6	--	--	--	0.12	0.087	--	--	--
Phosphorus, total (mg/L)	--	0.28	0.31	0.98	0.41	--	--	--	3.1	0.81	--	--	--
Dissolved Metals													
Aluminum (mg/L)	5	< 0.1	< 0.1	< 0.1	< 0.1	--	--	--	< 0.1	< 0.1	--	--	--
Antimony (mg/L)	0.006	< 0.008	< 0.008	< 0.008	< 0.008	--	--	--	< 0.008	< 0.008	--	--	--
Arsenic (mg/L)	0.01	< 0.0004	0.0004	0.00059	0.00043	--	--	--	0.00042	0.0004	--	--	--
Barium (mg/L)	2	0.0183	0.0207	0.0314	0.0189	--	--	--	0.0391	0.034	--	--	--
Cadmium (mg/L)	0.005	< 0.0002	< 0.0002	< 0.0002	< 0.0002	--	--	--	< 0.0002	< 0.0002	--	--	--

Parameter (See Footnote)	Standard [1]	MW-1		MW-3					MW-10				
		12/11/2018	5/14/2019	12/11/2018	5/13/2019	8/28/2019	11/19/2019	2/26/2020	12/12/2018	5/13/2019	8/28/2019	11/19/2020	2/26/2020
Chromium, all forms (mg/L)	0.1	< 0.004	< 0.004	< 0.004	< 0.004	--	--	--	< 0.004	< 0.004	--	--	--
Cobalt (mg/L)	0.05	< 0.002	< 0.001 [a]	< 0.0004	< 0.0004	--	--	--	< 0.002	< 0.002	--	--	--
Copper (mg/L)	0.2	< 0.004	< 0.004	< 0.004	< 0.004	--	--	--	0.0084	0.0052	--	--	--
Iron (mg/L)	0.3	0.179	0.122	0.139	0.0822	--	--	--	0.221	0.14	--	--	--
Lead (mg/L)	0.05	< 0.001	< 0.001	< 0.001	< 0.001	--	--	--	< 0.001	< 0.001	--	--	--
Manganese (mg/L)	0.05	0.005	0.0029	0.0098	0.0128	--	--	--	0.0241	0.005	--	--	--
Molybdenum (mg/L)	0.21	0.04	0.0188	0.141	0.155	--	--	--	0.0383	0.0073	--	--	--
Nickel (mg/L)	0.1	0.0052	< 0.0040	< 0.0040	0.0112	--	--	--	0.0102	< 0.0040	--	--	--
Selenium (mg/L)	0.02	0.0029	0.0038	0.0032	0.0022	--	--	--	0.0012	0.0012	--	--	--
Uranium (mg/L)	0.0168 to 0.03[3]	**0.0173**	0.0137	**0.0212**	**0.0197**	0.0167	--	--	**0.0382**	0.0167	0.0126	--	--
Zinc (mg/L)	2	< 0.020	< 0.020	< 0.020	< 0.020	--	--	--	< 0.020	< 0.020	--	--	--
Radionuclides													
Total Alpha Activity (pCi/L)[2]	--	19	18	47	47	38	38.8	--	120	25	31	18	--
Gross Beta (pCi/L)	50 pCi/L screening	22	28	**71**	**65**	14	17.5	--	**200**	34	20	7.25	--
Radium 226 (pCi/L)	--	1	1.2	2.3	1.3	0.6	0.15	--	4.4	1.4	2.6	1.32	--
Radium 228 (pCi/L)	--	1.5	2.7	2.2	9.7	1.9	1.32	--	3.1	2.6	2.6	1.32	--
Total Radium (pCi/L)	5 [4]	2.5	3.9	4.5	**11** [5]	2.5	1.47	--	**7.5** [5]		**5.2** [5]	2.64	--
Uranium 234 (pCi/L)	--	16	19	21	17	20.8	21.6	--	25	11	10.1	9.88	--
Uranium 235 (pCi/L)	--	0.07	0	1.2	-0.27	0.505	0.475	--	0.96	-0.64	0.277	0.219	--
Uranium 238 (pCi/L)	--	9.06	6.45	9.99	7.28	7.66	8.53	--	17.2	7.44	5.95	4.53	--

Notes: The parameters shown in the historic data are missing several required monitoring parameters listed in Table 9.

[1] The referenced water quality standard is the lower of the drinking water standard, human health standard, or agricultural standard.

[2] The total alpha activity level must be corrected to calculate adjusted gross alpha levels. The adjusted gross alpha - Reg 41 water quality standard is based on Gross Alpha Activity less uranium and radon. The standard for Gross Alpha – Reg 41is 15 pCi/L. Only limited uranium analysis and no radon analysis was performed on the samples, so adjusted gross alpha – Reg 41 levels are not available.

[3] Whenever a range of standards is listed and referenced to this footnote, the first number in the range is a strictly health-based value, based on the Colorado Water Quality Control Commission's established methodology for human health-based standards. The second number in the range is a maximum contaminant level, established under the federal Safe Drinking Water Act that has been determined to be an acceptable level of this chemical in public water supplies, taking treatability and laboratory detection limits into account.

[4] This is the United States Environmental Protection Agency maximum contaminant level (MCL) for combined radium 226/228, there is currently no domestic water supply standard for radium.

[5] The sum of radium 226 and 228 for the sample exceeds the maximum contaminant level (MCL) per the 2000 EPA radionuclides rule.

Data Source ERM 2020

Bolded and shaded values exceed domestic water supply standards in CCR5 1002-41

-- No test performed

Table 8. Proposed Surface Water and Groundwater Monitoring Locations

Station	Description	Comment
CC-1[(1)]	Current Creek upstream of BLMMining Area	Monitoring to begin prior to grounddisturbing activities in the BLM Mining Area
CC-2[(1)]	Current Creek downstream of BLM Mining Area	Monitoring to begin prior to grounddisturbing activities in the BLM Mining Area
TC-1[(1)]	Tallahassee Creek upstream of Currant Creek	Monitoring to begin prior to ground disturbing activities in the BLMMining Area
TC-2[(1)]	Tallahassee Creek downstream of Parkdale Quarry	Monitoring to begin prior to ground disturbing activities in the BLMMining Area
MW-1[(2)]	Existing monitoring well in granite near the southeast portionof the BLM Mining Area	Monitoring to begin prior to ground disturbing activities in the BLMMining Area
MW-3[(2)]	Existing monitoring well in granite near the southwest portionof the BLM Mining Area	Monitoring to begin prior to ground disturbing activities in the BLMMining Area
MW-4[(2)]	New monitoring well in granite on the east edge of BLM mining Area on west side of unnamed fault 2	To be installed prior to disturbanceof the Phase 3 Central Pit.
MW-5[(2)]	New monitoring well in granite on north edge of BLM Mining Area on thesouth side of the Parkdale Fault	To be installed prior to disturbanceof the Phase 2 West Central Pit.
MW-6[(2)]	New monitoring well in granite on north edge of BLM Mining Area on thesouth side of the Parkdale Fault	To be installed prior to disturbanceof the Phase 1 West Pit.
MW-10[(2)]	Existing Monitoring Well in granite near the central portion ofthe BLM Mining Area	Monitoring to begin prior to ground disturbing activities in the BLM Mining Area

Notes:

(1) Surface water monitoring locations CC-1 and TC-1 on Currant Creek and Tallahassee Creek are upgradient from the mining area and thus provide background data for water quality. CC-2 and TC-2 are Point of Compliance locations.

(2) Wells MW-4, MW-5, and MW-6 are upgradient from the mining area and thus provides background data for water quality. MW-10 will be used to evaluate water quality trends during the mining process. MW-1 and MW-3 are the Point of Compliance wells.

Table 9. Surface and Groundwater Monitoring Parameters and Applicable Standards

Parameter	Water Quality Standards Surface Water Discharge	Water Quality Standard Monitoring Wells[1]	Water Quality Standard Tallahassee and Currant Creeks[2]
Field Parameters			
pH (s.u.)	6.5 to 9.0 (daily maximum)	6.5 to 8.5 (DWS)	Value Recorded and Reported
Temperature (ºC)	--	Value Recorded and Reported	Value Recorded and Reported
Specific Conductance (µS/cm)	--	Value Recorded and Reported	Value Recorded and Reported
Turbidity (NTU)	--	Value Recorded and Reported	Value Recorded and Reported
Dissolved Oxygen (mg/L)	--	--	6.0 (7.0 – Spawning)
Solution Parameters, Nonmetals, and Major Ions			
Total Dissolved Solids (mg/L)	--	Background 0 to 500; Greater of 400 or 1.25X Background. Background 501 to 10,000; 1.25X Background. Background >10,000; No limit.	--
Total Suspended Solids (mg/L)	30 (30-day average) 45 (7-day average)	Value Recorded and Reported	Value Recorded and Reported
Ammonia (mg/L)	--	--	TVS[2]
Chloride (mg/L)	--	250	250
Corrosivity	--	Noncorrosive (DWS)	--
Total Nitrate + Nitrite	--	10.0 as N (HHS)	--
Fluoride (mg/L)	--	2.0 (A)	
Sulfate (mg/L)	--	250 (DWS)	250 (30-Day)
Sulfide (mg/L)	--	--	0.002
Nutrients			
Nitrate (NO3) (mg/L	--	10.0 as N (HHS)	10
Nitrite (NO2) (mg/L)	--	1 as N (HHS)	0.05
Dissolved Metals			
Aluminum (mg/L)	--	5 (A)	--
Antimony (mg/L)	--	0.006 (HHS)	--
Arsenic (mg/L)	--	0.01 (HHS)	0.34
Barium (mg/L)	--	2 (HHS)	--
Beryllium (mg/L)	--	0.004 (HHS)	--
Boron (mg/L)	--	0.75 (A)	--
Cadmium (mg/L)	--	0.005 (HHS)	0.005
Chromium, all forms (mg/L)	--	0.1 (HHS)	0.05
Cobalt, total (mg/L)	--	0.05 (A)	--
Copper - Dissolved (µg/L)	Report 30-day average and maximum daily average.	200 (A) (=0.2 mg/L)	Acute = $e^{(0.9422[\ln(\text{hardness})]-1.7408)}$ Chronic = $e^{(0.8545[\ln(\text{hardness})]-1.7428)}$

Parameter	Water Quality Standards Surface Water Discharge	Water Quality Standard Monitoring Wells[1]	Water Quality Standard Tallahassee and Currant Creeks[2]
Iron (mg/L)	--	0.3 (DWS)	1.0
Lead (mg/L)	--	0.05 (HHS)	0.05
Lithium (mg/L)	--	2.5 (A)	--
Manganese (mg/L)	--	0.05 (DWS)	Acute = $e^{(0.3331[\ln(\text{hardness})]+6.4676)}$ Chronic = $e^{(0.3331[\ln(\text{hardness})]+5.8743)}$
Molybdenum (mg/L)	--	0.21 (HHS)	150
Nickel (mg/L)	--	0.1 (HHS)	0.1
Selenium (mg/L)	--	0.02 (A)	4.6
Silver (mg/L)	--	0.05 (HHS)	$e^{(1.72[\ln(\text{hardness})]-10.51)}$
Thallium (mg/L)	--	0.002 (HHS)	--
Uranium (mg/L)	--	0.0168 (HHS) to 0.03 (MCL)[3]	--
Vanadium (mg/L)	--	0.1 (A)	--
Zinc (mg/L)	--	2 (A)	Acute = $0.978*e^{(0.9094[\ln(\text{hardness})]+0.9095)}$ Chronic = $0.986*e^{(0.9094[\ln(\text{hardness})]+0.6235)}$
Organic Compounds			
Oil and Grease (mg/L)	10 (Only analyzed for if a visible sheen is noted)	--	(Only analyzed for if a visible sheen is noted in downstream sample and not in upstream sample)
Radionuclides			
Radon (pCi/L)	--	No Standard Established[4]	--
Total Alpha Activity (pCi/L)	--	See Note (5)	--
Adjusted Gross Alpha – Reg 41 (pCi/L)[5]	--	15 (HHS) [5]	--
Gross Beta (pCi/L)	--	50 (Screening Level)[6]	--
Radium 226 (pCi/L)	--	No Standard Established	--
Radium 228 (pCi/L)	--	No Standard Established	--
Total Radium (pCi/L)	--	5 [7]	--
Uranium 234 (pCi/L)	--	No Standard Established	--
Uranium 235 (pCi/L)	--	No Standard Established	--
Uranium 238 (pCi/L)	--	No Standard Established	--
Comments			
	Current standard as per the site discharge permit.	The compliance standard for the compliance wells will be the greater of the premining background level in that well and the water quality standard.	The compliance standard will be the greater of the upstream background level and the listed Regulation 34 water quality standard for Tallahassee Creek.

NOTES:

(1) The referenced water quality standard is the lower of the drinking water standard, human health standard, or agricultural standard.

(2) The TVS for ammonia is a calculated value from 5 CCR 1002-31 TABLE II – INORGANIC PARAMETERS based on the amount of chloride present.

(3) Whenever a range of standards is listed and referenced to this footnote, the first number in the range is a strictly health-based value, based on the Colorado Water Quality Control Commission's established methodology for human health-based standards. The second number in the range is a maximum contaminant level, established under the federal Safe Drinking Water Act that has been determined to be an acceptable level of this chemical in public water supplies, taking treatability and laboratory detection limits into account.

(4) Although no standard has been established for Radon activity, the data is required to properly calculate Gross Alpha per Reg 41 requirements.

(5) The Adjusted Gross Alpha - Reg 41 water quality standard is based on Gross Alpha Activity less uranium and radon.

(6) The "screening level" is 50 pCi/L. The Reg 41 standard is a dose-based standard of 4 mrem/yr.

(7) The sum of radium 226 and 228 for the sample exceeds the maximum contaminant level (MCL) per the 2000 EPA radionuclides rule.

s.u. = Standard Units

ºC = Degrees Centigrade

-- = Analyte/Property Not Tested For

µS/cm = MicroSiemens per Centimeter

mg/L = Milligrams per Liter

mV = Millivolts

NTU = Nephelmetric Turbidity Units

mg CaCO3/L = Milligrams Calcium Carbonate per Liter

µg/L = Micrograms per Liter

pCi/L = PicoCuries per Liter

A = Agricultural Standard

DWS = Drinking Water Standard

HHS Human Health Standard

TVS = Table Value Standard

WS = Water Supply Standard

Table 10. Summary of Indicators and Mitigation Measures for Impacts to Water Resources

Impact	Indicators	Mitigation
Alteration of Water Quality in Currant Creek.	• Increased SC or turbidity at CC-2 compared to CC-1 of greater than 10%.. • Differences in pH from CC-1 to CC-2 that is greater than 0.5 pH units and that is less that a pH of 6.5 or greater than a pH of 9.0. • Observation of runoff from mining disturbed areas entering the creek combined with an exceedance of a water quality standard as set forth in Table 9.	• Initiate investigation in coordination with DRMS to determine cause • Implement BMPs if applicable. • Adaptive management of mining practices to eliminate sources of contamination
Alteration of water quality in Tallahassee Creek.	• Increasing trends in SC or turbidity, at TC-1 compared to TC-2 over five quarters. • Differences in pH from TC-2 to TC-1 that is greater than 0.5 pH units and that is less that a pH of 6.5 or greater than a pH of 9.0.. • areas entering the creek combined with an exceedance of a water quality standard as set forth in Table 9.	• Initiate investigation in coordination with DRMS to determine cause • Implement BMPs if applicable. • Adaptive management of mining practices to eliminate sources of contamination.
Alteration of groundwater levels and water quality that affects availability or usability for groundwater users.	• Changes or trends in monitored water quality parameters in monitoring wells compared to pre-disturbance baseline data that exceed the applicable water quality standard. • Complaints from nearby groundwater users about decreasing water levels or water quality in offsite wells or springs when those trends are also present in onsite monitoring wells.	• Initiate investigation in coordination with DRMS to determine cause.

APPENDIX A

DWR Well Records

Permit	Current Status	Contact Name	DIV	WD	County
25221MH	Well Constructed	MASSEY, LEE	2	12	FREMONT
30210MH	Well Constructed	SHIPPEY, RONALD	2	12	FREMONT
78124	Well Constructed	BARTLESON	2	12	FREMONT
88822	Well Constructed	LITTLEFIELD, GEORGE L	2	12	FREMONT
140871-A	Well Constructed	CROWFOOT, FLOYD	2	12	FREMONT
145102	Well Constructed	PRUETT, FLOYD D	2	12	FREMONT
153943	Well Constructed	NUTLY, ALBERT J.	2	12	FREMONT
43341-A	Well Constructed	AJET	2	12	FREMONT
153943	Well Constructed	NUTLY, MARY ANN	2	12	FREMONT
155081	Well Constructed	KRESKI, JOHN	2	12	FREMONT
155081-A	Well Constructed	MORENO LEIDY SASTOQUE	2	12	FREMONT
155379	Well Constructed	BURKHOLDER NORMAN L & CONNIE J	2	12	FREMONT
47740-A	Well Constructed	KING ALEXANDER CAMPBELL	2	12	FREMONT
159430	Well Constructed	TOLLIS, GENE P	2	12	FREMONT
162121	Well Constructed	BROWN, MARK N	2	12	FREMONT
168370	Well Constructed	JOHNSON CURTIS & BLACKE HELENE	2	12	FREMONT
174707	Well Constructed	TOLLIS, ERNIE P	2	12	FREMONT
177783	Well Constructed	KRIZMAN, ARTHUR	2	12	FREMONT
192134	Well Constructed	BOWERS SPENCER & LINDSEY	2	12	FREMONT
46051F	Well Constructed	CAMP SCHIRADO LLC	2	12	FREMONT
194842	Well Constructed	DUNCAN, GEORGIA L	2	12	FREMONT
194843	Well Constructed	EMBRY, JACK	2	12	FREMONT
194841	Well Constructed	SKEPI, ESAT	2	12	FREMONT
194841	Well Constructed	ROFOFSKY, DAVID W.	2	12	FREMONT
195974	Well Constructed	KUEHL, ROBERT N	2	12	FREMONT
198721	Well Constructed	WILTSE DONALD CHARLES	2	12	FREMONT
198714	Well Constructed	EMBRY, DON J	2	12	FREMONT
198722	Well Constructed	WILTSE DONALD CHARLES	2	12	FREMONT
198715	Well Constructed	BEDFORD RUSSELL & SHARON LEE	2	12	FREMONT
198155	Well Constructed	MOSER MICHAEL & SWENSUN PHYLLIS	2	12	FREMONT
198713	Well Constructed	BAXTER, PAUL	2	12	FREMONT
202223	Well Constructed	ROBINSON, SAMUEL G	2	12	FREMONT
203262	Well Constructed	SHIPPEY, RONALD	2	12	FREMONT
207552	Well Constructed	MILLS ART & PATRICIA	2	12	FREMONT
208605	Well Constructed	COOPER DONALD E & MARTHA J	2	12	FREMONT
213831	Well Constructed	LESKOSKY, BERNICE P	2	12	FREMONT
213835	Well Constructed	MARCHAND GARY JOANN & HELEN	2	12	FREMONT
213832	Well Constructed	LESKOSKY, BERNICE P	2	12	FREMONT
215223	Well Constructed	BAUM, DOUGLAS W	2	12	FREMONT
198714-A	Well Constructed	IGLESIAS, FIDEL	2	12	FREMONT
215395	Well Constructed	DYE, WILLIAM E	2	12	FREMONT
215222	Well Constructed	GARETT, CAROL M	2	12	FREMONT
215394	Well Constructed	BRADSHAW DEAN & PATRICIA	2	12	FREMONT
215218	Well Constructed	BEAN, KEITH D	2	12	FREMONT
217453	Well Constructed	AMMEL HARVEY D & DEANNA L	2	12	FREMONT
221113	Well Constructed	KEELER, JOHN	2	12	FREMONT

Permit	Current Status	Contact Name	DIV	WD	County
233827	Well Constructed	CROSBY, JACKIE	2	12	FREMONT
235767	Well Constructed	NORHOLM, COLLEEN	2	12	FREMONT
237077	Well Constructed	SCHOMCKER DENNIS & KATHLEEN	2	12	FREMONT
238087	Well Constructed	HEYEN RON & JEANETTE	2	12	FREMONT
239701	Well Constructed	ASQUITH, JOHN	2	12	FREMONT
239701	Well Constructed	CARROLL, JANICE	2	12	FREMONT
46052F-R	Well Replaced	CAMP SCHIRADO LLC	2	12	FREMONT
258919	Well Constructed	SIMS JONATHAN M & PASLEY WHITNEY N	2	12	FREMONT
260350	Well Constructed	MARCHAND RANCH	2	12	FREMONT
43342-A	Well Constructed	WILLIAMS, BLAIR	2	12	FREMONT
270239	Well Constructed	TATUM MATTHEW C & KATIA	2	12	FREMONT
275470	Well Constructed	LYNN, STUART C.	2	12	FREMONT
275470	Well Constructed	LYNN, SALLY J.	2	12	FREMONT
276232	Well Constructed	LEWIS-MARTIN, CLAIRE	2	12	FREMONT
215983-A	Well Constructed	CLARK, JAMES	2	12	FREMONT
287455	Well Constructed	PHILLIPS, MICHAEL F	2	12	FREMONT
290267	Well Constructed	ELDRED JACQUE & MARKUS	2	12	FREMONT
292021	Well Constructed	CHALMERS HUGH & ROXANE	2	12	FREMONT
78822F	Well Constructed	FRONT RANGE AGGREGATES LLC	2	12	FREMONT
300506	Well Constructed	BARGER, TROY C	2	12	FREMONT
301600	Well Replaced	FEDIE, MARK	2	12	FREMONT
301597	Well Constructed	TABISH MARK & WENDY	2	12	FREMONT
301601	Well Constructed	FEDIE, MARK	2	12	FREMONT
301598	Well Constructed	SANDERS, JAMES W.	2	12	FREMONT
301603	Well Constructed	FEDIE, MARK	2	12	FREMONT
301598	Well Constructed	SANDERS, NANCY	2	12	FREMONT
301600-A	Well Constructed	CABAY, HEATHER L.	2	12	FREMONT
301600-A	Well Constructed	CABAY, JASON J.	2	12	FREMONT
144365	Well Constructed	ALVIES, DIANE	2	12	FREMONT
44904	Well Constructed	MASSEY, JAN E	2	12	FREMONT
21556	Well Constructed	FREDICKSON WALKER & BOMBERG	2	12	FREMONT
10350	Well Constructed	GOWDY, BENITA F	2	12	FREMONT
44202	Well Constructed	TYLER, ROGER	2	12	FREMONT
8568	Well Constructed	BARTGIS KELLY D & PAMELA J	2	12	FREMONT
47740	Well Constructed	CF&I STEEL CORPORATION	2	12	FREMONT
39396	Well Constructed	MASSEY, JAN E	2	12	FREMONT
43341	Well Constructed	CF & I STEEL CORP	2	12	FREMONT
43342	Well Constructed	CF & I STEEL CORP	2	12	FREMONT
55817	Well Constructed	MOUNT, IMOGEAN	2	12	FREMONT
108315	Well Constructed	BARTGIS KELLY D & PAMELA D	2	12	FREMONT
60502	Well Constructed	STEWART, LEONARD	2	12	FREMONT
68659	Well Constructed	WINKIEWICZ, FRANK	2	12	FREMONT
304787	Well Constructed	CAIN, DANIEL E	2	12	FREMONT
46052F-R	Well Constructed	SCHIRADO, RHONDA J.	2	12	FREMONT
305825	Well Constructed	BARRY, KENNETH J.	2	12	FREMONT
269359	Well Constructed	OWENS RICHARD W & KRISTY ANN	2	12	FREMONT

Permit	Current Status	Contact Name	DIV	WD	County
301599	Well Constructed	HOUDEK, GRETCHEN	2	12	FREMONT
198720	Well Constructed	ANDERSON, DONALD	2	12	FREMONT
198720	Well Constructed	SLEZAK, SUSAN	2	12	FREMONT
269113	Well Constructed	ALVIES, DIANE	2	12	FREMONT
312799	Well Constructed	PARKER, CHRISTOPHER A.	2	12	FREMONT

