



Drexel, Barrell & Co.

WATER RESOURCES REPORT

For

Engineers/Surveyors

LOT 1, SPACE VILLAGE SUBDIVISION FILING NO. 1

**Boulder
Colorado Springs
Greeley**

September 2020

3 S 7th Street
Colorado Springs, CO 80905

719 260-0887
719 260-8352 Fax

Prepared For:

Elite Property Group, LLC
6400 Montview Blvd.
Denver, CO 80207
Contact: Scott Berkman
(720) 458-8411

Prepared by:

Drexel, Barrell & Co.
3 S. 7th Street
Colorado Springs, CO 80905
Contact: Tim McConnell, P.E.
(719) 260-0887

*Project Number: 21268-00CSCV
(H:\21268-00CSCV\Reports\Utilities)*



WATER RESOURCES REPORT for SPACE VILLAGE SUBDIVISION

I. SUMMARY FO THE PROPOSED SUBDIVISION

Lot 1, Space Village Subdivision Filing No. 1 is a 0.63 acre site located in Section 17, Township 14 South, Range 65 West of the 6th Principal Meridian in the County of El Paso, State of Colorado. The site is located on the south side of Space Village Ave., just east of Peterson Rd.

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The site contains an existing 2 story motel with associated parking and landscaping. The proposed improvement includes converting the building into an apartment building. The site is within the Cherokee Metropolitan District Service area. Cherokee Metropolitan District understands the renovation will not change the water supply from that of previous use, as such a new commitment is not being made. See appendix for recommitment letter.

The total area of earth disturbance associated with the proposed project is negligible as there are minimal proposed improvements to include approx. 120' of sidewalk on Space Village Ave.

II. DETERMINATION OF SUFFICIENT QUANTITY OF WATER

A. Calculation of Water Demand

Cherokee Metropolitan District has determined that the highest water use in the last five years was 2.3 Ac-Ft/yr and they commit to continuing to provide that amount to this building.

Domestic: **2.3 AC-FT/YR**

Irrigation: **0.0 AC-FT/YR**

B. Calculation of Water Available

1. Space Village Subdivision is to continue to be served by the Cherokee Metropolitan District water system. A Letter of Recommitment from Cherokee Metropolitan District to serve the development is attached.
2. A site plan showing the existing water system is attached.
3. Per the Cherokee Letter of Recommitment, water available has been confirmed by Cherokee to service this project.
4. There are no groundwater sources on this site proposed to be utilized by this development.

III. DETERMINATION OF SUFFICIENT DEPENDABILITY OF WATER SUPPLY

- A. Water rights – The Cherokee Metropolitan District will provide treatment and delivery of the water to site (see attached Letter of Recommitment).
- B. Water delivery will continue to be provided by the Cherokee Metropolitan District.
- C. There are no wells proposed on this site.

IV. DETERMINATION OF SUFFICIENT QUALITY AND POTABILITY OF WATER

Water delivery will continue to be provided by the Cherokee Metropolitan District. Drexel, Barrell & Co. understands that quality and potability of the Cherokee Metropolitan District water supply is already approved. Please also see attached the "CHEROKEE MD 2020 Drinking Water Quality Report".

PREPARED BY:

DREXEL, BARRELL & Co.

3 S. 7th Street

Colorado Springs, CO 80905

Contact: Tim McConnell, P.E.

(719) 260-0887



CHEROKEE METROPOLITAN DISTRICT

6250 Palmer Park Blvd., Colorado Springs, CO 80915-2842

Telephone: (719) 597-5080 Fax: (719) 597-5145

February 3rd, 2020

Bridle Dale LLC

Attn: Jonathan Hoehn

6895 Space Village Avenue

Colorado Springs, CO 80915

Sent via email: bridledale11@yahoo.com

Original to follow by US Mail

Re: Water and Sewer Service to **6895 Space Village Avenue**
Recommitment Letter #01

