



WATER RESOURCES REPORT

BEN LOMAND MOUNTAIN VILLAGE



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MAY 2026 – **DRAFT**

Project Number W0389.22001





EXECUTIVE SUMMARY

Water needs and resources for Ben Lomand Mountain Village in El Paso County, CO have been evaluated based upon the proposed ruling for water rights, including the proposed augmentation plan. United Congregational Church's plans to develop Ben Lomand Mountain Village include up to 77 residential lots, 3 commercial lots (for a church, youth center, and retreat), and roughly 100 acres of open space.

The decreed water rights and augmentation plan pending approval for the subject parcels are adequate to meet the needs of the proposed development on a 300-year basis. Sufficient water quantity, quality, and dependability have been documented. Additional recommendations have been provided based upon water quality results for a representative well in the Dawson aquifer within the subdivision boundary.

<https://planningdevelopment.elpasoco.com/land-development-code-amendments-not-yet-codified/>

Please include water source/right for fire and wild land fire water

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1.0 INTRODUCTION

United Congregational Church (UCC) wishes to develop the subject property through the El Paso County Land Development and Planning Process. In accordance with Section 8.4.7(B)(1)(a) of the El Paso County Land Development Code (EPCLDC), this report has been prepared to provide the information required for the El Paso County Planning Commission and the Board of County Commissioners to determine whether the water supply for the proposed subdivision is adequate in terms of quantity, quality, and dependability.

1.1 LOCATION AND PROPERTY DESCRIPTION

The subject property is located in El Paso County, CO near the Town of Palmer Lake and lies both adjacent to and atop Ben Lomand Mountain. UCC owns approximately 341 contiguous acres in this location comprised of seven parcels, all in Township 11 South, Range 67 West of the 6th P.M., El Paso County, State of Colorado. See Figure 1-1-1 Vicinity Map.

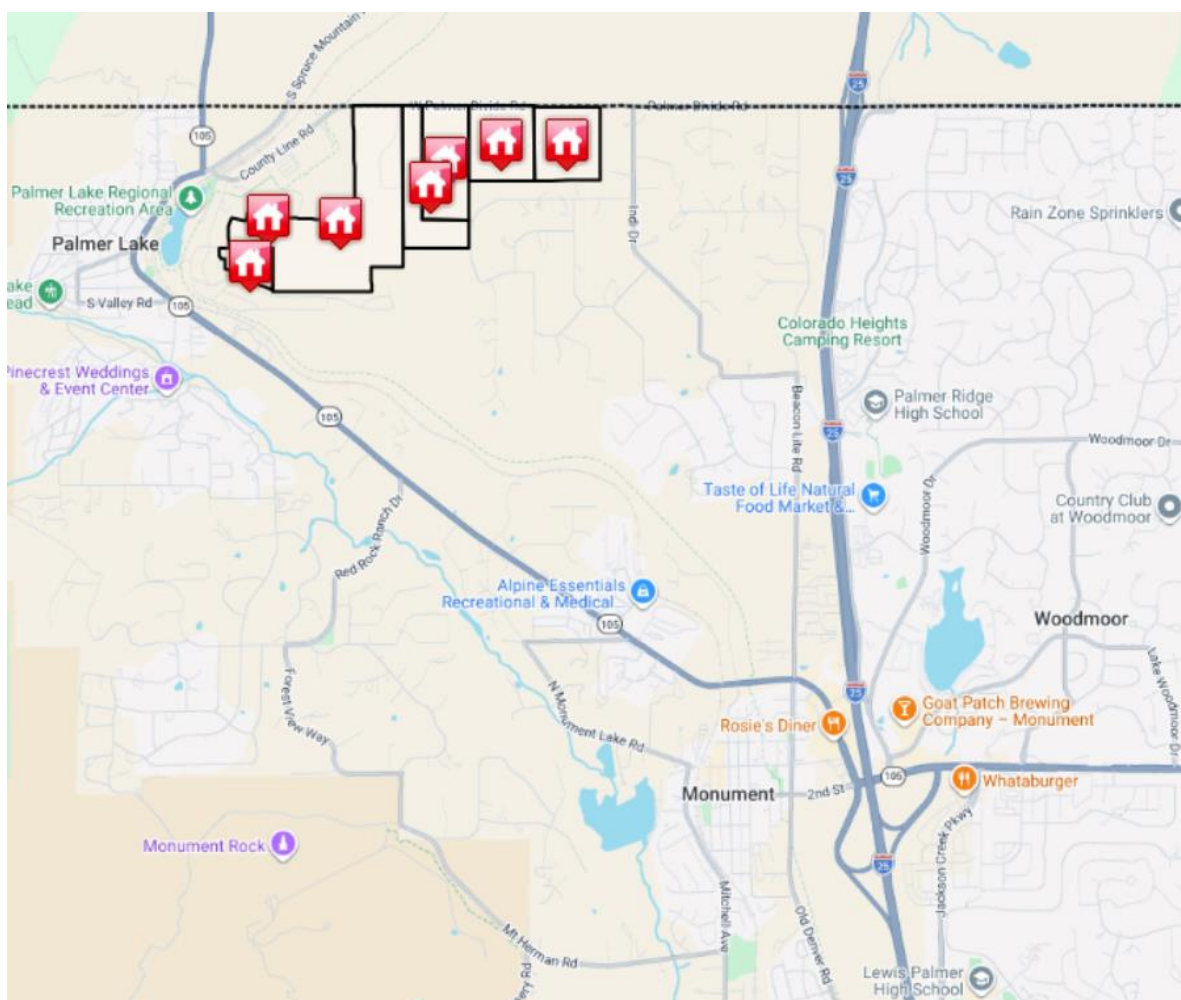


Figure 1-1-1 Vicinity Map (source: El Paso County Assessor)

1.2 BACKGROUND

While the owner originally applied for rights for groundwater underlying an area of 331.36 acres, it was later determined that a portion of the land had been previously decreed in Case No. 1987CW68, District Court, Water Division 2 to the Town of Palmer Lake. The proposed ruling includes an adjustment to the overlying land area, as appropriate.

The original groundwater rights application included the following overlying land areas (331.36 acres):

- / Section 3: A portion of the Adjudication Parcel lies in approximately the NW $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 3, T.11S., R.67W., comprising 44.28 acres.
- / Section 4: A portion of the Adjudication Parcel lies in approximately the NE $\frac{1}{4}$ NE $\frac{1}{4}$, W $\frac{1}{2}$ NE $\frac{1}{4}$, E $\frac{1}{2}$ NW $\frac{1}{4}$, S $\frac{1}{2}$ S $\frac{1}{2}$ NW $\frac{1}{4}$, and the N $\frac{1}{2}$ SW $\frac{1}{4}$ of Section 4, T.11S., R.67W., comprising 257.97 acres.
- / Section 5: A portion of the Adjudication Parcel lies in approximately the S $\frac{1}{2}$ S $\frac{1}{2}$ NE $\frac{1}{4}$, and a portion of the N $\frac{1}{2}$ SE $\frac{1}{4}$ of Section 5, T.11S., R.67W., comprising 29.11 acres.

The revised application removed the following underlying area from consideration (156.33 acres as previously decreed to the Town of Palmer Lake):

- / Portions of the W $\frac{1}{2}$ of Section 4 and portions of Section 5, both in T.11S., R.67W.

Therefore, the proposed ruling for Case # 2025CW3027 addresses underground water rights for 175.03 acres of this total area with the remaining 156.33 acres excluded from the proposed ruling due to having been previously decreed to the Town of Palmer Lake.

Since the proposed ruling, a minor deviation in acreage was identified, resulting from measurements in the assessor data that were caused by survey errors. The correct acreages are provided in Table 1-2-1 Parcel Areas. See also Figure 1-2-1 Parcel Map for relative parcel locations.

The proposed ruling as currently worded would allow for the place of use for the adjudicated groundwater to be the entire 331.36 acres of the proposed development. We anticipate the proposed ruling will be updated to incorporate the actual larger acreages and to revise the place of use to be the entire 341.1 acres of the proposed development. This minor difference in land area does not affect the conclusion that an adequate water supply is available to serve the proposed development.

See *Appendix A – Land Use Exhibit* for the Lot Layout Exhibit showing the parcels comprising the subdivision.

For the full legal description, see the attachment to the Water Supply Information Summary (WSIS) Form in *Appendix B – Water Supply Information Summary Form*.

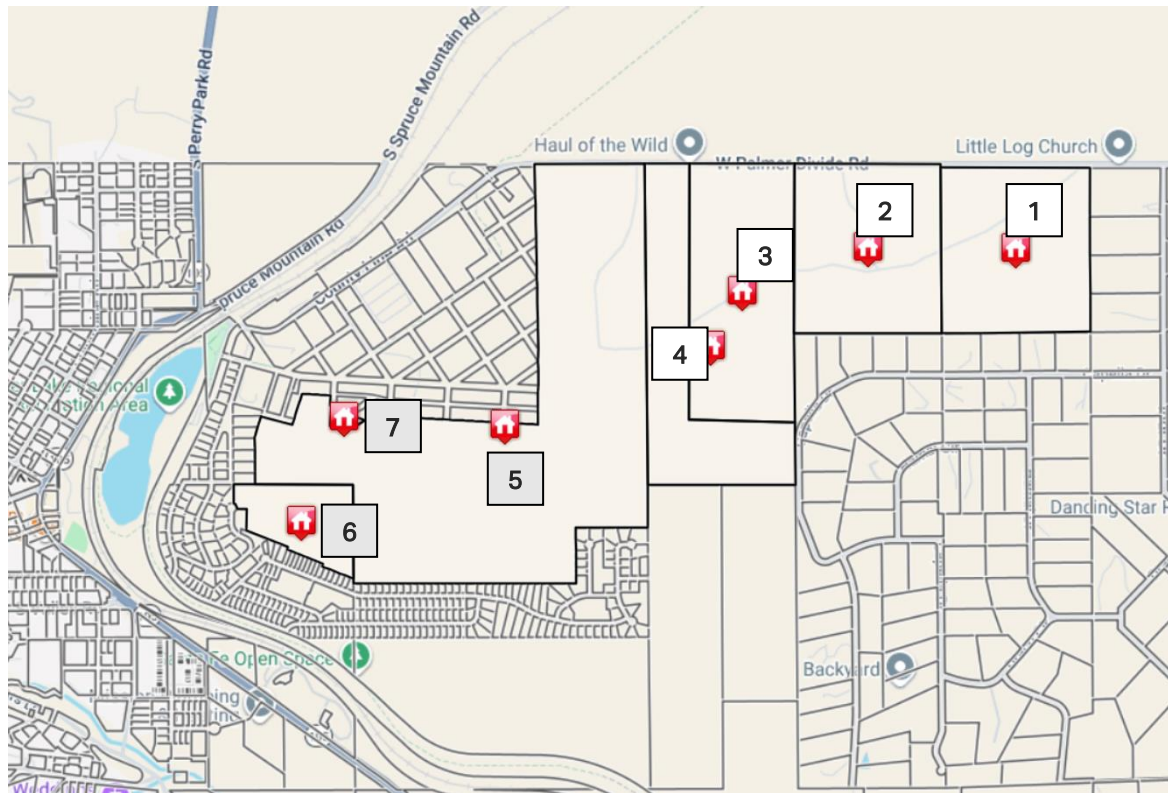


Figure 1-2-1 Parcel Map (source: El Paso County Assessor)

Table 1-2-1 Parcel Areas (source: El Paso County Assessor)

Parcel Label (see Figure 1-1-1b)	El Paso County Parcel Number	Parcel Area (acres)	Included in Overlying Land
1	7103000028	45.7	yes
2	7104001010	45.7	yes
3	7104000001	49.2	yes
4	7104000002	38.2	yes
5	7104200012	147.1	no
6	7105424044	14.3	no
7	7104237002	0.9	no ^(a)

(a) Excluded from development

2.0 PROJECTED LAND USES

2.1 SUBDIVISION PLANS

Ben Lomand Mountain Village is a proposed subdivision of seven parcels totaling approximately 341 acres. UCC plans to develop up to 77 residential lots (2.5-acre) and three (3) commercial lots (church, youth center, retreat center) while designating approximately 100 acres of open space. Refer to *Appendix A – Land Use Exhibit* for the Lot Layout Exhibit and Overall Utility plan.

3.0 WATER NEEDS AND PROJECTED DEMANDS

3.1 WATER DEMAND SUMMARY

The annual demands of the proposed subdivision are 54.62 AF. This is based upon a projected demand of 0.67 AF/yr per residential lot, which includes a minimum of 0.26 AF/yr for in-house domestic uses, and 1.00 AF/yr per commercial lot. All water demands for the subdivision are proposed to be met using residential wells drilled into the not-nontributary Upper Dawson aquifer, a non-renewable ground water source. This demand estimate is based upon information included in the “Plan for Augmentation” in the proposed ruling, which is included in *Appendix C – Determinations, Applications, Augmentation Plan*. Estimated water demands and wastewater loads based upon presumptive use values from the El Paso County Land Development Code are shown in Table 3-1-1 below.

Table 3-1-1 Summary of Anticipated Water Demands and Wastewater Loads

Max Number and Type of Units	Annual Indoor Use ^(a)	Average Daily Indoor Use	Annual Irrigation Use ^(b)	Total Annual Use (indoor + outdoor)	Average Daily Wastewater (septic) Flow
	(AF/yr)	(gpd)	(AF/yr)	(AF/yr)	(gpd)
77 residential	20.02	17873	31.60	51.62	16085
3 commercial	0.78	696	2.22	3.00	626
TOTAL				54.62	

(a) Residential: assumes 0.26 AF/yr/SFE (a minimum of 0.26 AF/yr/SFE is required for single family residences per 8.47(B)(7)(d) of the El Paso County Land Development Code)

Commercial: assumes 0.1 gpd/sf of developed space per El Paso County Land Development Code, 2320 sf per commercial lot

(b) Residential and commercial: assumes 0.0566 AF/1000 SF/year per 8.47(B)(7)(d) of the El Paso County Land Development Code and 7250 SF of lawn/garden/trees each residential lot (0.410 AF/lot/yr) or 13080 sf of landscaping each commercial lot (0.740 AF/lot/yr)

3.2 UNIT WATER USER CHARACTERISTICS

Unit water user characteristics have been established using either a single-family equivalent (SFE) basis, where applicable, or commercial demand rates. Each planned single-family home is counted as one SFE, with projected usage data per unit based upon Chapter 8 of the *El Paso County Land Development Code* and as denoted in the footnotes of Table 3-1-1 unless otherwise noted.

3.3 DEMAND VERSUS SUPPLY

The projected annual demand of 54.62 AF for the subdivision is less than the amount of supply available from the Dawson aquifer (78.517 AF/yr on a 300-year basis.) See Table 4-1-1.

4.0 WATER RIGHTS AND SUPPLY

4.1 EXISTING AND PENDING WATER RIGHTS

Adjudications are pending for underground water rights for the 175.03-acre overlying land. This overlying land area may be adjusted (increased slightly) based upon the actual survey information as noted previously. In the interim, the proposed ruling for Case # 2025CW3027 has been utilized for the water supply and demand analysis for this report.

4.1.1 ISSUED DETERMINATIONS

The basis of determination for each aquifer and the augmentation plan will be included in *Appendix C – Determinations, Applications, Augmentation Plan* once approved by the Court. Groundwater withdrawals from the Dawson aquifer must be in accordance with the requirements of the approved augmentation plan. This report will be updated following the adjudication of these water rights.

- / xxxx-BD (Dawson aquifer, pending)
- / xxxx-BD (Denver aquifer, pending)
- / xxxx-BD (Arapahoe aquifer, pending)
- / xxxx-BD (Laramie-Fox Hills aquifer, pending)

4.1.2 WELLS

Two existing Dawson aquifer wells within the subdivision boundary (operating under permit numbers 95392 and 127577) will be re-permitted under the augmentation plan. See *Appendix C* for permits.

4.1.3 WATER RIGHTS SUMMARY

Table 4-1-1 summarizes the pending determinations, including 100-year and 300-year allocations.

Table 4-1-1 Water Rights Summary and Adjudicated Appropriations

Basin	Aquifer	Case # (Determination Pending)	Tributary Status ^(a)	Overlying Land Area	Total Decreed Water	Annual Allocation (100-yr)	Annual Allocation (300-yr)
				(Ac)	(AF)	(AF/yr)	(AF/yr)
outside of a Designated Basin	Dawson ^(b)	Case # 2025CW3027	NNT	175.03	23555	235.55	78.517
	Denver ^(c)	Case # 2025CW3027	NT	175.03	11902	119.02	39.67
	Arapahoe ^(c)	Case # 2025CW3027	NT	175.03	10712	107.12	35.71
	Laramie-Fox Hills ^(c)	Case # 2025CW3027	NT	175.03	5251	52.51	17.50

Total					51420	514.20	171.397
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(a) NT = nontributary; NNT = not-nontributary

(b) NNT groundwater – requires augmentation plan

(c) NT groundwater – requires 2% return of annual withdrawn amount

4.2 PLACE OF USE

The place of use shall be the entire 341.1 acres of the proposed development.

4.3 TYPE OF USE

Both the adjudicated and pending water rights specify the type of use as domestic, including in-house use, commercial, irrigation, stock watering, fire protection, recreation, fish and wildlife, and augmentation purposes, including storage. The subject property is wholly outside of any designated ground water basin boundaries.

4.4 ADEQUACY OF WATER RIGHTS

The total amount of decreed water for the Upper Dawson aquifer as well as annual appropriations on both a 100-year and 300-year basis support sufficient water quantity for the proposed subdivision. This is based upon estimated and allowable use and the required augmentation amount (see Section 4.5.) Additional rights in the Denver, Arapahoe, and Laramie-Fox Hills formations have been secured and will remain available for future use subject to the reserve requirements of the augmentation plan.