Permit	Designated Basin	Management District	Denver Basin Aquifer	PM	Township	Range
25221MH	<Null>	<Null>	No	S	18.0 S	71.0 W
30210MH	<Null>	<Null>	No	S	18.0 S	71.0 W
78124	<Null>	<Null>	No	S	18.0 S	71.0 W
88822	<Null>	<Null>	No	S	18.0 S	71.0 W
140871-A	<Null>	<Null>	No	S	18.0 S	71.0 W
145102	<Null>	<Null>	No	S	18.0 S	71.0 W
153943	<Null>	<Null>	No	S	18.0 S	71.0 W
43341-A	<Null>	<Null>	No	S	18.0 S	71.0 W
153943	<Null>	<Null>	No	S	18.0 S	71.0 W
155081	<Null>	<Null>	No	S	18.0 S	71.0 W
155081-A	<Null>	<Null>	No	S	18.0 S	71.0 W
155379	<Null>	<Null>	No	S	18.0 S	71.0 W
47740-A	<Null>	<Null>	No	S	18.0 S	71.0 W
159430	<Null>	<Null>	No	S	18.0 S	71.0 W
162121	<Null>	<Null>	No	S	18.0 S	71.0 W
168370	<Null>	<Null>	No	S	18.0 S	71.0 W
174707	<Null>	<Null>	No	S	18.0 S	71.0 W
177783	<Null>	<Null>	No	S	18.0 S	71.0 W
192134	<Null>	<Null>	No	S	17.0 S	71.0 W
46051F	<Null>	<Null>	No	S	18.0 S	71.0 W
194842	<Null>	<Null>	No	S	18.0 S	71.0 W
194843	<Null>	<Null>	No	S	17.0 S	71.0 W
194841	<Null>	<Null>	No	S	17.0 S	71.0 W
194841	<Null>	<Null>	No	S	17.0 S	71.0 W
195974	<Null>	<Null>	No	S	17.0 S	71.0 W
198721	<Null>	<Null>	No	S	18.0 S	71.0 W
198714	<Null>	<Null>	No	S	17.0 S	71.0 W
198722	<Null>	<Null>	No	S	18.0 S	71.0 W
198715	<Null>	<Null>	No	S	17.0 S	71.0 W
198155	<Null>	<Null>	No	S	17.0 S	71.0 W
198713	<Null>	<Null>	No	S	17.0 S	71.0 W
202223	<Null>	<Null>	No	S	17.0 S	71.0 W
203262	<Null>	<Null>	No	S	18.0 S	71.0 W
207552	<Null>	<Null>	No	S	17.0 S	71.0 W
208605	<Null>	<Null>	No	S	18.0 S	72.0 W
213831	<Null>	<Null>	No	S	18.0 S	71.0 W
213835	<Null>	<Null>	No	S	17.0 S	72.0 W
213832	<Null>	<Null>	No	S	18.0 S	71.0 W
215223	<Null>	<Null>	No	S	17.0 S	71.0 W
198714-A	<Null>	<Null>	No	S	17.0 S	71.0 W
215395	<Null>	<Null>	No	S	17.0 S	71.0 W
215222	<Null>	<Null>	No	S	18.0 S	71.0 W
215394	<Null>	<Null>	No	S	17.0 S	71.0 W
215218	<Null>	<Null>	No	S	18.0 S	71.0 W
217453	<Null>	<Null>	No	S	18.0 S	71.0 W
221113	<Null>	<Null>	No	S	17.0 S	72.0 W

Permit	Designated Basin	Management District	Denver Basin Aquifer	PM	Township	Range
233827	<Null>	<Null>	No	S	18.0 S	71.0 W
235767	<Null>	<Null>	No	S	18.0 S	71.0 W
237077	<Null>	<Null>	No	S	18.0 S	71.0 W
238087	<Null>	<Null>	No	S	18.0 S	71.0 W
239701	<Null>	<Null>	No	S	18.0 S	71.0 W
239701	<Null>	<Null>	No	S	18.0 S	71.0 W
46052F-R	<Null>	<Null>	No	S	18.0 S	71.0 W
258919	<Null>	<Null>	No	S	18.0 S	71.0 W
260350	<Null>	<Null>	No	S	17.0 S	72.0 W
43342-A	<Null>	<Null>	No	S	18.0 S	71.0 W
270239	<Null>	<Null>	No	S	18.0 S	71.0 W
275470	<Null>	<Null>	No	S	18.0 S	71.0 W
275470	<Null>	<Null>	No	S	18.0 S	71.0 W
276232	<Null>	<Null>	No	S	18.0 S	71.0 W
215983-A	<Null>	<Null>	No	S	18.0 S	71.0 W
287455	<Null>	<Null>	No	S	18.0 S	71.0 W
290267	<Null>	<Null>	No	S	18.0 S	71.0 W
292021	<Null>	<Null>	No	S	18.0 S	71.0 W
78822F	<Null>	<Null>	No	S	18.0 S	72.0 W
300506	<Null>	<Null>	No	S	17.0 S	72.0 W
301600	<Null>	<Null>	No	S	17.0 S	72.0 W
301597	<Null>	<Null>	No	S	17.0 S	72.0 W
301601	<Null>	<Null>	No	S	17.0 S	72.0 W
301598	<Null>	<Null>	No	S	17.0 S	72.0 W
301603	<Null>	<Null>	No	S	17.0 S	72.0 W
301598	<Null>	<Null>	No	S	17.0 S	72.0 W
301600-A	<Null>	<Null>	No	S	17.0 S	72.0 W
301600-A	<Null>	<Null>	No	S	17.0 S	72.0 W
144365	<Null>	<Null>	No	S	18.0 S	71.0 W
44904	<Null>	<Null>	No	S	18.0 S	71.0 W
21556	<Null>	<Null>	No	S	18.0 S	71.0 W
10350	<Null>	<Null>	No	S	18.0 S	71.0 W
44202	<Null>	<Null>	No	S	18.0 S	71.0 W
8568	<Null>	<Null>	No	S	17.0 S	72.0 W
47740	<Null>	<Null>	No	S	18.0 S	71.0 W
39396	<Null>	<Null>	No	S	18.0 S	71.0 W
43341	<Null>	<Null>	No	S	18.0 S	71.0 W
43342	<Null>	<Null>	No	S	18.0 S	71.0 W
55817	<Null>	<Null>	No	S	17.0 S	71.0 W
108315	<Null>	<Null>	No	S	17.0 S	72.0 W
60502	<Null>	<Null>	No	S	18.0 S	71.0 W
68659	<Null>	<Null>	No	S	18.0 S	71.0 W
304787	<Null>	<Null>	No	S	18.0 S	71.0 W
46052F-R	<Null>	<Null>	No	S	18.0 S	71.0 W
305825	<Null>	<Null>	No	S	17.0 S	72.0 W
269359	<Null>	<Null>	No	S	17.0 S	71.0 W

Permit	Designated Basin	Management District	Denver Basin Aquifer	PM	Township	Range
301599	<Null>	<Null>	No	S	17.0 S	72.0 W
198720	<Null>	<Null>	No	S	18.0 S	71.0 W
198720	<Null>	<Null>	No	S	18.0 S	71.0 W
269113	<Null>	<Null>	No	S	18.0 S	71.0 W
312799	<Null>	<Null>	No	S	17.0 S	72.0 W

Permit	Township_D	Range_D	Section	Q10	Q40	Q160	CoordsEW	CoordsEW Dir	CoordsNS
25221MH	-18	-71	8	<Null>	NE	NE	<Null>	<Null>	<Null>
30210MH	-18	-71	8	<Null>	SW	NE	<Null>	<Null>	<Null>
78124	-18	-71	8	<Null>	SE	SE	16	E	150
88822	-18	-71	5	<Null>	SE	SE	1086	E	1150
140871-A	-18	-71	5	<Null>	SE	SE	900	E	500
145102	-18	-71	8	<Null>	SE	NE	300	E	2600
153943	-18	-71	5	<Null>	NW	SW	2170	W	1740
43341-A	-18	-71	7	<Null>	SE	SW	4224	E	3960
153943	-18	-71	5	<Null>	NW	SW	2170	W	1740
155081	-18	-71	9	<Null>	SW	NW	600	W	1800
155081-A	-18	-71	9	<Null>	SW	NW	760	W	2080
155379	-18	-71	17	<Null>	NW	SE	2900	W	3500
47740-A	-18	-71	7	<Null>	SW	SW	890	W	1040
159430	-18	-71	9	<Null>	SW	SW	500	W	1000
162121	-18	-71	8	<Null>	SW	SW	1100	W	100
168370	-18	-71	17	<Null>	SE	SE	660	E	660
174707	-18	-71	17	<Null>	SE	NE	845	E	1745
177783	-18	-71	8	<Null>	SE	NE	150	E	1450
192134	-17	-71	32	<Null>	NW	SW	900	W	1520
46051F	-18	-71	8	<Null>	NE	NE	400	E	1300
194842	-18	-71	6	<Null>	NE	NE	400	E	800
194843	-17	-71	31	<Null>	SE	SE	400	E	200
194841	-17	-71	31	<Null>	SE	SW	2500	W	1162
194841	-17	-71	31	<Null>	SE	SW	2500	W	1162
195974	-17	-71	32	<Null>	NW	SW	800	W	1400
198721	-18	-71	6	<Null>	NE	NW	1850	<Null>	450
198714	-17	-71	31	<Null>	SW	NW	1250	W	2050
198722	-18	-71	6	<Null>	NE	NW	2300	W	450
198715	-17	-71	31	<Null>	SW	NW	400	W	2050
198155	-17	-71	31	<Null>	NE	SW	2200	W	2300
198713	-17	-71	31	<Null>	NW	SE	2850	W	1600
202223	-17	-71	32	<Null>	SW	SW	500	W	100
203262	-18	-71	8	<Null>	SW	NE	1600	E	2000
207552	-17	-71	30	<Null>	SW	SW	1000	W	100
208605	-18	-72	11	<Null>	SE	SE	530	E	725
213831	-18	-71	17	<Null>	NE	SE	850	E	2550
213835	-17	-72	26	<Null>	SE	SE	400	E	1120
213832	-18	-71	17	<Null>	NE	SE	660	E	1980
215223	-17	-71	31	<Null>	SW	SE	2000	E	800
198714-A	-17	-71	31	<Null>	SW	NW	1070	W	1640
215395	-17	-71	31	<Null>	NW	SW	1100	W	1600
215222	-18	-71	6	<Null>	NW	NW	500	W	550
215394	-17	-71	31	<Null>	NW	SW	525	W	1550
215218	-18	-71	6	<Null>	NW	NW	200	W	550
217453	-18	-71	6	<Null>	NW	NE	1910	E	390
221113	-17	-72	25	<Null>	SE	SW	2400	W	1000

Permit	Township_D	Range_D	Section	Q10	Q40	Q160	CoordsEW	CoordsEW Dir	CoordsNS
233827	-18	-71	5	<Null>	NE	SW	1200	W	2700
235767	-18	-71	8	<Null>	NW	NE	1980	E	660
237077	-18	-71	5	<Null>	SE	SW	2400	W	450
238087	-18	-71	8	<Null>	NW	NW	525	W	375
239701	-18	-71	5	<Null>	SE	SW	1500	W	1050
239701	-18	-71	5	<Null>	SE	SW	1500	W	1050
46052F-R	-18	-71	8	<Null>	NE	NE	59	E	169
258919	-18	-71	5	<Null>	SW	SE	2025	E	900
260350	-17	-72	26	<Null>	NW	SW	854	W	85
43342-A	-18	-71	18	<Null>	NW	NE	2415	E	10
270239	-18	-71	4	<Null>	SW	NW	336	W	546
275470	-18	-71	5	<Null>	NE	NE	26	E	646
275470	-18	-71	5	<Null>	NE	NE	26	E	646
276232	-18	-71	8	<Null>	NW	NW	582	W	321
215983-A	-18	-71	7	<Null>	NE	SE	749	E	2383
287455	-18	-71	8	<Null>	NW	NE	1814	E	1055
290267	-18	-71	8	<Null>	NW	SE	2043	E	1481
292021	-18	-71	5	<Null>	SE	SE	850	E	900
78822F	-18	-72	12	<Null>	SE	SW	1744	W	672
300506	-17	-72	36	<Null>	NE	NW	1377	W	739
301600	-17	-72	36	<Null>	SE	NE	960	E	2438
301597	-17	-72	36	<Null>	<Null>	<Null>	2595	W	2305
301601	-17	-72	36	<Null>	<Null>	<Null>	1176	E	2059
301598	-17	-72	36	<Null>	<Null>	<Null>	2589	E	1514
301603	-17	-72	36	<Null>	NW	SE	1935	E	2162
301598	-17	-72	36	<Null>	<Null>	<Null>	2589	E	1514
301600-A	-17	-72	36	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>
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144365	-18	-71	17	<Null>	NW	NE	1625	E	400
44904	-18	-71	8	<Null>	NE	NE	600	E	100
21556	-18	-71	17	<Null>	NE	NW	<Null>	<Null>	<Null>
10350	-18	-71	5	<Null>	NE	NE	1041	W	185
44202	-18	-71	8	<Null>	NE	NE	<Null>	<Null>	<Null>
8568	-17	-72	26	<Null>	SE	SW	<Null>	<Null>	<Null>
47740	-18	-71	7	<Null>	SW	SW	2090	W	500
39396	-18	-71	8	<Null>	NE	NE	372	E	100
43341	-18	-71	7	<Null>	SE	SW	2360	W	280
43342	-18	-71	18	<Null>	NW	NE	2530	E	140
55817	-17	-71	31	<Null>	NE	SE	<Null>	<Null>	<Null>
108315	-17	-72	34	<Null>	NE	NE	50	E	800
60502	-18	-71	8	<Null>	NE	SE	<Null>	<Null>	<Null>
68659	-18	-71	5	<Null>	SE	SE	570	E	310
304787	-18	-71	5	<Null>	NW	NE	<Null>	<Null>	<Null>
46052F-R	-18	-71	8	<Null>	NE	NE	<Null>	<Null>	<Null>
305825	-17	-72	36	<Null>	NW	SE	<Null>	<Null>	<Null>
269359	-17	-71	31	<Null>	SW	NW	<Null>	<Null>	<Null>

Permit	Township_D	Range_D	Section	Q10	Q40	Q160	CoordsEW	CoordsEW Dir	CoordsNS
301599	-17	-72	36	<Null>	SE	SW	<Null>	<Null>	<Null>
198720	-18	-71	6	<Null>	NE	NW	<Null>	<Null>	<Null>
198720	-18	-71	6	<Null>	NE	NW	<Null>	<Null>	<Null>
269113	-18	-71	17	<Null>	NW	NE	<Null>	<Null>	<Null>
312799	-17	-72	36	<Null>	NE	SW	<Null>	<Null>	<Null>

Permit	CoordsNS Dir	UTM x	UTM y	Latitude	Longitude	Location Accuracy
25221MH	<Null>	469494.8	4261460.6	38.500984	-105.349843	Spotted from quarters
30210MH	<Null>	469146.6	4261050.6	38.497277	-105.353818	Spotted from quarters
78124	S	469751.4	4260092	38.488659	-105.346841	Spotted from section lines
88822	S	469316.4	4262008	38.505911	-105.351913	Spotted from section lines
140871-A	S	469385.4	4261812.1	38.504148	-105.351113	Spotted from section lines
145102	N	469621.5	4260873.6	38.495698	-105.348365	Spotted from section lines
153943	S	468893.2	4262176.6	38.507416	-105.356774	Spotted from section lines
43341-A	N	466965.9	4260396.1	38.491301	-105.378794	Spotted from section lines
153943	S	468893.2	4262176.6	38.507416	-105.356774	Spotted from section lines
155081	N	469882.1	4261126.1	38.497983	-105.345387	Spotted from section lines
155081-A	N	469935.6	4261043.1	38.497237	-105.34477	Spotted from section lines
155379	N	469198.2	4258982.1	38.478638	-105.353135	Spotted from section lines
47740-A	S	466964.3	4260310.1	38.490526	-105.378809	Spotted from section lines
159430	S	469894.3	4260352.6	38.491012	-105.345214	Spotted from section lines
162121	S	468607.2	4260077.1	38.488485	-105.35996	Spotted from section lines
168370	S	469676.9	4258639.6	38.475568	-105.347633	Spotted from section lines
174707	N	469546.1	4259516.1	38.483462	-105.34917	Spotted from section lines
177783	N	469647.8	4261224.6	38.498862	-105.348078	Spotted from section lines
192134	S	468571.6	4263644	38.52063	-105.360529	Spotted from section lines
46051F	N	469569.2	4261268.1	38.499252	-105.348981	Spotted from section lines
194842	N	468172.4	4262925.1	38.514136	-105.365075	Spotted from section lines
194843	S	468189.8	4263233.1	38.516912	-105.36489	Spotted from section lines
194841	S	466979.5	4263523.1	38.519481	-105.378786	Spotted from section lines
194841	S	466979.5	4263523.1	38.519481	-105.378786	Spotted from section lines
195974	S	468542.5	4263606.6	38.520291	-105.360861	Spotted from section lines
198721	N	467283.4	4262946.5	38.514296	-105.375273	User supplied
198714	N	466610	4264114.6	38.524798	-105.383053	Spotted from section lines
198722	N	467376.8	4263005.6	38.514832	-105.374205	Spotted from section lines
198715	N	466350.9	4264111.6	38.524761	-105.386025	Spotted from section lines
198155	S	466894.8	4263869.6	38.522601	-105.379774	Spotted from section lines
198713	S	467088.8	4263657.1	38.520693	-105.377539	Spotted from section lines
202223	S	468465.1	4263207.6	38.516692	-105.361731	Spotted from section lines
203262	N	469215.5	4261046.1	38.497239	-105.353028	Spotted from section lines
207552	S	466546.7	4264769.1	38.530694	-105.38381	Spotted from section lines
208605	N	464881.6	4261476.6	38.500958	-105.402748	Spotted from section lines
213831	S	469570.2	4259214	38.480741	-105.348881	Spotted from section lines
213835	S	464497.9	4265099.1	38.533589	-105.407333	Spotted from section lines
213832	S	469642.9	4259041.1	38.479185	-105.34804	Spotted from section lines
215223	S	467695.6	4263414.6	38.51853	-105.370567	Spotted from section lines
198714-A	N	466557.6	4264239.1	38.525918	-105.38366	Spotted from section lines
215395	S	466555.4	4263655.6	38.52066	-105.383657	Spotted from section lines
215222	N	466827.8	4262957	38.514375	-105.380499	Spotted from section lines
215394	S	466379.9	4263640.1	38.520513	-105.38567	Spotted from section lines
215218	N	466736.4	4262954.1	38.514345	-105.381548	Spotted from section lines
217453	N	467722.4	4263035.1	38.515111	-105.370242	Spotted from section lines
221113	S	465350.8	4265051.1	38.53319	-105.397545	Spotted from section lines

Permit	CoordsNS Dir	UTM x	UTM y	Latitude	Longitude	Location Accuracy
233827	N	468613.3	4262362.6	38.509082	-105.359993	Spotted from section lines
235767	N	469077	4261451.1	38.500884	-105.354634	Spotted from section lines
237077	S	468931.7	4261785.6	38.503894	-105.356315	Spotted from section lines
238087	N	468355.4	4261520.1	38.501481	-105.362913	Spotted from section lines
239701	S	468672.2	4261961.1	38.505466	-105.359299	Spotted from section lines
239701	S	468672.2	4261961.1	38.505466	-105.359299	Spotted from section lines
46052F-R	N	469654	4261615.1	38.502382	-105.348024	Spotted from section lines
258919	S	469035	4261925	38.505153	-105.355137	Spotted from section lines
260350	S	463251.8	4264804.5	38.530883	-105.421614	Spotted from section lines
43342-A	N	467538.3	4260013.5	38.487873	-105.372213	Spotted from section lines
270239	N	469685.1	4263054	38.51535	-105.34773	Spotted from section lines
275470	N	469577	4263013	38.51498	-105.34897	User supplied
275470	N	469577	4263013	38.51498	-105.34897	User supplied
276232	N	468371.9	4261537	38.50163	-105.36272	Spotted from section lines
215983-A	S	468007	4260763	38.494645	-105.366873	Spotted from section lines
287455	N	469134.3	4261332	38.499813	-105.353972	Spotted from section lines
290267	S	469110.9	4260497.5	38.492291	-105.354203	Spotted from section lines
292021	S	469393.1	4261934	38.505246	-105.35103	Spotted from section lines
78822F	S	465546.7	4260255.8	38.489983	-105.395061	User supplied
300506	N	465037	4264525	38.528436	-105.401119	User supplied
301600	N	465934.2	4263996	38.523704	-105.3908	Spotted from section lines
301597	N	465393.8	4264043	38.524106	-105.397001	Spotted from section lines
301601	S	465864.5	4263795.5	38.521894	-105.39159	Spotted from section lines
301598	S	465430.6	4263630.5	38.520391	-105.396559	Spotted from section lines
301603	S	465633.7	4263827.5	38.522174	-105.394239	Spotted from section lines
301598	S	465430.6	4263630.5	38.520391	-105.396559	Spotted from section lines
301600-A	<Null>	465418	4263957	38.523332	-105.39672	Spotted from quarters
301600-A	<Null>	465418	4263957	38.523332	-105.39672	Spotted from quarters
144365	N	469273.7	4259925.1	38.487139	-105.352311	Spotted from section lines
44904	N	469488	4261632.1	38.502529	-105.349929	Spotted from section lines
21556	<Null>	468841.6	4259847.1	38.486421	-105.357262	Spotted from quarters
10350	N	468626.5	4263126.5	38.51597	-105.35988	Spotted from section lines
44202	<Null>	469494.8	4261460.6	38.500984	-105.349843	Spotted from quarters
8568	<Null>	463604.7	4264973.6	38.532422	-105.417574	Spotted from quarters
47740	S	467335.5	4260161	38.489196	-105.374545	Spotted from section lines
39396	N	469557.5	4261633.6	38.502545	-105.349132	Spotted from section lines
43341	S	467420	4260097.1	38.488623	-105.373574	Spotted from section lines
43342	N	467504.7	4259972.6	38.487504	-105.372597	Spotted from section lines
55817	<Null>	468111.8	4263759.6	38.521654	-105.365808	Spotted from quarters
108315	N	462985.3	4264539.6	38.528485	-105.424657	Spotted from section lines
60502	<Null>	469539.3	4260652.6	38.493704	-105.349298	Spotted from quarters
68659	S	469489.6	4261756.5	38.503651	-105.349916	Spotted from section lines
304787	<Null>	468901	4263025	38.515068	-105.356732	GPS
46052F-R	<Null>	469654	4261615	38.502387	-105.348034	GPS
305825	<Null>	465478	4263918	38.522989	-105.396039	GPS
269359	<Null>	466860.3	4264288.5	38.526376	-105.380203	User supplied

Permit	CoordsNS Dir	UTM x	UTM y	Latitude	Longitude	Location Accuracy
301599	<Null>	465089	4263565	38.519793	-105.400484	User supplied
198720	<Null>	467102.6	4262996.5	38.514742	-105.377355	User supplied
198720	<Null>	467102.6	4262996.5	38.514742	-105.377355	User supplied
269113	<Null>	469244	4260003	38.487846	-105.352665	User supplied
312799	<Null>	465271	4263730	38.521287	-105.398405	User supplied

Permit	Parcel Name	Address	City	State	Postal Code
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30210MH	<Null>	<Null>	<Null>	<Null>	<Null>
78124	<Null>	<Null>	<Null>	<Null>	<Null>
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140871-A	CROWFOOT/NIMMO	<Null>	<Null>	<Null>	<Null>
145102	<Null>	<Null>	<Null>	<Null>	<Null>
153943	<Null>	321 COUNTY RD 353A	CANON CITY	CO	81212
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47740-A	<Null>	<Null>	<Null>	<Null>	<Null>
159430	<Null>	<Null>	<Null>	<Null>	<Null>
162121	<Null>	<Null>	<Null>	<Null>	<Null>
168370	<Null>	<Null>	<Null>	<Null>	<Null>
174707	<Null>	<Null>	<Null>	<Null>	<Null>
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46051F	<Null>	<Null>	<Null>	<Null>	<Null>
194842	CACTUS MOUNTAIN RANCH	<Null>	<Null>	<Null>	<Null>
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194841	CACTUS MOUNTAIN RANCH	<Null>	<Null>	<Null>	<Null>
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195974	KUEHL RANCHETTES	<Null>	<Null>	<Null>	<Null>
198721	CACTUS MOUNTAIN ESTATES	<Null>	<Null>	<Null>	<Null>
198714	CACTUS MOUNTAIN ESTATES	<Null>	<Null>	<Null>	<Null>
198722	CACTUS MOUNTAIN ESTATES	<Null>	<Null>	<Null>	<Null>
198715	CACTUS MOUNTAIN ESTATES	<Null>	<Null>	<Null>	<Null>
198155	CACTUS MOUNTAIN	<Null>	<Null>	<Null>	<Null>
198713	CACTUS MOUNTAIN ESTATES	<Null>	<Null>	<Null>	<Null>
202223	KUEHL RANCHETTES	<Null>	<Null>	<Null>	<Null>
203262	<Null>	<Null>	<Null>	<Null>	<Null>
207552	<Null>	<Null>	<Null>	<Null>	<Null>
208605	<Null>	<Null>	<Null>	<Null>	<Null>
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198714-A	CACTUS MOUNTAIN ESTATES	<Null>	<Null>	<Null>	<Null>
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215222	CACTUS MOUNTAIN ESTATES	<Null>	<Null>	<Null>	<Null>
215394	CACTUS MOUNTAIN ESTATES	<Null>	<Null>	<Null>	<Null>
215218	CACTUS MOUNTAIN ESTATES	<Null>	<Null>	<Null>	<Null>
217453	CACTUS MOUNTAIN ESTATES	<Null>	<Null>	<Null>	<Null>
221113	<Null>	3700 STATE HWY 9	CANON CITY	CO	81212

