

MAYBERRY COLORADO SPRINGS

WASTEWATER TREATMENT REPORT FOR PUD AMMENDMENT:
240 HOMES
3 INDUSTRIAL LOTS (FILING 2 PREVIOUSLY APPROVED)
ALL LANDSCAPING PERTAINING TO THE PUD AMENDMENT

Prepared for:

Ellicott Utilities Company, LLC
P.O. Box 86
Rancho Santa Fe, CA 92067

Revised:

5-11-2021

6-2-21

9-20-21

11-29-21

Prepared By:



Bradley A. Simons, P.E.
Principal

TABLE OF CONTENTS

INTRODUCTION	3
PROJECTED WATER DEMAND	4
WASTEWATER TREATMENT	5
WASTEWATER SERVICE	5
SUMMARY	7

APPENDICES

APPENDIX A WATER/ WASTEWATER COMMITMENT LETTERS	8
APPENDIX B WASTEWATER TREATMENT PLANT INFORMATION	13
B.1 ADMINISTRATIVE EXTENSION ON WASTEWATER TREATMENT PLANT	14
B.2 2021 COMPLIANCE INSPECTION DOCUMENTS	17



MAYBERRY COLORADO SPRINGS

WASTEWATER TREATMENT REPORT FOR PUD AMMENDMENT: 240 HOMES 3 INDUSTRIAL LOTS (FILING 2 PREVIOUSLY APPROVED)

INTRODUCTION

The purpose of this Wastewater Treatment Report is to provide a summary of water resources planning issues in support of the development of Mayberry, Colorado Springs. This PUD Amendment addresses 240 Homes, 3 industrial lots, and all landscaping pertaining to the subject development. The report will identify wastewater generation and treatment. This report is intended to fulfill the requirements set forth to satisfy the ultimate demand of wastewater projected by the development.

Mayberry Communities, LLC currently has the following plats recorded for Mayberry, Colorado Springs that are located in the development. Mayberry, Colorado Springs Filing No. 1 consisting of 98 residential lots, and Mayberry, Colorado Springs Filing No. 2 consisting of 3 industrial lots. Filing No. 2 will also be amended in the near future to increase the size of the industrial lots. Subsequent filings are under way in order to plat and record the remaining 142 homes that would build out the amended PUD.

THIS WATER RESOURCE REPORT WILL REPLACE THE WATER RESOURCE REPORT SUBMITTED BY JPS ENGINEERING AND LAST REVISED ON NOVEMBER 17, 2020, AND APPROVED WITH THE ORIGINAL PUD. AS NO DEVELOPMENT HAS TAKEN PLACE AND FURTHER RESEARCH WAS CONDUCTED TO ESTABLISH DEMAND, THIS REPORT WILL ALSO REPLACE THE PREVIOUS COMMITMENT LETTERS FROM ELLICOTT UTILITIES COMPANY TO MAYBERRY. ALL PREVIOUS COMMITMENTS ARE VOID AND THE NEW ONES CONTAINED IN THIS REPORT STAND.

PROJECTED WATER DEMAND

The PUD Amendment consists of 240 residential homes, 3 industrial lots, and associated parks and street landscaping.

The demands of the 240 residential homes with the use of 0.26 acre feet per year per home, there is an ultimate demand of 62.40 AF.

The demands of the 3 industrial lots are as follows:

- Lot 1 (Intelifab of Colorado, LLC) - The Intelifab facility will be located on 1.5 acres of industrial property and have 24,000 square feet of developed space. Based upon the presumed value of 0.1 gallon per day for each square foot of developed space, the inside use computes to 2.68 acre feet per year. Based upon the actual landscape plans for Intelifab, 4,115 square feet of the lot will be irrigated landscaping and based upon the presumed value of 0.0566 acre feet per 1,000 square feet of landscaping, the landscape use computes to 0.23 acre feet per year. The projected water demand for the Intelifab Facility is 2.91 acre feet per year.
- Lot 2 (Father Sons Whiskey, LLC) - A storage warehouse will be located on 1.48 acres of industrial property and have 35,000 square feet of developed space. Based upon the presumed value of 0.1 gallon per day for each square foot of developed space, the inside use computes to 3.92 acre feet per year. Based upon the assumption fifteen percent (15%) of the 1.48 acres will be landscaped and based upon the presumed value of 0.0566 acre feet per 1,000 square feet of landscaping, the landscape use computes to 0.55 acre feet per year. The projected water demand for the storage warehouse is 4.47 acre feet per year.
- Lot 3 (Mayberry RV Storage, LLC) - An RV storage facility will be located on 0.83 acres of industrial property and have 25,500 square feet of canopy style covered parking which will not have any indoor water demand. The inside use computes to 0.00 acre feet per year. Based upon the assumption fifteen percent (15%) of the 0.83 acres will be landscaped and based upon the presumed value of 0.0566 acre feet per 1,000 square feet of landscaping, the landscape use computes to 0.31 acre feet per year. The projected water demand for Industrial Lot 3 is 0.31 acre feet per year.

The water demands of the proposed parks and street landscaping are determined using the guidance in the El Paso County Land Development Code.

The landscape area for the Log Road/Village Main open space is 100,166 square feet. Based upon the presumed value of 2.46 acre feet per acre of landscaping, the landscape use computes to 5.66 acre feet per year.