4.5 AUGMENTATION PLAN

In the case of not non-tributary Denver Basin wells, including the Dawson aquifer wells proposed for the subdivision, an augmentation plan is required to replace out-of-priority depletions over the 300-year period. At full buildout, up to 77 residential and 3 commercial wells will divert a total of 54.62 AF annually from the Dawson aquifer for 300 years. The augmentation plan will allow for a maximum of 54.62 AF/yr total withdrawal. Maximum annual depletions have been determined to amount to 26.09 percent of the amount withdrawn in the 300th year of pumping or 14.108 AF. The Owner proposes to provide replacement water to the aquifer using non-evaporative septic systems and assuming return flows of 90 percent of domestic, in-house use for both residential and commercial lots. The amount of return credits at buildout using this formula is 18.72 AF/yr (18.018 AF/yr from 77 residential lots and 0.702 AF/yr from 3 commercial lots,) which is more than the 14.108 AF required for augmentation. Return flows totaling 14.108 AF will be allocated to both the Arkansas and South Platte basins using a ratio for return flows that mirrors the ratio of depletions for the respective basins in the 300th year. Return flows will accrue to each basin as follows:

Table 4-5-1 Return Flow Allocations

River Basin	Waterway	Percent of Pumping	Volume Returned
South Platte	East Plum Creek	11.15%	6.088 AF
Arkansas	Monument Creek	14.68%	8.020 AF



A totalizing flow meter shall be installed on each well to track the amount of water pumped; replacement of depletions shall be provided annually per the conditions of the augmentation plan. Records must be kept in accordance with the requirements of the augmentation plan.

5.0 WATER SYSTEM FACILITIES AND PHYSICAL SUPPLY

5.1 SOURCE OF SUPPLY

Supply for the 77 residential lots will be met with new Dawson aquifer wells as each lot is developed. Each new well will require permitting through the Division of Water Resources.

5.2 WATER TREATMENT

Water from a well within the subject property was tested for parameters required by El Paso County regulations for a confined aquifer. (See water quality discussion below.) A central water treatment system *will not* be provided and individual water supply, treatment, and/or storage equipment *will not* be considered part of a community system by the Colorado Department of Public Health and Environment (CDPHE.) Any desired treatment of existing and future wells will be the responsibility of individual homeowners.

5.3 WATER STORAGE

Water storage (other than potential individual cisterns or pressure tanks) will not be constructed.

5.4 WATER DISTRIBUTION

Since there is no central water system proposed for this subdivision, no distribution lines or pumping equipment will be provided. This also means that fire flow capabilities will not be provided; lot owners will be made aware of this through the subdivision process.

5.5 WATER QUALITY

Section 8.4.7(B)(10)(a) in the current EPC-LDC addresses confined aquifer sampling requirements and requires that the applicant obtain analyses results for twenty-one (21) Volatile Organic Chemicals (VOC), twenty-nine (29) Synthetic Organic Chemicals (SOC), fourteen (14) Inorganic Chemicals, ten (10) Secondary Maximum Contaminants, indicators of bacteriological pathogens (i.e. E. coli), inorganic anions, and two (2) radionuclides. Analysis of VOC's and SOC's is not required for the Dawson aquifer.

On April 13, 2026, representatives with RESPEC Company, LLC sampled the existing Dawson aquifer well (well permit no. 127577) located at the church at 3275 County Line Rd, Monument, CO. Samples were sent overnight to Colorado Analytical Laboratories to meet specified holding times for certain constituents. Results were tabulated and compared to Primary and Secondary Maximum Contaminant Levels (MCLs and SMCLs) as established by CDPHE's latest drinking water standards and based on the Environmental Protection Agency's (EPA) National Primary and Secondary Drinking Water Regulations. Tabulated results from the water quality analysis are shown in Table 5-5-1 below, while full reports are included in *Appendix D – Water Quality Results*.

Table 5-5-1 Water Quality Summary of Requirements and Results

No.	Compound	Units	MCL/SMCL	Result	Comment
1	Antimony	mg/L	0.006	ND	
2	Arsenic	mg/L	0.01	ND	
3	Barium	mg/L	2	0.0414	
4	Beryllium	mg/L	0.004	ND	
5	Cadmium	mg/L	0.005	ND	
6	Chromium	mg/L	0.1	Nd	
7	Cyanide (Total)	mg/L	0	ND	
8	Fluoride	mg/L	4	0.72	
9	Mercury	mg/L	0.002	Nd	
10	Nitrate as N	mg/L	10	0.25	
11	Nitrite as N	mg/L	1	ND	
12	Total Nitrate/Nitrite as N	mg/L	10	0.25	
13	Selenium	mg/L	0.05	0.0011	
14	Thallium	mg/L	0.002	ND	
15	Aluminum	mg/L	0.05	0.004	
16	Chloride	mg/L	250	0.8	
17	Langelier Index	-	-	-2.47	Undersaturated with CaCO ₃ (highly corrosive)
18	Iron	mg/L	0.3	ND	
19	Manganese	mg/L	0.05	ND	
20	pH	-	6.5 - 8.5	6.76	
21	Silver	mg/L	0.1	ND	
22	Sulfate	mg/L	250	1.8	
23	TDS	mg/L	500	47	
24	Zinc	mg/L	5	0.003	
25	Gross Alpha/Beta	pCi/L	15	8.7	α =[3.5], β =[5.2]
26	Combined Radium 226+228	pCi/L	5	2.5	226=[0.8], 228=[1.7]
27	Total Coliform	#/100 mL	Absent	Absent	
Green = Result below MCL - Acceptable Water Quality					
Red = Result above MCL - Not acceptable Water Quality					
ND = Not Detected					

All parameters were found to be below respective primary and secondary drinking water standards.

A Langelier Saturation Index (LSI) of -2.47 indicates highly corrosive water. This index represents the difference between the actual pH of the water and the calculated saturation pH of the water, which is the pH at which water is balanced for calcium carbonate (CaCO_3 .) The LSI value basically describes whether water will be corrosive, balanced, or scale-forming. See Table 5-5-2.

Table 5-5-2 Langelier Saturation Index and Water Characterization

LSI	CaCO_3	Water Characterization
negative	undersaturated	corrosive
zero	balanced	in equilibrium
positive	oversaturated	scale-forming

Calculated LSI values in the -3.0 to -1.0 range indicate highly corrosive water which implies significant metal corrosion risk. Values in the -0.3 to +0.3 range indicate balanced water. Values in the +1.0 to +3.0 range indicate a strong potential for scaling. Intermediate values on either side of the balanced range predict mild to moderate corrosion or scaling.

A strongly negative LSI, such as that indicated by the water quality test results for the church well, means that the water is undersaturated with respect to CaCO_3 and will have a propensity to dissolve metal piping due to interactions between the water and the metal ions on the pipe surface. The water, seeking minerals to reach equilibrium in the absence of calcium carbonate, will dissolve metal ions from pipe walls. While other aspects of water chemistry can influence whether and how much corrosion actually occurs, the index is a strong predictor of water's tendency to form scale or corrode.

After reviewing the analytical results, RESPEC Company, LLC does not find cause for concern in utilizing the underlying Dawson Aquifers for public consumption, irrigation, or other decreed uses within the proposed subdivision. The source water does not require treatment to comply with established Colorado/National Drinking Water Standards. Subdivision documents should include our recommendation for the use of HDPE, PVC, or PEX piping for well-to-house lines and PEX plumbing for all in-home/premise piping to limit reaction of the water and metals to fixtures only.

6.0 EL PASO COUNTY MASTER PLANNING ELEMENTS

6.1 EL PASO COUNTY WATER MASTER PLAN 2040 AND 2060 PROJECTIONS

The subject property is within El Paso County Water Master Plan Region 2. See Figure 6-1-1 for the relevant section of the Water Master Plan regional map.

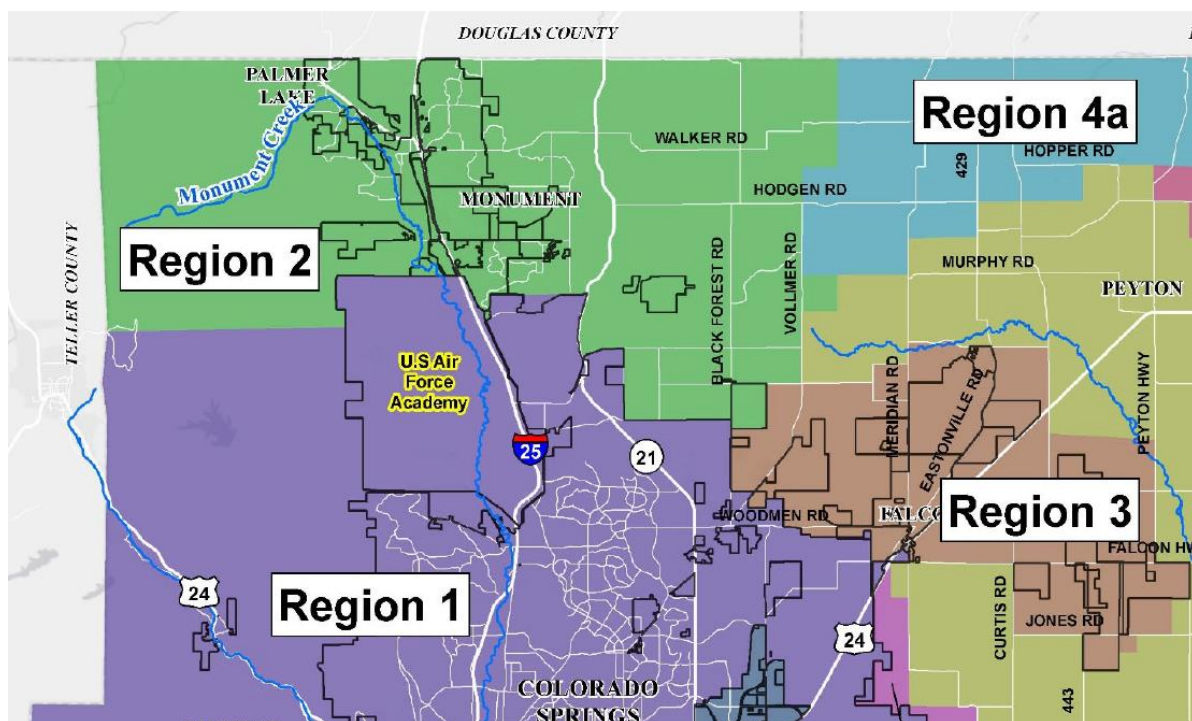


Figure 6-1-1 Water Master Plan Region Map (source: El Paso County Water Master Plan)

6.2 PROJECTED BUILDOUT

Full buildout of the subject property will be up to 78 total residential lots and 3 commercial lots..

6.3 LONG-TERM PLANNING (2040 AND 2060) AND FUTURE SOURCES OF SUPPLY

Consistent with El Paso County criteria, the supply of water has been evaluated for a 300-year pumping duration and appears to be more than adequate for full buildout, which would include both the 2040 and 2060 scenarios. However, the proposed supply in the Upper Dawson aquifer is characterized as non-renewable. If additional supply is needed (beyond 300 years), the Owner has additional applications under review for nontributary water rights in the Denver, Arapahoe, and Laramie-Fox Hills formations for the overlying land area within the proposed subdivision (totaling 175.03 acres.)

6.4 WATER SYSTEM INTERCONNECTIONS

The nearest public water system to the proposed subdivision is the Town of Palmer Lake's municipal water system. It is not feasible to connect to the Town of Palmer Lake's municipal water system.

Approximately 47.5 percent of the subject property (on its west side) was disconnected from the Town of Palmer Lake in December 2024, after negotiations regarding annexation of the other 52.5 percent of the property into Palmer Lake failed. During the annexation negotiations, Palmer Lake had agreed that the subject property would be served by wells and onsite wastewater treatment systems.

Additionally, according to the Town's Drinking Water Rate Study dated September 2023, the Town's current water system service area does not even cover the entire area within the Town. As such, there are 141 private wells on individual properties within the Town limits, the majority of which abut the South side of the subject property along Lake Avenue and Cathedral Drive. The Town's official water service map (which was developed before the United Congregational Church disconnection) does not



include the subject property. Largely based on the Town's concerns over its water supply, the Town also recently rejected an annexation petition for development at County Line Road and I-25. Therefore, the Ben Lomand Mountain Village subdivision will be most feasibly served by individual wells.

7.0 CONCLUSION

The water rights pending adjudication and augmentation plan proposed for the proposed subdivision are adequate to meet the needs of the subdivision on a 300-year basis. Sufficient water quantity, quality, and dependability have been documented. As previously stated, the minor difference in land area between the proposed ruling and the surveyed acreages does not affect the conclusion that an adequate water supply is available to serve the proposed development.

Subdivision documents should include our recommendation for the use of HDPE, PVC, or PEX piping for well-to-house lines and PEX plumbing for all in-home/premise piping.



8.0 REFERENCES

El Paso County. 2023. *El Paso County Land Development Code*.

Forsgren Associates, Inc. 2019. *El Paso County Water Master Plan*.

Water Rates by Brandewie, LLC. 2023. Drinking Water Rate Study Town of Palmer Lake, Colorado



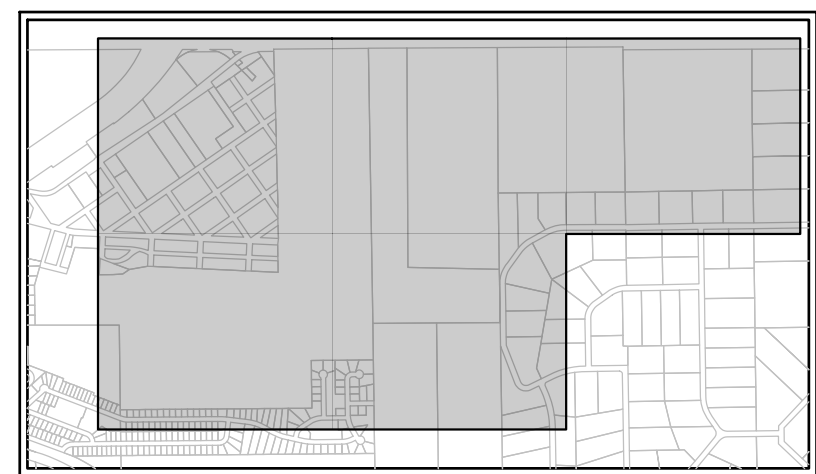
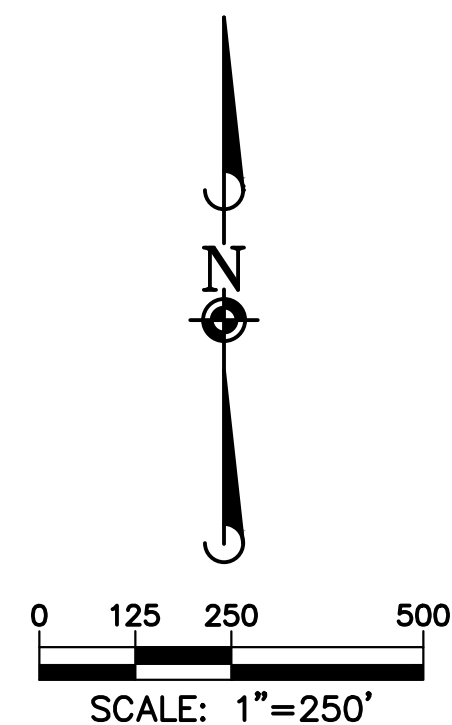
APPENDIX A