Permit	Parcel Name	Address	City	State	Postal Code
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237077	STAR RANCH	<Null>	<Null>	<Null>	<Null>
238087	STAR RANCH	<Null>	<Null>	<Null>	<Null>
239701	STAR RANCH	<Null>	<Null>	<Null>	<Null>
239701	STAR RANCH	<Null>	<Null>	<Null>	<Null>
46052F-R	<Null>	<Null>	<Null>	<Null>	<Null>
258919	<Null>	<Null>	<Null>	<Null>	<Null>
260350	<Null>	<Null>	<Null>	<Null>	<Null>
43342-A	<Null>	<Null>	<Null>	<Null>	<Null>
270239	<Null>	<Null>	<Null>	<Null>	<Null>
275470	<Null>	1094 COUNTY ROAD 62	CANYON CITY	CO	81212
275470	<Null>	1094 COUNTY ROAD 62	CANYON CITY	CO	81212
276232	STAR RANCH	<Null>	<Null>	<Null>	<Null>
215983-A	<Null>	<Null>	<Null>	<Null>	<Null>
287455	STAR RANCH	<Null>	<Null>	<Null>	<Null>
290267	ROYAL GORGE BLUFFS	<Null>	<Null>	<Null>	<Null>
292021	CROWFOOT/NIMMO	<Null>	<Null>	<Null>	<Null>
78822F	<Null>	<Null>	<Null>	<Null>	<Null>
300506	DOUBLE CREEK RANCH	<Null>	<Null>	<Null>	<Null>
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301601	DOUBLE CREEK RANCH	<Null>	<Null>	<Null>	<Null>
301598	DOUBLE CREEK RANCH	<Null>	<Null>	<Null>	<Null>
301603	DOUBLE CREEK RANCH	<Null>	<Null>	<Null>	<Null>
301598	DOUBLE CREEK RANCH	<Null>	<Null>	<Null>	<Null>
301600-A	DOUBLE CREEK RANCH	<Null>	<Null>	<Null>	<Null>
301600-A	DOUBLE CREEK RANCH	<Null>	<Null>	<Null>	<Null>
144365	<Null>	<Null>	<Null>	<Null>	<Null>
44904	<Null>	<Null>	<Null>	<Null>	<Null>
21556	<Null>	<Null>	<Null>	<Null>	<Null>
10350	<Null>	<Null>	<Null>	<Null>	<Null>
44202	<Null>	<Null>	<Null>	<Null>	<Null>
8568	<Null>	<Null>	<Null>	<Null>	<Null>
47740	<Null>	<Null>	<Null>	<Null>	<Null>
39396	<Null>	<Null>	<Null>	<Null>	<Null>
43341	<Null>	<Null>	<Null>	<Null>	<Null>
43342	<Null>	<Null>	<Null>	<Null>	<Null>
55817	<Null>	<Null>	<Null>	<Null>	<Null>
108315	<Null>	<Null>	<Null>	<Null>	<Null>
60502	<Null>	<Null>	<Null>	<Null>	<Null>
68659	<Null>	<Null>	<Null>	<Null>	<Null>
304787	<Null>	<Null>	<Null>	<Null>	<Null>
46052F-R	<Null>	43595 US HWY 50	CANON CITY	CO	81212
305825	DOUBLE CREEK RANCH	<Null>	<Null>	<Null>	<Null>
269359	<Null>	2520 STATE HWY 9	CANON CITY	CO	81212

Permit	Parcel Name	Address	City	State	Postal Code
301599	DOUBLE CREEK RANCH	1111 HORSESHOE DR	CANON CITY	CO	81212
198720	CACTUS MOUNTAIN ESTATES	34 CACTUS DR W	CANON CITY	CO	81212
198720	CACTUS MOUNTAIN ESTATES	34 CACTUS DR W	CANON CITY	CO	81212
269113	<Null>	<Null>	<Null>	<Null>	<Null>
312799	DOUBLE CREEK RANCH	38 DOUBLE CREEK RD	CANYON CITY	CO	81212

Permit	Location Type	Permit Category	Permit Issued
25221MH	Well (Application/Permit)	Monitoring Hole (Notice of Intent)	2/28/1995
30210MH	Well (Application/Permit)	Monitoring Hole (Notice of Intent)	3/4/1997
78124	Well (Application/Permit)	Residential	2/20/1975
88822	Well (Application/Permit)	Residential	3/16/1977
140871-A	Well (Application/Permit)	Residential	8/20/1985
145102	Well (Application/Permit)	Residential	8/25/1987
153943	Well (Application/Permit)	Residential	4/28/1989
43341-A	Well (Application/Permit)	Residential	7/10/1989
153943	Well (Application/Permit)	Residential	4/28/1989
155081	Well (Application/Permit)	Residential	8/22/1989
155081-A	Well (Application/Permit)	Residential	8/22/1989
155379	Well (Application/Permit)	Residential	9/22/1989
47740-A	Well (Application/Permit)	Residential	5/30/1990
159430	Well (Application/Permit)	Residential	2/19/1991
162121	Well (Application/Permit)	Residential	10/23/1991
168370	Well (Application/Permit)	Residential	2/2/1993
174707	Well (Application/Permit)	Residential	11/19/1993
177783	Well (Application/Permit)	Residential	5/6/1994
192134	Well (Application/Permit)	Residential	12/27/1995
46051F	Well (Application/Permit)	General Purpose	2/1/1996
194842	Well (Application/Permit)	Residential	5/9/1996
194843	Well (Application/Permit)	Residential	5/9/1996
194841	Well (Application/Permit)	Residential	5/9/1996
194841	Well (Application/Permit)	Residential	5/9/1996
195974	Well (Application/Permit)	Residential	6/24/1996
198721	Well (Application/Permit)	Residential	10/3/1996
198714	Well (Application/Permit)	Residential	10/3/1996
198722	Well (Application/Permit)	Residential	10/3/1996
198715	Well (Application/Permit)	Residential	10/3/1996
198155	Well (Application/Permit)	Residential	9/13/1996
198713	Well (Application/Permit)	Residential	10/3/1996
202223	Well (Application/Permit)	Residential	4/17/1997
203262	Well (Application/Permit)	Residential	6/11/1997
207552	Well (Application/Permit)	Residential	1/15/1998
208605	Well (Application/Permit)	Residential	3/17/1998
213831	Well (Application/Permit)	Residential	11/12/1998
213835	Well (Application/Permit)	Residential	11/12/1998
213832	Well (Application/Permit)	Residential	11/12/1998
215223	Well (Application/Permit)	Residential	1/20/1999
198714-A	Well (Application/Permit)	Residential	2/11/1999
215395	Well (Application/Permit)	Residential	1/28/1999
215222	Well (Application/Permit)	Residential	1/20/1999
215394	Well (Application/Permit)	Residential	1/28/1999
215218	Well (Application/Permit)	Residential	1/20/1999
217453	Well (Application/Permit)	Residential	5/12/1999
221113	Well (Application/Permit)	Residential	10/8/1999

Permit	Location Type	Permit Category	Permit Issued
233827	Well (Application/Permit)	Residential	6/5/2001
235767	Well (Application/Permit)	Residential	8/28/2001
237077	Well (Application/Permit)	Residential	10/23/2001
238087	Well (Application/Permit)	Residential	12/4/2001
239701	Well (Application/Permit)	Residential	3/27/2002
239701	Well (Application/Permit)	Residential	3/27/2002
46052F-R	Well (Application/Permit)	General Purpose	7/25/2003
258919	Well (Application/Permit)	Residential	8/27/2004
260350	Well (Application/Permit)	Residential	11/15/2004
43342-A	Well (Application/Permit)	Residential	5/2/2006
270239	Well (Application/Permit)	Residential	8/21/2006
275470	Well (Application/Permit)	Residential	10/1/2007
275470	Well (Application/Permit)	Residential	10/1/2007
276232	Well (Application/Permit)	Residential	12/17/2007
215983-A	Well (Application/Permit)	Residential	9/11/2009
287455	Well (Application/Permit)	Residential	2/1/2012
290267	Well (Application/Permit)	Residential	2/1/2013
292021	Well (Application/Permit)	Residential	7/22/2013
78822F	Well (Application/Permit)	Gravel Pit	2/9/2015
300506	Well (Application/Permit)	Residential	3/18/2016
301600	Well (Application/Permit)	Residential	6/16/2016
301597	Well (Application/Permit)	Residential	6/16/2016
301601	Well (Application/Permit)	Residential	6/16/2016
301598	Well (Application/Permit)	Residential	6/16/2016
301603	Well (Application/Permit)	Residential	6/16/2016
301598	Well (Application/Permit)	Residential	6/16/2016
301600-A	Well (Application/Permit)	Residential	1/26/2017
301600-A	Well (Application/Permit)	Residential	1/26/2017
144365	Well (Application/Permit)	Residential	<Null>
44904	Well (Application/Permit)	Residential	3/18/1971
21556	Well (Application/Permit)	Residential	<Null>
10350	Well (Application/Permit)	Residential	<Null>
44202	Well (Application/Permit)	Residential	<Null>
8568	Well (Application/Permit)	Residential	<Null>
47740	Well (Application/Permit)	Residential	<Null>
39396	Well (Application/Permit)	Residential	9/22/1969
43341	Well (Application/Permit)	Residential	<Null>
43342	Well (Application/Permit)	Residential	<Null>
55817	Well (Application/Permit)	Residential	4/6/1972
108315	Well (Application/Permit)	Residential	<Null>
60502	Well (Application/Permit)	Residential	5/9/1972
68659	Well (Application/Permit)	Residential	5/1/1973
304787	Well (Construction Report)	Residential	3/9/2017
46052F-R	Well (Construction Report)	General Purpose	7/12/2017
305825	Well (Construction Report)	Residential	6/19/2017
269359	Well (Construction Report)	Residential	6/14/2006

Permit	Location Type	Permit Category	Permit Issued
301599	Well (Construction Report)	Residential	6/16/2016
198720	Well (Construction Report)	Residential	10/3/1996
198720	Well (Construction Report)	Residential	10/3/1996
269113	Well (Construction Report)	Residential	5/30/2006
312799	Well (Construction Report)	Residential	3/15/2019

Permit	First Beneficial Use	Permit Expires	Well Constructed	Pump Installed	Well Plugged
25221MH	<Null>	5/28/1995	3/14/1995	<Null>	<Null>
30210MH	<Null>	6/4/1997	3/21/1997	<Null>	<Null>
78124	<Null>	<Null>	10/14/1975	<Null>	<Null>
88822	11/21/1967	<Null>	<Null>	<Null>	<Null>
140871-A	<Null>	8/20/1987	10/8/1985	9/15/1995	<Null>
145102	<Null>	<Null>	9/22/1988	<Null>	<Null>
153943	1/15/1967	<Null>	<Null>	<Null>	<Null>
43341-A	<Null>	<Null>	6/15/1989	6/16/1989	<Null>
153943	1/15/1967	<Null>	<Null>	<Null>	<Null>
155081	8/31/1954	<Null>	<Null>	<Null>	<Null>
155081-A	<Null>	<Null>	6/15/1989	6/16/1989	<Null>
155379	<Null>	9/22/1991	10/21/1989	<Null>	<Null>
47740-A	<Null>	<Null>	5/29/1990	<Null>	<Null>
159430	<Null>	<Null>	3/8/1991	5/12/1992	<Null>
162121	<Null>	<Null>	11/15/1992	<Null>	<Null>
168370	<Null>	<Null>	3/11/1993	8/17/1994	<Null>
174707	<Null>	11/19/1995	<Null>	1/4/1994	<Null>
177783	<Null>	5/6/1996	10/7/1993	<Null>	<Null>
192134	<Null>	12/27/1997	4/30/1996	5/30/1996	<Null>
46051F	4/1/1996	2/1/1997	3/14/1995	3/10/1997	<Null>
194842	<Null>	5/9/1998	6/10/1996	5/18/1997	<Null>
194843	<Null>	5/9/1998	6/7/1996	2/28/1997	<Null>
194841	<Null>	5/9/1998	8/30/1996	<Null>	<Null>
194841	<Null>	5/9/1998	8/30/1996	<Null>	<Null>
195974	<Null>	6/24/1998	6/5/1996	7/1/1996	<Null>
198721	<Null>	10/3/1998	5/12/1997	<Null>	<Null>
198714	<Null>	10/3/1998	9/18/1998	<Null>	<Null>
198722	<Null>	10/3/1998	<Null>	10/20/1997	<Null>
198715	<Null>	10/3/1998	10/2/1998	10/19/1998	<Null>
198155	<Null>	9/13/1998	9/18/1996	4/19/1997	<Null>
198713	<Null>	10/3/1998	9/25/1998	<Null>	<Null>
202223	<Null>	4/17/1999	<Null>	6/10/1997	<Null>
203262	<Null>	6/11/1999	3/21/1997	7/16/2002	<Null>
207552	12/31/1950	<Null>	6/15/1968	<Null>	<Null>
208605	12/31/1960	<Null>	12/31/1960	<Null>	<Null>
213831	<Null>	11/12/2000	5/26/2000	6/23/2005	<Null>
213835	12/31/1936	<Null>	<Null>	<Null>	<Null>
213832	<Null>	11/12/2000	7/13/1987	<Null>	<Null>
215223	<Null>	1/20/2001	1/30/1999	3/16/1999	<Null>
198714-A	<Null>	2/11/2001	2/13/1999	3/11/1999	<Null>
215395	<Null>	1/28/2001	2/2/1999	2/8/2002	<Null>
215222	<Null>	1/20/2001	1/28/1999	3/22/1999	<Null>
215394	<Null>	1/28/2001	2/1/1999	4/20/2000	<Null>
215218	<Null>	1/20/2001	1/29/1999	3/19/1999	<Null>
217453	<Null>	5/12/2001	4/6/1992	<Null>	<Null>

221113	<Null>	10/8/2001	11/9/1999	<Null>	<Null>

Permit	First Beneficial Use	Permit Expires	Well Constructed	Pump Installed	Well Plugged
233827	<Null>	6/5/2003	7/31/2001	<Null>	<Null>
235767	<Null>	8/28/2003	12/27/2001	<Null>	<Null>
237077	<Null>	10/23/2003	10/31/2001	<Null>	<Null>
238087	<Null>	12/4/2003	1/3/2002	<Null>	<Null>
239701	<Null>	3/27/2004	5/2/2002	<Null>	<Null>
239701	<Null>	3/27/2004	5/2/2002	<Null>	<Null>
46052F-R	<Null>	7/25/2004	8/20/2003	8/24/2003	<Null>
258919	<Null>	8/27/2006	10/6/2004	<Null>	<Null>
260350	<Null>	11/15/2006	1/17/2005	1/21/2005	<Null>
43342-A	<Null>	5/2/2008	7/14/2006	<Null>	<Null>
270239	<Null>	8/21/2008	10/10/2006	1/11/2007	<Null>
275470	<Null>	10/1/2009	1/16/2008	4/11/2008	<Null>
275470	<Null>	10/1/2009	1/16/2008	4/11/2008	<Null>
276232	<Null>	12/17/2009	1/8/2008	1/31/2008	<Null>
215983-A	<Null>	9/11/2011	9/18/2009	9/24/2009	<Null>
287455	<Null>	2/1/2014	2/28/2012	<Null>	<Null>
290267	<Null>	2/1/2015	10/22/2013	<Null>	<Null>
292021	<Null>	<Null>	3/26/2004	<Null>	<Null>
78822F	<Null>	<Null>	10/18/2004	12/4/2004	<Null>
300506	<Null>	3/18/2018	4/13/2016	<Null>	<Null>
301600	<Null>	6/16/2018	8/25/2016	<Null>	10/6/2016
301597	<Null>	6/16/2018	9/15/2016	<Null>	<Null>
301601	<Null>	6/16/2018	8/31/2016	<Null>	<Null>
301598	<Null>	6/16/2018	3/17/2017	<Null>	<Null>
301603	<Null>	6/16/2018	9/12/2016	<Null>	<Null>
301598	<Null>	6/16/2018	3/17/2017	<Null>	<Null>
301600-A	<Null>	1/26/2019	3/15/2017	<Null>	<Null>
301600-A	<Null>	1/26/2019	3/15/2017	<Null>	<Null>
144365	7/14/1986	<Null>	<Null>	<Null>	<Null>
44904	<Null>	<Null>	<Null>	<Null>	<Null>
21556	9/23/1964	<Null>	<Null>	<Null>	<Null>
10350	8/28/1961	<Null>	<Null>	<Null>	<Null>
44202	1/14/1971	<Null>	<Null>	<Null>	<Null>
8568	4/30/1961	<Null>	<Null>	<Null>	<Null>
47740	1/7/1947	<Null>	5/29/1990	<Null>	<Null>
39396	9/26/1969	<Null>	9/26/1969	<Null>	<Null>
43341	1/7/1947	<Null>	<Null>	<Null>	<Null>
43342	1/7/1972	<Null>	<Null>	<Null>	<Null>
55817	3/21/1974	<Null>	3/21/1974	<Null>	<Null>
108315	9/8/1979	<Null>	<Null>	<Null>	<Null>
60502	3/20/1973	<Null>	3/20/1973	<Null>	<Null>
68659	5/1/1973	<Null>	5/24/1973	<Null>	<Null>
304787	<Null>	3/9/2019	4/20/2017	<Null>	<Null>
46052F-R	<Null>	7/12/2018	7/17/2017	<Null>	<Null>

305825	<Null>	6/19/2019	9/14/2017	<Null>	<Null>
269359	<Null>	6/14/2008	10/13/2006	3/28/2018	<Null>

Permit	First Beneficial Use	Permit Expires	Well Constructed	Pump Installed	Well Plugged
301599	<Null>	6/16/2018	<Null>	4/20/2018	<Null>
198720	<Null>	10/3/1998	5/12/1997	6/25/2018	<Null>
198720	<Null>	10/3/1998	5/12/1997	6/25/2018	<Null>
269113	<Null>	5/30/2008	6/8/2006	6/5/2019	<Null>
312799	<Null>	3/15/2021	6/27/2019	7/19/2019	<Null>

Permit	Associated Aquifers	Associated Uses	Elevation	Well Depth
25221MH	ALL UNNAMED AQUIFERS	Monitoring/Sampling	<Null>	380
30210MH	ALL UNNAMED AQUIFERS	Monitoring/Sampling	<Null>	380
78124	ALL UNNAMED AQUIFERS	Stock	<Null>	200
88822	ALL UNNAMED AQUIFERS	Domestic, Stock	<Null>	<Null>
140871-A	ALL UNNAMED AQUIFERS	Domestic	<Null>	<Null>
145102	ALL UNNAMED AQUIFERS	Domestic, Stock	<Null>	350
153943	ALL UNNAMED AQUIFERS	Domestic, Stock	<Null>	<Null>
43341-A	ALL UNNAMED AQUIFERS	Domestic	<Null>	80
153943	ALL UNNAMED AQUIFERS	Domestic, Stock	<Null>	<Null>
155081	ALL UNNAMED AQUIFERS	Household use only	<Null>	264
155081-A	ALL UNNAMED AQUIFERS	Household use only	<Null>	247
155379	ALL UNNAMED AQUIFERS	Domestic	<Null>	158
47740-A	ALL UNNAMED AQUIFERS	Domestic, Industrial	<Null>	320
159430	ALL UNNAMED AQUIFERS	Domestic, Stock	<Null>	360
162121	ALL UNNAMED AQUIFERS	Domestic, Stock	<Null>	250
168370	ALL UNNAMED AQUIFERS	Domestic	<Null>	300
174707	ALL UNNAMED AQUIFERS	Domestic	<Null>	200
177783	ALL UNNAMED AQUIFERS	Commercial	<Null>	175
192134	ALL UNNAMED AQUIFERS	Domestic	<Null>	175
46051F	ALL UNNAMED AQUIFERS	Domestic	<Null>	380
194842	ALL UNNAMED AQUIFERS	Domestic, Stock	<Null>	395
194843	ALL UNNAMED AQUIFERS	Domestic, Stock	<Null>	475
194841	ALL UNNAMED AQUIFERS	Domestic, Stock	<Null>	475
194841	ALL UNNAMED AQUIFERS	Domestic, Stock	<Null>	475
195974	ALL UNNAMED AQUIFERS	Domestic	<Null>	395
198721	ALL UNNAMED AQUIFERS	Domestic	<Null>	300
198714	ALL UNNAMED AQUIFERS	Domestic	<Null>	750
198722	ALL UNNAMED AQUIFERS	Domestic	<Null>	300
198715	ALL UNNAMED AQUIFERS	Domestic	0	550
198155	ALL UNNAMED AQUIFERS	Domestic	<Null>	125
198713	ALL UNNAMED AQUIFERS	Domestic	<Null>	275
202223	ALL UNNAMED AQUIFERS	Domestic	<Null>	225
203262	ALL UNNAMED AQUIFERS	Domestic, Stock	<Null>	380
207552	ALL UNNAMED AQUIFERS	Domestic	<Null>	628
208605	ALL UNNAMED AQUIFERS	Stock	<Null>	110
213831	ALL UNNAMED AQUIFERS	Household use only	<Null>	550
213835	ALL UNNAMED AQUIFERS	Stock	<Null>	<Null>
213832	ALL UNNAMED AQUIFERS	Household use only	<Null>	300
215223	ALL UNNAMED AQUIFERS	Domestic	<Null>	550
198714-A	ALL UNNAMED AQUIFERS	Domestic	<Null>	350
215395	ALL UNNAMED AQUIFERS	Domestic	<Null>	600
215222	ALL UNNAMED AQUIFERS	Domestic	<Null>	700
215394	ALL UNNAMED AQUIFERS	Domestic	<Null>	350
215218	ALL UNNAMED AQUIFERS	Domestic	<Null>	675
217453	ALL UNNAMED AQUIFERS	Domestic, Storage	<Null>	335
221113	ALL UNNAMED AQUIFERS	Domestic, Stock	<Null>	32