Dear Jonathan Hoehn,

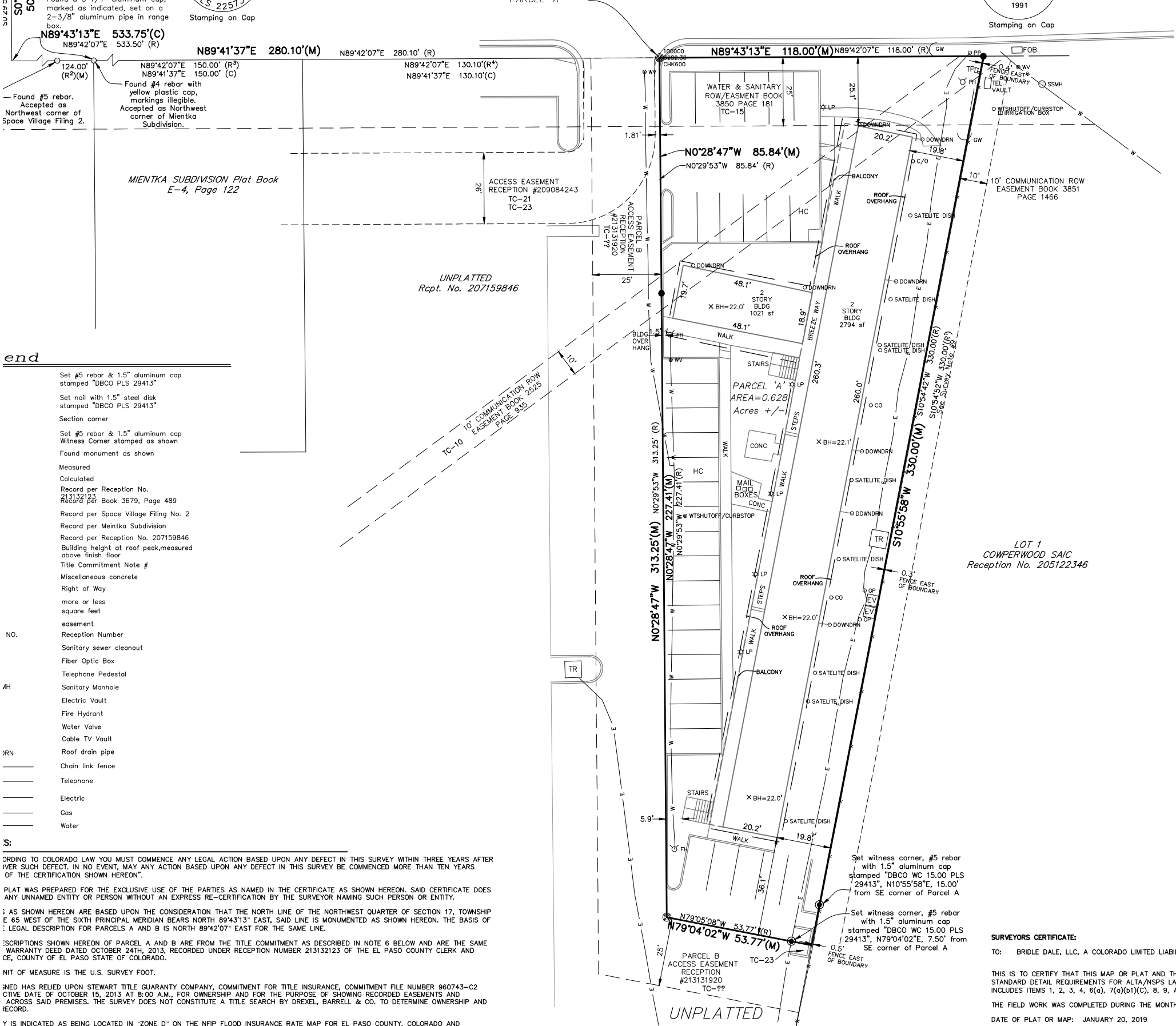
As requested, this document will serve as a formal Letter of Recommitment from the Cherokee Metropolitan District to provide municipal water and sewer services for located at 6895 Space Village Avenue. The proposed location for this development is located within the District's established boundaries and has received District water and sewer service since 1985. The building is being renovated and the district understands this will not change water demand over previous use. As such, a new commitment of water and wastewater not being made.

Cherokee Metropolitan District staff, along with the developer, have determined that 2.3 AF/yr, the highest water use in the preceding five years, will be sufficient for this development. There is no irrigation planned on the property.

Type of Use	Demand (AF/yr)
Domestic	2.3
Irrigation	0
Total	2.3

This water commitment is hereby made exclusively for this specific development project at this site within the District. To confirm this commitment you must provide the District with a copy of final approval from El Paso County within 12 months of the date of this letter. If the plans are altered from what has been provided to the District, you must submit a new commitment request prior to submitting the plans to El Paso County, which may result in a recalculation of the water demand for the project.

If I may be of further assistance please contact me at your convenience.



	Set #5 rebar & 1.5" aluminum cap stamped "DBCO PLS 29413"
	Set nail with 1.5" steel disk stamped "DBCO PLS 29413"
	Section corner
	Set #5 rebar & 1.5" aluminum cap Witness Corner stamped as shown
	Found monument as shown
	Measured
	Calculated
	Record per Reception No. 213132123
	Record per Book 3679, Page 489
	Record per Space Village Filing No. 2
	Record per Mientka Subdivision
	Record per Reception No. 207159846
	Building height at roof peak, measured above finish floor
	Title Commitment Note #
	Miscellaneous concrete
	Right of Way
	more or less square feet
	easement
NO.	Reception Number
	Sanitary sewer cleanout
	Fiber Optic Box
	Telephone Pedestal
4H	Sanitary Manhole
	Electric Vault
	Fire Hydrant
	Water Valve
	Cable TV Vault
3RN	Roof drain pipe
	Chain link fence
	Telephone
	Electric
	Gas
	Water

NOTES:

ORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER IVER SUCH DEFECT. IN NO EVENT, MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS OF THE CERTIFICATION SHOWN HEREON".