LAND USE EXHIBIT

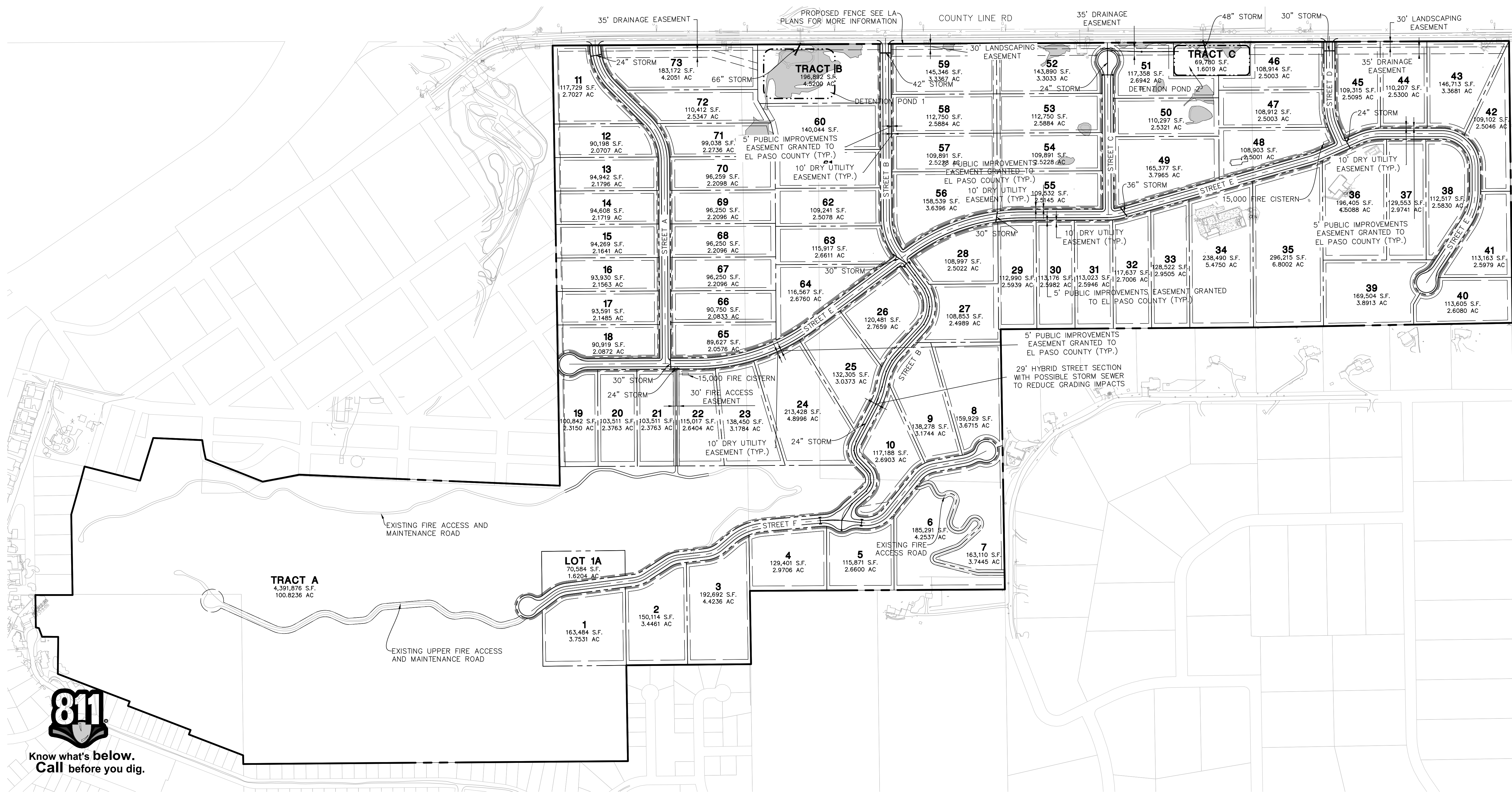


UTILITY NOTES

1. THE CONTRACTOR SHALL CONTACT 811 PRIOR TO ANY WORK TO LOCATE UTILITIES AND SHALL CONTACT THE OWNER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENT.
2. ROUTING OF GAS, ELECTRIC AND TELEPHONE SERVICES IF SHOWN ARE APPROXIMATE ONLY AND SUBJECT TO CHANGE BASED UPON FINAL REVIEW AND APPROVAL BY RESPECTIVE UTILITY COMPANIES AND OWNER. CONTRACTOR SHALL CONTACT EACH UTILITY COMPANY AND COORDINATE FINAL LOCATIONS FOR ALL UTILITY SERVICES PRIOR TO START OF CONSTRUCTION.
3. CONTRACTOR SHALL EXCAVATE AND VERIFY ALL EXISTING SEWER, WATER MAIN AND DRY UTILITY LOCATIONS, SIZES, CONDITIONS & ELEVATIONS AT PROPOSED POINTS OF CONNECTION AND CROSSINGS PRIOR TO ANY UNDERGROUND CONSTRUCTION AND NOTIFY THE OWNER OF ANY DISCREPANCIES OR CONFLICTS.
4. THE CONTRACTOR SHALL ADJUST RIM ELEVATIONS OF ALL EXISTING STRUCTURES TO PROPOSED FINISH GRADES.
5. CONTRACTOR TO VERIFY LOCATION, SIZES, AND ELEVATION OF ALL BUILDING SERVICE LOCATIONS WITH ARCHITECTURAL PLANS.
6. TYPE R INLET ELEVATIONS ARE TO TOP OF CURB AT THE MIDPOINT OF THE INLET UNLESS OTHERWISE NOTED.
7. ALL EXISTING UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT ELEVATION OR LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES.
8. THE UNDERGROUND UTILITY INFORMATION AS SHOWN HERE ON IS BASED, IN PART, UPON INFORMATION FURNISHED BY UTILITY COMPANIES AND THE LOCAL MUNICIPALITY. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED NOR CERTIFIED.
9. SOME EXISTING ITEMS TO BE REMOVED HAVE BEEN DELETED FROM THIS PLAN FOR CLARITY. SEE DEMOLITION PLAN FOR ITEMS DELETED.
10. ALL TRENCHES SHALL BE ADEQUATELY SUPPORTED AND THE SAFETY OF WORKERS PROVIDED FOR AS REQUIRED BY THE MOST RECENT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION." THESE REGULATIONS ARE DESCRIBED IN SUBPART P, PART 1926 OF THE CODE OF FEDERAL REGULATIONS. SHEETING AND SHORING SHALL BE UTILIZED WHERE NECESSARY TO PREVENT ANY EXCESSIVE WIDENING OR SLOUGHING OF THE TRENCH WHICH MAY BE DETRIMENTAL TO HUMAN SAFETY, TO THE PIPE BEING PLACED, TO TREES OR TO ANY EXISTING STRUCTURE WHERE EXCAVATIONS ARE MADE UNDER SEVERE WATER CONDITIONS. THE CONTRACTOR MAY BE REQUIRED TO USE AN APPROVED PILING INSTEAD OF SHEETING AND SHORING.
11. PROPERTY TO BE SERVED BY INDIVIDUAL WELL AND SEPTIC ON EACH LOT.
12. TWO FIRE CISTERNS OR UNDERGROUND STORAGE TANKS ARE PLANNED FOR THE DEVELOPMENT.



KEY MAP



Plotted: 3/4/2026 5:00 PM Dwg Name: p:\uncmocc01\dwg\Eng\final drawings\Plan Set\OVERALL UTILITY.dwg Updated By: nhirsch



Know what's below.
Call before you dig.

[illegible]

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CONSULTING

7600 East Orchard Road, Suite 150-N, Greenwood Village, CO 80111 ph:303.708.0500 manhard.com
Civil Engineering Surveying & Geospatial Services GIS

BEN LOMAND MOUNTAIN VILLAGE

EL PASO COUNTY, CO

OVERALL UTILITY

PROJ. MGR.: DJM
PROJ. ASSOC.: BB
DRAWN BY: ****
DATE: 03/06/2026

SHEET

18 OF 23

UNCMOCO01

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PRELIM PLANS - NOT FOR CONSTRUCTION



APPENDIX B

WATER SUPPLY INFORMATION SUMMARY FORM



FORM NO. GWS-76 05/2011	WATER SUPPLY INFORMATION SUMMARY STATE OF COLORADO, OFFICE OF THE STATE ENGINEER 1313 Sherman St., Room 821, Denver, CO 80203 Main (303) 866-3581 dwr.colorado.gov		
Section 30-28-133,(d), C.R.S. requires that the applicant submit to the County, "Adequate evidence that a water supply that is sufficient in terms of quantity, quality, and dependability will be available to ensure an adequate supply of water."			
1. NAME OF DEVELOPMENT AS PROPOSED:			
2. LAND USE ACTION:			
3. NAME OF EXISTING PARCEL AS RECORDED:			
SUBDIVISION: _____, FILING (UNIT) _____, BLOCK _____, LOT _____			
4. TOTAL ACREAGE:	5. NUMBER OF LOTS PROPOSED	PLAT MAP ENCLOSED? ☐ YES or ☐ NO	
6. PARCEL HISTORY – Please attach copies of deeds, plats, or other evidence or documentation. See attached Zoning Map.			
A. Was parcel recorded with county prior to June 1, 1972? ☐ YES or ☐ NO B. Has the parcel ever been part of a division of land action since June 1, 1972? ☐ YES or ☐ NO If yes, describe the previous action: _____			
7. LOCATION OF PARCEL – Include a map delineating the project area and tie to a section corner.			
_____ 1/4 of the _____ 1/4, Section _____, Township _____ ☐ N or ☐ S, Range _____ ☐ E or ☐ W See attached Legal Description. Principal Meridian (choose only one): ☐ Sixth ☐ New Mexico ☐ Ute ☐ Costilla Optional GPS Location: GPS Unit must use the following settings: Format must be UTM , Units must be meters , Datum must be NAD83 , Unit must be set to true N , ☐ Zone 12 or ☐ Zone 13 Easting: _____ Northing: _____			
8. PLAT – Location of all wells on property must be plotted and permit numbers provided.			
Surveyor's Plat: ☐ YES or ☐ NO If not, scaled hand drawn sketch: ☐ YES or ☐ NO			
9. ESTIMATED WATER REQUIREMENTS		10. WATER SUPPLY SOURCE	
USE	WATER REQUIREMENTS		☐ NEW WELLS - PROPOSED AQUIFERS – (CHECK ONE)
	Gallons per Day	Acre-Feet per Year	☐ EXISTING WELL ☐ DEVELOPED SPRING WELL PERMIT NUMBERS _____ _____ _____
HOUSEHOLD USE # _____ of units			☐ ALLUVIAL ☐ UPPER ARAPAHOE ☐ UPPER DAWSON ☐ LOWER ARAPAHOE ☐ LOWER DAWSON ☐ LARAMIE FOX HILLS ☐ DENVER ☐ DAKOTA ☐ OTHER: _____
COMMERCIAL USE # _____ of S. F			
IRRIGATION # _____ of acres			
STOCK WATERING # _____ of head			
OTHER: _____			
TOTAL			☐ MUNICIPAL ☐ ASSOCIATION ☐ COMPANY ☐ DISTRICT NAME _____ LETTER OF COMMITMENT FOR SERVICE ☐ YES or ☐ NO WATER COURT DECREE CASE NUMBERS: _____ _____ _____
11. WAS AN ENGINEER'S WATER SUPPLY REPORT DEVELOPED? ☐ YES or ☐ NO IF YES, PLEASE FORWARD WITH THIS FORM. (This may be required before our review is completed.) See Water Resources Report by Respec.			
12. TYPE OF SEWAGE DISPOSAL SYSTEM			
☐ SEPTIC TANK/LEACH FIELD ☐ LAGOON ☐ ENGINEERED SYSTEM (Attach a copy of engineering design.)		☐ CENTRAL SYSTEM DISTRICT NAME: _____ ☐ VAULT LOCATION SEWAGE HAULED TO: _____ ☐ OTHER: _____	

LEGAL DESCRIPTION

A PARCEL OF LAND BEING A PORTION OF THAT LOCATED IN THE NORTHWEST QUARTER OF SECTION 3, SECTION 4, AND THE EAST HALF OF SECTION 5, ALL WITHIN TOWNSHIP 11 SOUTH, RANGE 67 WEST OF THE SIXTH PRINCIPAL MERIDIAN, TOWN OF PALMER LAKE, COUNTY OF EL PASO, STATE OF COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BASIS OF BEARINGS: THE WEST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 4 IS ASSUMED TO BEAR NORTH 00°56'43" WEST AND BEING MONUMENTED AT THE SOUTH END BY A 2.5" IRON PIPE WITH A 3" IRON CAP STAMPED, "WC CTR, SEC 4, T11S, R67W" AND AT THE NORTH END A 3.5" ALUMINUM CAP STAMPED, "EL PASO COUNTY DOT, 2001, LS 17496" IN A MONUMENT BOX.

COMMENCING AT THE NORTH QUARTER CORNER OF SAID SECTION 4; THENCE SOUTH 00°56'43" WEST, THE EASTERLY LINE OF THE NORTHWEST QUARTER OF SAID SECTION 4, A DISTANCE OF 30.00 FEET TO THE SOUTHERLY RIGHT-OF-WAY LINE OF WEST PALMER DIVIDE ROAD, AND THE **POINT OF BEGINNING**;

THENCE ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE THE FOLLOWING THREE (3) COURSES:

1. NORTH 89°43'15" EAST, A DISTANCE OF 1333.93 FEET;
2. NORTH 89°43'16" EAST, A DISTANCE OF 1333.55 FEET;
3. NORTH 89°45'41" EAST, A DISTANCE OF 1348.00 FEET TO A POINT ON THE EAST LINE OF THE NORTHWEST QUARTER (NW1/4) OF SAID SECTION 3;

THENCE SOUTH 00°42'21" EAST, ALONG SAID EAST LINE, A DISTANCE OF 1502.49 FEET, TO THE NORTHWEST SIXTEENTH CORNER OF SAID SECTION 3;

THENCE SOUTH 88°58'55" WEST, ALONG THE SOUTH LINE OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SAID SECTION 3, A DISTANCE OF 1340.17 FEET TO THE NORTH SIXTEENTH CORNER COMMON TO SECTION 3 AND SECTION 4;

THENCE SOUTH 89°34'51" WEST, ALONG THE SOUTH LINE OF THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SAID SECTION 4, A DISTANCE OF 1335.76 FEET TO THE NORTHEAST SIXTEENTH CORNER OF SAID SECTION 4;

THENCE SOUTH 00°55'25" EAST, ALONG THE EAST LINE OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SAID SECTION 4, A DISTANCE OF 1359.73 FEET TO THE EAST SIXTEENTH CORNER OF SAID SECTION 4;

THENCE SOUTH 89°41'35" WEST, ALONG THE SOUTH LINE OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SAID SECTION 4, A DISTANCE OF 1332.89 FEET TO THE CENTER QUARTER CORNER OF SAID SECTION 4;

THENCE SOUTH 00°56'59" EAST, ALONG THE EAST LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 4, A DISTANCE OF 383.01 FEET TO A POINT WHICH LIES NORTH 89°08'56" EAST, A DISTANCE OF 1.90 FEET, OF A 0.75" IRON PIPE MONUMENTING THE NORTHEAST CORNER OF LOT 37, BLOCK 2 LAKEVIEW HEIGHTS UNIT 4 RECORDED AT RECEPTION NO. 2700 IN SAID RECORDS;

THENCE SOUTH 89°29'07" WEST, ALONG THE NORTH BOUNDARY OF SAID LAKEVIEW HEIGHTS UNIT 4, A DISTANCE OF 652.12 FEET TO THE NORTHWEST CORNER OF SAID LAKEVIEW HEIGHTS UNIT 4;

THENCE SOUTH 00°59'07" EAST, ALONG THE WEST BOUNDARY OF SAID LAKEVIEW HEIGHTS UNIT 4, A DISTANCE OF 500.86 FEET TO THE SOUTHWEST CORNER OF LOT 16, BLOCK 2 OF SAID LAKEVIEW HEIGHTS UNIT 4 MONUMENTED BY A 0.75" IRON PIPE;

THENCE SOUTH 89°33'50" WEST, ALONG THE NORTH BOUNDARY OF SAID LAKEVIEW HEIGHTS UNIT 4 AND THE NORTH BOUNDARY OF LAKEVIEW HEIGHTS UNIT 3 RECORDED AT RECEPTION NO. 498896 IN SAID RECORDS, A

DISTANCE OF 2,010.94 FEET TO THE NORTHWEST CORNER OF LOT 1, BLOCK 3, LAKEVIEW HEIGHTS UNIT 3 RECORDED AT RECEPTION NO. 2653 IN SAID RECORDS, MONUMENTED BY A 0.75" IRON PIPE;

THENCE NORTH 00°54'13" WEST, ALONG THE EAST BOUNDARY OF LAKEVIEW HEIGHTS UNIT 2 RECORDED AT RECEPTION NO. 448297 IN SAID RECORDS, A DISTANCE OF 45.65 FEET TO THE MOST EASTERLY NORTHEAST CORNER OF SAID LAKEVIEW HEIGHTS UNIT 2, SAME BEING THE SOUTH CORNER OF LOT 1, THE LOMAND SUBDIVISION RECORDED AT RECEPTION NO. 211713166 IN SAID RECORDS, MONUMENTED BY A 0.75" IRON PIPE;

THENCE ALONG THE SOUTHWESTERLY AND WESTERLY BOUNDARY OF SAID LOT 1 THE FOLLOWING ELEVEN (11) COURSES:

1. NORTH 68°59'45" WEST, A DISTANCE OF 303.87 FEET TO A 0.75" IRON PIPE;
2. NORTH 21°00'44" EAST, A DISTANCE OF 25.01 FEET TO A 0.75" IRON PIPE;
3. NORTH 68°57'32" WEST, A DISTANCE OF 350.50 FEET TO A 0.75" IRON PIPE;
4. NORTH 21°06'38" EAST, A DISTANCE OF 25.01 FEET TO A 0.75" IRON PIPE;
5. NORTH 69°06'59" WEST, A DISTANCE OF 199.29 FEET TO A 0.75" IRON PIPE;
6. NORTH 68°56'13" WEST, A DISTANCE OF 203.02 FEET TO A NO. 5 REBAR WITH A 1.25" ORANGE PLASTIC CAP, STAMPED, LS 14166";
7. NORTH 00°36'20" EAST, A DISTANCE OF 193.38 FEET TO A NO. 5 REBAR WITH A 1.25" ORANGE PLASTIC CAP, STAMPED, LS 14166";
8. NORTH 89°25'53" WEST, A DISTANCE OF 84.64 FEET TO A NO. 5 REBAR WITH A 1.25" ORANGE PLASTIC CAP, STAMPED, LS 14166";
9. NORTH 19°58'48" WEST, A DISTANCE OF 47.68 FEET TO A NO. 5 REBAR WITH A 1.25" RED PLASTIC CAP STAMPED, "LS 25629";
10. NORTH 77°02'10" WEST, A DISTANCE OF 16.42 FEET TO A NO. 5 REBAR WITH A 1.25" RED PLASTIC CAP (ILLEGIBLE);
11. NORTH 00°51'13" WEST, A DISTANCE OF 169.14 FEET TO THE NORTHWEST CORNER OF SAID LOT 1 MONUMENTED BY A 1.25" YELLOW PLASTIC CAP STAMPED, "PLS 23875";

THENCE NORTH 89°55'13" EAST, ALONG THE NORTH BOUNDARY OF SAID LOT 1 AND THE SOUTH BOUNDARY OF LAKE SHADOWS RECORDED AT RECEPTION NO. 1381330 IN SAID RECORDS, A DISTANCE OF 194.33 FEET TO THE SOUTHEAST CORNER OF LOT 21 OF SAID LAKE SHADOWS MONUMENTED BY A NO. 5 REBAR WITH A 1.25" YELLOW PLASTIC CAP STAMPED, "PLS 23875";

THENCE ALONG THE EASTERLY BOUNDARY OF SAID LAKE SHADOWS THE FOLLOWING THREE (3) COURSES:

1. NORTH 00°56'29" WEST, A DISTANCE OF 420.63 FEET TO A NO. 3 REBAR (NO CAP);
2. NORTH 15°43'05" EAST, A DISTANCE OF 201.07 FEET TO A NO. 3 REBAR WITH A 1" WHITE PLASTIC CAP STAMPED, "PLS 11710";
3. NORTH 14°54'27" EAST, A DISTANCE OF 59.33 FEET TO THE SOUTHEAST CORNER OF LOT 28 OF SAID LAKE SHADOWS MONUMENTED BY A NO. 3 REBAR WITH A 1" WHITE PLASTIC CAP (ILLEGIBLE);



THENCE SOUTH 75°44'35" EAST, ALONG THE NORTHERLY RIGHT-OF-WAY OF ST. ANDREW STREET AND THE SOUTHERLY BOUNDARY OF BLOCKS 18 AND 19 OF EAST PALMER LAKE, PLAT NO. 355 RECORDED AUGUST 1887, A DISTANCE OF 299.28 FEET TO THE SOUTHEAST CORNER OF SAID BLOCK 19 MONUMENTED BY A NO. 3 REBAR (NO CAP);

THENCE ALONG THE EASTERLY AND SOUTHERLY BOUNDARY OF SAID BLOCK 19 THE FOLLOWING TWO (2) COURSES:

1. NORTH 17°12'28" EAST, A DISTANCE OF 232.95 FEET TO A NO. 3 REBAR (NO CAP);
2. SOUTH 87°29'57" EAST, A DISTANCE OF 256.62 FEET TO WESTERLY RIGHT-OF-WAY OF GLEN DRIVE OF SAID EAST PALMER LAKE AND TO A NON-TANGENT CURVE;

THENCE ALONG SAID WESTERLY RIGHT-OF-WAY AND THE ARC OF A NON-TANGENT CURVE TO THE LEFT HAVING A CENTRAL ANGLE OF 05°47'08", A RADIUS OF 1,000.00 FEET, AN ARC LENGTH OF 100.98 FEET, THE CHORD OF WHICH BEARS SOUTH 10°18'55" EAST, A DISTANCE OF 100.94 FEET TO THE NORTHWEST CORNER OF LOT 1, BLOCK 27 OF SAID EAST PALMER LAKE MONUMENTED BY A NO. 3 REBAR WITH A WHITE PLASTIC CAP (ILLEGIBLE);

THENCE SOUTH 68°26'02" EAST, ALONG THE NORTH BOUNDARY OF THAT PARCEL OF LAND AS DESCRIBED IN SAID QUITCLAIM DEED, A DISTANCE OF 319.77 FEET TO THE SOUTHEAST CORNER OF LOT 10 OF SAID BLOCK 27 AT THE SOUTHERLY BOUNDARY OF SAID EAST PALMER LAKE MONUMENTED BY A NO. 3 REBAR WITH A 1" WHITE PLASTIC CAP STAMPED, "LS 11710";

THENCE ALONG THE SOUTHERLY AND EASTERLY BOUNDARY OF SAID EAST PALMER LAKE THE FOLLOWING THREE (3) COURSES:

1. NORTH 79°19'45" EAST, A DISTANCE OF 194.73 FEET TO A MAG NAIL WITH FLAGGING IN A ROCK OUTCROPPING;
2. SOUTH 87°35'46" EAST, A DISTANCE OF 1,363.31 FEET TO A NO. 3 REBAR (NO CAP);
3. NORTH 00°56'22" WEST, A DISTANCE OF 2,299.74 FEET TO THE SOUTHERLY RIGHT-OF-WAY OF SAID WEST PALMER DIVIDE ROAD MONUMENTED BY A NO. 4 REBAR WITH A 1" YELLOW PLASTIC CAP (ILLEGIBLE);

THENCE NORTH 89°41'41" EAST, ALONG SAID SOUTHERLY RIGHT-OF-WAY, A DISTANCE OF 983.83 FEET TO A POINT ON THE EASTERLY LINE OF THE NORTHWEST QUARTER (NW1/4) OF SAID SECTION 4, THE POINT OF BEGINNING.