Permit	Associated Aquifers	Associated Uses	Elevation	Well Depth
233827	ALL UNNAMED AQUIFERS	Domestic	<Null>	180
235767	ALL UNNAMED AQUIFERS	Domestic	<Null>	200
237077	ALL UNNAMED AQUIFERS	Domestic	<Null>	215
238087	ALL UNNAMED AQUIFERS	Domestic	<Null>	515
239701	ALL UNNAMED AQUIFERS	Domestic	<Null>	315
239701	ALL UNNAMED AQUIFERS	Domestic	<Null>	315
46052F-R	ALL UNNAMED AQUIFERS	Commercial	<Null>	100
258919	ALL UNNAMED AQUIFERS	Domestic	<Null>	225
260350	ALL UNNAMED AQUIFERS	Domestic	<Null>	480
43342-A	ALL UNNAMED AQUIFERS	Domestic	<Null>	240
270239	ALL UNNAMED AQUIFERS	Domestic, Stock	<Null>	280
275470	ALL UNNAMED AQUIFERS	Domestic, Stock	<Null>	460
275470	ALL UNNAMED AQUIFERS	Domestic, Stock	<Null>	460
276232	ALL UNNAMED AQUIFERS	Domestic, Stock	<Null>	580
215983-A	ALL UNNAMED AQUIFERS	Domestic	<Null>	290
287455	ALL UNNAMED AQUIFERS	Domestic	<Null>	320
290267	ALL UNNAMED AQUIFERS	Domestic, Stock	<Null>	400
292021	ALL UNNAMED AQUIFERS	Household use only	<Null>	<Null>
78822F	ALL UNNAMED AQUIFERS	Other	<Null>	<Null>
300506	ALL UNNAMED AQUIFERS	Domestic	<Null>	775
301600	ALL UNNAMED AQUIFERS	Domestic	<Null>	500
301597	ALL UNNAMED AQUIFERS	Domestic	<Null>	100
301601	ALL UNNAMED AQUIFERS	Domestic	<Null>	600
301598	ALL UNNAMED AQUIFERS	Domestic	<Null>	100
301603	ALL UNNAMED AQUIFERS	Domestic	<Null>	200
301598	ALL UNNAMED AQUIFERS	Domestic	<Null>	100
301600-A	ALL UNNAMED AQUIFERS	Domestic	<Null>	100
301600-A	ALL UNNAMED AQUIFERS	Domestic	<Null>	100
144365	ALL UNNAMED AQUIFERS	Domestic	<Null>	<Null>
44904	ALL UNNAMED AQUIFERS	Domestic	<Null>	22
21556	ALL UNNAMED AQUIFERS	Domestic	<Null>	<Null>
10350	ALL UNNAMED AQUIFERS	Domestic	<Null>	<Null>
44202	ALL UNNAMED AQUIFERS	Domestic	<Null>	<Null>
8568	ALL UNNAMED AQUIFERS	Stock	<Null>	<Null>
47740	ALL UNNAMED AQUIFERS	Domestic	<Null>	320
39396	ALL UNNAMED AQUIFERS	Domestic	<Null>	220
43341	ALL UNNAMED AQUIFERS	Domestic	<Null>	<Null>
43342	ALL UNNAMED AQUIFERS	Domestic	<Null>	<Null>
55817	ALL UNNAMED AQUIFERS	Domestic, Stock	<Null>	173
108315	ALL UNNAMED AQUIFERS	Domestic	<Null>	<Null>
60502	ALL UNNAMED AQUIFERS	Domestic, Stock	<Null>	80
68659	ALL UNNAMED AQUIFERS	Household use only	<Null>	50
304787	ALL UNNAMED AQUIFERS	Domestic	<Null>	175
46052F-R	DAKOTA	Commercial	<Null>	250
305825	ALL UNNAMED AQUIFERS	Domestic, Irrigation	<Null>	100
269359	ALL UNNAMED AQUIFERS	Household use only	<Null>	320

Permit	Associated Aquifers	Associated Uses	Elevation	Well Depth
301599	ALL UNNAMED AQUIFERS	Domestic	<Null>	100
198720	ALL UNNAMED AQUIFERS	Domestic	<Null>	280
198720	ALL UNNAMED AQUIFERS	Domestic	<Null>	280
269113	ALL UNNAMED AQUIFERS	Domestic, Stock	<Null>	360
312799	ALL UNNAMED AQUIFERS	Domestic, Stock	<Null>	100

Permit	Top Perforated Casing	Bottom Perforated Casing	Yield	Static Water Level
25221MH	60	380	<Null>	65
30210MH	40	380	<Null>	50
78124	38	200	<Null>	42
88822	<Null>	<Null>	<Null>	<Null>
140871-A	<Null>	<Null>	<Null>	<Null>
145102	40	350	<Null>	50
153943	<Null>	<Null>	<Null>	<Null>
43341-A	40	80	10	37
153943	<Null>	<Null>	<Null>	<Null>
155081	<Null>	<Null>	<Null>	<Null>
155081-A	204	264	2	235
155379	20	158	<Null>	25
47740-A	200	320	<Null>	60
159430	80	360	1	85
162121	<Null>	<Null>	<Null>	100
168370	255	295	2	120
174707	<Null>	<Null>	1	41
177783	60	175	<Null>	30
192134	115	175	13	90
46051F	60	380	2.25	60
194842	335	395	5	136
194843	415	475	2	64
194841	405	455	<Null>	70
194841	405	455	<Null>	70
195974	335	395	10	6
198721	220	280	<Null>	55
198714	<Null>	<Null>	<Null>	<Null>
198722	<Null>	<Null>	5	105
198715	450	550	1.5	362
198155	105	125	8	25
198713	215	275	<Null>	50
202223	<Null>	<Null>	7	80
203262	40	380	1	50
207552	254	355	<Null>	5
208605	<Null>	<Null>	<Null>	<Null>
213831	470	530	4	200
213835	<Null>	<Null>	<Null>	<Null>
213832	200	300	<Null>	60
215223	410	550	7	135
198714-A	290	350	6	50
215395	500	600	12	190
215222	560	700	1.5	225
215394	270	330	1.75	38
215218	575	675	1.25	178
217453	160	335	<Null>	130
221113	21	32	<Null>	15

Permit	Top Perforated Casing	Bottom Perforated Casing	Yield	Static Water Level
233827	80	180	<Null>	80
235767	120	200	<Null>	10
237077	175	215	<Null>	102
238087	315	515	<Null>	<Null>
239701	255	315	<Null>	128
239701	255	315	<Null>	128
46052F-R	60	80	12	7
258919	185	225	<Null>	1
260350	400	480	7	30
43342-A	160	240	<Null>	90
270239	200	280	10	43
275470	380	460	7.5	0
275470	380	460	7.5	0
276232	500	580	8	100
215983-A	210	290	12	40
287455	260	320	<Null>	10
290267	320	400	<Null>	45
292021	<Null>	<Null>	<Null>	<Null>
78822F	<Null>	35	<Null>	30
300506	<Null>	<Null>	<Null>	<Null>
301600	300	500	<Null>	10
301597	40	100	<Null>	10
301601	60	580	<Null>	46
301598	21	100	<Null>	14
301603	40	200	<Null>	<Null>
301598	21	100	<Null>	14
301600-A	21	100	<Null>	11
301600-A	21	100	<Null>	11
144365	<Null>	<Null>	<Null>	<Null>
44904	<Null>	<Null>	<Null>	20
21556	<Null>	<Null>	<Null>	<Null>
10350	<Null>	<Null>	<Null>	<Null>
44202	<Null>	<Null>	<Null>	<Null>
8568	<Null>	<Null>	<Null>	<Null>
47740	200	320	<Null>	60
39396	180	220	<Null>	35
43341	<Null>	<Null>	<Null>	<Null>
43342	<Null>	<Null>	<Null>	<Null>
55817	<Null>	<Null>	<Null>	<Null>
108315	<Null>	<Null>	<Null>	<Null>
60502	40	80	<Null>	20
68659	10	50	<Null>	10
304787	<Null>	<Null>	<Null>	50
46052F-R	<Null>	<Null>	<Null>	29
305825	<Null>	<Null>	<Null>	16
269359	240	320	3	85

Permit	Top Perforated Casing	Bottom Perforated Casing	Yield	Static Water Level
301599	24	100	15	12
198720	220	280	5	100
198720	220	280	5	100
269113	280	360	3	110
312799	<Null>	<Null>	3.5	22

Permit	Static Water Level Date	WDID	Associated Case Numbers	Modified
25221MH	<Null>	<Null>	<Null>	4/18/1995 0:00
30210MH	<Null>	<Null>	<Null>	5/9/1997 0:00
78124	<Null>	<Null>	<Null>	12/15/1975 0:00
88822	<Null>	<Null>	<Null>	3/10/1977 0:00
140871-A	<Null>	<Null>	<Null>	10/26/1995 0:00
145102	<Null>	<Null>	<Null>	7/6/2010 0:00
153943	<Null>	<Null>	<Null>	9/7/2018 13:34
43341-A	<Null>	<Null>	<Null>	2/1/1990 0:00
153943	<Null>	<Null>	<Null>	9/7/2018 13:34
155081	<Null>	<Null>	<Null>	8/9/1989 0:00
155081-A	<Null>	<Null>	<Null>	4/14/2016 0:00
155379	<Null>	<Null>	<Null>	11/22/1989 0:00
47740-A	<Null>	<Null>	<Null>	7/3/1990 0:00
159430	<Null>	<Null>	<Null>	7/10/1992 0:00
162121	<Null>	<Null>	<Null>	1/13/1992 0:00
168370	<Null>	<Null>	<Null>	8/22/1994 0:00
174707	<Null>	<Null>	<Null>	1/24/1994 0:00
177783	<Null>	<Null>	<Null>	5/2/1994 0:00
192134	<Null>	<Null>	<Null>	7/16/1996 0:00
46051F	<Null>	1205606	<Null>	7/16/2003 0:00
194842	<Null>	<Null>	<Null>	7/30/1997 0:00
194843	<Null>	<Null>	<Null>	4/25/1997 0:00
194841	<Null>	<Null>	<Null>	7/11/2019 13:49
194841	<Null>	<Null>	<Null>	7/11/2019 13:49
195974	<Null>	<Null>	<Null>	7/16/1996 0:00
198721	<Null>	<Null>	<Null>	1/28/2005 0:00
198714	<Null>	<Null>	<Null>	11/30/1998 0:00
198722	<Null>	<Null>	<Null>	12/2/1997 0:00
198715	<Null>	<Null>	<Null>	12/21/1998 0:00
198155	<Null>	<Null>	<Null>	4/15/1998 0:00
198713	<Null>	<Null>	<Null>	7/17/2018 12:37
202223	<Null>	<Null>	<Null>	10/16/1996 0:00
203262	<Null>	<Null>	<Null>	12/26/2013 0:00
207552	<Null>	1208304	<Null>	10/24/1997 0:00
208605	<Null>	1208308	<Null>	1/16/1998 0:00
213831	<Null>	<Null>	<Null>	7/21/2005 0:00
213835	<Null>	1205551	<Null>	8/13/1998 0:00
213832	<Null>	<Null>	<Null>	11/5/1998 0:00
215223	<Null>	<Null>	<Null>	4/15/1999 0:00
198714-A	<Null>	<Null>	<Null>	3/19/1999 0:00
215395	<Null>	<Null>	<Null>	4/12/2002 0:00
215222	<Null>	<Null>	<Null>	4/15/1999 0:00
215394	<Null>	<Null>	<Null>	6/12/2000 0:00
215218	<Null>	<Null>	<Null>	4/15/1999 0:00
217453	<Null>	<Null>	<Null>	5/3/1999 0:00
221113	<Null>	<Null>	<Null>	8/7/2018 16:31

Permit	Static Water Level Date	WDID	Associated Case Numbers	Modified
233827	<Null>	<Null>	<Null>	8/15/2001 0:00
235767	<Null>	<Null>	<Null>	2/7/2002 0:00
237077	<Null>	<Null>	<Null>	12/3/2001 0:00
238087	<Null>	<Null>	<Null>	3/8/2002 0:00
239701	<Null>	<Null>	<Null>	9/5/2018 14:22
239701	<Null>	<Null>	<Null>	9/5/2018 14:22
46052F-R	<Null>	1205607	<Null>	6/9/2014 0:00
258919	<Null>	<Null>	<Null>	11/15/2004 0:00
260350	<Null>	<Null>	<Null>	3/5/2014 0:00
43342-A	<Null>	<Null>	<Null>	8/17/2006 0:00
270239	<Null>	<Null>	<Null>	2/6/2007 0:00
275470	<Null>	<Null>	<Null>	10/16/2019 6:47
275470	<Null>	<Null>	<Null>	10/16/2019 6:47
276232	<Null>	<Null>	<Null>	12/15/2009 0:00
215983-A	<Null>	<Null>	<Null>	11/30/2009 0:00
287455	<Null>	<Null>	<Null>	1/15/2014 0:00
290267	<Null>	<Null>	<Null>	11/14/2013 0:00
292021	<Null>	<Null>	<Null>	5/6/2013 0:00
78822F	<Null>	1205065	<Null>	2/10/2015 0:00
300506	<Null>	<Null>	<Null>	5/8/2017 0:00
301600	<Null>	<Null>	<Null>	4/4/2017 0:00
301597	<Null>	<Null>	<Null>	10/25/2016 0:00
301601	<Null>	<Null>	<Null>	10/4/2016 0:00
301598	<Null>	<Null>	<Null>	9/11/2019 16:39
301603	<Null>	<Null>	<Null>	10/25/2016 0:00
301598	<Null>	<Null>	<Null>	9/11/2019 16:39
301600-A	<Null>	<Null>	<Null>	3/15/2018 15:33
301600-A	<Null>	<Null>	<Null>	3/15/2018 15:33
144365	<Null>	<Null>	<Null>	<Null>
44904	<Null>	<Null>	<Null>	10/12/1995 0:00
21556	<Null>	<Null>	<Null>	<Null>
10350	<Null>	<Null>	<Null>	3/12/2008 0:00
44202	<Null>	<Null>	<Null>	<Null>
8568	<Null>	<Null>	<Null>	<Null>
47740	<Null>	<Null>	<Null>	7/3/1990 0:00
39396	<Null>	<Null>	<Null>	10/8/1969 0:00
43341	<Null>	<Null>	<Null>	<Null>
43342	<Null>	<Null>	<Null>	<Null>
55817	<Null>	<Null>	<Null>	3/16/1974 0:00
108315	<Null>	<Null>	<Null>	<Null>
60502	<Null>	<Null>	<Null>	5/21/1973 0:00
68659	<Null>	<Null>	<Null>	7/5/1973 0:00
304787	<Null>	<Null>	<Null>	8/2/2017 10:17
46052F-R	<Null>	1205607	07CW0128	8/2/2017 10:31
305825	<Null>	<Null>	<Null>	10/12/2017 14:19
269359	<Null>	<Null>	<Null>	4/9/2018 13:23

Permit	Static Water Level Date	WDID	Associated Case Numbers	Modified
301599	<Null>	<Null>	<Null>	3/6/2019 11:59
198720	<Null>	<Null>	<Null>	10/3/2018 6:40
198720	<Null>	<Null>	<Null>	10/3/2018 6:40
269113	<Null>	<Null>	<Null>	7/10/2019 8:55
312799	<Null>	<Null>	<Null>	9/17/2019 12:12

Permit	More Information	Location
25221MH	https://dwr.state.co.us/Tools/WellPermits/0025221	(38.500984, -105.349843)
30210MH	https://dwr.state.co.us/Tools/WellPermits/0030210	(38.497277, -105.353818)
78124	https://dwr.state.co.us/Tools/WellPermits/0057935	(38.488659, -105.346841)
88822	https://dwr.state.co.us/Tools/WellPermits/0078591A	(38.505911, -105.351913)
140871-A	https://dwr.state.co.us/Tools/WellPermits/0256699B	(38.504148, -105.351113)
145102	https://dwr.state.co.us/Tools/WellPermits/0263499	(38.495698, -105.348365)
153943	https://dwr.state.co.us/Tools/WellPermits/0298963	(38.507416, -105.356774)
43341-A	https://dwr.state.co.us/Tools/WellPermits/0298903	(38.491301, -105.378794)
153943	https://dwr.state.co.us/Tools/WellPermits/0298963	(38.507416, -105.356774)
155081	https://dwr.state.co.us/Tools/WellPermits/0300895A	(38.497983, -105.345387)
155081-A	https://dwr.state.co.us/Tools/WellPermits/0300895B	(38.497237, -105.34477)
155379	https://dwr.state.co.us/Tools/WellPermits/0304008	(38.478638, -105.353135)
47740-A	https://dwr.state.co.us/Tools/WellPermits/0312268	(38.490526, -105.378809)
159430	https://dwr.state.co.us/Tools/WellPermits/0321527	(38.491012, -105.345214)
162121	https://dwr.state.co.us/Tools/WellPermits/0330646B	(38.488485, -105.35996)
168370	https://dwr.state.co.us/Tools/WellPermits/0348451	(38.475568, -105.347633)
174707	https://dwr.state.co.us/Tools/WellPermits/0361132	(38.483462, -105.34917)
177783	https://dwr.state.co.us/Tools/WellPermits/0366520	(38.498862, -105.348078)
192134	https://dwr.state.co.us/Tools/WellPermits/0393018	(38.52063, -105.360529)
46051F	https://dwr.state.co.us/Tools/WellPermits/0395254A	(38.499252, -105.348981)
194842	https://dwr.state.co.us/Tools/WellPermits/0396600	(38.514136, -105.365075)
194843	https://dwr.state.co.us/Tools/WellPermits/0396601	(38.516912, -105.36489)
194841	https://dwr.state.co.us/Tools/WellPermits/0397345	(38.519481, -105.378786)
194841	https://dwr.state.co.us/Tools/WellPermits/0397345	(38.519481, -105.378786)
195974	https://dwr.state.co.us/Tools/WellPermits/0400151	(38.520291, -105.360861)
198721	https://dwr.state.co.us/Tools/WellPermits/0405665J	(38.514296, -105.375273)
198714	https://dwr.state.co.us/Tools/WellPermits/0405665C	(38.524798, -105.383053)
198722	https://dwr.state.co.us/Tools/WellPermits/0405665K	(38.514832, -105.374205)
198715	https://dwr.state.co.us/Tools/WellPermits/0405665D	(38.524761, -105.386025)
198155	https://dwr.state.co.us/Tools/WellPermits/0405102	(38.522601, -105.379774)
198713	https://dwr.state.co.us/Tools/WellPermits/0405665B	(38.520693, -105.377539)
202223	https://dwr.state.co.us/Tools/WellPermits/0408084	(38.516692, -105.361731)
203262	https://dwr.state.co.us/Tools/WellPermits/0413647	(38.497239, -105.353028)
207552	https://dwr.state.co.us/Tools/WellPermits/0422989	(38.530694, -105.38381)
208605	https://dwr.state.co.us/Tools/WellPermits/0425594	(38.500958, -105.402748)
213831	https://dwr.state.co.us/Tools/WellPermits/0434435	(38.480741, -105.348881)
213835	https://dwr.state.co.us/Tools/WellPermits/0434434B	(38.533589, -105.407333)
213832	https://dwr.state.co.us/Tools/WellPermits/0437874	(38.479185, -105.34804)
215223	https://dwr.state.co.us/Tools/WellPermits/0440016C	(38.51853, -105.370567)
198714-A	https://dwr.state.co.us/Tools/WellPermits/0441008	(38.525918, -105.38366)
215395	https://dwr.state.co.us/Tools/WellPermits/0440016E	(38.52066, -105.383657)
215222	https://dwr.state.co.us/Tools/WellPermits/0440016A	(38.514375, -105.380499)
215394	https://dwr.state.co.us/Tools/WellPermits/0440016B	(38.520513, -105.38567)
215218	https://dwr.state.co.us/Tools/WellPermits/0440016D	(38.514345, -105.381548)
217453	https://dwr.state.co.us/Tools/WellPermits/0445027	(38.515111, -105.370242)
221113	https://dwr.state.co.us/Tools/WellPermits/0450736	(38.53319, -105.397545)

Permit	More Information	Location
233827	https://dwr.state.co.us/Tools/WellPermits/0476598	(38.509082, -105.359993)
235767	https://dwr.state.co.us/Tools/WellPermits/0481004	(38.500884, -105.354634)
237077	https://dwr.state.co.us/Tools/WellPermits/0482349	(38.503894, -105.356315)
238087	https://dwr.state.co.us/Tools/WellPermits/0484828	(38.501481, -105.362913)
239701	https://dwr.state.co.us/Tools/WellPermits/0488962	(38.505466, -105.359299)
239701	https://dwr.state.co.us/Tools/WellPermits/0488962	(38.505466, -105.359299)
46052F-R	https://dwr.state.co.us/Tools/WellPermits/0512665	(38.502382, -105.348024)
258919	https://dwr.state.co.us/Tools/WellPermits/0526341	(38.505153, -105.355137)
260350	https://dwr.state.co.us/Tools/WellPermits/0530704	(38.530883, -105.421614)
43342-A	https://dwr.state.co.us/Tools/WellPermits/3603278	(38.487873, -105.372213)
270239	https://dwr.state.co.us/Tools/WellPermits/3606244	(38.51535, -105.34773)
275470	https://dwr.state.co.us/Tools/WellPermits/3616673	(38.51498, -105.34897)
275470	https://dwr.state.co.us/Tools/WellPermits/3616673	(38.51498, -105.34897)
276232	https://dwr.state.co.us/Tools/WellPermits/3623960	(38.50163, -105.36272)
215983-A	https://dwr.state.co.us/Tools/WellPermits/3642638	(38.494645, -105.366873)
287455	https://dwr.state.co.us/Tools/WellPermits/3653791	(38.499813, -105.353972)
290267	https://dwr.state.co.us/Tools/WellPermits/3658346A	(38.492291, -105.354203)
292021	https://dwr.state.co.us/Tools/WellPermits/3659855	(38.505246, -105.35103)
78822F	https://dwr.state.co.us/Tools/WellPermits/3667100	(38.489983, -105.395061)
300506	https://dwr.state.co.us/Tools/WellPermits/3673437	(38.528436, -105.401119)
301600	https://dwr.state.co.us/Tools/WellPermits/3674526	(38.523704, -105.3908)
301597	https://dwr.state.co.us/Tools/WellPermits/3674531	(38.524106, -105.397001)
301601	https://dwr.state.co.us/Tools/WellPermits/3674529	(38.521894, -105.39159)
301598	https://dwr.state.co.us/Tools/WellPermits/3674524	(38.520391, -105.396559)
301603	https://dwr.state.co.us/Tools/WellPermits/3674530	(38.522174, -105.394239)
301598	https://dwr.state.co.us/Tools/WellPermits/3674524	(38.520391, -105.396559)
301600-A	https://dwr.state.co.us/Tools/WellPermits/3678038	(38.523332, -105.39672)
301600-A	https://dwr.state.co.us/Tools/WellPermits/3678038	(38.523332, -105.39672)
144365	https://dwr.state.co.us/Tools/WellPermits/9086935	(38.487139, -105.352311)
44904	https://dwr.state.co.us/Tools/WellPermits/9085964	(38.502529, -105.349929)
21556	https://dwr.state.co.us/Tools/WellPermits/9085750	(38.486421, -105.357262)
10350	https://dwr.state.co.us/Tools/WellPermits/9085616	(38.51597, -105.35988)
44202	https://dwr.state.co.us/Tools/WellPermits/9085951	(38.500984, -105.349843)
8568	https://dwr.state.co.us/Tools/WellPermits/9085600	(38.532422, -105.417574)
47740	https://dwr.state.co.us/Tools/WellPermits/9086011	(38.489196, -105.374545)
39396	https://dwr.state.co.us/Tools/WellPermits/9085905	(38.502545, -105.349132)
43341	https://dwr.state.co.us/Tools/WellPermits/9085942	(38.488623, -105.373574)
43342	https://dwr.state.co.us/Tools/WellPermits/9085943	(38.487504, -105.372597)
55817	https://dwr.state.co.us/Tools/WellPermits/9086087	(38.521654, -105.365808)
108315	https://dwr.state.co.us/Tools/WellPermits/9086763	(38.528485, -105.424657)
60502	https://dwr.state.co.us/Tools/WellPermits/9086131	(38.493704, -105.349298)
68659	https://dwr.state.co.us/Tools/WellPermits/9086241	(38.503651, -105.349916)
304787	https://dwr.state.co.us/Tools/WellPermits/3678593	(38.515068, -105.356732)
46052F-R	https://dwr.state.co.us/Tools/WellPermits/3680613	(38.502387, -105.348034)
305825	https://dwr.state.co.us/Tools/WellPermits/3680224	(38.522989, -105.396039)
269359	https://dwr.state.co.us/Tools/WellPermits/3604319	(38.526376, -105.380203)

Permit	More Information	Location
301599	https://dwr.state.co.us/Tools/WellPermits/3674525	(38.519793, -105.400484)
198720	https://dwr.state.co.us/Tools/WellPermits/0405665I	(38.514742, -105.377355)
198720	https://dwr.state.co.us/Tools/WellPermits/0405665I	(38.514742, -105.377355)
269113	https://dwr.state.co.us/Tools/WellPermits/3604372	(38.487846, -105.352665)
312799	https://dwr.state.co.us/Tools/WellPermits/3690612	(38.521287, -105.398405)