PLAT WAS PREPARED FOR THE EXCLUSIVE USE OF THE PARTIES AS NAMED IN THE CERTIFICATE AS SHOWN HEREON. SAID CERTIFICATE DOES ANY UNNAMED ENTITY OR PERSON WITHOUT AN EXPRESS RE-CERTIFICATION BY THE SURVEYOR NAMING SUCH PERSON OR ENTITY.

AS SHOWN HEREON ARE BASED UPON THE CONSIDERATION THAT THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 17, TOWNSHIP E 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN BEARS NORTH 89°43'13" EAST, SAID LINE IS MONUMENTED AS SHOWN HEREON. THE BASIS OF LEGAL DESCRIPTION FOR PARCELS A AND B IS NORTH 89°42'07" EAST FOR THE SAME LINE.

SCRIPTIONS SHOWN HEREON OF PARCEL A AND B ARE FROM THE TITLE COMMITMENT AS DESCRIBED IN NOTE 6 BELOW AND ARE THE SAME WARRANTY DEED DATED OCTOBER 24TH, 2013, RECORDED UNDER RECEPTION NUMBER 213132123 OF THE EL PASO COUNTY CLERK AND CE, COUNTY OF EL PASO STATE OF COLORADO.

NIT OF MEASURE IS THE U.S. SURVEY FOOT.

AND HAS RELIED UPON STEWART TITLE GUARANTY COMPANY, COMMITMENT FOR TITLE INSURANCE, COMMITMENT FILE NUMBER 960743-C2 CTIVE DATE OF OCTOBER 15, 2013 AT 8:00 A.M., FOR OWNERSHIP AND FOR THE PURPOSE OF SHOWING RECORDED EASEMENTS AND ACROSS SAID PREMISES. THE SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY DREXEL, BARRELL & CO. TO DETERMINE OWNERSHIP AND RECORD.

Y IS INDICATED AS BEING LOCATED IN "ZONE D" ON THE NFIP FLOOD INSURANCE RATE MAP FOR EL PASO COUNTY, COLORADO AND AREAS: PANEL NUMBER 0754 OF 1300, MAP NUMBER 080059 074 G, EFFECTIVE DATE DECEMBER 7, 2018. ZONE "D" IS DESCRIBED AS AREAS HAZARDS ARE UNDETERMINED, BUT POSSIBLE.

IES: THE LOCATION OF UNDERGROUND UTILITIES ARE BASED UPON OBSERVED SURFACE EVIDENCE ONLY. PLEASE NOTE THAT LACKING EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY, AND RELIABLY DEPICTED. WHERE ADDITIONAL OR INFORMATION IS REQUIRED, THE CLIENT IS ADVISED THAT EXCAVATION AND/OR A PRIVATE UTILITY LOCATE REQUEST MAY BE NECESSARY. AND CO. AND THE SURVEYOR OF RECORD SHALL NOT BE LIABLE FOR THE LOCATION OF, OR THE FAILURE TO NOTE THE LOCATION OF UTILITIES.

ON THIS LINE FROM THE DEED, RECEPTION #213132123, KCOM, INC. TO BRIDLE DALE, LLC IS S10°54'42"W, THE BEARING ON THE SAME LINE AGE 489, LEONE ET AL TO THE SPACE GROUP, LTD, IS S10°54'52"W. THE BEARING ON THE SAME LINE IN BOOK 5090, PAGE 141, THE SPACE JOCKENDORF AND POWERS IS ALSO S10°54'52"W. THE BEARING OF S10°54'52"W, BEING THE SENIOR CALL WAS USED TO ESTABLISH THE ARY OF THIS SURVEY.

LAND DESCRIBED IN BOOK 1005 AT PAGE 262 OF SAID RECORDS, (ALL BEARINGS REFERRED TO HEREIN ARE RELATIVE TO THE NORTH LINE OF SAID SECTION 17, ON AN ASSUMED BEARING OF NORTH 89 DEGREES 42 MINUTES 7 SECONDS EAST);

THENCE, 533.50 FEET ALONG SAID WESTERLY EXTENSION AND SOUTHERLY LINE TO THE NORTHWEST CORNER OF THAT TRACT OF LAND AS DESCRIBED IN BOOK 3630 AT PAGE 188;