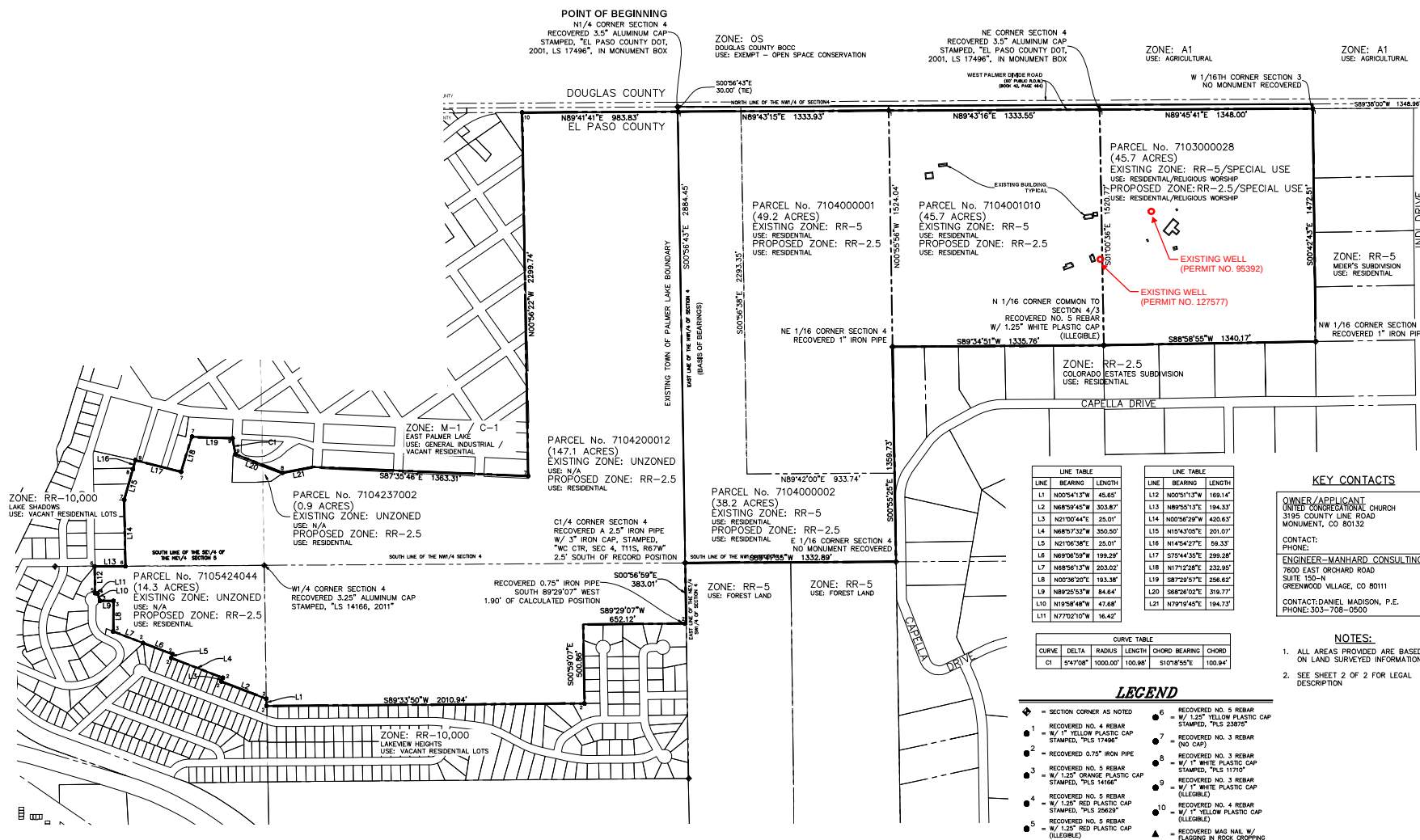
CONTAINING A CALCULATED AREA OF 14,856,761 SQUARE FEET OR 341.0643 ACRES, MORE OR LESS.

UNIT OF MEASURE IS U.S. SURVEY FEET.

I, STACY LYNN JACOBS, A SURVEYOR LICENSED IN THE STATE OF COLORADO, DO HEREBY CERTIFY THAT THE ABOVE DESCRIPTION AND ATTACHED EXHIBIT WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION.

STACY LYNN JACOBS, PLS
COLORADO REG. NO. 38495
FOR AND ON BEHALF OF:
MANHARD CONSULTING

LOCATED IN THE NORTHWEST QUARTER OF SECTION 3, WEST HALF AND NORTHEAST QUARTER OF SECTION 4, AND EAST HALF OF SECTION 5, ALL IN TOWNSHIP 11 SOUTH, RANGE 67 WEST OF THE SIXTH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO



Manhard
CONSULTING
Civil Engineering | Surveying & Geospatial Services | GIS
6600 East Orchard Road, Suite 1504, Greenwood Village, CO 80111 | ph.303.758.2500 | manhard.com

**BEN LOMAND MOUNTAIN VILLAGE
EL PASO COUNTY, COLORADO
ZONING MAP**

KEY CONTACTS

OWNER/APPLICANT
UNITED CONGREGATIONAL CHURCH
3195 COUNTY LINE ROAD
COLUMBUS, MISSISSIPPI

CONTACT

ENGINEER—MANHARD CONSULTING
7600 EAST ORCHARD ROAD
SUITE 150-N
GREENWOOD VILLAGE, CO 80111

CONTACT: DANIEL MADISON, P.E.
PHONE: 303-708-0500

NOTES:

1. ALL AREAS PROVIDED ARE BASED ON LAND SURVEYED INFORMATION
2. SEE SHEET 2 OF 2 FOR LEGAL DESCRIPTION

PROJ. WORK: DJM
PROJ. ASSOC.: AJH
DRAWN BY: AJH
DATE: 01.15.2015

SHEET
1 OF 2



APPENDIX C

DETERMINATIONS, APPLICATIONS, AUGMENTATION PLAN



DISTRICT COURT, WATER DIVISION 2, COLORADO 501 N. Elizabeth Street Pueblo, CO 81003	▲ COURT USE ONLY ▲
CONCERNING THE APPLICATION OF UNITED CONGREGATIONAL CHURCH, Applicant, IN EL PASO COUNTY	Case Number: 2025CW3027
FINDINGS OF FACT, CONCLUSIONS OF LAW, RULING OF THE REFEREE, AND JUDGMENT AND DECREE	

A claim for underground water rights and a plan for augmentation was filed in this case on June 2, 2025, and an amended claim was filed on June 6, 2025. All matters contained in the application having been reviewed, such testimony having been taken and evidence presented as was necessary, and being otherwise fully advised in the premises, it is hereby the Findings of Fact, Conclusions of Law, Ruling of the Referee, and Judgment and Decree, as follows:

FINDINGS OF FACT

1. Name and address of Applicant:

United Congregational Church
ATTN: Roger Sung, Pastor
3195 County Line Road
Monument, CO 80132

2. Statements of Opposition: Statements of opposition were filed by the City of Colorado Springs, the Town of Monument, the Town of Palmer Lake, and the State Engineer and Division Engineer for Water Division 2. No additional statements of opposition were filed and the time for filing such statements has expired.

3. Subject Matter Jurisdiction: Timely and adequate notice of the application was published as required by statute, and the Court has jurisdiction over the subject matter of this proceeding and over the parties affected hereby, whether they have appeared or not.

4. Consultation: The Water Referee did not consult with the Division 2 Engineer, as the Division 2 Engineer filed a statement of opposition in this case, which waives the consultation requirement. The amounts herein are consistent with and conform to the values and amounts referenced in the State Engineer's Determinations of Facts dated November 25, 2025.

GROUNDWATER RIGHTS

5. **Aquifers and Location of Groundwater:** Applicant is granted a decree for rights to groundwater in the not-nontributary Dawson Aquifer, and the nontributary Denver, Arapahoe, and Laramie-Fox Hills aquifers underlying approximately 175.03 acres in the N1/2 of the NE1/4 and the SW1/4 of the NE1/4 of Section 4, and the NW1/4 of the NW1/4 of Section 3, all in Township 11 South, Range 67 West of the 6th P.M., El Paso County, State of Colorado, as shown on **Exhibit A** (the “Decreed Property”).

5.1 Applicant originally applied for the groundwater underlying 331.36 acres of land however it was later determined that a portion of the land in the W1/2 of Section 4 and portions of Section 5, all in Township 11 South, Range 67 West of the 6th P.M., El Paso County, had been previously decreed in Case No. 1987CW68, District Court, Water Division 2 to the Town of Palmer Lake. By this Decree, the Applicant withdraws its claim to that groundwater without waiving any right to claim such groundwater in another proceeding.

5.2 Applicant will use the groundwater underlying the Decreed Property anywhere on the 331.36 acres of land originally identified in the Application, as shown on **Exhibit A** (the “Subject Property”).

6. **Well Locations, Pumping Rates, and Annual Amounts:** The groundwater may be withdrawn at rates of flow necessary to withdraw the amounts decreed herein. The groundwater will be withdrawn through any number of wells necessary, to be located at any location on the Subject Property. Applicant waives any 600-foot spacing rule for wells located on the Subject Property, but must satisfy C.R.S. § 37-90-137(4), for wells owned by others on adjacent properties. The following average annual amounts are available for withdrawal subject to the Court's retained jurisdiction in this matter.

Aquifer	Average Specific Yield (%)	Saturated Thickness (feet)	Annual Volume 100 Years (acre-feet)	Annual Volume 300 Years (acre-feet)	Total Volume (acre-feet)
Dawson (NNT)	20	690	235.55	78.517	24,154
Denver (NT)	17	360	107.12	35.71	10,712
Arapahoe (NT)	17	400	119.02	39.67	11,902
Laramie-Fox Hills (NT)	15	200	52.51	17.50	5,251

7. **Well Permits:** There are currently two (2) Dawson Aquifer wells on the Subject Property under Well Permit Nos. 95392 and 127577 which will be re-permitted under the augmentation plan approved herein. Well permits will be applied for prior to construction of wells. Any additional wells will only be located on the Decreed Property.
8. **Decreed Uses:** Groundwater withdrawn from the not-nontributary and nontributary aquifers underlying the Subject Property will be used, reused, and successively used to extinction for all allowable beneficial uses, including, but not limited to, domestic, including in-house use, commercial, irrigation, stock watering, fire protection,

recreational, fish and wildlife, and augmentation purposes, including storage. The water may be immediately used or stored for subsequent use, used for exchange purposes, for direct replacement of depletions, and for other augmentation purposes, including taking credit for all return flows resulting from the use of such water for augmentation of, or as an offset against, any out-of-priority depletions. The water may be leased, sold, or otherwise disposed of for all the above uses both on and off the Subject Property.

9. Estimated Average Pumping Rate and Well Depths: Wells will withdraw the subject groundwater at rates of flow necessary to withdraw the entire decreed annual amounts of groundwater. A site-specific evaluation must be conducted with each well permit to identify the interval due to the varied elevation of the aquifer and surface topography.

10. Final Average Annual Amounts of Withdrawal:

- 10.1 Final determination of the applicable average saturated sand thicknesses and resulting average annual amounts available to Applicant will be made pursuant to the retained jurisdiction of this Court, as described in Paragraph 26 below. The Court shall use the acre-foot amounts in Paragraph 6 in the interim period, until a final determination of water rights is made.

- 10.2 Applicant is granted the right to withdraw groundwater in excess of the decreed allowed average annual amount of withdrawal for each well field, pursuant to Rule 8A of the Statewide Nontributary Groundwater Rules, 2 CCR § 402-7, promulgated under C.R.S. § 37-90-137(4), and C.R.S. § 37-90-137(10), provided that the total volume of water withdrawn from each well field, including the wells specified herein and any additional wells constructed pursuant to this decree, does not exceed the product of the number of years since the date of issuance of the applicable well permits or the date of this decree, whichever is earlier, multiplied by the decreed allowed average annual amount of withdrawal, as specified herein or as may be determined pursuant to the retained jurisdiction of the Court. In no event shall withdrawals exceed the limits set forth in any applicable well permits.

11. Source of Groundwater and Limitations on Consumption:

- 11.1 The groundwater to be withdrawn from the Denver, Arapahoe, and Laramie-Fox Hills aquifers is "nontributary groundwater" as defined in C.R.S. § 37-90-103(10.5), and in the Denver Basin Rules, the withdrawal of which will not, within 100 years of continuous withdrawal, deplete the flow of a natural stream, including a natural stream as defined in C.R.S. §§ 37-82-101(2) and 37-92-102(1)(b), at an annual rate greater than 1/10 of 1% of the annual rate of withdrawal. The groundwater to be withdrawn from the Dawson Aquifer is "nontributary" as defined in C.R.S. §§ 37-90-103(10.7) and 37-90-137(9)(c.5) and will not be withdrawn without a plan for augmentation.

- 11.2 Applicant shall not consume more than 98% of the annual quantity of water withdrawn from the nontributary aquifers. The relinquishment of 2% of the

annual amount of water withdrawn to the stream system, as required by the Denver Basin Rules effective January 1, 1986, may be satisfied by any method selected by the Applicant and satisfactory to the State Engineer, so long as Applicant can demonstrate that an amount equal to 2% of such withdrawals (by volume) has been relinquished to the stream system.

- 11.3 There is unappropriated groundwater available for withdrawal from the subject aquifers beneath the Subject Property, and the vested water rights of others will not be materially injured by such withdrawals as described herein. Withdrawals hereunder are allowed on the basis of an aquifer life of 300 years, assuming no substantial artificial recharge within 300 years. No material injury to vested water rights of others will result from the issuance of permits for wells which will withdraw not-nontributary and nontributary groundwater or the exercise of the rights and limitations specified in this decree.

12. Additional Wells and Well Fields:

- 12.1 Applicant may construct additional and replacement wells in order to maintain levels of production, to meet water supply demands or to recover the entire amount of groundwater in the subject aquifers underlying the Subject Property. As additional wells are planned, applications for well permits shall be filed in accordance with C.R.S. § 37-90-137(10).
- 12.2 Two or more wells constructed into a given aquifer shall be considered a well field. In effecting production of water from such well field, Applicant may produce the entire amount which may be produced from any given aquifer through any combination of wells within the well field.
- 12.3 In considering applications for permits for wells or additional wells to withdraw the groundwater which is the subject of this decree, the State Engineer shall be bound by this decree and shall issue said permits in accordance with provisions of C.R.S. §§ 37-90-137(4) and (10).
- 12.4 In the event that the allowed average annual amounts decreed herein are adjusted pursuant to the retained jurisdiction of the Court, Applicant shall obtain permits to reflect such adjusted average annual amounts. Subsequent permits for any wells herein shall likewise reflect any such adjustment of the average annual amounts decreed herein.

13. Conditions for Well Operation and Construction:

For each well that is constructed pursuant to this decree, Applicant shall comply with the following conditions:

- 13.1 A totalizing flow meter shall be installed on the well discharge pipe prior to withdrawing any water therefrom and shall be maintained and operational at all

times for the life of the well. Applicant shall keep accurate records of all withdrawals by the well, make any calculations necessary, and submit such records to the Water Division 2 Engineer upon request.

- 13.2 The entire length of the open bore hole shall be geophysically surveyed prior to casing and copies of the geophysical log submitted to the Division of Water Resources. Applicant shall provide a geophysical log from an adjacent well or test hole, pursuant to Rule 9A of the Statewide Rules and acceptable to the State Engineer, which fully penetrates the aquifer, in satisfaction of the above requirement.
- 13.3 Groundwater production shall be limited to the specific identified aquifer. Plain, unperforated casing must be installed and properly grouted to prevent withdrawal from or intermingling of water from zones other than those for which the well was designed. A site-specific evaluation must be conducted with each well permit to identify the correct aquifer interval due to the varied elevations of the aquifers and surface topography.
- 13.4 Each well shall be permanently identified by its permit number, this Water Court Case Number, and the name of the producing aquifer on the above-ground portion of the well casing or on the pump house.