Permit	IDKey	Shape *	Received From	Received Date	Publish Date
25221MH	0025221 184397	Point	Colorado DWR	10/22/2019	10/22/2019
30210MH	0030210 90865	Point	Colorado DWR	10/22/2019	10/22/2019
78124	0057935 221010	Point	Colorado DWR	10/22/2019	10/22/2019
88822	0078591A 139530	Point	Colorado DWR	10/22/2019	10/22/2019
140871-A	0256699B 94229	Point	Colorado DWR	10/22/2019	10/22/2019
145102	0263499 17709	Point	Colorado DWR	10/22/2019	10/22/2019
153943	0298963 393540	Point	Colorado DWR	10/22/2019	10/22/2019
43341-A	0298903 156556	Point	Colorado DWR	10/22/2019	10/22/2019
153943	0298963 393541	Point	Colorado DWR	10/22/2019	10/22/2019
155081	0300895A 89856	Point	Colorado DWR	10/22/2019	10/22/2019
155081-A	0300895B 150103	Point	Colorado DWR	10/22/2019	10/22/2019
155379	0304008 141915	Point	Colorado DWR	10/22/2019	10/22/2019
47740-A	0312268 223582	Point	Colorado DWR	10/22/2019	10/22/2019
159430	0321527 273139	Point	Colorado DWR	10/22/2019	10/22/2019
162121	0330646B 3801	Point	Colorado DWR	10/22/2019	10/22/2019
168370	0348451 253268	Point	Colorado DWR	10/22/2019	10/22/2019
174707	0361132 205273	Point	Colorado DWR	10/22/2019	10/22/2019
177783	0366520 110926	Point	Colorado DWR	10/22/2019	10/22/2019
192134	0393018 152848	Point	Colorado DWR	10/22/2019	10/22/2019
46051F	0395254A 356256	Point	Colorado DWR	10/22/2019	10/22/2019
194842	0396600 237908	Point	Colorado DWR	10/22/2019	10/22/2019
194843	0396601 366654	Point	Colorado DWR	10/22/2019	10/22/2019
194841	0397345 407717	Point	Colorado DWR	10/22/2019	10/22/2019
194841	0397345 407716	Point	Colorado DWR	10/22/2019	10/22/2019
195974	0400151 319708	Point	Colorado DWR	10/22/2019	10/22/2019
198721	0405665J 299247	Point	Colorado DWR	10/22/2019	10/22/2019
198714	0405665C 43760	Point	Colorado DWR	10/22/2019	10/22/2019
198722	0405665K 311763	Point	Colorado DWR	10/22/2019	10/22/2019
198715	0405665D 30500	Point	Colorado DWR	10/22/2019	10/22/2019
198155	0405102 18209	Point	Colorado DWR	10/22/2019	10/22/2019
198713	0405665B 390653	Point	Colorado DWR	10/22/2019	10/22/2019
202223	0408084 83103	Point	Colorado DWR	10/22/2019	10/22/2019
203262	0413647 170313	Point	Colorado DWR	10/22/2019	10/22/2019
207552	0422989 123743	Point	Colorado DWR	10/22/2019	10/22/2019
208605	0425594 171495	Point	Colorado DWR	10/22/2019	10/22/2019
213831	0434435 328633	Point	Colorado DWR	10/22/2019	10/22/2019
213835	0434434B 220338	Point	Colorado DWR	10/22/2019	10/22/2019
213832	0437874 328633	Point	Colorado DWR	10/22/2019	10/22/2019
215223	0440016C 353957	Point	Colorado DWR	10/22/2019	10/22/2019
198714-A	0441008 359065	Point	Colorado DWR	10/22/2019	10/22/2019
215395	0440016E 298771	Point	Colorado DWR	10/22/2019	10/22/2019
215222	0440016A 50811	Point	Colorado DWR	10/22/2019	10/22/2019
215394	0440016B 317488	Point	Colorado DWR	10/22/2019	10/22/2019
215218	0440016D 17261	Point	Colorado DWR	10/22/2019	10/22/2019
217453	0445027 248894	Point	Colorado DWR	10/22/2019	10/22/2019
221113	0450736 391917	Point	Colorado DWR	10/22/2019	10/22/2019

Permit	IDKey		Shape *	Received From	Received Date	Publish Date
233827	0476598	328544	Point	Colorado DWR	10/22/2019	10/22/2019
235767	0481004	215760	Point	Colorado DWR	10/22/2019	10/22/2019
237077	0482349	339906	Point	Colorado DWR	10/22/2019	10/22/2019
238087	0484828	225257	Point	Colorado DWR	10/22/2019	10/22/2019
239701	0488962	393396	Point	Colorado DWR	10/22/2019	10/22/2019
239701	0488962	393397	Point	Colorado DWR	10/22/2019	10/22/2019
46052F-R	0512665	356256	Point	Colorado DWR	10/22/2019	10/22/2019
258919	0526341	123238	Point	Colorado DWR	10/22/2019	10/22/2019
260350	0530704	227514	Point	Colorado DWR	10/22/2019	10/22/2019
43342-A	3603278	81940	Point	Colorado DWR	10/22/2019	10/22/2019
270239	3606244	115417	Point	Colorado DWR	10/22/2019	10/22/2019
275470	3616673	412695	Point	Colorado DWR	10/22/2019	10/22/2019
275470	3616673	412696	Point	Colorado DWR	10/22/2019	10/22/2019
276232	3623960	256444	Point	Colorado DWR	10/22/2019	10/22/2019
215983-A	3642638	289364	Point	Colorado DWR	10/22/2019	10/22/2019
287455	3653791	110717	Point	Colorado DWR	10/22/2019	10/22/2019
290267	3658346A	284300	Point	Colorado DWR	10/22/2019	10/22/2019
292021	3659855	216737	Point	Colorado DWR	10/22/2019	10/22/2019
78822F	3667100	337172	Point	Colorado DWR	10/22/2019	10/22/2019
300506	3673437	202210	Point	Colorado DWR	10/22/2019	10/22/2019
301600	3674526	179511	Point	Colorado DWR	10/22/2019	10/22/2019
301597	3674531	234833	Point	Colorado DWR	10/22/2019	10/22/2019
301601	3674529	179511	Point	Colorado DWR	10/22/2019	10/22/2019
301598	3674524	42913	Point	Colorado DWR	10/22/2019	10/22/2019
301603	3674530	179511	Point	Colorado DWR	10/22/2019	10/22/2019
301598	3674524	399779	Point	Colorado DWR	10/22/2019	10/22/2019
301600-A	3678038	384403	Point	Colorado DWR	10/22/2019	10/22/2019
301600-A	3678038	384402	Point	Colorado DWR	10/22/2019	10/22/2019
144365	9086935	351138	Point	Colorado DWR	10/22/2019	10/22/2019
44904	9085964	190736	Point	Colorado DWR	10/22/2019	10/22/2019
21556	9085750	123421	Point	Colorado DWR	10/22/2019	10/22/2019
10350	9085616	114140	Point	Colorado DWR	10/22/2019	10/22/2019
44202	9085951	318201	Point	Colorado DWR	10/22/2019	10/22/2019
8568	9085600	303552	Point	Colorado DWR	10/22/2019	10/22/2019
47740	9086011	279523	Point	Colorado DWR	10/22/2019	10/22/2019
39396	9085905	190736	Point	Colorado DWR	10/22/2019	10/22/2019
43341	9085942	173734	Point	Colorado DWR	10/22/2019	10/22/2019
43342	9085943	173734	Point	Colorado DWR	10/22/2019	10/22/2019
55817	9086087	197839	Point	Colorado DWR	10/22/2019	10/22/2019
108315	9086763	341072	Point	Colorado DWR	10/22/2019	10/22/2019
60502	9086131	40826	Point	Colorado DWR	10/22/2019	10/22/2019
68659	9086241	122170	Point	Colorado DWR	10/22/2019	10/22/2019
304787	3678593	285193	Point	Colorado DWR	10/22/2019	10/22/2019
46052F-R	3680613	370599	Point	Colorado DWR	10/22/2019	10/22/2019
305825	3680224	369537	Point	Colorado DWR	10/22/2019	10/22/2019
269359	3604319	86051	Point	Colorado DWR	10/22/2019	10/22/2019

Permit	IDKey	Shape *	Received From	Received Date	Publish Date
301599	3674525 402088	Point	Colorado DWR	10/22/2019	10/22/2019
198720	0405665I 394578	Point	Colorado DWR	10/22/2019	10/22/2019
198720	0405665I 394577	Point	Colorado DWR	10/22/2019	10/22/2019
269113	3604372 163751	Point	Colorado DWR	10/22/2019	10/22/2019
312799	3690612 401334	Point	Colorado DWR	10/22/2019	10/22/2019

Permit	Received Projection	File Name
25221MH	CCS - NAD83	DWR_Well_Application_Permit
30210MH	CCS - NAD83	DWR_Well_Application_Permit
78124	CCS - NAD83	DWR_Well_Application_Permit
88822	CCS - NAD83	DWR_Well_Application_Permit
140871-A	CCS - NAD83	DWR_Well_Application_Permit
145102	CCS - NAD83	DWR_Well_Application_Permit
153943	CCS - NAD83	DWR_Well_Application_Permit
43341-A	CCS - NAD83	DWR_Well_Application_Permit
153943	CCS - NAD83	DWR_Well_Application_Permit
155081	CCS - NAD83	DWR_Well_Application_Permit
155081-A	CCS - NAD83	DWR_Well_Application_Permit
155379	CCS - NAD83	DWR_Well_Application_Permit
47740-A	CCS - NAD83	DWR_Well_Application_Permit
159430	CCS - NAD83	DWR_Well_Application_Permit
162121	CCS - NAD83	DWR_Well_Application_Permit
168370	CCS - NAD83	DWR_Well_Application_Permit
174707	CCS - NAD83	DWR_Well_Application_Permit
177783	CCS - NAD83	DWR_Well_Application_Permit
192134	CCS - NAD83	DWR_Well_Application_Permit
46051F	CCS - NAD83	DWR_Well_Application_Permit
194842	CCS - NAD83	DWR_Well_Application_Permit
194843	CCS - NAD83	DWR_Well_Application_Permit
194841	CCS - NAD83	DWR_Well_Application_Permit
194841	CCS - NAD83	DWR_Well_Application_Permit
195974	CCS - NAD83	DWR_Well_Application_Permit
198721	CCS - NAD83	DWR_Well_Application_Permit
198714	CCS - NAD83	DWR_Well_Application_Permit
198722	CCS - NAD83	DWR_Well_Application_Permit
198715	CCS - NAD83	DWR_Well_Application_Permit
198155	CCS - NAD83	DWR_Well_Application_Permit
198713	CCS - NAD83	DWR_Well_Application_Permit
202223	CCS - NAD83	DWR_Well_Application_Permit
203262	CCS - NAD83	DWR_Well_Application_Permit
207552	CCS - NAD83	DWR_Well_Application_Permit
208605	CCS - NAD83	DWR_Well_Application_Permit
213831	CCS - NAD83	DWR_Well_Application_Permit
213835	CCS - NAD83	DWR_Well_Application_Permit
213832	CCS - NAD83	DWR_Well_Application_Permit
215223	CCS - NAD83	DWR_Well_Application_Permit
198714-A	CCS - NAD83	DWR_Well_Application_Permit
215395	CCS - NAD83	DWR_Well_Application_Permit
215222	CCS - NAD83	DWR_Well_Application_Permit
215394	CCS - NAD83	DWR_Well_Application_Permit
215218	CCS - NAD83	DWR_Well_Application_Permit
217453	CCS - NAD83	DWR_Well_Application_Permit
221113	CCS - NAD83	DWR_Well_Application_Permit

Permit	Received Projection	File Name
233827	CCS - NAD83	DWR_Well_Application_Permit
235767	CCS - NAD83	DWR_Well_Application_Permit
237077	CCS - NAD83	DWR_Well_Application_Permit
238087	CCS - NAD83	DWR_Well_Application_Permit
239701	CCS - NAD83	DWR_Well_Application_Permit
239701	CCS - NAD83	DWR_Well_Application_Permit
46052F-R	CCS - NAD83	DWR_Well_Application_Permit
258919	CCS - NAD83	DWR_Well_Application_Permit
260350	CCS - NAD83	DWR_Well_Application_Permit
43342-A	CCS - NAD83	DWR_Well_Application_Permit
270239	CCS - NAD83	DWR_Well_Application_Permit
275470	CCS - NAD83	DWR_Well_Application_Permit
275470	CCS - NAD83	DWR_Well_Application_Permit
276232	CCS - NAD83	DWR_Well_Application_Permit
215983-A	CCS - NAD83	DWR_Well_Application_Permit
287455	CCS - NAD83	DWR_Well_Application_Permit
290267	CCS - NAD83	DWR_Well_Application_Permit
292021	CCS - NAD83	DWR_Well_Application_Permit
78822F	CCS - NAD83	DWR_Well_Application_Permit
300506	CCS - NAD83	DWR_Well_Application_Permit
301600	CCS - NAD83	DWR_Well_Application_Permit
301597	CCS - NAD83	DWR_Well_Application_Permit
301601	CCS - NAD83	DWR_Well_Application_Permit
301598	CCS - NAD83	DWR_Well_Application_Permit
301603	CCS - NAD83	DWR_Well_Application_Permit
301598	CCS - NAD83	DWR_Well_Application_Permit
301600-A	CCS - NAD83	DWR_Well_Application_Permit
301600-A	CCS - NAD83	DWR_Well_Application_Permit
144365	CCS - NAD83	DWR_Well_Application_Permit
44904	CCS - NAD83	DWR_Well_Application_Permit
21556	CCS - NAD83	DWR_Well_Application_Permit
10350	CCS - NAD83	DWR_Well_Application_Permit
44202	CCS - NAD83	DWR_Well_Application_Permit
8568	CCS - NAD83	DWR_Well_Application_Permit
47740	CCS - NAD83	DWR_Well_Application_Permit
39396	CCS - NAD83	DWR_Well_Application_Permit
43341	CCS - NAD83	DWR_Well_Application_Permit
43342	CCS - NAD83	DWR_Well_Application_Permit
55817	CCS - NAD83	DWR_Well_Application_Permit
108315	CCS - NAD83	DWR_Well_Application_Permit
60502	CCS - NAD83	DWR_Well_Application_Permit
68659	CCS - NAD83	DWR_Well_Application_Permit
304787	CCS - NAD83	DWR_Well_Application_Permit
46052F-R	CCS - NAD83	DWR_Well_Application_Permit
305825	CCS - NAD83	DWR_Well_Application_Permit
269359	CCS - NAD83	DWR_Well_Application_Permit

Permit	Received Projection	File Name
301599	CCS - NAD83	DWR_Well_Application_Permit
198720	CCS - NAD83	DWR_Well_Application_Permit
198720	CCS - NAD83	DWR_Well_Application_Permit
269113	CCS - NAD83	DWR_Well_Application_Permit
312799	CCS - NAD83	DWR_Well_Application_Permit

Permit	Website
25221MH	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awbhttps://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
30210MH	
78124	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
88822	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
140871-A	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
145102	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
153943	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
43341-A	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
153943	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
155081	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
155081-A	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
155379	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
47740-A	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
159430	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
162121	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
168370	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
174707	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
177783	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
192134	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
46051F	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
194842	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
194843	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
194841	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
194841	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
195974	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
198721	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
198714	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
198722	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
198715	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
198155	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
198713	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
202223	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
203262	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
207552	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
208605	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
213831	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
213835	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
213832	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
215223	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
198714-A	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
215395	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
215222	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
215394	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
215218	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
217453	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb

221113 https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb

Permit	Website
233827	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
235767	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
237077	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
238087	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
239701	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
239701	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
46052F-R	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
258919	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
260350	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
43342-A	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
270239	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
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275470	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
276232	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
215983-A	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
287455	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
290267	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
292021	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
78822F	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
300506	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
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301601	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
301598	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
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301598	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
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144365	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
44904	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
21556	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
10350	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
44202	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
8568	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
47740	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
39396	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
43341	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
43342	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
55817	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
108315	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
60502	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
68659	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
304787	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
46052F-R	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
305825	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb

269359 https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb

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301599	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
198720	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
198720	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
269113	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb
312799	https://data.colorado.gov/Water/DWR-Well-Application-Permit/wumm-7awb

Permit	Proximity	SurfElev. (ft)	WLE (ft)
25221MH	Water Resources Study Area	6,225	6,160
30210MH	Water Resources Study Area	6,288	6,238
78124	Water Resources Study Area	6,170	6,128
88822	Water Resources Study Area	6,162	
140871-A	Water Resources Study Area	6,164	
145102	Water Resources Study Area	6,220	6,170
153943	Water Resources Study Area	6,168	
43341-A	Water Resources Study Area	5,829	5,792
153943	Water Resources Study Area	6,168	
155081	Water Resources Study Area	6,256	
155081-A	Water Resources Study Area	6,251	6,016
155379	Water Resources Study Area	5,968	5,943
47740-A	Water Resources Study Area	5,798	5,738
159430	Water Resources Study Area	6,204	6,119
162121	Water Resources Study Area	6,257	6,157
168370	Water Resources Study Area	6,115	5,995
174707	Water Resources Study Area	6,197	6,156
177783	Water Resources Study Area	6,250	6,220
192134	Water Resources Study Area	6,450	6,360
46051F	Water Resources Study Area	6,245	6,185
194842	Water Resources Study Area	6,382	6,246
194843	Water Resources Study Area	6,368	6,304
194841	Water Resources Study Area	6,393	6,323
194841	Water Resources Study Area	6,393	6,323
195974	Water Resources Study Area	6,445	6,439
198721	Water Resources Study Area	6,658	6,603
198714	Water Resources Study Area	6,218	
198722	Water Resources Study Area	6,599	6,494
198715	Water Resources Study Area	6,209	5,847
198155	Water Resources Study Area	6,303	6,278
198713	Water Resources Study Area	6,335	6,285
202223	Water Resources Study Area	6,367	6,287
203262	Water Resources Study Area	6,244	6,194
207552	Water Resources Study Area	6,203	6,198
208605	Water Resources Study Area	6,090	
213831	Water Resources Study Area	6,163	5,963
213835	Water Resources Study Area	6,189	
213832	Water Resources Study Area	6,153	6,093
215223	Water Resources Study Area	6,425	6,290
198714-A	Water Resources Study Area	6,204	6,154
215395	Water Resources Study Area	6,379	6,189
215222	Water Resources Study Area	7,179	6,954
215394	Water Resources Study Area	6,397	6,359
215218	Water Resources Study Area	7,219	7,041
217453	Water Resources Study Area	6,509	6,379
221113	Water Resources Study Area	6,253	6,238

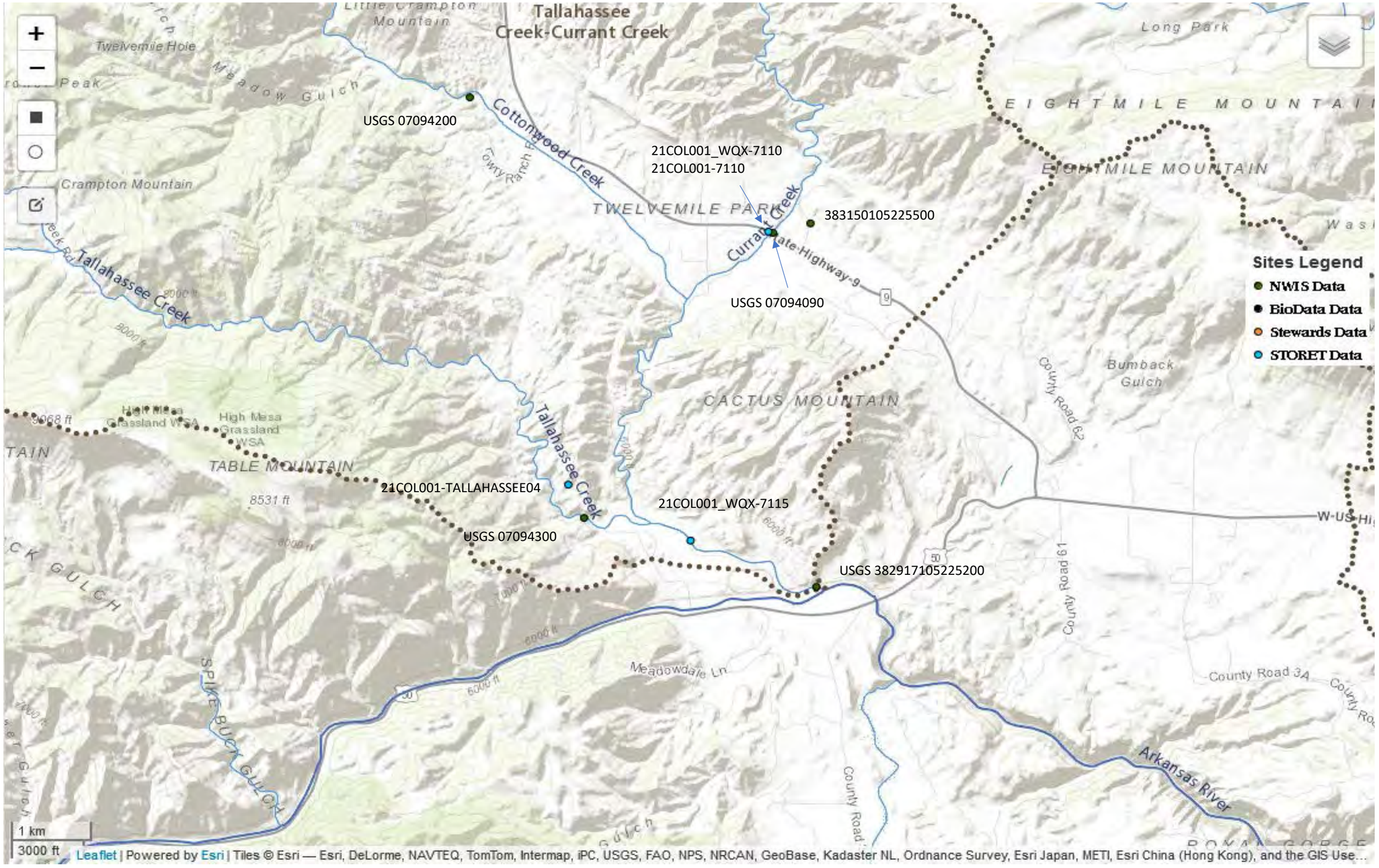
Permit	Proximity	SurfElev. (ft)	WLE (ft)	
233827	Water Resources Study Area	6,211	6,131	
235767	Water Resources Study Area	6,090	6,080	
237077	Water Resources Study Area	6,154	6,052	
238087	Water Resources Study Area	6,272		
239701	Water Resources Study Area	6,209	6,081	
239701	Water Resources Study Area	6,209	6,081	
46052F-R	Water Resources Study Area	6,151	6,144	
258919	Water Resources Study Area	6,126	6,125	
260350	Water Resources Study Area	6,334	6,304	
43342-A	Water Resources Study Area	5,747	5,657	
270239	Water Resources Study Area	6,441	6,398	
275470	Water Resources Study Area	6,383	6,383	
275470	Water Resources Study Area	6,383	6,383	
276232	Water Resources Study Area	6,264	6,164	
215983-A	Water Resources Study Area	5,882	5,842	
287455	Water Resources Study Area	6,109	6,099	
290267	Water Resources Study Area	6,225	6,180	
292021	Water Resources Study Area	6,175		
78822F	Water Resources Study Area	5,814	5,784	
300506	Water Resources Study Area	6,171		
301600	Water Resources Study Area	6,195	6,185	
301597	Water Resources Study Area	6,116	6,106	
301601	Water Resources Study Area	6,259	6,213	
301598	Water Resources Study Area	6,253	6,239	
301603	Water Resources Study Area	6,174		
301598	Water Resources Study Area	6,253	6,239	
301600-A	Water Resources Study Area	6,122	6,111	
301600-A	Water Resources Study Area	6,122	6,111	
144365	Water Resources Study Area	6,129		
44904	Water Resources Study Area	6,133	6,113	
21556	Water Resources Study Area	6,366		
10350	Water Resources Study Area	6,344		
44202	Water Resources Study Area	6,225		
8568	Water Resources Study Area	6,259		
47740	Water Resources Study Area	5,798	5,738	
39396	Water Resources Study Area	6,174	6,139	
43341	Water Resources Study Area	5,794		
43342	Water Resources Study Area	5,733		
55817	Water Resources Study Area	6,423		
108315	Water Resources Study Area	6,457		
60502	Water Resources Study Area	6,202	6,182	
68659	Water Resources Study Area	6,166	6,156	
304787	Water Resources Study Area	6,375	6,325	
46052F-R	Water Resources Study Area	6,151	6,122	
305825	Water Resources Study Area	6,127	6,111	
269359	Water Resources Study Area	6,252	6,167	