THENCE CONTINUING NORTH 89 DEGREES 42 MINUTES 7 SECONDS EAST, 280.10 FEET ALONG THE NORTHERLY LINE OF SAID TRACT OF LAND DESCRIBED IN BOOK 3630 AT PAGE 188 TO THE POINT OF BEGINNING OF THE TRACT OF LAND HEREIN DESCRIBED;

THENCE CONTINUING NORTH 89 DEGREES 42 MINUTES 7 SECONDS EAST, 118.00 FEET ALONG THE NORTHERLY LINE OF SAID TRACT OF LAND DESCRIBED IN BOOK 3630 AT PAGE 188 TO THE NORTHEAST CORNER THEREOF;

THENCE SOUTH 10 DEGREES 54 MINUTES 42 SECONDS WEST, 330.00 FEET ALONG THE EASTERLY LINE OF SAID TRACT OF LAND DESCRIBED IN BOOK 3679 AT PAGE 489;

THENCE NORTH 79 DEGREES 5 MINUTES 8 SECONDS WEST, 53.77 FEET;

THENCE NORTH 00 DEGREES 29 MINUTES 53 SECONDS WEST, 227.41 FEET TO THE NORTHWESTERLY LINE OF SAID TRACT OF LAND DESCRIBED IN BOOK 3679 AT PAGE 489;

THENCE CONTINUING NORTH 00 DEGREES 29 MINUTES 53 SECONDS WEST, 85.84 FEET TO THE POINT OF BEGINNING.

LEGAL DESCRIPTION PARCEL B

NON-EXCLUSIVE, PERPETUAL EASEMENT FOR ACCESS AS PROVIDED FOR AND DESCRIBED IN THE AGREEMENT RECORDED JULY 21, 2009 AS RECEPTION NO. 209084243, SUBJECT TO THE TERMS, CONDITIONS, COVENANTS AND PROVISIONS THEREOF.