PLAN FOR AUGMENTATION

14. Plan for Augmentation:

- 14.1 Water to be Augmented: 54.62 acre-feet per year for 300 years of non-tributary Dawson Aquifer groundwater decreed herein.
- 14.2 Water to be Used for Augmentation: Return flows associated with use of the non-tributary Dawson Aquifer groundwater and return flows or direct discharge of non-tributary groundwater decreed herein.
- 14.3 The Dawson Aquifer groundwater will be used in up to 77 residential wells, and three (3) commercial wells, to be located on the Decreed Property, but will provide water service to any location on the Subject Property, as follows:
 - 14.3.1 Residential Wells: The 77 residential wells will each provide up to 0.67 acre-feet per year for in-house use in one (1) single-family dwelling, (0.26 acre-feet per year), outdoor irrigation of up to 8,200 square-feet (0.41 acre-feet per year), storage before use, and fire protection. Per El Paso County Code water use in single-family dwellings will equal at least 0.26 acre-feet of water annually for in-house uses, and the use of non-evaporative septic systems typically results in consumption of approximately 10% of such use, resulting in return flows of at least 0.234 acre-feet per year from each single-family residence, and 18.018 acre-feet

per year at full build-out. Various components of this plan for augmentation are predicated on these estimations, and Applicant shall be required to use a non-evaporative septic system to treat and dispose of water used for in-house use.

14.3.2 Commercial Wells: The three (3) commercial wells will each provide up to 1 acre-foot per year for commercial sanitary use (0.26 acre-feet per year) and outdoor irrigation of up to 14,800 square-feet (0.74 acre-feet per year). Water use for commercial sanitary purposes will equal at least 0.26 acre-feet of water annually, and the use of non-evaporative septic systems typically results in consumption of approximately 10% of such use, resulting in return flows of at least 0.234 acre-feet per year from each commercial business, and 0.702 acre-feet per year at full build-out. Various components of this plan for augmentation are predicated on these estimations, and Applicant shall be required to use a non-evaporative septic system to treat and dispose of water used for commercial sanitary use.

14.4 Replacement During Pumping: During pumping of the Dawson Aquifer groundwater, Applicant shall replace actual depletions to each affected stream system pursuant to C.R.S. § 37-90-137(9)(c.5). The total depletion to all basins during pumping is 14.108 acre-feet, or 25.83% of total pumping, and is allocated as follows:

14.4.1 South Platte River Basin : In the 300th year, the total depletion is 11.15% of the amount withdrawn or 6.088 acre-feet total. Return flows accrue to the South Platte River system via East Pum Creek.

14.4.2 Arkansas River Basin: In the 300th year, the total depletion is 14.68% of the amount withdrawn or 8.02 acre-feet total. Return flows accrue to the Arkansas River System via Monument Creek.

14.4.3 Return Flows From In-House Use: Return flows from in-house use of the Dawson Aquifer groundwater from the single-family residences is at least 18.018 acre-feet per year at full build-out as described above, and such return flow from use in the residences is sufficient to replace actual depletions for pumping of the entire 54.62 acre-feet per year for 300 years. Because return flows from all uses are estimated rather than measured, Applicant agrees that such return flows shall be used only to replace depletions under this plan for augmentation and shall not be sold, leased, traded, or assigned in whole or in part for any other purpose.

14.4.4 Until such time as the post-pumping depletions begin the Applicant must replace during pumping depletions to the affected stream using return flows as described in Paragraph 14.3 and/or by pumping nontributary groundwater decreed herein directly to the streams to replace such

depletions or using another replacement source approved by the Division Engineer, if the return flows are insufficient to replace the depletions.

14.5 Post-pumping Depletion Augmentation: Assuming maximum pumping of 54.62 acre-feet per year for 300 years from the Dawson Aquifer, the maximum total post-pumping depletion is 14.326 acre-feet, or 26.23% of total pumping, and is allocated to the affected stream systems as follows:

14.5.1 South Platte River Basin: Approximately 11.83% of the annual amount withdrawn or 6.463 acre-feet in the 315th year.

14.5.2 Arkansas River Basin: Approximately 14.40% of the annual amount withdrawn or 7.863 acre-feet in the 315th year.

14.5.3 Post- Pumping Groundwater Reservation: Applicant will reserve 1.41 acre-feet per year, 423 acre-feet total from the nontributary Denver Aquifer, 35.71 acre-feet per year, 10,712 acre-feet total from the nontributary Arapahoe Aquifer, and 17.50 acre-feet per year, 5,251 acre-feet total, from the nontributary Laramie-Fox Hills Aquifer, for a total reservation of 54.62 acre-feet per year for 300 years, 16,386 acre-feet total, of nontributary groundwater decreed herein for use in this plan but reserves the right to substitute the use of other nontributary groundwater, including return flows, either underlying the Subject Property, or from another location which is legally available for such purpose, for replacement of post-pumping depletions at such time that post-pumping depletions may begin. The Applicant must obtain written approval from the Division Engineer prior using a replacement source not identified in this augmentation plan. If necessary, the Applicant, or successors in interest, will apply for the necessary well permit and drill a post-pumping augmentation well. The Court retains continuing jurisdiction in this matter to determine if the supply is adequate.

14.6 Timing of Post-Pumping Replacements: Applicant will begin making post-pumping replacements when (1) the absolute amount of water (16,386 acre-feet of Dawson Aquifer groundwater) allowed to be withdrawn has been withdrawn from the well(s), (2) the Applicant, or successors in interest, have acknowledged in writing that all withdrawals for beneficial use of the Dawson Aquifer groundwater has permanently ceased, or (3) for a period of 10 consecutive years that no Dawson Aquifer groundwater has been withdrawn. At the time that post-pumping depletions begin as described in this paragraph, Applicant, or successors in interest, will be required to construct a well and pump groundwater to replace post-pumping depletions, subject to the terms and conditions of Paragraph 14.5. This condition constitutes a covenant running with the land.

14.7 Applicant will replace post-pumping depletions for the shortest of the following periods: (1) The period provided by C.R.S. § 37-90-137(9)(c.5), or (2) the

expressed period specified by the Colorado Legislature, should it specify one and providing the Applicant obtain Water Court approval for such modification, or (3) the period determined by the State Engineer, should they choose to set such a period and have jurisdiction to do so, or (4) the period established through rulings of the Colorado Supreme Court on relevant cases, or (5) until Applicant petitions the Water Court and the State Engineer's Office and prove that they have complied with any statutory requirement.

15. Failure of Applicant, or successors in interest, to comply with the terms of the decree may result in an order of the Division Engineer's office to curtail or eliminate pumping of the well. This decree shall be recorded in the real property records of El Paso County so that a title examination of the property, or any part thereof, shall reveal to all future purchasers the existence of this decree.
16. Administration of Plan for Augmentation:
 - 16.1 Accounting: Applicant shall report to the Division Engineer for Water Division 2 on an annual basis the amount of water pumped by each Denver Basin well during the preceding year, the annual estimated depletion to each affected stream system, the annual estimated amount of return flow credited to the augmentation plan, and any other information required by the Division Engineer on an accounting form acceptable to the Division Engineer. The Court does not mandate any specific form requirements; accounting forms may be changed from time to time so long as the information required by this decree is included in the forms. Accounting forms may be modified by Applicant with the Division Engineer's approval. Form changes approved by the Division Engineer shall be filed with the Court within 60 days of approval. Applicant shall file the annual accounting report required under this decree with the Court concurrent with submission to the Division Engineer.
 - 16.2 All withdrawals which are the subject of this decree will be metered.
 - 16.3 Pursuant to C.R.S. § 37-92-305(8), the State Engineer shall curtail all out-of-priority diversions, the depletions from which are not so replaced as to prevent injury to vested water rights.
 - 16.4 The Applicant, or successors in interest, at the direction of the Division Engineer shall make post-pumping replacements to the South Platte River stream system via East Plum Creek, and the Arkansas River stream system via Monument Creek, or their respective tributaries pursuant to the amounts referenced on the depletion chart and curves attached on **Exhibit B**.

CONCLUSIONS OF LAW

17. Full and adequate notice of the application was given, and the Court has jurisdiction over the subject matter and over the parties whether they have appeared or not.

18. Applicant has complied with all requirements and met all standards and burdens of proof, including but not limited to C.R.S. §§ 37-90-137(9)(c.5), 37-92-103(9), 37-92-302, 37-92-304(6), 37-92-305(3), (4), (6), (8), to adjudicate the plan for augmentation and are entitled to a decree confirming and approving the plan for augmentation as described in the Findings of Fact.
19. The Water Court has jurisdiction over this proceeding pursuant to C.R.S. § 37-90-137(6). This Court concludes as a matter of law that the application herein is one contemplated by law pursuant to C.R.S. § 37-90-137(4). The application for a decree confirming Applicant's right to withdraw and use all unappropriated groundwater from the nontributary aquifer beneath the Subject Property as described herein pursuant to C.R.S. § 37-90-137(4), should be granted, subject to the provisions of this decree. The application for a decree confirming Applicant's right to withdraw and use groundwater decreed herein from the Dawson Aquifer should be granted pursuant to C.R.S. §§ 37-90-137(4) and (9)(c.5), subject to the provisions of this decree. The withdrawal of up to 54.62 acre-feet per year for 300 years (16,386 acre-feet total) of the not-nontributary Dawson Aquifer groundwater, and in accordance with the terms of this decree, will not injuriously affect the owner of or persons entitled to use water under a vested water right or a decreed conditional water right. Any remaining amount of not-nontributary Dawson Aquifer groundwater decreed herein will not be withdrawn and used until it is included in a separate plan for augmentation.

JUDGMENT AND DECREE

20. The Findings of Fact and Conclusions of Law set forth above are hereby incorporated into the terms of this Ruling and Decree as if the same were fully set forth herein.
21. Applicant and/or successors may withdraw the subject groundwater herein through wells to be permitted by the State Engineer's Office located anywhere on the Subject Property in the average annual amounts and at the estimated average rates of flow specified herein, subject to the limitations herein and the retained jurisdiction by this Court.
22. The groundwater rights described in the Findings of Fact are hereby approved, confirmed, and adjudicated, including and subject to the terms and conditions specified herein. No owners of or persons entitled to use water under a vested water right or decreed conditional water right will be injured or injuriously affected by the pumping of Applicant's groundwater resources as decreed herein.
23. Pursuant to C.R.S. § 37-92-305(5), the replacement water herein shall be of a quality so as to meet the requirements for which the water of the senior appropriator has normally used.
24. The plan for augmentation as described in the Findings of Fact is hereby approved, confirmed, and adjudicated, including and subject to the terms and conditions specified herein.

25. No owners of or person entitled to use water under a vested water right or decreed conditional water right will be injured or injuriously affected by the operation of the plan for augmentation as decreed herein.
26. Retained Jurisdiction:
- 26.1 The Court retains jurisdiction as necessary to adjust the average annual amounts of groundwater available under the Subject Property to conform to actual local aquifer characteristics as determined from adequate information obtained from wells, pursuant to C.R.S. § 37-92-305(11). Within 60 days after completion of any well decreed herein or any test hole(s), Applicant, or any successor in interest to these water rights shall serve copies of such log(s) upon the State Engineer.
- 26.2 At such time as adequate data is available, any person, including the State Engineer, may invoke the Court's retained jurisdiction to make a Final Determination of Water Right. Within four months of notice that the retained jurisdiction for such purpose has been invoked, the State Engineer shall use the information available to him to make a final determination of water rights findings. The State Engineer shall submit such finding to the Water Court and the Applicant.
- 26.3 If no protest to such finding is made within 60 days, the Final Determination of Water Rights shall be incorporated into the decree by the Water Court. In the event of a protest, or in the event the State Engineer makes no determination within four months, such final determination shall be made by the Water Court after notice and hearing.
- 26.4 Except as otherwise provided in Paragraphs 26.1-26.3, above, pursuant to C.R.S. § 37-92-304(6), the plan for augmentation decreed herein shall be subject to the reconsideration of this Court on the question of material injury to vested water rights of others, for a period of ten (10) years beginning when 38 of the 77 homes have been completed. Any person, within such period, may petition the Court to invoke its retained jurisdiction. Any person seeking to invoke the Court's retained jurisdiction shall file a verified petition with the Court setting forth with particularity the factual basis for requesting that the Court reconsider injury to petitioner's vested water rights associated with the operation of this decree, together with proposed decretal language to effect the petition. The party filing the petition shall have the burden of proof of going forward to establish a prima facie case based on the facts alleged in the petition. If the Court finds those facts are established, Applicant shall thereupon have the burden of proof to show: (i) that the petitioner is not injured, or (ii) that any modification sought by the petitioner is not required to avoid injury to the petitioner, or (iii) that any term or condition proposed by Applicant in response to the petition does avoid injury to the petitioner. The Division of Water Resources as a petitioner shall be entitled to assert injury to the vested water rights of others. If no such petition is filed within such period and the retained jurisdiction period is not extended by the Court in

accordance with the provisions of the statute, this matter shall become final under its own terms.

27. The groundwater rights decreed herein are vested property rights appurtenant to the Subject Property and shall remain appurtenant unless expressly severed by conveyance to someone other than the property owner. If any deed for the Subject Property is silent to the conveyance of the water rights decreed herein, it is assumed that the water rights have been conveyed as an appurtenance to the Subject Property, unless all or part of the water rights have been previously severed.

Date: _____

Kate A Brewer
Water Referee
Water Division Two

The Court finds that no protest was filed in this matter. The foregoing is confirmed and is made the judgment and decree of this Court.

Date: _____

Gregory J. Styduhar
Water Judge
Water Division Two

COLORADO DIVISION OF WATER RESOURCES

1313 Sherman Street - Room 818
Denver, Colorado 80203

WELL COMPLETION AND PUMP INSTALLATION REPORT

PERMIT NUMBER 127577

RECEIVED

SEP 25 1985

WATER RESOURCES
STATE - ENGINEER
COLORADO

THIS FORM MUST BE SUBMITTED
WITHIN 60 DAYS OF COMPLETION
OF THE WORK DESCRIBED HERE-
ON. TYPE OR PRINT IN BLACK
INK.

WELL OWNER Stephen I. Kim NE $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Sec. 4

ADDRESS 6363 Cripple Creek Ln., Colorado T. 11 S. R. 67 W. 6th P.M.
Springs, CO. 80919

DATE COMPLETED September 26, 1984

HOLE DIAMETER

6 $\frac{1}{2}$ in. from 0 to 440 ft.

 in. from to ft.

 in. from to ft.

DRILLING METHOD Rotary

CASING RECORD: Plain Casing

Size 6" & kind Steel from 0 to 20 ft.

Size 4" & kind PVC from 6 to 340 ft.

Size 4" & kind PVC from 420 to 440 ft.

Perforated Casing

Size 4" & kind PVC from 340 to 420 ft.

Size & kind from to ft.

Size & kind from to ft.

GROUTING RECORD

Material Sand, Gravel, Cement

Intervals 0' - 19'

Placement Method Manual

GRAVEL PACK: Size 3/8" Pea

Interval 19' - 440'

TEST DATA

Date Tested September 26, 1984

Static Water Level Prior to Test 258 ft.

Type of Test Pump Blown by air

Length of Test 4 hours

Sustained Yield (Metered) 15 G.P.M.

Final Pumping Water Level 380'

WELL LOG

From	To	Type and Color of Material	Water Loc.
0	1	Topsoil	
1	22	Coarse Sand & Grav. w/s Granite cobbles	
22	80	Sand & Grav. m/wBrown Clay	
80	200	Sand & Grav. m/wGray Clay	
200	260	Sand & Grav. m/wBrown Clay	
260	340	Sand & Grav. m/wGray Clay	
340	435	Sand & Grav.	X
435	440	Sand & Grav. m/wBrown Clay	
TOTAL DEPTH <u>440'</u>			

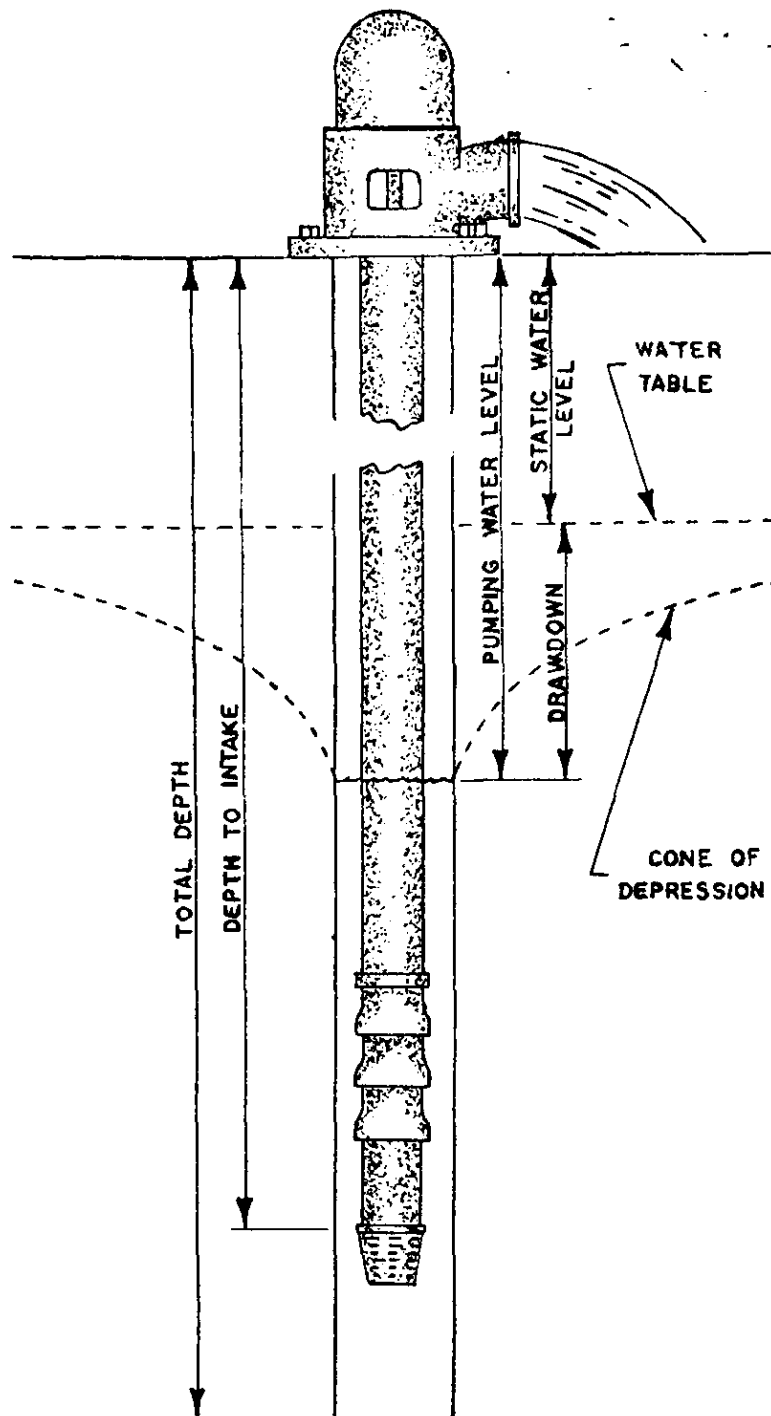
Use additional pages necessary to complete log.