Permit	Proximity	SurfElev. (ft)	WLE (ft)	
301599	Water Resources Study Area	6,108	6,096	
198720	Water Resources Study Area	6,819	6,719	
198720	Water Resources Study Area	6,819	6,719	
269113	Water Resources Study Area	6,140	6,030	
312799	Water Resources Study Area	6,115	6,093	

Appendix B

Water Resources Supporting Information

Station Locations



Station Information

Organization	Station ID	Location	Type	Latitude	Longitude	Coordinate Ref.	Elevation (ft)	Formation	Construction Date	Depth (ft)	Data Source
USGS	USGS-07094090	CURRANT CREEK AB COTTONWOOD CR NR PARKDALE, CO.	Stream	38.5294404	-105.388	NAD83	6160				NWIS
USGS	USGS-07094300	TALLAHASSEE CREEK AB CURRANT CR NR PARKDALE, CO.	Stream	38.4961076	-105.414	NAD83	5880				NWIS
USGS	USGS-382917105225200	TALLAHASSE CREEK NEAR PARKDALE, CO	Stream	38.4880522	-105.382	NAD83	5740				NWIS
USGS	USGS-383150105225500	SC01707130CCC	Well	38.5305514	-105.382	NAD83	6800	Dakota Sandstone	19680101	628	NWIS
CDPHE	21COL001-7110	CURRANT CK @ HWY 9	River/Stream	38.5295833	-105.388	NAD83					STORET
CDPHE	21COL001-7115	TALLAHASSEE CREEK NR MOUTH	River/Stream	38.4934666	-105.399	NAD83	5829				STORET
CDPHE	21COL001-TALLAHASSEE04	TALLAHASSEE CREEK	River/Stream	38.5	-105.417	UNKWN					STORET
CDPHE	21COL001_WQX-7110	CURRANT CK @ HWY 9	River/Stream	38.529583	-105.388	NAD83					STORET
CDPHE	21COL001_WQX-7115	TALLAHASSEE CREEK NR MOUTH	River/Stream	38.493467	-105.399	NAD83					STORET
USGS	USGS-07094200	COTTONWOOD CREEK AB SAND GULCH NR PARKDALE, CO.	Stream	38.5452734	-105.431	NAD83	6300				NWIS

Station Number			7094200	7094200	7094200	7094200	7094200	7094200
Date			**1/13/1981**	**5/1/1981**	**6/3/1981**	**6/17/1981**	**7/17/1981**	**8/4/1981**
Alkalinity Total	Total	mg/l CaCO3						
Alpha emitting radium isotopes	Dissolved	pCi/L	<0.1	<0.1		<0.1	<0.1	0.2
Alpha particle	Dissolved	pCi/L	29	33	29		26	12
Alpha particle	Dissolved	ug/l	43	49	43		38	18
Alpha particle	Suspended	pCi/L	1.2	<0.3	4.1	0.3	<0.3	0.6
Alpha particle	Suspended	ug/l	1.7	<0.4	6.1	0.4	<0.4	0.9
Arsenic	Dissolved	ug/l	2	1	2	1	1	1
Barium	Dissolved	ug/l	100	300	100	0	100	200
Beta particle	Dissolved	pCi/L	12	14	11	6.9	9.7	13
Beta particle	Dissolved	pCi/L	11	13	10	6.6	9.3	12
Beta particle	Suspended	pCi/L	3.2	0.5	6.7	0.4	0.9	2.4
Beta particle	Suspended	pCi/L	3	0.5	6.4	0.4	0.9	2.3
Cadmium	Dissolved	ug/l	0	0	0	<10	<10	<10
Carbon dioxide	Total	mg/l						
Chloride	Dissolved	mg/l	33	48	49	47	42	45
Chromium	Recoverable	ug/l	15	2	6	3	3	11
Gross-Uranium	Dissolved	ug/l	30.5	29	24	18	23	23
Hydrogen ion	Total	mg/l	<0.001	<0.001	0.00001	0.00001	0.00002	0.00001
Lead	Dissolved	ug/l	<100	0	0	<100	<100	<100
Oxygen	Dissolved	mg/l	12.1	7.1	7.4	7.1	6.7	7.1
pH	Total	std units	8.4	8.4	8.3	8.1	7.7	8
pH	Total	std units	8.2	8.4	8.4	7.8	8.4	8.4
Selenium	Dissolved	ug/l	1	1	0	0	0	0
Silver	Dissolved	ug/l	0	0	1	0	0	0
Specific conductance	Total	uS/cm @25C	771	756	754	788	765	795
Specific conductance	Total	uS/cm @25C		772	755	795	750	790
Stream flow, instantaneous		ft3/s	1.4	0.7	5	0.62	0.03	0.1
Stream flow, instantaneous		m3/sec	0.04	0.02	0.14	0.02	0	0
Sulfate	Dissolved	mg/l	69	60	59		77	23
Temperature, water		deg C	1.5	22	22	21	22	20

Station Number			7094200	7094200	7094200	7094200	7094200	7094200
Date			**8/10/1981**	**9/8/1981**	**2/11/1982**	**4/7/1982**	**5/20/1982**	**6/22/1982**
Alkalinity Total	Total	mg/l CaCO3	76					
Alpha emitting radium isotopes	Dissolved	pCi/L	0.7	0.1	<0.1	<0.1	0.1	<0.1
Alpha particle	Dissolved	pCi/L	8.8	18	26	25	24	20
Alpha particle	Dissolved	ug/l	13	27	38	37	35	29
Alpha particle	Suspended	pCi/L	7500	3.5	<0.3	<0.3	<0.3	1.3
Alpha particle	Suspended	ug/l	11000	5.1	<0.4	<0.4	<0.5	1.9
Arsenic	Dissolved	ug/l		1	1	1	1	1
Barium	Dissolved	ug/l	100	100	100	100	200	<100
Beta particle	Dissolved	pCi/L	13	16	9.1	16	<7.5	12
Beta particle	Dissolved	pCi/L	12	15	8.8	15	<7.2	11
Beta particle	Suspended	pCi/L	7600	6.9	1.3	0.8	3.8	2.6
Beta particle	Suspended	pCi/L	7400	6.5	1.4	0.8	3.6	2.5
Cadmium	Dissolved	ug/l	0	0	<10	<1	<1	<10
Carbon dioxide	Total	mg/l	4.7					
Chloride	Dissolved	mg/l	4.7	58	44	53	67	67
Chromium	Recoverable	ug/l	190	14	2	3	2	4
Gross-Uranium	Dissolved	ug/l	6.4	19	30	26	34	28
Hydrogen ion	Total	mg/l	0.00003	0.00001	0.00001	<0.001	0.00001	0.00001
Lead	Dissolved	ug/l	<100	<100	<1	<100	<1	<100
Oxygen	Dissolved	mg/l	8.1	6.4	9.2	8.3	8	6.8
pH	Total	std units	7.5	8.3	8.1	9	8.2	8.1
pH	Total	std units	7.2	8.7	8.5	8.6	8.6	8.7
Selenium	Dissolved	ug/l	0	0	1	1	1	<1
Silver	Dissolved	ug/l	0	0	1	<1	<1	<5
Specific conductance	Total	uS/cm @25C	215	826	754	750	835	868
Specific conductance	Total	uS/cm @25C				779	828	854
Stream flow, instantaneous		ft3/s	23	1.9	0.3	2	0.92	0.82
Stream flow, instantaneous		m3/sec	0.65	0.05	0.01	0.06	0.03	0.02
Sulfate	Dissolved	mg/l	20	<5	56	44	32	53
Temperature, water		deg C	9	20.5	3	13.5	20	19.5

Station Number			**7094200**
Date			**9/21/1982**
Alkalinity Total	Total	mg/l CaCO3	
Alpha emitting radium isotopes	Dissolved	pCi/L	0.2
Alpha particle	Dissolved	pCi/L	88
Alpha particle	Dissolved	ug/l	130
Alpha particle	Suspended	pCi/L	<0.3
Alpha particle	Suspended	ug/l	<0.4
Arsenic	Dissolved	ug/l	1
Barium	Dissolved	ug/l	100
Beta particle	Dissolved	pCi/L	33
Beta particle	Dissolved	pCi/L	32
Beta particle	Suspended	pCi/L	1
Beta particle	Suspended	pCi/L	1
Cadmium	Dissolved	ug/l	<1
Carbon dioxide	Total	mg/l	
Chloride	Dissolved	mg/l	71
Chromium	Recoverable	ug/l	<1
Gross-Uranium	Dissolved	ug/l	30
Hydrogen ion	Total	mg/l	0.00001
Lead	Dissolved	ug/l	<1
Oxygen	Dissolved	mg/l	7.2
pH	Total	std units	8.2
pH	Total	std units	8.6
Selenium	Dissolved	ug/l	<1
Silver	Dissolved	ug/l	<1
Specific conductance	Total	uS/cm @25C	872
Specific conductance	Total	uS/cm @25C	862
Stream flow, instantaneous		ft3/s	2.5
Stream flow, instantaneous		m3/sec	0.07
Sulfate	Dissolved	mg/l	43
Temperature, water		deg C	18

Station Number			7094090	7094090	7094090	7094090
Date			1/13/1981	5/1/1981	6/3/1981	6/17/1981
Alkalinity, total	Total	mg/l CaCO3				
Alpha emitting radium isotopes	Dissolved	pCi/L	<0.1	<0.1		0.1
Alpha particle	Dissolved	pCi/L	44	30	13	21
Alpha particle	Dissolved	ug/l	64	44	19	31
Alpha particle	Suspended	pCi/L	5	0.7	75	0.7
Alpha particle	Suspended	ug/l	7.3	1.1	110	1
Ammonia-nitrogen	Total					
Arsenic	Dissolved	ug/l	2	1	2	2
Barium	Dissolved	ug/l	100	200	10	100
Beta particle	Dissolved	pCi/L	9.1	9.7	11	11
Beta particle	Dissolved	pCi/L	8.7	9.2	10	11
Beta particle	Suspended	pCi/L	6.2	1.8	71	0.8
Beta particle	Suspended	pCi/L	6	1.7	69	0.8
Bicarbonate	Total	mg/l				
Cadmium	Dissolved	ug/l	0	0	<10	<10
Calcium	Dissolved	mg/l				
Carbon dioxide	Total	mg/l				
Carbonate	Total	mg/l				
Chloride	Dissolved	mg/l				
Chloride	Dissolved	mg/l	22	25	24	27
Chromium	Recoverable	ug/l	25	1	15	5
Copper	Dissolved					
Fluoride	Dissolved	mg/l				
Gross-Uranium	Dissolved	ug/l	22.6	22.5	12.5	22.3
Hardness, Ca, Mg		mg/l CaCO3				
Hardness, non-carbonate	Total	mg/l CaCO3				
Hydrogen ion	Total	mg/l	<0.001	<0.001	<0.001	<0.001
Nitrate + Nitrite	Dissolved	mg/l N				
Nitrate + Nitrite	Total					
Iron	Dissolved	ug/l				
Iron	Total Recoverable					
Lead	Dissolved	ug/l	<100	0	<100	<100

Station Number			**7094090**	**7094090**	**7094090**	**7094090**
Date			**1/13/1981**	**5/1/1981**	**6/3/1981**	**6/17/1981**
Magnesium	Dissolved	mg/l				
Manganese	Dissolved	ug/l				
Orthophosphate	Dissolved	mg/l as P				
Orthophosphate	Dissolved	mg/l asPO4				
Oxygen	Dissolved	mg/l	11.9	7.6	8.4	6.8
pH	Total	std units	8.5	8.8	8.6	8.4
pH	Total	std units	8.3	8.5	7.9	8.4
Phosphate-phosphorus	Total					
Potassium	Dissolved	mg/l				
Selenium	Dissolved	ug/l	1	2	0	0
Silica	Dissolved	mg/l				
Silver	Dissolved	ug/l	0	0	1	0
Sodium	Dissolved	mg/l				
Sodium adsorption ratio		None				
Sodium, percent total cations		%				
Specific conductance	Total	uS/cm @25C	722	619	520	683
Specific conductance	Total	uS/cm @25C	700	649		710
Stream flow, instantaneous		ft3/s	5.7	1	7.2	1
Stream flow, instantaneous		m3/sec	0.16	0.03	0.2	0.03
Sulfate	Dissolved	mg/l	66	65	50	3.2
Temperature, water		deg C	1	25	11	25.5
Total dissolved solids	Dissolved	mg/l				
Zinc	Dissolved					

Station Number		7094090	7094090	7094090	7094090
Date		**1/13/1981**	**5/1/1981**	**6/3/1981**	**6/17/1981**
Alkalinity, total	Total	330			
Ammonia-nitrogen	Total	<0.03			
Cadmium	Dissolved	<0.6			
Copper	Dissolved	6			
Dissolved oxygen (DO)		7.8			
Hardness, Ca, Mg	Total	250			
Inorganic nitrogen (nitrate and nitri	Total	<0.03			
Iron	Dissolved	<10			
Iron	Total Recoverable	<50			
Lead	Dissolved	<1			
Manganese	Dissolved	3			
pH		8.49			
Phosphate-phosphorus	Total	0.24			
Selenium	Dissolved	<1			
Silver	Dissolved	<1			
Specific conductance		843.5			
Sulfate	Total	58			
Temperature, water		22.68			
Zinc	Dissolved	<10			

Station Number			7094090	7094090	7094090	7094090
Date			7/17/1981	8/4/1981	8/10/1981	9/8/1981
Alkalinity, total	Total	mg/l CaCO3			130	
Alpha emitting radium isotopes	Dissolved	pCi/L	<0.1	0.1	<0.1	<0.1
Alpha particle	Dissolved	pCi/L	33	23	3.1	27
Alpha particle	Dissolved	ug/l	48	34	4.5	39
Alpha particle	Suspended	pCi/L	<0.3	<0.3	410	5.4
Alpha particle	Suspended	ug/l	<0.4	<0.4	610	7.9
Ammonia-nitrogen	Total					
Arsenic	Dissolved	ug/l	1	1		1
Barium	Dissolved	ug/l	100	100	200	100
Beta particle	Dissolved	pCi/L	12	13	12	9.8
Beta particle	Dissolved	pCi/L	11	13	12	9.2
Beta particle	Suspended	pCi/L	0.6	<0.4	380	6.9
Beta particle	Suspended	pCi/L	0.6	<0.4	360	6.7
Bicarbonate	Total	mg/l				
Cadmium	Dissolved	ug/l	0	0	0	<10
Calcium	Dissolved	mg/l				
Carbon dioxide	Total	mg/l			3.2	
Carbonate	Total	mg/l				
Chloride	Dissolved	mg/l				
Chloride	Dissolved	mg/l	33	31	12	22
Chromium	Recoverable	ug/l	3	9	210	10
Copper	Dissolved					
Fluoride	Dissolved	mg/l				
Gross-Uranium	Dissolved	ug/l	24.3	22	11.2	17
Hardness, Ca, Mg		mg/l CaCO3				
Hardness, non-carbonate	Total	mg/l CaCO3				
Hydrogen ion	Total	mg/l	0.00001	0.00001	0.00001	<0.001
Nitrate + Nitrite	Dissolved	mg/l N				
Nitrate + Nitrite	Total					
Iron	Dissolved	ug/l				
Iron	Total Recoverable					
Lead	Dissolved	ug/l	0	<100	0	<100

Station Number			7094090	7094090	7094090	7094090
Date			**7/17/1981**	**8/4/1981**	**8/10/1981**	**9/8/1981**
Magnesium	Dissolved	mg/l				
Manganese	Dissolved	ug/l				
Orthophosphate	Dissolved	mg/l as P				
Orthophosphate	Dissolved	mg/l asPO4				
Oxygen	Dissolved	mg/l	7.4	6.7	8.5	6.5
pH	Total	std units	8.1	8.1	7.9	8.4
pH	Total	std units	8.2	8.4	7.6	8.6
Phosphate-phosphorus	Total					
Potassium	Dissolved	mg/l				
Selenium	Dissolved	ug/l	0	0	1	1
Silica	Dissolved	mg/l				
Silver	Dissolved	ug/l	0	0	0	0
Sodium	Dissolved	mg/l				
Sodium adsorption ratio		None				
Sodium, percent total cations		%				
Specific conductance	Total	uS/cm @25C	656	690	342	680
Specific conductance	Total	uS/cm @25C	674	700		
Stream flow, instantaneous		ft3/s	0.3	0.68	31	4.6
Stream flow, instantaneous		m3/sec	0.01	0.02	0.88	0.13
Sulfate	Dissolved	mg/l	70	60	3	59
Temperature, water		deg C	24.5	22.5	13	20.5
Total dissolved solids	Dissolved	mg/l				
Zinc	Dissolved					

Station Number		7094090	7094090	7094090	7094090
Date		7/17/1981	8/4/1981	8/10/1981	9/8/1981
Alkalinity, total	Total				
Ammonia-nitrogen	Total				
Cadmium	Dissolved				
Copper	Dissolved				
Dissolved oxygen (DO)					
Hardness, Ca, Mg	Total				
Inorganic nitrogen (nitrate and nitri	Total				
Iron	Dissolved				
Iron	Total Recoverable				
Lead	Dissolved				
Manganese	Dissolved				
pH					
Phosphate-phosphorus	Total				
Selenium	Dissolved				
Silver	Dissolved				
Specific conductance					
Sulfate	Total				
Temperature, water					
Zinc	Dissolved				

Station Number			7094090	7094090	7094090	7094090
Date			4/7/1982	5/20/1982	6/22/1982	9/21/1982
Alkalinity, total	Total	mg/l CaCO3				
Alpha emitting radium isotopes	Dissolved	pCi/L	<0.1	<0.1	<0.1	<0.1
Alpha particle	Dissolved	pCi/L	23	19	29	18
Alpha particle	Dissolved	ug/l	34	28	43	26
Alpha particle	Suspended	pCi/L	<0.3	0.5	1.2	6
Alpha particle	Suspended	ug/l	<0.4	0.7	1.8	8.8
Ammonia-nitrogen	Total					
Arsenic	Dissolved	ug/l	1	1	1	1
Barium	Dissolved	ug/l	100	100	<100	100
Beta particle	Dissolved	pCi/L	14	7.2	7.3	11
Beta particle	Dissolved	pCi/L	14	6.9	7	11
Beta particle	Suspended	pCi/L	0.9	2.3	3.4	6.7
Beta particle	Suspended	pCi/L	0.8	2.3	3.2	6.4
Bicarbonate	Total	mg/l				
Cadmium	Dissolved	ug/l	<1	<1	<10	<1
Calcium	Dissolved	mg/l				
Carbon dioxide	Total	mg/l				
Carbonate	Total	mg/l				
Chloride	Dissolved	mg/l				
Chloride	Dissolved	mg/l	24	26	25	23
Chromium	Recoverable	ug/l	7	4	5	4
Copper	Dissolved					
Fluoride	Dissolved	mg/l				
Gross-Uranium	Dissolved	ug/l	27	22	24	22
Hardness, Ca, Mg		mg/l CaCO3				
Hardness, non-carbonate	Total	mg/l CaCO3				
Hydrogen ion	Total	mg/l	<0.001	0.00001	0.00001	0.00001
Nitrate + Nitrite	Dissolved	mg/l N				
Nitrate + Nitrite	Total					
Iron	Dissolved	ug/l				
Iron	Total Recoverable					
Lead	Dissolved	ug/l	<1	<1	<100	<1

Station Number			**7094090**	**7094090**	**7094090**	**7094090**
Date			**4/7/1982**	**5/20/1982**	**6/22/1982**	**9/21/1982**
Magnesium	Dissolved	mg/l				
Manganese	Dissolved	ug/l				
Orthophosphate	Dissolved	mg/l as P				
Orthophosphate	Dissolved	mg/l asPO4				
Oxygen	Dissolved	mg/l	8.5	8	6.7	6.7
pH	Total	std units	9	8.3	8.1	8.3
pH	Total	std units	8.6	8.6	8.6	8.5
Phosphate-phosphorus	Total					
Potassium	Dissolved	mg/l				
Selenium	Dissolved	ug/l	1	1	1	1
Silica	Dissolved	mg/l				
Silver	Dissolved	ug/l	<1	<1	<1	<1
Sodium	Dissolved	mg/l				
Sodium adsorption ratio		None				
Sodium, percent total cations		%				
Specific conductance	Total	uS/cm @25C	645	706	686	643
Specific conductance	Total	uS/cm @25C	702	708	677	644
Stream flow, instantaneous		ft3/s	3	0.72	1.8	8
Stream flow, instantaneous		m3/sec	0.08	0.02	0.05	0.23
Sulfate	Dissolved	mg/l	58	57	61	51
Temperature, water		deg C	14	20	20.5	19
Total dissolved solids	Dissolved	mg/l				
Zinc	Dissolved					

Station Number		7094090	7094090	7094090	7094090
Date		4/7/1982	5/20/1982	6/22/1982	9/21/1982
Alkalinity, total	Total				
Ammonia-nitrogen	Total				
Cadmium	Dissolved				
Copper	Dissolved				
Dissolved oxygen (DO)					
Hardness, Ca, Mg	Total				
Inorganic nitrogen (nitrate and nitri	Total				
Iron	Dissolved				
Iron	Total Recoverable				
Lead	Dissolved				
Manganese	Dissolved				
pH					
Phosphate-phosphorus	Total				
Selenium	Dissolved				
Silver	Dissolved				
Specific conductance					
Sulfate	Total				
Temperature, water					
Zinc	Dissolved				

Station Number			**383150105225500**	**21COL001-7110**
Date			**4/22/1972**	**8/17/2010**
Alkalinity, total	Total	mg/l CaCO3	224	330
Alpha emitting radium isotopes	Dissolved	pCi/L		
Alpha particle	Dissolved	pCi/L		
Alpha particle	Dissolved	ug/l		
Alpha particle	Suspended	pCi/L		
Alpha particle	Suspended	ug/l		
Ammonia-nitrogen	Total			<0.03
Arsenic	Dissolved	ug/l		
Barium	Dissolved	ug/l		
Beta particle	Dissolved	pCi/L		
Beta particle	Dissolved	pCi/L		
Beta particle	Suspended	pCi/L		
Beta particle	Suspended	pCi/L		
Bicarbonate	Total	mg/l	273	
Cadmium	Dissolved	ug/l		<0.6
Calcium	Dissolved	mg/l	73	
Carbon dioxide	Total	mg/l	44	
Carbonate	Total	mg/l	0	
Chloride	Dissolved	mg/l	13	
Chloride	Dissolved	mg/l		
Chromium	Recoverable	ug/l		
Copper	Dissolved			6
Fluoride	Dissolved	mg/l	1.2	
Gross-Uranium	Dissolved	ug/l		
Hardness, Ca, Mg		mg/l CaCO3	260	250
Hardness, non-carbonate	Total	mg/l CaCO3	37	
Hydrogen ion	Total	mg/l	0.0001	
Nitrate + Nitrite	Dissolved	mg/l N	0.01	
Nitrate + Nitrite	Total			<0.03
Iron	Dissolved	ug/l	8100	<10
Iron	Total Recoverable			<50
Lead	Dissolved	ug/l		<1

Station Number			**383150105225500**	**21COL001-7110**
Date			**4/22/1972**	**8/17/2010**
Magnesium	Dissolved	mg/l	19	
Manganese	Dissolved	ug/l	240	3
Orthophosphate	Dissolved	mg/l as P	0	
Orthophosphate	Dissolved	mg/l asPO4	0	
Oxygen	Dissolved	mg/l		7.8
pH	Total	std units	7	8.49
pH	Total	std units		
Phosphate-phosphorus	Total			0.24
Potassium	Dissolved	mg/l	6.5	
Selenium	Dissolved	ug/l		<1
Silica	Dissolved	mg/l	14	
Silver	Dissolved	ug/l		<1
Sodium	Dissolved	mg/l	33	
Sodium adsorption ratio		None	0.9	
Sodium, percent total cations		%	21	
Specific conductance	Total	uS/cm @25C	626	843.5
Specific conductance	Total	uS/cm @25C		
Stream flow, instantaneous		ft3/s		
Stream flow, instantaneous		m3/sec		
Sulfate	Dissolved	mg/l	100	58
Temperature, water		deg C	15	22.68
Total dissolved solids	Dissolved	mg/l	402	
Zinc	Dissolved			<10