- TITLE COMMITMENT NOTES:**
- IN REGARDS TO SCHEDULE B-SECTION II, EXCEPTIONS FROM COVERAGE, CONTAINED IN THE HEREON REFERENCED TITLE COMMITMENT: THE FOLLOWING SURVEY COMMENTS PERTAIN SOLELY TO THE LOCATION OR THE ABILITY TO PLOT THE LOCATION OF THOSE MATTERS DISCLOSED THEREIN. THE NUMBERED COMMENT CORRESPONDS WITH THE NUMBERED EXCEPTION REFERENCED IN SAID SCHEDULE B-2. SURVEYOR'S COMMENTS RELATING TO THESE ITEMS APPEAR IN PARENTHESIS ()
- S. ARE NOT ADDRESSED OR ARE NOT ABLE TO BE PLOTTED ON THIS SURVEY.
 - MINERAL RESERVATIONS, SEVERED MINERAL RIGHTS AND ASSIGNMENTS ARE NOT ADDRESSED BY THIS SURVEY.
 - WATER RIGHTS, CLAIMS OR TITLE TO WATER ARE NOT ADDRESSED THIS SURVEY.
 - TAXES ARE NOT ADDRESSED BY THIS SURVEY
 - TERMS, CONDITIONS AND PROVISIONS OF, AND THE EASEMENT OVER THE HEREIN DESCRIBED PARCEL AS PROVIDED FOR IN, THE AGREEMENT AND EASEMENT RECORDED MARCH 16, 1972 IN BOOK 2474 AT PAGE 593. (That easement, described in book 2474 at page 593 is plotted on the survey.)
 - RIGHT-OF-WAY EASEMENT AS GRANTED TO THE MOUNTAIN STATES TELEPHONE AND TELEGRAPH COMPANY RECORDED SEPTEMBER 25, 1972 IN BOOK 2525 AT PAGE 935. (That easement, described in book 2525 at page 935 is plotted on the survey.)
 - INCLUSION OF THE SUBJECT PROPERTY IN THE CIMARRON HILLS FIRE PROTECTION DISTRICT AS DISCLOSED BY THE SERVICE PLAN FOR THE FORMATION OF SAID DISTRICT RECORDED DECEMBER 13, 1972 AT RECEPTION NO. 941974. (The subject property is located within that area described in that document recorded at reception No. 941974.)
 - INCLUSION OF THE SUBJECT PROPERTY IN THE CHEROKEE WATER DISTRICT AS DISCLOSED BY ORDER FOR INCLUSION RECORDED DECEMBER 29, 1976 IN BOOK 2885 AT PAGE 257 AND OCTOBER 13, 1983 IN BOOK 3791 AT PAGE 1006, AND THE ORDER FOR THE FORMATION OF THE CHEROKEE WATER AND SANITATION DISTRICT AS RECORDED OCTOBER 29, 1981 IN BOOK 3496 AT PAGE 588. (The subject property is located within that area described in those documents recorded in book 2885 at page 257, book 3791 at page 1006 and book 3496 at page 588.)
 - TERMS, CONDITIONS AND PROVISIONS OF, AND COSTS ASSOCIATED WITH, THE AGREEMENT BETWEEN CHEROKEE WATER DISTRICT, CIMARRON SANITATION DISTRICT AND BOLDWYNDE ENTERPRISES DATED APRIL 30, 1981, RECORDED MARCH 10, 1982 IN BOOK 3540 AT PAGE 618. (Not plotted, but the portion of the subject property as described in book 3630 at page 188 is included in the area described in that document recorded in book 3540 at page 618.)
 - RESOLUTION NO. 83-49, LAND USE-18, RECORDED MARCH 14, 1983 IN BOOK 3688 AT PAGE 379. (The subject property is located within that area described in that document recorded in book 3688 at page 379.)
 - GRANT OF RIGHT OF WAY RECORDED MARCH 26, 1984 IN BOOK 3850 AT PAGE 181, SUBJECT TO THE AGREEMENT WHICH IS EVIDENCED BY MEMORANDUM OF AGREEMENT DATED SEPTEMBER 2, 1983 ATTACHED THERETO. (That easement, described in book 3850 at page 181 is plotted on the survey.)
 - INCLUSION OF THE SUBJECT PROPERTY IN THE CIMARRON HILLS STREET IMPROVEMENT DISTRICT AS DISCLOSED BY ORDER FOR INCLUSION RECORDED AUGUST 9, 1985 IN BOOK 5046 AT PAGE 61. (The subject property is located within that area described in that document recorded in book 5046 at page 181.)
 - AVIGATION EASEMENT GRANTED TO THE CITY OF COLORADO SPRINGS RECORDED JUNE 14, 1990 IN BOOK 5746 AT PAGE 447. (The subject property is located within that area described in those documents recorded in book 5746 at page 447)
 - RESOLUTION NO. 90-232, LAND USE-83, RECORDED MAY 23, 1994 IN BOOK 6451 AT PAGE 1171. (The subject property is located within that area described in those documents recorded in book 6451 at page 1171)
 - RESOLUTION NO. 03-10 RECORDED APRIL 2, 2003 AS RECEPTION NO. 203067282. (The subject property is located within that area described in those documents recorded at Reception No. 203067282)
 - TERMS, CONDITIONS AND PROVISIONS OF THE LEASE AGREEMENT DATED MARCH 23, 2007 WITH AUTOMATIC LAUNDRY COMPANY, LTD., AS LESSEE, AS EVIDENCED BY ABSTRACT OF LEASE RECORDED JANUARY 22, 2008 AS RECEPTION NO. 208007630. (The subject property is located within that area described in those documents recorded at Reception No. 208007630)
 - TERMS, CONDITIONS, COVENANTS AND PROVISIONS OF AGREEMENT RECORDED JULY 21, 2009 AS RECEPTION NO. 209084243. NOTE: THE REVOCABLE LICENSES PROVIDED FOR THEREIN ARE NOT TRANSFERABLE AND ARE SPECIFICALLY EXCLUDED FROM THE INSURANCE COVERAGE PROVIDED HEREIN. (The Access Easement, in that document recorded at Reception No. 209084243, is plotted)
 - ANY AND ALL EXISTING LEASES AND TENANCIES. (Not addressed by this survey.)
 - THE FOLLOWING MATTERS DISCLOSED ON THE IMPROVEMENT LOCATION CERTIFICATE PREPARED BY SHAWN A RICHARDS AS JOB NO. 13283-2, DATED OCTOBER 10, 2013:
 - TRASH ENCLOSURE ENCROACHES.
 - PARCEL B, IS NOT DEPICTED. SURVEY COVERAGE DOES NOT EXTEND TO PARCEL B.
 - ACCESS TO PORTIONS OF PARCEL A APPEAR TO BE ACROSS THE PROPERTY TO THE WEST WITH NO RECORDED DOCUMENTATION ALLOWING FOR THIS APPARENT ACCESS EASEMENT OTHER THAN THAT EASEMENT DESCRIBED IN EXHIBIT C AND DEPICTED IN EXHIBIT D OF AGREEMENT RECORDED JULY 21, 2009 AS RECEPTION NO. 209084243. (The trash enclosure is plotted, the Access Easement in that document recorded at Reception No. 209084243, is plotted)

SURVEYORS CERTIFICATE:

TO: BRIDLE DALE, LLC, A COLORADO LIMITED LIABILITY COMPANY AND STEWART TITLE GUARANTY COMPANY

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 6(a), 7(a)(b1)(C), 8, 9, AND 11, OF TABLE 'A' THEREOF.

THE FIELD WORK WAS COMPLETED DURING THE MONTHS OF DECEMBER 2018 AND JANUARY 2019.