PUMP INSTALLATION REPORT

Pump Make Grundfos
 Type Submersible
 Powered by Electric HP 1 1/2
 Pump Serial No. T-8335M-816
 Model SP2-26
 Date Installed September 28, 1984
 Pump Intake Depth 415'
 Remarks _____

WELL TEST DATA WITH PERMANENT PUMP

Date Tested August 22, 1985
 Static Water Level Prior to Test 258'
 Length of Test 4 Hours
 Sustained yield (Metered) 7 GPM
 Pumping Water Level Not measured.
 Remarks _____



CONTRACTORS STATEMENT

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

Signature Thomas Fletcher License No. 1068

State of Colorado, County of El Paso SS

Subscribed and sworn to before me this 24 day of September, 19 85.

My Commission expires: July 3, 19 85.

Notary Public Marion C. Nelson

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

COLORADO DIVISION OF WATER RESOURCES
818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203

RECEIVED**AUG 16 1982**

WATER R.
STATE -
C.D.L.

PERMIT APPLICATION FORM

Application must be complete where applicable. Type or print in **BLACK INK**. No overstrikes or erasures unless initialed.

☒ A PERMIT TO USE GROUND WATER
☒ A PERMIT TO CONSTRUCT A WELL
FOR: ☒ A PERMIT TO INSTALL A PUMP

() REPLACEMENT FOR NO. _____

() OTHER _____

WATER COURT CASE NO. _____

(1) APPLICANT - mailing address

NAME STEPHEN I. KIM
STREET 720 SOUTH TEJON STREET
CITY COLORADO SPRINGS CO 80903
(State) (Zip)
TELEPHONE NO. (303) 475-7608

(2) LOCATION OF PROPOSED WELL

County EL PASO
N.E. ¼ of the N.E. ¼, Section 4
Twp. 11 S, Rng. 67 W, 6TH P.M.
(N.S.) (E.W.)

(3) WATER USE AND WELL DATA

Proposed maximum pumping rate (gpm) 15 GPM
Average annual amount of ground water to be appropriated (acre-feet): 1 (ONE)
Number of acres to be irrigated: 1 (ONE)
Proposed total depth (feet): 250'
Aquifer ground water is to be obtained from:
DAWSON OR DENVER

Owner's well designation _____

GROUND WATER TO BE USED FOR:

() HOUSEHOLD USE ONLY - no irrigation (0)
☒ DOMESTIC (1) () INDUSTRIAL (5)
() LIVESTOCK (2) () IRRIGATION (6)
() COMMERCIAL (4) () MUNICIPAL (8)
() OTHER (9) _____

DETAIL THE USE ON BACK IN (11)

(4) DRILLER

Name PAUL FLETCHER & SONS, INC.
Street ROUTE #1 HWY 105
City PALMER LAKE CO 80133
(State) (Zip)
Telephone No. 481-3589 Lic. No. 797

FOR OFFICE USE ONLY: DO NOT WRITE IN THIS COLUMN

Receipt No. 29041 / _____

Basin _____ Dist. _____

CONDITIONS OF APPROVAL

This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of the permit does not assure the applicant that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.

1) APPROVED PURSUANT TO CRS 1973, 37-92-602 (3)
(b) (11) AS THE ONLY WELL ON A TRACT OF LAND DESCRIBED AS 40 ACRES IN THE NE ¼, NE ¼, SEC 4, T11S, R67W, 6 PM

2) THE USE OF GROUNDWATER FROM THIS WELL IS LIMITED TO FIRE PROTECTION, ORDINARY HOUSEHOLD PURPOSES INSIDE A SINGLE FAMILY DWELLING, THE IRRIGATION OF NOT MORE THAN ONE ACRE OF HOME GARDENS AND LAWNS, AND THE WATERING OF DOMESTIC ANIMALS.

THE RETURN FLOW FROM THE USE OF THE WELL MUST BE THRU AN INDIVIDUAL WASTE WATER DISPOSAL SYSTEM OF THE NON - EVAPORATIVE TYPE WHERE THE WATER IS RETURNED TO THE SAME STREAM SYSTEM IN WHICH THE WELL IS LOCATED.

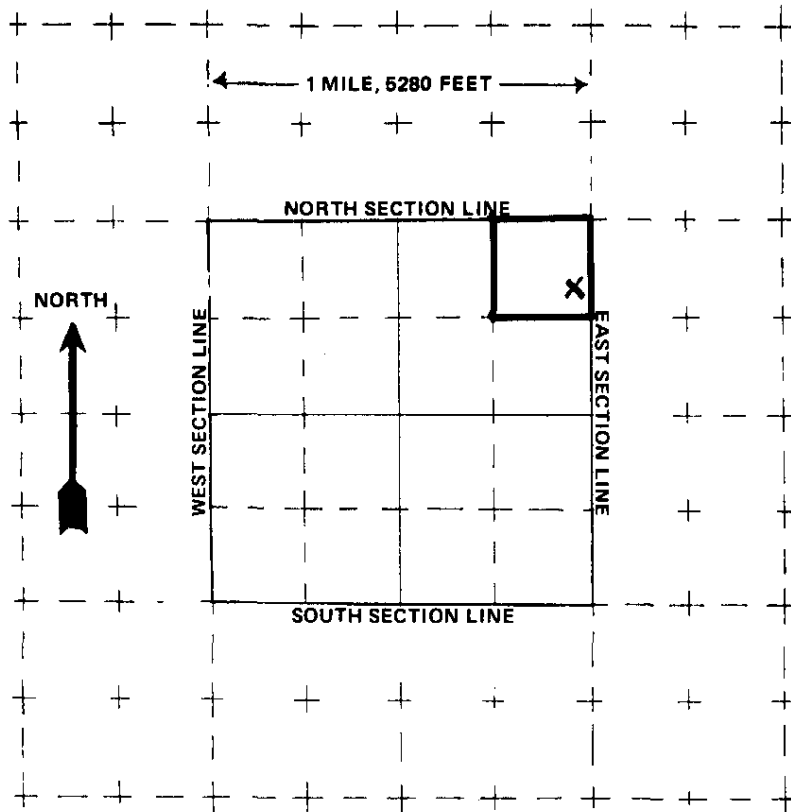
PERMIT EXPIRATION DATE EXTENDED ONE YEAR TO OCTOBER 1, 1985.

APPLICATION APPROVEDPERMIT NUMBER 127577DATE ISSUED OCT 1 1982EXPIRATION DATE OCT 1 1984

Robert G. Langenbaugh
Assistant (STATE ENGINEER)

BY Dwight R. Woodward
I.D. 2-10 COUNTY 21

(5) **THE LOCATION OF THE PROPOSED WELL** and the area on which the water will be used must be indicated on the diagram below. Use the CENTER SECTION (1 section, 640 acres) for the well location.



The scale of the diagram is 2 inches = 1 mile
Each small square represents 40 acres.

WATER EQUIVALENTS TABLE (Rounded Figures)

An acre-foot covers 1 acre of land 1 foot deep
1 cubic foot per second (cfs) . . . 449 gallons per minute (gpm)
A family of 5 will require approximately 1 acre-foot of water per year.
1 acre-foot . . . 43,560 cubic feet . . . 325,900 gallons.
1,000 gpm pumped continuously for one day produces 4.42 acre-feet.

(6) **THE WELL MUST BE LOCATED BELOW** by distances from section lines.

1,000 ft. from NORTH sec. line
(north or south)

100 ft. from EAST sec. line
(east or west)

LOT _____ BLOCK _____ FILING # _____

SUBDIVISION _____

(7) **TRACT ON WHICH WELL WILL BE LOCATED**

Owner: ROGER SUNG & HELENA S. KIM

No. of acres 40. Will this be the only well on this tract? Yes

(8) **PROPOSED CASING PROGRAM**

Plain Casing

4" in. from 0 ft. to 130 ft.

4" in. from 240 ft. to 250 ft.

Perforated casing

4" in. from 130 ft. to 240 ft.

_____ in. from _____ ft. to _____ ft.

(9) **FOR REPLACEMENT WELLS** give distance and direction from old well and plans for plugging it:

(10) **LAND ON WHICH GROUND WATER WILL BE USED:**

Owner(s): ROGER SUNG & HELENA S. KIM No. of acres: 40 - SQUARE

Legal description: N.E. 1/4 OF N.E. 1/4 OF SECTION 4 IN TOWNSHIP 11 SOUTH, RANGE 67 WEST OF 6TH P.M. EL PASO CO.

(11) **DETAILED DESCRIPTION** of the use of ground water: Household use and domestic wells must indicate type of disposal system to be used.

Family Use, Watering Lawns and Gardens.
used with Septic System

(12) **OTHER WATER RIGHTS** used on this land, including wells. Give Registration and Water Court Case Numbers.

Type or right

Used for (purpose)

Description of land on which used

NONE

(13) **THE APPLICANT(S) STATE(S) THAT THE INFORMATION SET FORTH HEREON IS TRUE TO THE BEST OF HIS KNOWLEDGE.**

H. Kim

SIGNATURE OF APPLICANT(S)

RECEIVED

AUG 19 1982

WATER RESOURCES
STATE ENGINEER
COLO.

STATE OF COLORADO
DIVISION OF WATER RESOURCES

STATE OF COLORADO

COUNTY OF

SS

AFFIDAVIT

The affiant(s) Roger Sung & Helena S. Kim whose
mailing address is 720 So. Tejon St., Colo. Spgs.,
(Street) (City)
Colo., 80903, being duly sworn upon oath
(State) (Zip Code)

deposes and says that he (she) (they) is (are) the owner(s) of the following
described property situate in the County of El Paso State of
Colorado: (insert or attach one of the following types of legal description
for your specific acreage: metes and bounds; survey plat; or lot No., block
No., filing No., and subdivision name.)

NE 1/4, NE 1/4, SEC. 4, T. 11S, R. 67W, 6 P.M.
(40 ACRES)

Further, the affiant(s) depose(s) and say(s) that he (she) (they) has (have)
read the statements made herein; knows the contents hereof; and that the same are
true of his (her) (their) own knowledge.

Roger Sung
Helena S. Kim

Subscribed and sworn to before me this 17th day of August, 1982

My Commission expires: My Commission Expires July 22, 1986

Chas W. Wrayne
Notary Public

Sept 24. 1984

Handwritten signature

RECEIVED

SEP 26 1984

WATER RESOURCES
STATE ENGINEER
COLOR.

COLORADO DIVISION OF WATER RESOURCES
818 CENTENNIAL BLDG.
1313 SHERMAN STREET
DENVER, CO 80203.

RE: PERMIT # 127577

TO WHOM IT MAY CONCERN:

THERE HAS BEEN A DELAY IN BUILDING HOUSE DUE TO FINANCIAL ARRANGEMENT. AND PRESENTLY BASEMENT & FLOORING IS COMPLETED AND ELECTRICITY IS IN SERVICE.

I WOULD LIKE TO REQUEST AN EXTENSION OF PERMIT FOR WELL LOCATED ON 3295 COUNTY LINE RD, EL PASO CO. (NE 1/4, NE 1/4, SEC 4 T11S, R 67W). THE PERMIT IS ABOUT TO EXPIRE ON OCT 1, 1984.

THANK YOU.

TRUDY,

Handwritten signature

STEPHEN I. KIM
6363 CRIPPLE CREEK LN.
COLORADO SPRINGS CO 80919.

RICHARD D. LAMM
Governor



JERIS A. DANIELSON
State Engineer

OFFICE OF THE STATE ENGINEER
DIVISION OF WATER RESOURCES

1313 Sherman Street-Room 818
Denver, Colorado 80203
(303) 866-3581

October 1, 1984

Mr. Stephen I. Kim
6363 Cripple Creek Lane
Colorado Springs, CO 80919

RE: Well Permit No. 127577

Dear Mr. Kim:

Your request for an extension of time to construct the referenced well has been received and reviewed.

You are hereby given notice that an extension of one year to October 1, 1985 has been approved by the State Engineer. A copy of the amended well permit is enclosed.

Once the well is constructed and the permanent pump is installed, well completion and pump installation reports including well and permanent pump test data must be submitted to this office. After water from the well has been put to use, evidence of beneficial use must be submitted to this office.

A Statement of Beneficial Use form was provided to the applicant when the well permit was issued. Additional forms are available from well contractors, pump installers, and Colorado Division of Water Resources offices.

Sincerely,

Sandy Johnson
Engineering Aide
Ground Water Section

SJ/ew
Enclosure

3329I/3330I

THIS FORM MUST BE SUBMITTED
WITHIN 60 DAYS OF COMPLETION
OF THE WORK DESCRIBED HERE.
ON TYPE OR PRINT IN BLACK
INK.

COLORADO DIVISION OF WATER RESOURCES

1313 Sherman Street - Room 818
Denver, Colorado 80203

WELL COMPLETION AND PUMP INSTALLATION REPORT

PERMIT NUMBER 95392

RECEIVED

SEP 15 '78

WATER RESOURCES
STATE ENGINEER
COLO.

WELL OWNER Charles & Albinia M. Clay

5323 Camberia Rd.

ADDRESS Colorado Springs, Colo. 80916

DATE COMPLETED December 14, 1977

NW 11 S 67 W 6th P.M.

HOLE DIAMETER

7 in. from 0 to 410 ft.

 in. from to ft.

 in. from to ft.

DRILLING METHOD Cable tool

CASING RECORD: Plain Casing

Size 5" & kind PVC from 0 to 330 ft.

Size 5" & kind PVC from 400 to 410 ft.

Size & kind from to ft.

Perforated Casing

Size 5" & kind PVC from 330 to 400 ft.

Size & kind from to ft.

Size & kind from to ft.

GROUTING RECORD

Material cement

Intervals 10-20 & 240-250

Placement Method poured from top

GRAVEL PACK: Size 3/8

Interval 20-240 & 250-410

TEST DATA

Date Tested December 14, 1977

Static Water Level Prior to Test 330 ft.

Type of Test Pump Bailer

Length of Test 2 hrs.

Sustained Yield (Metered) 12 GPM

Final Pumping Water Level 390 ft.

WELL LOG

From	To	Type and Color of Material	Water Loc.
0	330	sand & clay	X
330	340	gravel	
340	370	sand & clay	
370	380	gravel	
380	410	clay	
TOTAL DEPTH <u>410 ft.</u>			

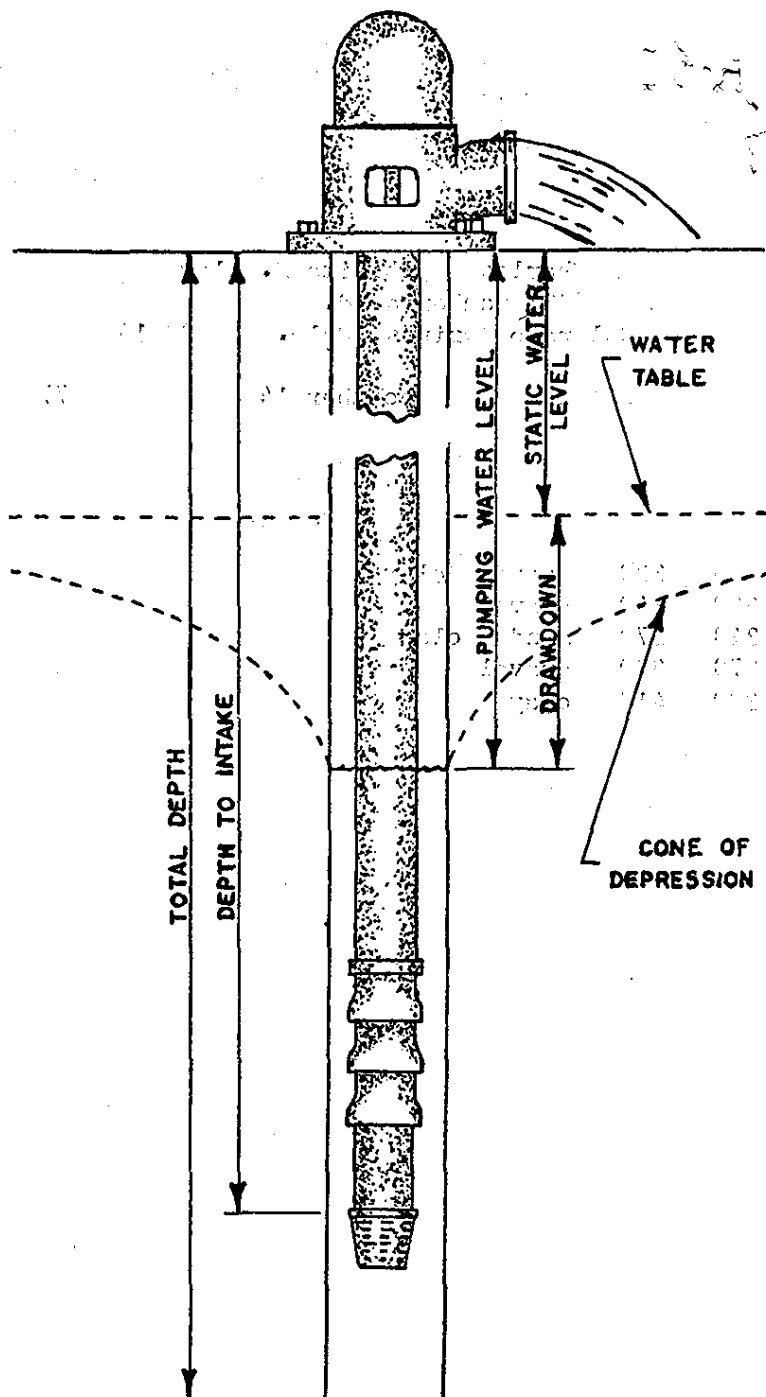
Use additional pages necessary to complete log.