Station Number	**383150105225500**	**21COL001-7110**
Date	**4/22/1972**	**8/17/2010**
Alkalinity, total	Total	
Ammonia-nitrogen	Total	
Cadmium	Dissolved	
Copper	Dissolved	
Dissolved oxygen (DO)		
Hardness, Ca, Mg	Total	
Inorganic nitrogen (nitrate and nitri	Total	
Iron	Dissolved	
Iron	Total Recoverable	
Lead	Dissolved	
Manganese	Dissolved	
pH		
Phosphate-phosphorus	Total	
Selenium	Dissolved	
Silver	Dissolved	
Specific conductance		
Sulfate	Total	
Temperature, water		
Zinc	Dissolved	

Station Number			21COL001-7115	21COL001-7115	21COL001-7115	21COL001-7115	21COL001-7115
Date			9/12/2005	10/20/2005	8/17/2010	10/26/2010	6/21/2011
Alkalinity, total	Total	mg/l	290	280	280	310	300
Ammonia-nitrogen	Total	mg/l	<0.03	<0.03	<0.03	<0.03	
Arsenic	Dissolved	ug/l	1	1			
Cadmium	Dissolved	ug/l	0.6	<0.6	<0.6	<0.6	
Calcium	Total	mg/l					72
Copper	Dissolved	ug/l	<5	<5	7	<5	<5
Hardness, Ca, Mg	Total	mg/l	310	300	230	310	300
Nitrate + Nitrite	Total	mg/l N	<0.3	<0.3	0.76	0.6	
Iron	Dissolved	ug/l	<10	<10	<10	<10	<4
Iron	Total Recovrble	ug/l	<10	<10	<50	<10	10
Kjeldahl nitrogen	Total	mg/l	<0.5	<0.5		<0.1	0.2
Lead	Dissolved	ug/l	<1	<1	<1	<1	<0.01
Magnesium	Total	mg/l					33
Manganese	Dissolved	ug/l	<2	<2	3	<2	<2
Oxygen	Dissolved	mg/l	6.44	9.42	8.1	12.55	7.12
pH	Total		8.58	8.61	8.58	8.75	8.47
Phosphate-phosphorus as P	Total	mg/l	0.044	0.025	0.3	0.089	0.11
Selenium	Dissolved	ug/l	6.8	12	2.8	3.2	3.1
Silver	Dissolved	ug/l	<0.5	<0.5	<1	<1	
Sodium	Total	mg/l					65
Specific conductance		umho/cm	901	884	750.1	841.6	932.4
Sulfate	Total	mg/l	120	110	64	77	96
Temperature, water		deg C	21.62	15.18	21.36	9.18	17.06
Uranium	Dissolved	ug/l	26	23			
Zinc	Dissolved	ug/l	<10	<10	<10	<10	8

Station Number			**21COL001-TALlAHASSEE04**
Date			**8/14/1980**
Alkalinity, total		mg/l	246
Aluminum	Total Recovrble	ug/l	1
Ammonia		mg/l	0.00957
Ammonia-nitrogen	Total	mg/l	0.05
Ammonia-nitrogen as N		mg/l	0.00787
Arsenic	Total	ug/l	0.01
Boron	Total	ug/l	40
Cadmium	Total Recovrble	ug/l	0.0003
Copper	Total Recovrble	ug/l	0.005
Dissolved oxygen (DO)		mg/l	7
Dissolved oxygen saturation		%	79.55
Hardness, Ca, Mg	Total	mg/l	210
Nitrate + Nitrite	Total	mg/l N	0.5
Iron	Total	ug/l	0.1
Lead	Total Recovrble	ug/l	0.006
Manganese	Total Recovrble	ug/l	0.05
Mercury	Total Recovrble	ug/l	0.0005
Molybdenum	Total Recovrble	ug/l	0.01
Nickel	Total Recovrble	ug/l	0.05
pH		None	8.6
Sodium	Total	mg/l	24
Specific conductance		uS/cm	424
Sulfate as SO4	Total	mg/l	37
Temperature, water		deg C	22.3
Total dissolved solids	Dissolved	mg/l	300
Total suspended solids	Total	mg/l	10
Zinc	Total	ug/l	0.02

Station Number			07094300	07094300	07094300	07094300	07094300	07094300
Date			**1/13/1981**	**5/1/1981**	**6/3/1981**	**6/17/1981**	**8/10/1981**	**4/8/1981**
Alkalinity, total	Total	mg/l CaCO3					83	
Alpha emitting radium isotopes	Dissolved	pCi/L	<0.1	0.1		<0.1	0.7	0.1
Alpha particle	Dissolved	pCi/L	23	17	13	23	<4.7	12
Alpha particle	Dissolved	ug/l	34	25	19	34	<6.8	17
Alpha particle	Suspended	pCi/L	<0.3	<0.3	3.2	1.4	1000	<0.3
Alpha particle	Suspended	ug/l	<0.4	<0.4	4.7	2.1	1500	<0.4
Aluminum	Dissolved	ug/l						
Ammonia and ammonium	Total	mg/l as N						
Ammonia and ammonium	Total	mg/l NH4						
Arsenic	Dissolved	ug/l	3	2	3	1		2
Barium	Dissolved	ug/l	100	200	100	100	400	100
Barium	Dissolved	ug/l						
Beryllium	Dissolved	ug/l						
Beta particle	Dissolved	pCi/L	7.7	8.1	8.5	8.5	9.4	15
Beta particle	Dissolved	pCi/L	7.3	7.6	8.2	8.3	9	14
Beta particle	Suspended	pCi/L	1.3	0.7	5.9	1.2	640	0.7
Beta particle	Suspended	pCi/L	1.3	0.8	5.7	1.2	620	0.7
Cadmium	Dissolved	ug/l	0	0	0	<10	0	<10
Cadmium	Total	ug/l						
Calcium	Dissolved	mg/l						
Carbon dioxide	Total	mg/l						
Chloride	Dissolved	mg/l	11	16	10	28	15	16
Chromium	Recoverable	ug/l	7	1	4	4	160	2
Cobalt	Dissolved	ug/l						
Copper	Dissolved	ug/l						
Copper	Recoverable	ug/l						
Gross-Uranium	Dissolved	ug/l	19.7	17.1	23.9	22.8	2.6	23
Hardness, Ca, Mg		mg/l CaCO3						
Hydrogen ion	Total	mg/l	0.00001	<0.001	0.00001	0.00001		<0.001
Nitrate + Nitrite	Total	mg/l as N						
Iron	Dissolved	ug/l						
Iron	Recoverable	ug/l						

Station Number			07094300	07094300	07094300	07094300	07094300	07094300
Date			**1/13/1981**	**5/1/1981**	**6/3/1981**	**6/17/1981**	**8/10/1981**	**4/8/1981**
Lead	Dissolved	ug/l	<100	0	0	<100	0	<100
Lead	Recoverable	ug/l						
Lithium	Dissolved	ug/l						
Magnesium	Dissolved	mg/l						
Manganese	Dissolved	ug/l						
Manganese	Recoverable	ug/l						
Molybdenum	Dissolved	ug/l						
Nitrate	Total	mg/l as N						
Organic carbon	Total	mg/l						
Orthophosphate	Total	mg/l as P						
Oxygen	Dissolved	mg/l	11.8	7.7	7.8	7.6		8.8
pH	Total	std units	8.2	8.4	8.2	8.3	7.1	8.5
pH	Total	std units	8.2	8.7	8.4	8.3		8.6
Phosphate-phosphorus	Total	mg/l						
Potassium	Dissolved	mg/l						
Selenium	Dissolved	ug/l	2	2	1	0		2
Silica	Dissolved	mg/l						
Silver	Dissolved	ug/l	0	0	1	0	0	<1
Sodium	Dissolved	mg/l						
Sodium adsorption ratio		None						
Sodium, percent total cations		%						
Specific conductance	Total	uS/cm @25C	476	504	472	683	247	470
Specific conductance	Total	uS/cm @25C		498	476	593		483
Stream flow, instantaneous		ft3/s	0.77	0.5	5.1	0.3	44	0.65
Stream flow, instantaneous		m3/sec	0.02	0.01	0.14	0.01	1.2	0.02
Strontium	Dissolved	ug/l						
Sulfate	Dissolved	mg/l	44	46	45	50	2	41
Temperature, water		deg C	0.5	17	16.5	16.5		9.5
Total dissolved solids	Dissolved	mg/l						
Vanadium	Dissolved	ug/l						
Zinc	Dissolved	ug/l						
Zinc	Recoverable	ug/l						

Station Number			07094300	07094300	07094300	07094300	07094300	07094300
Date			**9/8/1981**	**5/20/1982**	**6/22/1982**	**7/23/1982**	**9/21/1982**	**4/24/1987**
Alkalinity, total	Total	mg/l CaCO3						
Alpha emitting radium isotopes	Dissolved	pCi/L	0.2	<0.1	0.1	0.2	<0.1	
Alpha particle	Dissolved	pCi/L	19	9.5	15	10	12	
Alpha particle	Dissolved	ug/l	28	14	22	15	18	
Alpha particle	Suspended	pCi/L	1.2	<0.3	2.1	<0.3	0.3	
Alpha particle	Suspended	ug/l	1.8	<0.4	3.1	<0.4	0.5	
Aluminum	Dissolved	ug/l						
Ammonia and ammonium	Total	mg/l as N						
Ammonia and ammonium	Total	mg/l NH4						
Arsenic	Dissolved	ug/l	2	2	2	2	2	
Barium	Dissolved	ug/l	400	100	<100	100	<100	
Barium	Dissolved	ug/l						
Beryllium	Dissolved	ug/l						
Beta particle	Dissolved	pCi/L	10	7.2	8.9	9.9	11	
Beta particle	Dissolved	pCi/L	9.9	6.9	8.6	9.5	11	
Beta particle	Suspended	pCi/L	4	2.7	3.3	2.1	1.9	
Beta particle	Suspended	pCi/L	3.8	2.7	3.2	2.1	1.9	
Cadmium	Dissolved	ug/l	<10	<1	30	<10	<1	
Cadmium	Total	ug/l						
Calcium	Dissolved	mg/l						
Carbon dioxide	Total	mg/l						
Chloride	Dissolved	mg/l	15	18	11	18	6.4	
Chromium	Recoverable	ug/l	10	6	4	7	2	
Cobalt	Dissolved	ug/l						
Copper	Dissolved	ug/l						
Copper	Recoverable	ug/l						
Gross-Uranium	Dissolved	ug/l	20	20	20	17	13	
Hardness, Ca, Mg		mg/l CaCO3						
Hydrogen ion	Total	mg/l	0.00001	0.00002	0.00001	0.00001	0.00001	<0.001
Nitrate + Nitrite	Total	mg/l as N						
Iron	Dissolved	ug/l						
Iron	Recoverable	ug/l						

Station Number			07094300	07094300	07094300	07094300	07094300	07094300
Date			**9/8/1981**	**5/20/1982**	**6/22/1982**	**7/23/1982**	**9/21/1982**	**4/24/1987**
Lead	Dissolved	ug/l	<100	<1	<100	<1	<1	
Lead	Recoverable	ug/l						
Lithium	Dissolved	ug/l						
Magnesium	Dissolved	mg/l						
Manganese	Dissolved	ug/l						
Manganese	Recoverable	ug/l						
Molybdenum	Dissolved	ug/l						
Nitrate	Total	mg/l as N						
Organic carbon	Total	mg/l						
Orthophosphate	Total	mg/l as P						
Oxygen	Dissolved	mg/l	7.1	9.3	7.3	7.3	7.4	9.7
pH	Total	std units	8.3	7.8	8.1	8.2	8.1	8.9
pH	Total	std units	8.7	8.4	8.9	8.8	8.7	
Phosphate-phosphorus	Total	mg/l						
Potassium	Dissolved	mg/l						
Selenium	Dissolved	ug/l	1	1	1	1	1	
Silica	Dissolved	mg/l						
Silver	Dissolved	ug/l	0	<1	<1	<1	<1	
Sodium	Dissolved	mg/l						
Sodium adsorption ratio		None						
Sodium, percent total cations		%						
Specific conductance	Total	uS/cm @25C	475	517	509	561	405	394
Specific conductance	Total	uS/cm @25C		498	497	557	387	
Stream flow, instantaneous		ft3/s	0.73	0.51	1.2	0.8	4	172
Stream flow, instantaneous		m3/sec	0.02	0.01	0.03	0.02	0.11	4.9
Strontium	Dissolved	ug/l						
Sulfate	Dissolved	mg/l	14	39	47	35	25	
Temperature, water		deg C	16.5	12.5	20	22	13.5	6.5
Total dissolved solids	Dissolved	mg/l						
Vanadium	Dissolved	ug/l						
Zinc	Dissolved	ug/l						
Zinc	Recoverable	ug/l						

Station Number			07094300	07094300	07094300	07094300	07094300	07094300
Date			6/3/1987	10/29/1987	4/20/1990	6/7/1990	7/19/1990	8/30/1990
Alkalinity, total	Total	mg/l CaCO3	470					
Alpha emitting radium isotopes	Dissolved	pCi/L						
Alpha particle	Dissolved	pCi/L						
Alpha particle	Dissolved	ug/l						
Alpha particle	Suspended	pCi/L						
Alpha particle	Suspended	ug/l						
Aluminum	Dissolved	ug/l	50					
Ammonia and ammonium	Total	mg/l as N			<0.01	0.03	0.03	0.02
Ammonia and ammonium	Total	mg/l NH4			<0.013	0.039	0.039	0.026
Arsenic	Dissolved	ug/l						
Barium	Dissolved	ug/l						
Barium	Dissolved	ug/l	78					
Beryllium	Dissolved	ug/l	<0.5					
Beta particle	Dissolved	pCi/L						
Beta particle	Dissolved	pCi/L						
Beta particle	Suspended	pCi/L						
Beta particle	Suspended	pCi/L						
Cadmium	Dissolved	ug/l	<1		<0.1	<0.1	0.1	<0.1
Cadmium	Total	ug/l			<1	<1	<1	<1
Calcium	Dissolved	mg/l	53					
Carbon dioxide	Total	mg/l	2.7					
Chloride	Dissolved	mg/l						
Chromium	Recoverable	ug/l						
Cobalt	Dissolved	ug/l	<3					
Copper	Dissolved	ug/l	<10		1	1	1	1
Copper	Recoverable	ug/l			3	5	7	2
Gross-Uranium	Dissolved	ug/l						
Hardness, Ca, Mg		mg/l CaCO3	228					
Hydrogen ion	Total	mg/l	<0.001	<0.001	0.00001	<0.001	<0.001	<0.001
Nitrate + Nitrite	Total	mg/l as N			0.104	0.062	0.203	0.19
Iron	Dissolved	ug/l	24		11	16	10	15
Iron	Recoverable	ug/l			370	650	6300	510

Station Number			07094300	07094300	07094300	07094300	07094300	07094300
Date			**6/3/1987**	**10/29/1987**	**4/20/1990**	**6/7/1990**	**7/19/1990**	**8/30/1990**
Lead	Dissolved	ug/l	<10		<0.5	<0.5	<0.5	<0.5
Lead	Recoverable	ug/l			1	2	5	1
Lithium	Dissolved	ug/l	29					
Magnesium	Dissolved	mg/l	23					
Manganese	Dissolved	ug/l	12		130	69	120	100
Manganese	Recoverable	ug/l			190	100	360	140
Molybdenum	Dissolved	ug/l	<10					
Nitrate	Total	mg/l as N						
Organic carbon	Total	mg/l	5.5					
Orthophosphate	Total	mg/l as P						
Oxygen	Dissolved	mg/l		8	8.6	7.4	7.8	7.9
pH	Total	std units	8.5	8.9	8.3	8.5	8.5	8.4
pH	Total	std units			8.3	8.4	8.3	8.3
Phosphate-phosphorus	Total	mg/l						
Potassium	Dissolved	mg/l	3.4					
Selenium	Dissolved	ug/l						
Silica	Dissolved	mg/l	28					
Silver	Dissolved	ug/l						
Sodium	Dissolved	mg/l	33					
Sodium adsorption ratio		None	0.95					
Sodium, percent total cations		%	24					
Specific conductance	Total	uS/cm @25C	521	600	736	645	702	699
Specific conductance	Total	uS/cm @25C			708	600	691	698
Stream flow, instantaneous		ft3/s	42	8.2	0.54	2.6	4.7	2.8
Stream flow, instantaneous		m3/sec	1.2	0.23	0.02	0.08	0.13	0.08
Strontium	Dissolved	ug/l	530					
Sulfate	Dissolved	mg/l						
Temperature, water		deg C	13	13	8	20	15	15
Total dissolved solids	Dissolved	mg/l			451	365	428	431
Vanadium	Dissolved	ug/l	<6					
Zinc	Dissolved	ug/l	12		5	9	<3	<3
Zinc	Recoverable	ug/l			20	<10	30	10

Station Number			07094300	07094300	07094300	07094300	07094300	07094300
Date			11/1/1990	4/25/1991	6/20/1991	7/18/1991	10/24/1991	4/23/1992
Alkalinity, total	Total	mg/l CaCO3						
Alpha emitting radium isotopes	Dissolved	pCi/L						
Alpha particle	Dissolved	pCi/L						
Alpha particle	Dissolved	ug/l						
Alpha particle	Suspended	pCi/L						
Alpha particle	Suspended	ug/l						
Aluminum	Dissolved	ug/l						
Ammonia and ammonium	Total	mg/l as N	0.02	0.019	0.019	0.02	0.029	0.018
Ammonia and ammonium	Total	mg/l NH4	0.026	0.024	0.024	0.026	0.037	0.023
Arsenic	Dissolved	ug/l						
Barium	Dissolved	ug/l						
Barium	Dissolved	ug/l						
Beryllium	Dissolved	ug/l						
Beta particle	Dissolved	pCi/L						
Beta particle	Dissolved	pCi/L						
Beta particle	Suspended	pCi/L						
Beta particle	Suspended	pCi/L						
Cadmium	Dissolved	ug/l	<0.1	<0.1	<0.1	<0.1	<0.1	0.1
Cadmium	Total	ug/l	<1	<1	<1	<1	<1	<1
Calcium	Dissolved	mg/l						
Carbon dioxide	Total	mg/l						
Chloride	Dissolved	mg/l						
Chromium	Recoverable	ug/l						
Cobalt	Dissolved	ug/l						
Copper	Dissolved	ug/l	1	1	1	<1	<1	<1
Copper	Recoverable	ug/l	1	5	3	6	2	2
Gross-Uranium	Dissolved	ug/l						
Hardness, Ca, Mg		mg/l CaCO3						
Hydrogen ion	Total	mg/l	<0.001	0.00001	0.00001	0.00001	<0.001	<0.001
Nitrate + Nitrite	Total	mg/l as N	0.02	0.103	0.018	0.04	0.034	0.133
Iron	Dissolved	ug/l	18	16	13	18	31	8
Iron	Recoverable	ug/l	120	220	150	160	170	870

Station Number			07094300	07094300	07094300	07094300	07094300	07094300
Date			**11/1/1990**	**4/25/1991**	**6/20/1991**	**7/18/1991**	**10/24/1991**	**4/23/1992**
Lead	Dissolved	ug/l	<0.5	<0.5	<0.5	<0.5	0.6	<0.5
Lead	Recoverable	ug/l	<1	1	1	5	1	<1
Lithium	Dissolved	ug/l						
Magnesium	Dissolved	mg/l						
Manganese	Dissolved	ug/l	39	38	73	120	62	60
Manganese	Recoverable	ug/l	60	50	90	150	80	120
Molybdenum	Dissolved	ug/l						
Nitrate	Total	mg/l as N	0.02					
Organic carbon	Total	mg/l						
Orthophosphate	Total	mg/l as P	0.07					
Oxygen	Dissolved	mg/l	8.6	8.3	8.5	7.3	8.7	9.2
pH	Total	std units	8.7	8.1	8.3	8.2	8.5	8.6
pH	Total	std units	8.5	8.2	8.2	8.2	8.2	8.4
Phosphate-phosphorus	Total	mg/l	0.215					
Potassium	Dissolved	mg/l						
Selenium	Dissolved	ug/l						
Silica	Dissolved	mg/l						
Silver	Dissolved	ug/l						
Sodium	Dissolved	mg/l						
Sodium adsorption ratio		None						
Sodium, percent total cations		%						
Specific conductance	Total	uS/cm @25C	692	743	774	768	721	696
Specific conductance	Total	uS/cm @25C	689	744	806	783	734	679
Stream flow, instantaneous		ft3/s	3.6	0.14	0.4	0.7	3.8	4.2
Stream flow, instantaneous		m3/sec	0.1	0	0.01	0.02	0.11	0.12
Strontium	Dissolved	ug/l						
Sulfate	Dissolved	mg/l						
Temperature, water		deg C	11.5	13	15	17.5	8	7
Total dissolved solids	Dissolved	mg/l	416	456	488	460	428	406
Vanadium	Dissolved	ug/l						
Zinc	Dissolved	ug/l	6	8	<3	<3	3	4
Zinc	Recoverable	ug/l	<10	10	<10	<10	<10	20

Station Number			07094300	07094300	07094300
Date			6/26/1992	8/13/1992	10/29/1992
Alkalinity, total	Total	mg/l CaCO3			
Alpha emitting radium isotopes	Dissolved	pCi/L			
Alpha particle	Dissolved	pCi/L			
Alpha particle	Dissolved	ug/l			
Alpha particle	Suspended	pCi/L			
Alpha particle	Suspended	ug/l			
Aluminum	Dissolved	ug/l			
Ammonia and ammonium	Total	mg/l as N	0.137	0.017	0.024
Ammonia and ammonium	Total	mg/l NH4	0.176	0.022	0.031
Arsenic	Dissolved	ug/l			
Barium	Dissolved	ug/l			
Barium	Dissolved	ug/l			
Beryllium	Dissolved	ug/l			
Beta particle	Dissolved	pCi/L			
Beta particle	Dissolved	pCi/L			
Beta particle	Suspended	pCi/L			
Beta particle	Suspended	pCi/L			
Cadmium	Dissolved	ug/l	<1	<0.1	<0.1
Cadmium	Total	ug/l	<1	<1	<1
Calcium	Dissolved	mg/l			
Carbon dioxide	Total	mg/l			
Chloride	Dissolved	mg/l			
Chromium	Recoverable	ug/l			
Cobalt	Dissolved	ug/l			
Copper	Dissolved	ug/l	2	<1	<1
Copper	Recoverable	ug/l	20	1	<1
Gross-Uranium	Dissolved	ug/l			
Hardness, Ca, Mg		mg/l CaCO3			
Hydrogen ion	Total	mg/l	<0.001	<0.001	<0.001
Nitrate + Nitrite	Total	mg/l as N	0.122	0.055	0.039
Iron	Dissolved	ug/l	71	24	17
Iron	Recoverable	ug/l	7600	110	30

Station Number			07094300	07094300	07094300
Date			6/26/1992	8/13/1992	10/29/1992
Lead	Dissolved	ug/l	<0.5	<0.5	<0.5
Lead	Recoverable	ug/l	4	<1	<1
Lithium	Dissolved	ug/l			
Magnesium	Dissolved	mg/l			
Manganese	Dissolved	ug/l	16	67	29
Manganese	Recoverable	ug/l	1800	80	<10
Molybdenum	Dissolved	ug/l			
Nitrate	Total	mg/l as N			
Organic carbon	Total	mg/l			
Orthophosphate	Total	mg/l as P			
Oxygen	Dissolved	mg/l	7.7	7.8	8.6
pH	Total	std units	8.4	8.4	8.4
pH	Total	std units	7.8	8.4	8.2
Phosphate-phosphorus	Total	mg/l			
Potassium	Dissolved	mg/l			
Selenium	Dissolved	ug/l			
Silica	Dissolved	mg/l			
Silver	Dissolved	ug/l			
Sodium	Dissolved	mg/l			
Sodium adsorption ratio		None			
Sodium, percent total cations		%			
Specific conductance	Total	uS/cm @25C	396	696	707
Specific conductance	Total	uS/cm @25C	386	682	706
Stream flow, instantaneous		ft3/s	32	0.68	0.2
Stream flow, instantaneous		m3/sec	0.9	0.02	0.01
Strontium	Dissolved	ug/l			
Sulfate	Dissolved	mg/l			
Temperature, water		deg C	14	17	10.5
Total dissolved solids	Dissolved	mg/l	220	402	411
Vanadium	Dissolved	ug/l			
Zinc	Dissolved	ug/l	<3	<3	<3
Zinc	Recoverable	ug/l	150	<10	<10