DATE OF PLAT OR MAP: JANUARY 20, 2019

JOHN C. DAY P.L.S. NO. 29413
FOR AND ON BEHALF OF
DREXEL, BARRELL & CO.

ALTA/NSPS LAND SURVEY PLAT OF PROPERTY LOCATED IN THE NW 1/4 OF SECTION 17 A T14S, R65W OF THE 6TH P.M., COUNTY OF EL PASO, STATE OF COLORADO.

FOR: THOMAS & THOMAS

IN ACCORDANCE WITH CRS 13-80-105: NOTICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SU DEFECT. IN NO EVENT, MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF THE CERTIFICATION SHOWN HER			
PREPARED BY: Drexel, Barrell & Co. Engineers/Surveyors 3 SOUTH 7TH STREET COLORADO SPRINGS, COLORADO 80905 (719)280-1100 1800 38TH STREET BOULDER, COLORADO 80501 (303)442-7700 710 11TH AVENUE, SUITE 1-45 GREELEY, COLORADO 80631 (970)551-1100			
Revisions - Date	Date	Drawn By	Job No.
	01/31/2019	JCD	21268-0C
	Scale	Checked By	Drawing No.
	1" = 20'	JCD	21268-00 ALTA

CHEROKEE MD 2020 Drinking Water Quality Report

Covering Data For Calendar Year 2019

Public Water System ID: CO0121125

Esta es información importante. Si no la pueden leer, necesitan que alguien se la traduzca.

We are pleased to present to you this year's water quality report. Our constant goal is to provide you with a safe and dependable supply of drinking water. Please contact SARA HOWARD at 719-597-5080 with any questions or for public participation opportunities that may affect water quality. **Please see the water quality data from our wholesale system(s) (either attached or included in this report) for additional information about your drinking water.**

General Information

All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (1-800-426-4791) or by visiting [epa.gov/ground-water-and-drinking-water](https://www.epa.gov/ground-water-and-drinking-water).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV-AIDS or other immune system disorders, some elderly, and infants can be particularly at risk of infections. These people should seek advice about drinking water from their health care providers. For more information about contaminants and potential health effects, or to receive a copy of the U.S. Environmental Protection Agency (EPA) and the U.S. Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and microbiological contaminants call the EPA Safe Drinking Water Hotline at (1-800-426-4791).

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include:

- **Microbial contaminants:** viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- **Inorganic contaminants:** salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- **Pesticides and herbicides:** may come from a variety of sources, such as agriculture, urban storm water runoff, and residential uses.
- **Radioactive contaminants:** can be naturally occurring or be the result of oil and gas production and mining activities.
- **Organic chemical contaminants:** including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and also may come from gas stations, urban storm water runoff, and septic systems.

In order to ensure that tap water is safe to drink, the Colorado Department of Public Health and Environment prescribes regulations limiting the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration regulations establish limits for contaminants in bottled water that must provide the same protection for public health.

Lead in Drinking Water

If present, elevated levels of lead can cause serious health problems (especially for pregnant women and young children). It is possible that lead levels at your home may be higher than other homes in the community as a result of materials used in your home's plumbing. If you are concerned about lead in your water, you may wish to have your water tested. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. Additional information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline (1-800-426-4791) or at epa.gov/safewater/lead.

Source Water Assessment and Protection (SWAP)

The Colorado Department of Public Health and Environment may have provided us with a Source Water Assessment Report for our water supply. For general information or to obtain a copy of the report please visit wqcdcompliance.com/ccr. The report is located under "Guidance: Source Water Assessment Reports". Search the table using 121125, CHEROKEE MD, or by contacting SARA HOWARD at 719-597-5080. The Source Water Assessment Report provides a screening-level evaluation of potential contamination that **could** occur. It **does not** mean that the contamination **has or will** occur. We can use this information to evaluate the need to improve our current water treatment capabilities and prepare for future contamination threats. This can help us ensure that quality finished water is delivered to your homes. In addition, the source water assessment results provide a starting point for developing a source water protection plan. Potential sources of contamination in our source water area are listed on the next page.

Please contact us to learn more about what you can do to help protect your drinking water sources, any questions about the Drinking Water Quality Report, to learn more about our system, or to attend scheduled public meetings. We want you, our valued customers, to be informed about the services we provide and the quality water we deliver to you every day.