PUMP INSTALLATION REPORT

Pump Make Sta-Rite
 Type submersible
 Powered by electricity HP 1½
 Pump Serial No. 8P4
 Motor Serial No. R02S
 Date Installed April 2, 1978
 Pump Intake Depth 396 ft.
 Remarks _____

WELL TEST DATA WITH PERMANENT PUMP

Date Tested April 5, 1978
 Static Water Level Prior to Test 330 ft.
 Length of Test 2 Hours
 Sustained yield (Metered) 12 GPM
 Pumping Water Level 390 ft.
 Remarks _____



CONTRACTORS STATEMENT

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

Signature [Signature] License No. 150

State of Colorado, County of Denver SS

Subscribed and sworn to before me this 15th day of Sept, 1978.

My Commission expires: April 3, 1982

Notary Public [Signature]

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

COLORADO DIVISION OF WATER RESOURCES
818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203

PERMIT APPLICATION FORM**RECEIVED****OCT 26 '77**

**WATER RESOURCES
STATE ENGINEER
COLO.**

Application must be complete where applicable. Type or print in **BLACK INK**. No overstrikes or erasures unless initialed.

FOR: ☒ A PERMIT TO USE GROUND WATER
☒ A PERMIT TO CONSTRUCT A WELL
☒ A PERMIT TO INSTALL A PUMP

() REPLACEMENT FOR NO. _____
() OTHER _____
WATER COURT CASE NO. _____

PR

(1) APPLICANT - mailing address

NAME **Charles Clay & Albinia M. Clay**
STREET **5323 Camberia Rd.**
CITY **Colorado Springs, Colo.** 80916
(State) (Zip)
TELEPHONE NO. **597-0162**

(2) LOCATION OF PROPOSED WELL

County **El Paso**
NW 1/4 of the NW 1/4, Section **3**
Twp. **11 S**, Rng. **67 W**, **6th** P.M.
(N.S) (E.W)

(3) WATER USE AND WELL DATA

Proposed maximum pumping rate (gpm) **15**
Average annual amount of ground water to be appropriated (acre-feet): **1**
Number of acres to be irrigated: **none**
Proposed total depth (feet): **400**
Aquifer ground water is to be obtained from:
Dawson

Owner's well designation **only well****GROUND WATER TO BE USED FOR:**

() HOUSEHOLD USE ONLY - no irrigation (0)
☒ DOMESTIC (1) () INDUSTRIAL (5)
() LIVESTOCK (2) () IRRIGATION (6)
() COMMERCIAL (4) () MUNICIPAL (8)

() OTHER (9) _____

DETAIL THE USE ON BACK IN (11)

(4) DRILLER

Name **W.V. Harding & Sons**
Street **1409 Bates Dr.**
City **Colorado Springs, Colo.** 80909
(State) (Zip)
Telephone No. **633-9775** Lic. No. **150**

FOR OFFICE USE ONLY: DO NOT WRITE IN THIS COLUMN

Receipt No. **869101**
Basin _____ Dist. _____

CONDITIONS OF APPROVAL

This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of the permit does not assure the applicant that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.

Install plain (non-perforated) casings from ground surface down to a minimum depth of **250** feet and properly sealed to prevent the pumping or appropriation of tributary waters.

APPROVED FOR DOMESTIC USE, INCLUDING THE IRRIGATION OF NOT OVER ONE ACRE OF HOME GARDENS AND LAWNS.

THE MUNICIPAL OR COUNTY GOVERNMENT SHALL BE CONSULTED WHEN LOCATING THIS WELL, AND THEIR REGULATIONS SHALL BE COMPLIED WITH.

RPH

APPLICATION APPROVED**95392**

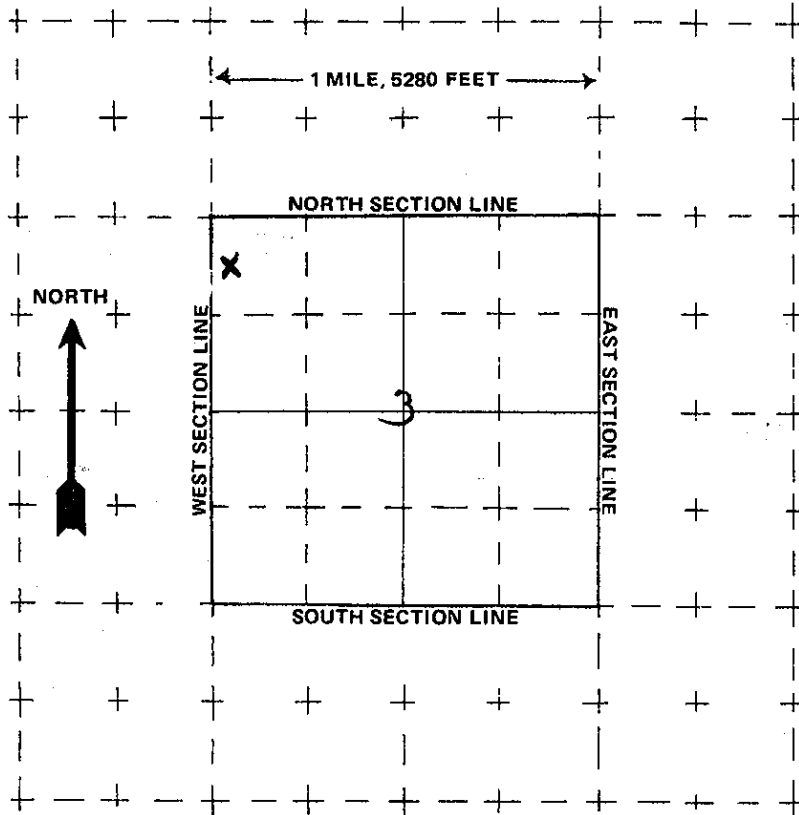
PERMIT NUMBER _____

DATE ISSUED **NOV 28 1977**EXPIRATION DATE **NOV 28 1979**

Bruce E. DeBrine
DEPUTY (STATE ENGINEER)

BY **RPH**I.D. **2-16** 1-08 COUNTY **21**

(5) **THE LOCATION OF THE PROPOSED WELL** and the area on which the water will be used must be indicated on the diagram below. Use the CENTER SECTION (1 section, 640 acres) for the well location.



The scale of the diagram is 2 inches = 1 mile
Each small square represents 40 acres.

WATER EQUIVALENTS TABLE (Rounded Figures)

An acre-foot covers 1 acre of land 1 foot deep
1 cubic foot per second (cfs) . . . 449 gallons per minute (gpm)
A family of 5 will require approximately 1 acre-foot of water per year.
1 acre-foot . . . 43,560 cubic feet . . . 325,900 gallons.
1,000 gpm pumped continuously for one day produces 4.42 acre-feet.

(6) **THE WELL MUST BE LOCATED BELOW** by distances from section lines.

660 ft. from north sec. line
(north or south)
200 ft. from west sec. line
(east or west)

LOT _____ BLOCK _____ FILING # _____

SUBDIVISION _____

(7) **TRACT ON WHICH WELL WILL BE LOCATED** Owner: Charles Clay

No. of acres 45 Will this be the only well on this tract? yes

(8) **PROPOSED CASING PROGRAM**

Plain Casing
5 in. from 0 ft. to 300 ft.
_____ in. from _____ ft. to _____ ft.
Perforated casing
5 in. from 300 ft. to 400 ft.
_____ in. from _____ ft. to _____ ft.

(9) **FOR REPLACEMENT WELLS** give distance and direction from old well and plans for plugging it:

(10) **LAND ON WHICH GROUND WATER WILL BE USED:**

Owner(s): Charles & Albinia M Clay No. of acres: 45

Legal description: NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 3 T 11 S R 67 W 6th PM

(11) **DETAILED DESCRIPTION** of the use of ground water: Household use and domestic wells must indicate type of disposal system to be used.

Water to be used for Domestic purposes

Septic System to be built to County specifications

(12) **OTHER WATER RIGHTS** used on this land, including wells. Give Registration and Water Court Case Numbers.

Type or right	Used for (purpose)	Description of land on which used
<u>none</u>		

(13) **THE APPLICANT(S) STATE(S) THAT THE INFORMATION SET FORTH HEREON IS TRUE TO THE BEST OF HIS KNOWLEDGE.**

Charles F. Clay
SIGNATURE OF APPLICANT(S)



APPENDIX D

WATER QUALITY RESULTS





Analytical Results

TASK NO: 260414009

Report To: Brian Elkins Jr.

Company: RESPEC Company, LLC
5540 Tech Center Drive
Suite 100
Colorado Springs CO 80919

Bill To: Accounts Payable

Company: RESPEC Company, LLC
5540 Tech Center Drive
Suite 100
Colorado Springs CO 80919

Task No.: 260414009
Client PO:
Client Project: Church Well

Date Received: 4/14/26
Date Reported: 5/5/26
Matrix: Water - Drinking

Customer Sample ID Dawson
Sample Date/Time: 4/13/26 9:30 AM
Lab Number: 260414009-01

Test	Result	Method	RL	MCL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	0.8 mg/L	EPA 300.0	0.1 mg/L	250	4/15/26	QC89943	NRP
Fluoride	0.72 mg/L	EPA 300.0	0.10 mg/L	4	4/15/26	QC89944	NRP
Nitrate Nitrogen	0.25 mg/L	EPA 300.0	0.05 mg/L	10	4/15/26	QC89940	NRP
Nitrite Nitrogen	ND mg/L	EPA 300.0	0.03 mg/L	1	4/15/26	QC89941	NRP
Sulfate	1.8 mg/L	EPA 300.0	0.1 mg/L	250	4/15/26	QC89946	NRP
Cyanide-Total	ND mg/L	EPA 335.4	0.005 mg/L		4/23/26	QC90097	ACE
Total							
Iron	ND mg/L	EPA 200.7	0.005 mg/L	0.3	4/16/26	QC89865	SMA
Total							
Aluminum	0.004 mg/L	EPA 200.8	0.001 mg/L	0.05	4/16/26	QC89891	AMJ
Antimony	ND mg/L	EPA 200.8	0.0012 mg/L	0.006	4/16/26	QC89891	AMJ
Arsenic	ND mg/L	EPA 200.8	0.0006 mg/L	0.01	4/16/26	QC89891	AMJ
Barium	0.0414 mg/L	EPA 200.8	0.0007 mg/L	2	4/16/26	QC89891	AMJ
Beryllium	ND mg/L	EPA 200.8	0.0001 mg/L	0.004	4/16/26	QC89891	AMJ
Cadmium	ND mg/L	EPA 200.8	0.0001 mg/L	0.005	4/16/26	QC89891	AMJ
Chromium	ND mg/L	EPA 200.8	0.0015 mg/L	0.1	4/16/26	QC89891	AMJ
Manganese	ND mg/L	EPA 200.8	0.0008 mg/L	0.05	4/16/26	QC89891	AMJ
Mercury	ND mg/L	EPA 200.8	0.0001 mg/L	0.002	4/16/26	QC89891	AMJ
Selenium	0.0011 mg/L	EPA 200.8	0.0008 mg/L	0.05	4/16/26	QC89891	AMJ
Silver	ND mg/L	EPA 200.8	0.0005 mg/L	0.1	4/16/26	QC89891	AMJ
Thallium	ND mg/L	EPA 200.8	0.0002 mg/L	0.002	4/16/26	QC89891	AMJ
Zinc	0.003 mg/L	EPA 200.8	0.001 mg/L	5	4/16/26	QC89891	AMJ

Abbreviations/ References:

RL = Reporting Limit = Minimum Level
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed

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

MCL = Maximum contaminant level per the EPA
ND = Not Detected at Reporting Limit.

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260414009
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N



Analytical Results

TASK NO: 260414009

Report To: Brian Elkins Jr.

Company: RESPEC Company, LLC
5540 Tech Center Drive
Suite 100
Colorado Springs CO 80919

Bill To: Accounts Payable

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Customer Sample ID Dawson
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Test	Result	Method	RL	MCL	Date Analyzed	QC Batch ID	Analyzed By
------	--------	--------	----	-----	---------------	-------------	-------------

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Analytical QC Summary

TASK NO: 260414009

Report To: Brian Elkins Jr.
Company: RESPEC Company, LLC

Receive Date: 4/14/26
Project Name: Church Well

Test	QC Batch ID	QC Type	Result	Method	Prep Date
Chloride	QC89943	Blank	ND	EPA 300.0	4/14/26
Cyanide-Total	QC90097	Blank	ND	EPA 335.4	4/23/26
Fluoride	QC89944	Blank	ND	EPA 300.0	4/14/26
Aluminum	QC89891	Method Blank	ND	EPA 200.8	4/14/26
Antimony	QC89891	Method Blank	ND	EPA 200.8	4/14/26
Arsenic	QC89891	Method Blank	ND	EPA 200.8	4/14/26
Barium	QC89891	Method Blank	ND	EPA 200.8	4/14/26
Beryllium	QC89891	Method Blank	ND	EPA 200.8	4/14/26
Cadmium	QC89891	Method Blank	ND	EPA 200.8	4/14/26
Chromium	QC89891	Method Blank	ND	EPA 200.8	4/14/26
Manganese	QC89891	Method Blank	ND	EPA 200.8	4/14/26
Mercury	QC89891	Method Blank	ND	EPA 200.8	4/14/26
Selenium	QC89891	Method Blank	ND	EPA 200.8	4/14/26
Silver	QC89891	Method Blank	ND	EPA 200.8	4/14/26
Thallium	QC89891	Method Blank	ND	EPA 200.8	4/14/26
Zinc	QC89891	Method Blank	ND	EPA 200.8	4/14/26
Iron	QC89865	Method Blank	ND	EPA 200.7	4/14/26
Nitrate Nitrogen	QC89940	Blank	ND	EPA 300.0	4/14/26
Nitrite Nitrogen	QC89941	Blank	ND	EPA 300.0	4/14/26
Sulfate	QC89946	Blank	ND	EPA 300.0	4/14/26

Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Chloride	QC89943	Duplicate -260414038-05	0 - 20	-	1.3	EPA 300.0
		LCS	90 - 110	98.2	-	
		MS -260414038-05	80 - 120	93.7	-	
Cyanide-Total	QC90097	Duplicate -260415198-02	0 - 20	-	0.0	EPA 335.4
		LCS	90 - 110	97.4	-	
		MS -260417050-01A	90 - 110	96.2	-	
Fluoride	QC89944	Duplicate -260414038-05	0 - 20	-	1.6	EPA 300.0
		LCS	90 - 110	106.0	-	
		MS -260414038-05	80 - 120	110.1	-	
Aluminum	QC89891	LCS	90 - 110	100.0	-	EPA 200.8
		MS -260414001-02C	70 - 130	117.7	-	
		MSD -260414001-02C	0 - 10	-	0.6	
Antimony	QC89891	LCS	90 - 110	103.2	-	EPA 200.8
		MS -260414001-02C	70 - 130	111.1	-	
		MSD -260414001-02C	0 - 10	-	3.4	
Arsenic	QC89891	LCS	90 - 110	103.6	-	EPA 200.8
		MS -260414001-02C	70 - 130	109.0	-	
		MSD -260414001-02C	0 - 10	-	4.9	

Abbreviations/ References:

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Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Barium	QC89891	LCS	90 - 110	108.3	-	EPA 200.8
		MS -260414001-02C	70 - 130	106.9	-	
		MSD -260414001-02C	0 - 10	-	3.4	
Beryllium	QC89891	LCS	90 - 110	101.6	-	EPA 200.8
		MS -260414001-02C	70 - 130	112.2	-	
		MSD -260414001-02C	0 - 10	-	1.5	
Cadmium	QC89891	LCS	90 - 110	99.3	-	EPA 200.8
		MS -260414001-02C	70 - 130	103.8	-	
		MSD -260414001-02C	0 - 10	-	2.0	
Chromium	QC89891	LCS	90 - 110	106.9	-	EPA 200.8
		MS -260414001-02C	70 - 130	107.1	-	
		MSD -260414001-02C	0 - 10	-	1.3	
Manganese	QC89891	LCS	90 - 110	108.5	-	EPA 200.8
		MS -260414001-02C	70 - 130	106.9	-	
		MSD -260414001-02C	0 - 10	-	1.8	
Mercury	QC89891	LCS	90 - 110	104.4	-	EPA 200.8
		MS -260414001-02C	70 - 130	89.7	-	
		MSD -260414001-02C	0 - 10	-	2.1	
Selenium	QC89891	LCS	90 - 110	107.1	-	EPA 200.8
		MS -260414001-02C	70 - 130	104.9	-	
		MSD -260414001-02C	0 - 10	-	4.7	
Silver	QC89891	LCS	90 - 110	99.5	-	EPA 200.8
		MS -260414001-02C	70 - 130	96.9	-	
		MSD -260414001-02C	0 - 10	-	0.3	
Thallium	QC89891	LCS	90 - 110	106.5	-	EPA 200.8
		MS -260414001-02C	70 - 130	103.5	-	
		MSD -260414001-02C	0 - 10	-	0.4	
Zinc	QC89891	LCS	90 - 110	108.4	-	EPA 200.8
		MS -260414001-02C	70 - 130	103.5	-	
		MSD -260414001-02C	0 - 10	-	1.9	
Iron	QC89865	Duplicate -260414020-01	0 - 20	-	0.0	EPA 200.7
		LCS	90 - 110	105.4	-	
		MS -260414009-01B	75 - 125	112.7	-	
Nitrate Nitrogen	QC89940	Duplicate -260414001-02	0 - 20	-	1.7	EPA 300.0
		LCS	90 - 110	90.2	-	
		MS -260414001-02A	80 - 120	107.1	-	
Nitrite Nitrogen	QC89941	Duplicate -260414001-02	0 - 20	-	0.0	EPA 300.0
		LCS	90 - 110	91.4	-	
		MS -260414001-02A	80 - 120	83.4	-	
Sulfate	QC89946	Duplicate -260414038-05	0 - 20	-	1.2	EPA 300.0
		LCS	90 - 110	97.5	-	
		MS -260414038-05	80 - 120	91.4	-	

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

Abbreviations/ References:

RL = Reporting Limit = Minimum Level
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpr/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed

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Lauren Hevert
Laboratory Director

Abbreviations/ References:

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ND = Not Detected at Reporting Limit.



Analytical Results

TASK NO: 260414009

Report To: Brian Elkins Jr.