Station Number			382917105225200	382917105225200	382917105225200	382917105225200
Date			4/24/1987	6/3/1987	10/29/1987	4/20/1990
Alkalinity, total	Total	mg/l CaCO3		470		
Aluminum	Dissolved	ug/l		50		
Ammonia and ammonium	Total	mg/l N				<0.01
Ammonia and ammonium	Total	mg/l NH4				<0.013
Barium	Dissolved	ug/l		78		
Beryllium	Dissolved	ug/l		<0.5		
Cadmium	Dissolved	ug/l		<1		<0.1
Cadmium	Total	ug/l				<1
Calcium	Dissolved	mg/l		53		
Carbon dioxide	Total	mg/l		2.7		
Cobalt	Dissolved	ug/l		<3		
Copper	Dissolved	ug/l		<10		1
Copper	Recoverable	ug/l				3
Hardness, Ca, Mg		mg/l CaCO3		228		
Hydrogen ion	Total	mg/l	<0.001	<0.001	<0.001	0.00001
Nitrate + Nitrite	Total	mg/l as N				0.104
Iron	Dissolved	ug/l		24		11
Iron	Recoverable	ug/l				370
Lead	Dissolved	ug/l		<10		<0.5
Lead	Recoverable	ug/l				1
Lithium	Dissolved	ug/l		29		
Magnesium	Dissolved	mg/l		23		
Manganese	Dissolved	ug/l		12		130
Manganese	Recoverable	ug/l				190
Molybdenum	Dissolved	ug/l		<10		
Nitrate	Total	mg/l as N				
Nitrite	Total	mg/l as N				
Organic carbon	Total	mg/l		5.5		
Orthophosphate	Total	mg/l as P				
Oxygen	Dissolved	mg/l	9.7		8	8.6
Oxygen	Dissolved	mg/l				
pH	Total	std units	8.9	8.5	8.9	8.3

Station Number			382917105225200	382917105225200	382917105225200	382917105225200
Date			4/24/1987	6/3/1987	10/29/1987	4/20/1990
pH	Total	std units				8.3
Phosphate-phosphorus	Total	mg/l				
Potassium	Dissolved	mg/l		3.4		
Silica	Dissolved	mg/l		28		
Sodium	Dissolved	mg/l		33		
Sodium adsorption ratio		None		0.95		
Sodium, percent total cations		%		24		
Specific conductance	Total	uS/cm @25C	394	521	600	736
Specific conductance	Total	uS/cm @25C				708
Stream flow, instantaneous		ft3/s	172	42	8.2	0.54
Stream flow, instantaneous		m3/sec	4.9	1.2	0.23	0.02
Strontium	Dissolved	ug/l		530		
Temperature, water		deg C	6.5	13	13	8
Total dissolved solids	Dissolved	mg/l				451
Vanadium	Dissolved	ug/l		<6		
Zinc	Dissolved	ug/l		12		5
Zinc	Recoverable	ug/l				20

Station Number			382917105225200	382917105225200	382917105225200	382917105225200
Date			5/15/1990	5/22/1990	5/30/1990	6/5/1990
Alkalinity, total	Total	mg/l CaCO3				
Aluminum	Dissolved	ug/l				
Ammonia and ammonium	Total	mg/l N				
Ammonia and ammonium	Total	mg/l NH4				
Barium	Dissolved	ug/l				
Beryllium	Dissolved	ug/l				
Cadmium	Dissolved	ug/l				
Cadmium	Total	ug/l				
Calcium	Dissolved	mg/l				
Carbon dioxide	Total	mg/l				
Cobalt	Dissolved	ug/l				
Copper	Dissolved	ug/l				
Copper	Recoverable	ug/l				
Hardness, Ca, Mg		mg/l CaCO3				
Hydrogen ion	Total	mg/l				
Nitrate + Nitrite	Total	mg/l as N				
Iron	Dissolved	ug/l				
Iron	Recoverable	ug/l				
Lead	Dissolved	ug/l				
Lead	Recoverable	ug/l				
Lithium	Dissolved	ug/l				
Magnesium	Dissolved	mg/l				
Manganese	Dissolved	ug/l				
Manganese	Recoverable	ug/l				
Molybdenum	Dissolved	ug/l				
Nitrate	Total	mg/l as N				
Nitrite	Total	mg/l as N				
Organic carbon	Total	mg/l				
Orthophosphate	Total	mg/l as P				
Oxygen	Dissolved	mg/l				
Oxygen	Dissolved	mg/l				
pH	Total	std units				

Station Number			**382917105225200**	**382917105225200**	**382917105225200**	**382917105225200**
Date			**5/15/1990**	**5/22/1990**	**5/30/1990**	**6/5/1990**
pH	Total	std units				
Phosphate-phosphorus	Total	mg/l				
Potassium	Dissolved	mg/l				
Silica	Dissolved	mg/l				
Sodium	Dissolved	mg/l				
Sodium adsorption ratio		None				
Sodium, percent total cations		%				
Specific conductance	Total	uS/cm @25C	554	600	630	620
Specific conductance	Total	uS/cm @25C				
Stream flow, instantaneous		ft3/s				
Stream flow, instantaneous		m3/sec				
Strontium	Dissolved	ug/l				
Temperature, water		deg C				
Total dissolved solids	Dissolved	mg/l				
Vanadium	Dissolved	ug/l				
Zinc	Dissolved	ug/l				
Zinc	Recoverable	ug/l				

Station Number			382917105225200	382917105225200	382917105225200	382917105225200
Date			6/7/1990	6/11/1990	6/24/1990	7/19/1990
Alkalinity, total	Total	mg/l CaCO3				
Aluminum	Dissolved	ug/l				
Ammonia and ammonium	Total	mg/l N	0.03			0.03
Ammonia and ammonium	Total	mg/l NH4	0.039			0.039
Barium	Dissolved	ug/l				
Beryllium	Dissolved	ug/l				
Cadmium	Dissolved	ug/l	<0.1			0.1
Cadmium	Total	ug/l	<1			<1
Calcium	Dissolved	mg/l				
Carbon dioxide	Total	mg/l				
Cobalt	Dissolved	ug/l				
Copper	Dissolved	ug/l	1			1
Copper	Recoverable	ug/l	5			7
Hardness, Ca, Mg		mg/l CaCO3				
Hydrogen ion	Total	mg/l	<0.001			<0.001
Nitrate + Nitrite	Total	mg/l as N	0.062			0.203
Iron	Dissolved	ug/l	16			10
Iron	Recoverable	ug/l	650			6300
Lead	Dissolved	ug/l	<0.5			<0.5
Lead	Recoverable	ug/l	2			5
Lithium	Dissolved	ug/l				
Magnesium	Dissolved	mg/l				
Manganese	Dissolved	ug/l	69			120
Manganese	Recoverable	ug/l	100			360
Molybdenum	Dissolved	ug/l				
Nitrate	Total	mg/l as N				
Nitrite	Total	mg/l as N				
Organic carbon	Total	mg/l				
Orthophosphate	Total	mg/l as P				
Oxygen	Dissolved	mg/l	7.4			7.8
Oxygen	Dissolved	mg/l				
pH	Total	std units	8.5			8.5

Station Number			382917105225200	382917105225200	382917105225200	382917105225200
Date			6/7/1990	6/11/1990	6/24/1990	7/19/1990
pH	Total	std units	8.4			8.3
Phosphate-phosphorus	Total	mg/l				
Potassium	Dissolved	mg/l				
Silica	Dissolved	mg/l				
Sodium	Dissolved	mg/l				
Sodium adsorption ratio		None				
Sodium, percent total cations		%				
Specific conductance	Total	uS/cm @25C	645	698	699	702
Specific conductance	Total	uS/cm @25C	600			691
Stream flow, instantaneous		ft3/s	2.6			4.7
Stream flow, instantaneous		m3/sec	0.08			0.13
Strontium	Dissolved	ug/l				
Temperature, water		deg C	20			15
Total dissolved solids	Dissolved	mg/l	365			428
Vanadium	Dissolved	ug/l				
Zinc	Dissolved	ug/l	9			<3
Zinc	Recoverable	ug/l	<10			30

Station Number			382917105225200	382917105225200	382917105225200	382917105225200
Date			8/30/1990	8/31/1990	11/1/1990	4/3/1991
Alkalinity, total	Total	mg/l CaCO3				
Aluminum	Dissolved	ug/l				
Ammonia and ammonium	Total	mg/l N	0.02		0.02	
Ammonia and ammonium	Total	mg/l NH4	0.026		0.026	
Barium	Dissolved	ug/l				
Beryllium	Dissolved	ug/l				
Cadmium	Dissolved	ug/l	<0.1		<0.1	
Cadmium	Total	ug/l	<1		<1	
Calcium	Dissolved	mg/l				
Carbon dioxide	Total	mg/l				
Cobalt	Dissolved	ug/l				
Copper	Dissolved	ug/l	1		1	
Copper	Recoverable	ug/l	2		1	
Hardness, Ca, Mg		mg/l CaCO3				
Hydrogen ion	Total	mg/l	<0.001		<0.001	
Nitrate + Nitrite	Total	mg/l as N	0.19		0.02	
Iron	Dissolved	ug/l	15		18	
Iron	Recoverable	ug/l	510		120	
Lead	Dissolved	ug/l	<0.5		<0.5	
Lead	Recoverable	ug/l	1		<1	
Lithium	Dissolved	ug/l				
Magnesium	Dissolved	mg/l				
Manganese	Dissolved	ug/l	100		39	
Manganese	Recoverable	ug/l	140		60	
Molybdenum	Dissolved	ug/l				
Nitrate	Total	mg/l as N			0.02	
Nitrite	Total	mg/l as N			<0.01	
Organic carbon	Total	mg/l				
Orthophosphate	Total	mg/l as P			0.07	
Oxygen	Dissolved	mg/l	7.9		8.6	
Oxygen	Dissolved	mg/l			8.6	
pH	Total	std units	8.4		8.7	

Station Number			382917105225200	382917105225200	382917105225200	382917105225200
Date			8/30/1990	8/31/1990	11/1/1990	4/3/1991
pH	Total	std units	8.3		8.5	
Phosphate-phosphorus	Total	mg/l			0.215	
Potassium	Dissolved	mg/l				
Silica	Dissolved	mg/l				
Sodium	Dissolved	mg/l				
Sodium adsorption ratio		None				
Sodium, percent total cations		%				
Specific conductance	Total	uS/cm @25C	699	673	692	726
Specific conductance	Total	uS/cm @25C	698		689	
Stream flow, instantaneous		ft3/s	2.8		3.6	
Stream flow, instantaneous		m3/sec	0.08		0.1	
Strontium	Dissolved	ug/l				
Temperature, water		deg C	15		11.5	
Total dissolved solids	Dissolved	mg/l	431		416	
Vanadium	Dissolved	ug/l				
Zinc	Dissolved	ug/l	<3		6	
Zinc	Recoverable	ug/l	10		<10	

Station Number			382917105225200	382917105225200	382917105225200	382917105225200
Date			4/25/1991	5/8/1991	5/16/1991	6/12/1991
Alkalinity, total	Total	mg/l CaCO3				
Aluminum	Dissolved	ug/l				
Ammonia and ammonium	Total	mg/l N	0.019			
Ammonia and ammonium	Total	mg/l NH4	0.024			
Barium	Dissolved	ug/l				
Beryllium	Dissolved	ug/l				
Cadmium	Dissolved	ug/l	<0.1			
Cadmium	Total	ug/l	<1			
Calcium	Dissolved	mg/l				
Carbon dioxide	Total	mg/l				
Cobalt	Dissolved	ug/l				
Copper	Dissolved	ug/l	1			
Copper	Recoverable	ug/l	5			
Hardness, Ca, Mg		mg/l CaCO3				
Hydrogen ion	Total	mg/l	0.00001			
Nitrate + Nitrite	Total	mg/l as N	0.103			
Iron	Dissolved	ug/l	16			
Iron	Recoverable	ug/l	220			
Lead	Dissolved	ug/l	0.5			
Lead	Recoverable	ug/l	1			
Lithium	Dissolved	ug/l				
Magnesium	Dissolved	mg/l				
Manganese	Dissolved	ug/l	38			
Manganese	Recoverable	ug/l	50			
Molybdenum	Dissolved	ug/l				
Nitrate	Total	mg/l as N				
Nitrite	Total	mg/l as N				
Organic carbon	Total	mg/l				
Orthophosphate	Total	mg/l as P				
Oxygen	Dissolved	mg/l	8.3			
Oxygen	Dissolved	mg/l				
pH	Total	std units	8.1			

Station Number			382917105225200	382917105225200	382917105225200	382917105225200
Date			4/25/1991	5/8/1991	5/16/1991	6/12/1991
pH	Total	std units	8.2			
Phosphate-phosphorus	Total	mg/l				
Potassium	Dissolved	mg/l				
Silica	Dissolved	mg/l				
Sodium	Dissolved	mg/l				
Sodium adsorption ratio		None				
Sodium, percent total cations		%				
Specific conductance	Total	uS/cm @25C	743	752	758	735
Specific conductance	Total	uS/cm @25C	744			
Stream flow, instantaneous		ft3/s	0.14			
Stream flow, instantaneous		m3/sec	0			
Strontium	Dissolved	ug/l				
Temperature, water		deg C	13			
Total dissolved solids	Dissolved	mg/l	456			
Vanadium	Dissolved	ug/l				
Zinc	Dissolved	ug/l	8			
Zinc	Recoverable	ug/l	10			

Station Number			382917105225200	382917105225200	382917105225200	382917105225200
Date			6/20/1991	6/25/1991	7/18/1991	7/31/1991
Alkalinity, total	Total	mg/l CaCO3				
Aluminum	Dissolved	ug/l				
Ammonia and ammonium	Total	mg/l N	0.019		0.02	
Ammonia and ammonium	Total	mg/l NH4	0.024		0.026	
Barium	Dissolved	ug/l				
Beryllium	Dissolved	ug/l				
Cadmium	Dissolved	ug/l	<0.1		<0.1	
Cadmium	Total	ug/l	<1		<1	
Calcium	Dissolved	mg/l				
Carbon dioxide	Total	mg/l				
Cobalt	Dissolved	ug/l				
Copper	Dissolved	ug/l	1		<1	
Copper	Recoverable	ug/l	3		6	
Hardness, Ca, Mg		mg/l CaCO3				
Hydrogen ion	Total	mg/l	0.00001		0.00001	
Nitrate + Nitrite	Total	mg/l as N	0.018		0.04	
Iron	Dissolved	ug/l	13		18	
Iron	Recoverable	ug/l	150		160	
Lead	Dissolved	ug/l	<0.5		<0.5	
Lead	Recoverable	ug/l	1		5	
Lithium	Dissolved	ug/l				
Magnesium	Dissolved	mg/l				
Manganese	Dissolved	ug/l	73		120	
Manganese	Recoverable	ug/l	90		150	
Molybdenum	Dissolved	ug/l				
Nitrate	Total	mg/l as N				
Nitrite	Total	mg/l as N				
Organic carbon	Total	mg/l				
Orthophosphate	Total	mg/l as P				
Oxygen	Dissolved	mg/l	8.5		7.3	
Oxygen	Dissolved	mg/l				
pH	Total	std units	8.3		8.2	

Station Number			**382917105225200**	**382917105225200**	**382917105225200**	**382917105225200**
Date			**6/20/1991**	**6/25/1991**	**7/18/1991**	**7/31/1991**
pH	Total	std units	8.2		8.2	
Phosphate-phosphorus	Total	mg/l				
Potassium	Dissolved	mg/l				
Silica	Dissolved	mg/l				
Sodium	Dissolved	mg/l				
Sodium adsorption ratio		None				
Sodium, percent total cations		%				
Specific conductance	Total	uS/cm @25C	774	728	768	740
Specific conductance	Total	uS/cm @25C	806		783	
Stream flow, instantaneous		ft3/s	0.4		0.7	
Stream flow, instantaneous		m3/sec	0.01		0.02	
Strontium	Dissolved	ug/l				
Temperature, water		deg C	15		17.5	
Total dissolved solids	Dissolved	mg/l	488		460	
Vanadium	Dissolved	ug/l				
Zinc	Dissolved	ug/l	<3		<3	
Zinc	Recoverable	ug/l	<10		<10	

Station Number			382917105225200	382917105225200	382917105225200	382917105225200
Date			10/24/1991	3/12/1992	3/24/1992	4/6/1992
Alkalinity, total	Total	mg/l CaCO3				
Aluminum	Dissolved	ug/l				
Ammonia and ammonium	Total	mg/l N	0.029			
Ammonia and ammonium	Total	mg/l NH4	0.037			
Barium	Dissolved	ug/l				
Beryllium	Dissolved	ug/l				
Cadmium	Dissolved	ug/l	<0.1			
Cadmium	Total	ug/l	<1			
Calcium	Dissolved	mg/l				
Carbon dioxide	Total	mg/l				
Cobalt	Dissolved	ug/l				
Copper	Dissolved	ug/l	<1			
Copper	Recoverable	ug/l	2			
Hardness, Ca, Mg		mg/l CaCO3				
Hydrogen ion	Total	mg/l	<0.001			
Nitrate + Nitrite	Total	mg/l as N	0.034			
Iron	Dissolved	ug/l	31			
Iron	Recoverable	ug/l	170			
Lead	Dissolved	ug/l	0.6			
Lead	Recoverable	ug/l	1			
Lithium	Dissolved	ug/l				
Magnesium	Dissolved	mg/l				
Manganese	Dissolved	ug/l	62			
Manganese	Recoverable	ug/l	80			
Molybdenum	Dissolved	ug/l				
Nitrate	Total	mg/l as N				
Nitrite	Total	mg/l as N				
Organic carbon	Total	mg/l				
Orthophosphate	Total	mg/l as P				
Oxygen	Dissolved	mg/l	8.7			
Oxygen	Dissolved	mg/l				
pH	Total	std units	8.5			

Station Number			382917105225200	382917105225200	382917105225200	382917105225200
Date			10/24/1991	3/12/1992	3/24/1992	4/6/1992
pH	Total	std units	8.2			
Phosphate-phosphorus	Total	mg/l				
Potassium	Dissolved	mg/l				
Silica	Dissolved	mg/l				
Sodium	Dissolved	mg/l				
Sodium adsorption ratio		None				
Sodium, percent total cations		%				
Specific conductance	Total	uS/cm @25C	721	699	701	688
Specific conductance	Total	uS/cm @25C	734			
Stream flow, instantaneous		ft3/s	3.8			
Stream flow, instantaneous		m3/sec	0.11			
Strontium	Dissolved	ug/l				
Temperature, water		deg C	8			
Total dissolved solids	Dissolved	mg/l	4.33			
Vanadium	Dissolved	ug/l				
Zinc	Dissolved	ug/l	3			
Zinc	Recoverable	ug/l	<10			

Station Number			382917105225200	382917105225200	382917105225200	382917105225200
Date			4/10/1992	4/14/1992	4/23/1992	5/22/1992
Alkalinity, total	Total	mg/l CaCO3				
Aluminum	Dissolved	ug/l				
Ammonia and ammonium	Total	mg/l N			0.018	
Ammonia and ammonium	Total	mg/l NH4			0.023	
Barium	Dissolved	ug/l				
Beryllium	Dissolved	ug/l				
Cadmium	Dissolved	ug/l			0.1	
Cadmium	Total	ug/l			<1	
Calcium	Dissolved	mg/l				
Carbon dioxide	Total	mg/l				
Cobalt	Dissolved	ug/l				
Copper	Dissolved	ug/l			<1	
Copper	Recoverable	ug/l			2	
Hardness, Ca, Mg		mg/l CaCO3				
Hydrogen ion	Total	mg/l			<0.001	
Nitrate + Nitrite	Total	mg/l as N			0.133	
Iron	Dissolved	ug/l			8	
Iron	Recoverable	ug/l			870	
Lead	Dissolved	ug/l			<0.5	
Lead	Recoverable	ug/l			<1	
Lithium	Dissolved	ug/l				
Magnesium	Dissolved	mg/l				
Manganese	Dissolved	ug/l			60	
Manganese	Recoverable	ug/l			120	
Molybdenum	Dissolved	ug/l				
Nitrate	Total	mg/l as N				
Nitrite	Total	mg/l as N				
Organic carbon	Total	mg/l				
Orthophosphate	Total	mg/l as P				
Oxygen	Dissolved	mg/l			9.2	
Oxygen	Dissolved	mg/l				
pH	Total	std units			8.6	

Station Number			382917105225200	382917105225200	382917105225200	382917105225200
Date			**4/10/1992**	**4/14/1992**	**4/23/1992**	**5/22/1992**
pH	Total	std units			8.4	
Phosphate-phosphorus	Total	mg/l				
Potassium	Dissolved	mg/l				
Silica	Dissolved	mg/l				
Sodium	Dissolved	mg/l				
Sodium adsorption ratio		None				
Sodium, percent total cations		%				
Specific conductance	Total	uS/cm @25C	702	741	696	714
Specific conductance	Total	uS/cm @25C			679	
Stream flow, instantaneous		ft3/s			4.2	
Stream flow, instantaneous		m3/sec			0.12	
Strontium	Dissolved	ug/l				
Temperature, water		deg C			7	
Total dissolved solids	Dissolved	mg/l			4.65	
Vanadium	Dissolved	ug/l				
Zinc	Dissolved	ug/l			4	
Zinc	Recoverable	ug/l			20	

Station Number			382917105225200	382917105225200	382917105225200	382917105225200
Date			6/9/1992	6/26/1992	8/13/1992	10/29/1992
Alkalinity, total	Total	mg/l CaCO3				
Aluminum	Dissolved	ug/l				
Ammonia and ammonium	Total	mg/l N		0.137	0.017	0.024
Ammonia and ammonium	Total	mg/l NH4		0.176	0.022	0.031
Barium	Dissolved	ug/l				
Beryllium	Dissolved	ug/l				
Cadmium	Dissolved	ug/l		<0.1	<0.1	<0.1
Cadmium	Total	ug/l		<1	<1	<1
Calcium	Dissolved	mg/l				
Carbon dioxide	Total	mg/l				
Cobalt	Dissolved	ug/l				
Copper	Dissolved	ug/l		2	<1	<1
Copper	Recoverable	ug/l		20	1	<1
Hardness, Ca, Mg		mg/l CaCO3				
Hydrogen ion	Total	mg/l		<0.001	<0.001	<0.001
Nitrate + Nitrite	Total	mg/l as N		0.122	0.055	0.039
Iron	Dissolved	ug/l		71	24	17
Iron	Recoverable	ug/l		7600	110	30
Lead	Dissolved	ug/l		<0.5	<0.5	<0.5
Lead	Recoverable	ug/l		4	<1	<1
Lithium	Dissolved	ug/l				
Magnesium	Dissolved	mg/l				
Manganese	Dissolved	ug/l		16	67	29
Manganese	Recoverable	ug/l		1800	80	<10
Molybdenum	Dissolved	ug/l				
Nitrate	Total	mg/l as N				
Nitrite	Total	mg/l as N				
Organic carbon	Total	mg/l				
Orthophosphate	Total	mg/l as P				
Oxygen	Dissolved	mg/l		7.7	7.8	8.6
Oxygen	Dissolved	mg/l				
pH	Total	std units		8.4	8.4	8.4

Station Number			**382917105225200**	**382917105225200**	**382917105225200**	**382917105225200**
Date			**6/9/1992**	**6/26/1992**	**8/13/1992**	**10/29/1992**
pH	Total	std units		7.8	8.4	8.2
Phosphate-phosphorus	Total	mg/l				
Potassium	Dissolved	mg/l				
Silica	Dissolved	mg/l				
Sodium	Dissolved	mg/l				
Sodium adsorption ratio		None				
Sodium, percent total cations		%				
Specific conductance	Total	uS/cm @25C	683	396	696	707
Specific conductance	Total	uS/cm @25C		386	682	706
Stream flow, instantaneous		ft3/s		32	0.68	0.2
Stream flow, instantaneous		m3/sec		0.9	0.02	0.01
Strontium	Dissolved	ug/l				
Temperature, water		deg C		14	17	10.5
Total dissolved solids	Dissolved	mg/l		18.8	0.74	0.22
Vanadium	Dissolved	ug/l				
Zinc	Dissolved	ug/l		<3	<3	<3
Zinc	Recoverable	ug/l		150	<10	<10