Our Water Sources

<u>Sources (Water Type - Source Type)</u>	<u>Potential Source(s) of Contamination</u>
WELL 20 GOSS WELL (Groundwater-Well) WELL NO 2 (Groundwater-Well) WELL NO 17 (Groundwater-Well) WELL 19 DUNCAN WELL (Groundwater-Well) WELL 21 AR-1 (Groundwater-Well) PURCHASED FROM CO0121150 (Surface Water-Consecutive Connection) WELL 22 DN-4 (Groundwater-Well) WELL NO 18 TIPTON (Groundwater-Well) WELL NO 9 (Groundwater-Well) WELL NO 10 (Groundwater-Well) WELL NO 11 (Groundwater-Well) WELL NO 12 (Groundwater-Well) WELL NO 13 (Groundwater-Well) WELL NO 15 (Groundwater-Well) WELL NO 1 (Groundwater-Well) WELL NO 16 (Groundwater-Well) WELL NO 3 (Groundwater-Well) WELL NO 4 (Groundwater-Well) WELL NO 5 (Groundwater-Well) WELL NO 6 (Groundwater-Well) WELL NO 7 (Groundwater-Well) WELL NO 8 (Groundwater-Well)	Row Crops, Fallow, Small Grains, Pasture / Hay, Septic Systems, Road Miles

Terms and Abbreviations

- **Maximum Contaminant Level (MCL)** – The highest level of a contaminant allowed in drinking water.
- **Treatment Technique (TT)** – A required process intended to reduce the level of a contaminant in drinking water.
- **Health-Based** – A violation of either a MCL or TT.
- **Non-Health-Based** – A violation that is not a MCL or TT.
- **Action Level (AL)** – The concentration of a contaminant which, if exceeded, triggers treatment and other regulatory requirements.
- **Maximum Residual Disinfectant Level (MRDL)** – The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- **Maximum Contaminant Level Goal (MCLG)** – The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- **Maximum Residual Disinfectant Level Goal (MRDLG)** – The level of a drinking water disinfectant, below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
- **Violation (No Abbreviation)** – Failure to meet a Colorado Primary Drinking Water Regulation.
- **Formal Enforcement Action (No Abbreviation)** – Escalated action taken by the State (due to the risk to public health, or number or severity of violations) to bring a non-compliant water system back into compliance.
- **Variance and Exemptions (V/E)** – Department permission not to meet a MCL or treatment technique under certain conditions.
- **Gross Alpha (No Abbreviation)** – Gross alpha particle activity compliance value. It includes radium-226, but excludes radon 222, and uranium.
- **Picocuries per liter (pCi/L)** – Measure of the radioactivity in water.
- **Nephelometric Turbidity Unit (NTU)** – Measure of the clarity or cloudiness of water. Turbidity in excess of 5 NTU is just noticeable to the typical person.
- **Compliance Value (No Abbreviation)** – Single or calculated value used to determine if regulatory contaminant level (e.g. MCL) is met. Examples of calculated values are the 90th Percentile, Running Annual Average (RAA) and Locational Running Annual Average (LRAA).
- **Average (x-bar)** – Typical value.
- **Range (R)** – Lowest value to the highest value.
- **Sample Size (n)** – Number or count of values (i.e. number of water samples collected).
- **Parts per million = Milligrams per liter (ppm = mg/L)** – One part per million corresponds to one minute in two years or a single penny in \$10,000.
- **Parts per billion = Micrograms per liter (ppb = ug/L)** – One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.
- **Not Applicable (N/A)** – Does not apply or not available.
- **Level 1 Assessment** – A study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.
- **Level 2 Assessment** – A very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

Detected Contaminants

CHEROKEE MD routinely monitors for contaminants in your drinking water according to Federal and State laws. The following table(s) show all detections found in the period of January 1 to December 31, 2019 unless otherwise noted. The State of Colorado requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. Therefore, some of our data, though representative, may be more than one year old. Violations and Formal Enforcement Actions, if any, are reported in the next section of this report.

Note: Only detected contaminants sampled within the last 5 years appear in this report. If no tables appear in this section then no contaminants were detected in the last round of monitoring.

Disinfectants Sampled in the Distribution System TT Requirement: At least 95% of samples per period (month or quarter) must be at least 0.2 ppm <u>OR</u> If sample size is less than 40 no more than 1 sample is below 0.2 ppm Typical Sources: Water additive used to control microbes						
Disinfectant Name	Time Period	Results	Number of Samples Below Level	Sample Size	TT Violation	MRDL
Chlorine	December, 2019	<u>Lowest period</u> percentage of samples meeting TT requirement: 100%	0	31	No	4.0 ppm

Lead and Copper Sampled in the Distribution System								
Contaminant Name	Time Period	90 th Percentile	Sample Size	Unit of Measure	90 th Percentile AL	Sample Sites Above AL	90 th Percentile AL Exceedance	Typical Sources
Copper	07/15/2019 to 07/19/2019	0.47	30	ppm	1.3	0	No	Corrosion of household plumbing systems; Erosion of natural deposits
Lead	07/15/2019 to 07/19/2019	3	30	ppb	15	0	No	Corrosion of household plumbing systems; Erosion of natural deposits