Company: RESPEC Company, LLC

5540 Tech Center Drive

Suite 100

Colorado Springs CO 80919

Bill To: Accounts Payable

Company: RESPEC Company, LLC

5540 Tech Center Drive

Suite 100

Colorado Springs CO 80919

Task No.: 260414009
Client PO:
Client Project: Church Well

Date Received: 4/14/26

Date Reported: 5/5/26

Matrix: Water - Drinking

Customer Sample ID Dawson

Sample Date/Time: 4/13/26 9:30 AM

Lab Number: 260414009-01

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	24.2 mg/L as CaCO ₃	SM 2320-B	4.0 mg/L as CaCO ₃	4/16/26	-	JDM
Calcium as CaCO ₃	18.4 mg/L	EPA 200.7	0.1 mg/L	4/16/26	-	SMA
Carbonate	ND mg/L as CaCO ₃	SM 2320-B	4.0 mg/L as CaCO ₃	4/16/26	-	JDM
Hydroxide	ND mg/L as CaCO ₃	SM 2320-B	4.0 mg/L as CaCO ₃	4/16/26	-	JDM
Langelier Index	-2.47 units	SM 2330-B	units	4/22/26	-	MBN
pH	6.76 units	SM 4500-H-B	0.01 units	4/13/26	-	Sampler
Temperature	11 °C	SM 4500-H-B	1 °C	4/13/26	-	Sampler
Total Alkalinity	24.2 mg/L as CaCO ₃	SM 2320-B	4.0 mg/L as CaCO ₃	4/16/26	QC89922	JDM
Total Dissolved Solids	47 mg/L	SM 2540-C	5 mg/L	4/15/26	QC89821	KJA

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

Date Analyzed = Date Test Completed

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

(s) Spike amount low relative to the sample amount.

ND = Not Detected at Reporting Limit.

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260414009

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Analytical QC Summary

TASK NO: 260414009

Report To: Brian Elkins Jr.
Company: RESPEC Company, LLC

Receive Date: 4/14/26
Project Name: Church Well

Test	QC Batch ID	QC Type	Result	Method	Prep Date
Total Alkalinity	QC89922	Blank	ND	SM 2320-B	4/17/26
Total Dissolved Solids	QC89821	Blank	ND	SM 2540-C	4/14/26

Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Total Alkalinity	QC89922	Duplicate -260414142-01	0 - 20	-	5.1	SM 2320-B
		LCS	90 - 110	103.7	-	
		LCS-2	90 - 110	109.7	-	
Total Dissolved Solids	QC89821	Duplicate -260413104-02	0 - 10	-	3.8	SM 2540-C
		LCS	85 - 115	93.4	-	

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

Lauren Hevert
Laboratory Director

Abbreviations/ References:

RL = Reporting Limit = Minimum Level
mg/L = Milligrams Per Liter or PPM
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Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.
(s) Spike amount low relative to the sample amount.
ND = Not Detected at Reporting Limit.

Chain of Custody Form



Commerce City Lab
10411 Heinz Way
Commerce City CO 80640

Lakewood Service Center
610 Garrison Street, Unit E
Lakewood CO 80215

Phone: 303-659-2313

www.coloradolab.com

Report To Information		Bill To Information (If different from report to)		Project Name / Number	
Company Name: <u>RESPEC</u>		Company Name: <u>RESPEC</u>		<u>Church Well</u>	
Contact Name: <u>BJ Elkins</u>		Contact Name: <u>Tisha Moffett</u>		<u>*</u>	
Address: <u>5540 Tech Center Dr. Suite 100</u>		Address: <u>5540 Tech Center Dr. Suite 100</u>		Task Number (Lab Use Only)	
City <u>Colorado Springs</u> State <u>CO</u> Zip <u>80919</u>		City <u>Colorado Springs</u> State <u>CO</u> Zip <u>80919</u>		CAL Task 260414009 SLM	
Phone: <u>719-283-7674</u>		Phone: <u>719-227-0072</u>			
Email: <u>BJ.Elkins@respec.com</u>		Email: <u>tisha.moffett@respec.com</u>			
Sample Collector: <u>Davis Schwarz</u>		PO No.:			
Sample Collector Phone: <u>907-242-3342</u>					

Sample Matrix (Select One Only)			No. of Containers	Grab or (Check One Only) Composite	Tests Requested																		
Water ☐ (CWA / NPDES) Includes wastewater, non-potable samples <u>not</u> intended for drinking water use.					Drinking Water ☒ (SDWA) Includes finished drinking water, raw (untreated) water samples intended for human consumption.			Solid (Sludge) ☐ (503 Regs / RCRA / SW-846)			Total Coliform P/A	Inorganics *	Aluminum	Chloride	Conductivity	Iron	Manganese	Silver	Sulfate	Zinc	TDS	Gross Alpha/Beta	Radium 226/228
Date	Time	Sample ID																					
04/13	9:30	DAWSON	10	X					X	X	X	X	X	X	X	X	X	X	X	X	X		
PH: 6.76 Temp: 11.2°C *extra 250ml unpreserved provided, not needed - SM4112 *Per Brian - please test for everything on attached WORD document. Linorganics per attachment - SM4112																							
Instructions: *non-compliance per no PWSID being provided - SM4112			C/S Info: Deliver Via: <u>VPS</u>			Seals Present Yes ☐ No ☐			Temp. 0.8°C/Ice <u>Y</u> Sample Pres. Yes ☒ No ☐														
Relinquished By:	Date/Time:	Received By:	Date/Time:	Relinquished By:	Date/Time:	Received By:	Date/Time:																
<u>[Signature]</u>	4/13/26							-HS 4/14/26 0926															



Analytical Results

TASK NO: 260414009

Report To: Brian Elkins Jr.

Company: RESPEC Company, LLC
5540 Tech Center Drive
Suite 100
Colorado Springs CO 80919

Bill To: Accounts Payable

Company: RESPEC Company, LLC
5540 Tech Center Drive
Suite 100
Colorado Springs CO 80919

Task No.: 260414009
Client PO:
Client Project: Church Well

Date Received: 4/14/26
Date Reported: 5/5/26
Matrix: Water - Drinking

Lab Number	Customer Sample ID	Sample Date/Time	Test	Result	Method	Date Analyzed
260414009-01C	Dawson	4/13/26 9:30 AM	Total Coliform	Absent	SM 9223	4/15/26
			E-Coli	Absent	SM 9223	4/15/26

Abbreviations/ References:

Absent = Coliform Not Detected

Present = Coliform Detected - Chlorination Recommended

Date Analyzed = Date Test Completed

SM = "Standard Methods for the Examination of Water and Wastewater"; APHA; 19th Edition; 1995

Lauren Hevert
Laboratory Director

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260414009

Chain of Custody Form



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Commerce City CO 80640

Lakewood Service Center
610 Garrison Street, Unit E
Lakewood CO 80215

Phone: 303-659-2313

www.coloradolab.com

Report To Information		Bill To Information (If different from report to)		Project Name / Number	
Company Name: <u>RESPEC</u>		Company Name: <u>RESPEC</u>		<u>Church Well</u>	
Contact Name: <u>BJ Elkins</u>		Contact Name: <u>Tisha Moffett</u>		<u>*</u>	
Address: <u>5540 Tech Center Dr. Suite 100</u>		Address: <u>5540 Tech Center Dr. Suite 100</u>		Task Number (Lab Use Only)	
City <u>Colorado Springs</u> State <u>CO</u> Zip <u>80919</u>		City <u>Colorado Springs</u> State <u>CO</u> Zip <u>80919</u>		CAL Task	
Phone: <u>719-283-7674</u>		Phone: <u>719-227-0072</u>		260414009	
Email: <u>BJ.Elkins@respec.com</u>		Email: <u>tisha.moffett@respec.com</u>		SLM	
Sample Collector: <u>Davis Schwarz</u>		PO No.:			
Sample Collector Phone: <u>907-242-3342</u>					

Sample Matrix (Select One Only)			No. of Containers	Grab or (Check One Only) Composite	Tests Requested																					
Water ☐ (CWA / NPDES) Includes wastewater, non-potable samples <u>not</u> intended for drinking water use.					Drinking Water ☒ (SDWA) Includes finished drinking water, raw (untreated) water samples intended for human consumption.			Solid (Sludge) ☐ (503 Regs / RCRA / SW-846)			Total Coliform P/A	Inorganics *	Aluminum	Chloride	Conductivity	Iron	Manganese	Silver	Sulfate	Zinc	TDS	Gross Alpha/Beta	Radium 226/228			
Date	Time	Sample ID																								
04/13	9:30	DAWSON	10	X																						
		PH: 6.76																								
		Temp: 11.2°C																								
		*extra 250ml unpreserved provided, not needed - SM4112																								
		*Per Brian - please test for everything on attached WORD document.																								
		Linorganics per attachment - SM4112																								
Instructions: *non-compliance per no PWSID being provided - SM4112			C/S Info:			Seals Present Yes ☐ No ☐																				
Relinquished By: <u>[Signature]</u>			Date/Time: <u>4/13/26</u>			Received By: <u>[Signature]</u>			Date/Time: <u>4/14/26</u>			C/S Charge ☒			Temp. <u>11.2</u> °C/Ice <u>Y</u>			Sample Pres. Yes ☒ No ☐			Received By: <u>HS 4/14/26</u>			Date/Time: <u>0926</u>		

EPC Confined Aquifer Sampling Requirements

CAL Task

260414009

SLM

Field Measurements

pH

Temp

Radionuclides

Radium 226 and Radium 228

Gross alpha/Beta

Inorganics

Antimony

Arsenic

Barium

Beryllium

Cadmium

Chromium

Cyanide (Total)

Fluoride

Mercury

Nitrate

Nitrite

Selenium

Thallium

Secondary MCLs

Aluminum

Chloride

Corrosivity

Iron

Manganese

Silver

Sulfate

Zinc

TDS

Bacteriological:

Total Coliform



Hazen Research, Inc.
4601 Indiana Street
Golden, CO 80403 USA
Tel: (303) 279-4501
Fax: (303) 278-1528

Customer ID: 05377Z
Account ID: Z01034

Lab Control ID: 26H01842
Received: Apr 15, 2026
Reported: May 01, 2026
Purchase Order No.
None Received

Rebecca Bertke
Colorado Analytical Laboratories, Inc.
10411 Heinz Way
Commerce City, CO 80640

ANALYTICAL REPORT

*Report may only be copied in its entirety.
Results reported herein relate only to discrete samples
submitted by the client. Hazen Research, Inc. does not warrant
that the results are representative of anything other than the
samples that were received in the laboratory*

Reviewed and approved by:


Haley Jones
Analytical QA Manager

Customer ID: 05377Z
 Account ID: Z01034

ANALYTICAL REPORT

Rebecca Bertke
 Colorado Analytical Laboratories, Inc.

Lab Sample ID			26H01842-001					
Customer Sample ID			260414009-01D - Church Well - Dawson sampled on 04/13/26 @ 0930					
Parameter	Units	Code	Result	Precision* +/-	Detection Limit	Method	Analysis Date / Time	Analyst
Gross Alpha	pCi/L	T	3.5	1.8	1.2	SM 7110 B	04/28/26 @ 0843	JR
Gross Beta	pCi/L	T	5.2	2.5	1.7	SM 7110 B	04/28/26 @ 0843	JR

Lab Sample ID			26H01842-002					
Customer Sample ID			260414009-01E - Church Well - Dawson sampled on 04/13/26 @ 0930					
Parameter	Units	Code	Result	Precision* +/-	Detection Limit	Method	Analysis Date / Time	Analyst
Radium-226	pCi/L	T	0.8	0.3	0.2	SM 7500-Ra B	04/20/26 @ 1051	KT
Radium-228	pCi/L	T	1.7	0.7	0.2	EPA pg.19	04/21/26 @ 1523	AT

Certification ID's: CO/EPA CO00008

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.

Codes: (T) = Total (D) = Dissolved (S) = Suspended (R) = Replicate Sample (AR) = As Received < = Less Than

HAZEN RESEARCH, INC.
RADIOCHEMISTRY LABORATORY

Date: 04/28/2026

Batch QC Summary Form

Analyte: Gross Alpha

Control Standard/LFB: ID: C11-009 pCi/mL: 57.4 (use 1 diluted)

Spike Solution: ID: C11-009 pCi/mL: 57.4 (use 1 mL)

Spike Recovery Calculation: Sample: 26H01869-1a

Calculation:
$$\frac{(253.7) - (0.200) - (0.7) - (0.200)}{57.4} \times 100 = 88.2\%$$

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 30 %	x		
Spike Recovery	70 - 130 %	x		
Blank	< or = 3 x Uncertainty	x		
Duplicate 1	95% confidence interval overlap	x		
Duplicate 2 *	95% confidence interval overlap	x		

* Required for batch size greater than 10 samples.

Conclusions:

 x Batch QC Passes**
 Batch QC Fails
 Batch QC Passes, with exceptions**:

Reruns Required: _____

Narrative:

**All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluated in this report.

Batch Listing by Lab Control Number:

26H01832	26H01883
26H01839	26H01884
26H01842	26H01885
26H01854	26H01893
26H01855	_____
26H01857	_____
26H01859	_____
26H01866	_____
26H01869	_____
26H01874	_____

Evaluator:

 _____

05/01/2026

Date

HAZEN RESEARCH, INC.
RADIOCHEMISTRY LABORATORY

Date: 04/28/2026

Batch QC Summary Form

Analyte: Gross Beta

Control Standard/LFB: ID: C11-009 pCi/mL: 44 (use 1 diluted)

Spike Solution: ID: C11-009 pCi/mL: 44 (use 1 mL)

Spike Recovery Calculation: Sample: 26H01869-1a

$$\text{Calculation: } \frac{(200.5) - (0.200) - (0.9) - (0.200)}{44} \times 100 = 90.7\%$$

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 30 %	x		
Spike Recovery	70 - 130 %	x		
Blank	< or = 3 x Uncertainty	x		
Duplicate 1	95% confidence interval overlap	x		
Duplicate 2 *	95% confidence interval overlap	x		

* Required for batch size greater than 10 samples.

Conclusions:

 x Batch QC Passes**
 Batch QC Fails
 Batch QC Passes, with exceptions**:

Reruns Required: _____

Narrative:

**All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluated in this report.

Batch Listing by Lab Control Number:

26H01832	26H01883
26H01839	26H01884
26H01842	26H01885
26H01854	26H01893
26H01855	_____
26H01857	_____
26H01859	_____
26H01866	_____
26H01869	_____
26H01874	_____

Evaluator:

 _____

05/01/2026

Date

HAZEN RESEARCH, INC.
RADIOCHEMISTRY LABORATORY

Date: 04/20/2026

Batch QC Summary Form

Analyte: Radium-226

Control Standard/LFB: ID: C73-14 pCi/mL: 5.28 (use 2 diluted)

Spike Solution: ID: C73-14 pCi/mL: 5.28 (use 2 mL)

Spike Recovery Calculation: Sample: 26H01839-02d

Calculation:
$$\frac{(15.0) - (1.000) - (4.0) - (1.000)}{10.56} \times 100 = 104\%$$

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 20 %	x		
Spike Recovery	80 - 120 %	x		
Blank	< or = 3 x Uncertainty	x		
Duplicate 1	95% confidence interval overlap	x		
Duplicate 2 *	95% confidence interval overlap			x

* Required for batch size greater than 10 samples.

Conclusions:

 x Batch QC Passes**
 Batch QC Fails
 Batch QC Passes, with exceptions**:

Reruns Required: _____

Narrative:

**All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluated in this report.

Batch Listing by Lab Control Number:

26H01837	_____
26H01838	_____
26H01839	_____
26H01840	_____
26H01841	_____
26H01842	_____
26H01843	_____
_____	_____
_____	_____
_____	_____

Evaluator:

 _____

04/24/2026

Date

HAZEN RESEARCH, INC.
RADIOCHEMISTRY LABORATORY

Date: 04/21/2026

Batch QC Summary Form

Analyte: Radium-228

Control Standard/LFB: ID: C6-012 pCi/mL: 14.3 (use 5 diluted)

Spike Solution: ID: C6-012 pCi/mL: 14.3 (use 5 mL)

Spike Recovery Calculation: Sample: 26H01844-1d

Calculation: $\frac{(72.2) - (1.000)}{71.5} \times 100 = 96\%$

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 20 %	x		
Spike Recovery	80 - 120 %	x		
Blank	< or = 3 x Uncertainty	x		
Duplicate 1	95% confidence interval overlap	x		
Duplicate 2 *	95% confidence interval overlap			x

* Required for batch size greater than 10 samples.

Conclusions:

 x Batch QC Passes**
 Batch QC Fails
 Batch QC Passes, with exceptions**:

Reruns Required: _____

Narrative:

**All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluated in this report.

Batch Listing by Lab Control Number:

26H01838	_____
26H01839	_____
26H01840	_____
26H01841	_____
26H01842	_____
26H01843	_____
26H01844	_____
_____	_____
_____	_____
_____	_____

Evaluator:

 _____

04/28/2026

Date



26H 01842

Ship To: Hazen Research

Preserved: Y / N

HNO3 Lot #: N/A

Date Preserved: _____

page 7 of 7

Report To Information Company Name <u>Colorado Analytical Laboratory</u> Report To: <u>Rebecca Bertke</u> E-Mail: <u>rebeccabertke@coloradolab.com</u>	Bill To Information: (If different from report to)	Project Name <u>Church Well</u>
Address: <u>10411 Heinz Way</u> <u>Commerce City, CO 80640</u> Phone: <u>303-659-2313</u>	Address: CAL TASK 260414009 SLM	Compliance Samples: Yes ☐ No ☒ Submit Data to CDPHE: Yes ☐ No ☒

Tests Requested

Sample Date/Time		Sample ID	Matrix	Radium 226 (Sub)	Gross Alpha/Beta (Sub)	Radium 228 (Sub)											Container Type
4/13/26	9:30 AM	260414009-01D - Dawson	Water - Drinking		X												1L - Unpreserved
4/13/26	9:30 AM	260414009-01E - Dawson	Water - Drinking	X	X												4 - 1L - Unpreserved

Comment:

Radon Checked Date: _____ Time: _____
 Air Bubbles? NO YES X1 YES X2
 Headspace? NO YES X1 YES X2
 Initial _____ Date: _____
 pH Check and Preservation Acid Lot # A25
 Initial pH check date: 04/15/26 Time: 14:50
 2nd pH check date: 4/16/26 Time: 11:00
 Final pH 2 Preserved by: DE

Relinquished by: (Signature) <u>Adams</u>	Date: <u>4/15/26</u> Time: <u>9:00</u>	Received by: (Signature) <u>[Signature]</u>	Date: <u>04/15/26</u> Time: <u>14:20</u>	Relinquished by: (Signature)	Date: _____ Time: _____	Received by: (Signature)	Date: _____ Time: _____
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