Disinfection Byproducts Sampled in the Distribution System									
Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources
Total Haloacetic Acids (HAA5)	2019	7.58	2.3 to 13.5	16	ppb	60	N/A	No	Byproduct of drinking water disinfection
Total Trihalomethanes(TTHM)	2019	24.03	8.4 to 46.4	16	ppb	80	N/A	No	Byproduct of drinking water disinfection

Radionuclides Sampled at the Entry Point to the Distribution System									
Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources
Gross Alpha	2019	7.3	2.6 to 12.0	2	pCi/L	15	0	No	Erosion of natural deposits
Combined Radium	2019	4.7	3.4 to 6	2	pCi/L	5	0	No	Erosion of natural deposits
Combined Uranium	2019	2.5	0 to 5	2	ppb	30	0	No	Erosion of natural deposits
Gross Beta Particle Activity	2019	6.05	4.1 to 8	2	pCi/L*	50	0	No	Decay of natural and man-made deposits
*The MCL for Gross Beta Particle Activity is 4 mrem/year. Since there is no simple conversion between mrem/year and pCi/L EPA considers 50 pCi/L to be the level of concern for Gross Beta Particle Activity.									

Inorganic Contaminants Sampled at the Entry Point to the Distribution System									
Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources
Arsenic	2019	0.7	0 to 2	6	ppb	10	0	No	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	2019	0.06	0.05 to 0.08	6	ppm	2	2	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chromium	2019	3.2	0 to 8	6	ppb	100	100	No	Discharge from steel and pulp mills; erosion of natural deposits
Fluoride	2019	0.32	0.29 to 0.35	2	ppm	4	4	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate	2019	5.49	0 to 7.5	10	ppm	10	10	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Nitrate-Nitrite	2019	0	0 to 0	2	ppm	10	10	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits

Inorganic Contaminants Sampled at the Entry Point to the Distribution System

Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources
Selenium	2019	7.2	4 to 13	6	ppb	50	50	No	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Nitrate: <i>Nitrate in drinking water at levels above 10 ppm</i> is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant you should ask advice from your health care provider.									

Synthetic Organic Contaminants Sampled at the Entry Point to the Distribution System

Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources
Di(2-ethylhexyl) phthalate	2019	0	0 to 0	1	ppb	6	0	No	Discharge from rubber and chemical factories

Secondary Contaminants**

**Secondary standards are non-enforceable guidelines for contaminants that may cause cosmetic effects (such as skin, or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water.

Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	Secondary Standard
Sodium	2019	47	11.1 to 71.8	6	ppm	N/A
Total Dissolved Solids	2016	131.2	62 to 180	5	ppm	500

Unregulated Contaminants***

EPA has implemented the Unregulated Contaminant Monitoring Rule (UCMR) to collect data for contaminants that are suspected to be present in drinking water and do not have health-based standards set under the Safe Drinking Water Act. EPA uses the results of UCMR monitoring to learn about the occurrence of unregulated contaminants in drinking water and to decide whether or not these contaminants will be regulated in the future. We performed monitoring and reported the analytical results of the monitoring to EPA in accordance with its Unregulated Contaminant Monitoring Rule (UCMR). Once EPA reviews the submitted results, the results are made available in the EPA's National Contaminant Occurrence Database (NCOD) (epa.gov/dwucmr/national-contaminant-occurrence-database-ncod). Consumers can review UCMR results by accessing the NCOD. Contaminants that were detected during our UCMR sampling and the corresponding analytical results are provided below.

Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure
Quinoline	2018	0.0237	<0.02 – 0.0423	6	Ppb
Germanium	2018	0.3287	<0.3 – 0.472	6	Ppb
Bromochloroacetic Acid	2018	2.548	0.847 – 3.89	8	Ppb
Bromodichloroacetic Acid	2018	1.0348	<0.5 – 1.53	8	Ppb
Chlorodibromoacetic Acid	2018	1.8965	0.332 – 3.0	8	Ppb
Dibromoacetic Acid	2018	4.252	0.517 – 6.48	8	Ppb
Dichloroacetic Acid	2018	1.092	0.636 – 2.11	8	Ppb
Monobromoacetic Acid	2018	0.7165	<0.3 – 1.11	8	Ppb
Tribromoacetic Acid	2018	3.077	<2.0 – 4.39	8	Ppb
Trichloroacetic Acid	2018	0.516	<0.5 – 0.631	8	Ppb

***More information about the contaminants that were included in UCMR monitoring can be found at: drinktapp.org/Water-Info/Whats-in-My-Water/Unregulated-Contaminant-Monitoring-Rule-UCMR. Learn more about the EPA UCMR at: epa.gov/dwucmr/learn-about-unregulated-contaminant-monitoring-rule or contact the Safe Drinking Water Hotline at (800) 426-4791 or epa.gov/ground-water-and-drinking-water.

Violations, Significant Deficiencies, and Formal Enforcement Actions

No Violations or Formal Enforcement Actions