The landscape area for the Tract O Park open space is 109,427 square feet. Based upon the presumed value of 2.46 acre feet per acre of landscaping, the landscape use computes to 6.18 acre feet per year.

The projected water demands for the development are summarized in the following table.

MAYBERRY, COLORADO SPRINGS PROJECT WATER DEMAND SUMMARY

<u>USE</u>	<u>DEMAND</u>
240 Single Family Residential Homes at 0.26 AFY	62.40 AF
3 industrial Lots	7.7 AF
Parks and Street Landscaping	11.84
Total Demand	81.94

WASTEWATER TREATMENT

Ellicott Utilities Company, LLC owns several water supply sources as detailed in the Water Resource Report. Ellicott Utilities Company will provide central wastewater service to Mayberry with available capacity at the existing Wastewater Treatment Plant.

WASTEWATER SERVICE (Originally Provided by the JPS Engineering Report and updated to reflect current numbers)

Mayberry, Colorado Springs is planning to connect to the central water and wastewater system that is owned and operated by Ellicott Utilities Company, LLC. It is understood that improvements to the central system will need to be made and the developer has agreed to make these improvements and dedicate them to Ellicott Utilities Company. Ellicott Utilities Company has sufficient wastewater treatment capacity at the Ellicott Springs Wastewater Treatment Plant (formerly known as the “Sunset Wastewater Treatment Plant”) to accept flow from the 240 homes and 3 industrial lots contained in this PUD Amendment. Above infrastructure improvements being dedicated to EUC, the builders will purchase sewer taps from EUC for each home and industrial lot at the rate published.

PUD AMENDMENT WASTEWATER DEMAND

	Single Family Equivalent Units (SFE)	Average Daily WW Flow (gpd)
240 Single Family Homes	240	48,000
3 industrial lots	23.1	4,620
Total	263.1	52,620

Currently the treatment plant serves existing customers in the Sunset Village development and the Ellicott schools. Sunset Village wastewater is conveyed from a lift station located at 23799 Jayhawk Avenue Colorado Springs, Colorado 80928. This lift station pumps sewage through a force main to the treatment plant. The second lift station is located just outside the bus barn at Ellicott School District Property. This lift station pumps sewage to a gravity line which is then carried south to the wastewater treatment plant. In January 2002, the Sunset Wastewater Treatment Plant completed an upgrade to a permitted capacity of 250,000 gallons per day (gpd), discharging to an unnamed tributary to Black Squirrel Creek.

CDPS Permit No. CO0047252 for Ellicott Utilities Co., LLC's wastewater treatment plant with a facility flow of 250,000 gallons per day was issued on July 31, 2014 and expired at midnight on August 31, 2019. The Water Quality Control Division (Division) received an application from Ellicott Utilities Co., LLC for an Individual permit renewal on August 7, 2019.

The Division has 180 days to issue a permit from the date received. In the event that the Division does not issue a renewal permit in advance of the permit expiration date, the expired permit shall be administratively extended and continue in force to the effective date of the new permit. The permit's duration may be extended only through administrative extensions and not through interim modifications. No permit renewal has been issued at this time.

The Division has notified Ellicott Utilities Co., LLC of its eligibility of administrative extension and the permit has been administratively extended on the date following the permit expiration.

The Ellicott Springs Wastewater Treatment Plant is a 3-cell aerated lagoon facility with chlorine disinfection. The WWTP has not discharged effluent to date based on the limited development and low flows from the service area. The GMS "Application for Site Approval" report for the treatment plant upgrade project utilized an average wastewater flow of 200 gpd/SFE, allowing for connection of up to 1,250 single-family equivalent (SFE) units to the upgraded treatment plant (250,000 gpd capacity).

The Ellicott Utilities Company wastewater service commitment status is summarized as follows:
**this was originally provided by JPS Engineering on the previous report and has been updated with current numbers*.*

Wastewater Service Commitments Summary
Updated from the original JPS Engineering Report

	SFE ^{1,2}	WWTP Capacity (gpd)	Committed % of Hydraulic Plant Capacity
Total Capacity		250,000	
Historic Commitments:			
Sunset Village Filings 1-5	184	36,800	
Ellicott Schools (1,203 students)	126.5	25,300	
Proposed Commitments:			
240 Single Family Homes	240	48,000	
3 Industrial Lots	23.1	4620	
Total Current Commitments	573.6	114,720	45.88%

¹ Wastewater SFE calculated based on 200 gpd/SFE (2) Single Family Equivalent calculated based on 297.3 GPD/SFE. Industrial demand of 7.7 AF computed to 23.1 SFE by determining the average daily use and using the SFE equivalent calculation to determine wastewater projections.

The existing wastewater treatment facility has sufficient capacity to accept the flows from the PUD Amendment to encompass 240 Single Family Residential Homes, and 3 industrial buildings. Future upgrades to this facility will begin before reaching 80% of the capacity based on the guidelines set forth by CDPHE.

SUMMARY

The PUD Amendment of Mayberry, Colorado Springs including 240 homes, 3 industrial lots, and respective landscaping, will connect to the existing central water and sewer systems currently owned and operated by Ellicott Utilities Company, LLC. EUC currently has adequate water rights and water system infrastructure to serve 240 single family residential homes, three industrial lots, and all parks and street landscaping in the development.

Water and wastewater system improvements will be designed and constructed in accordance with Ellicott Utilities Company Standard Specifications for provision of municipal water and domestic wastewater treatment, and these facilities will ultimately be dedicated to EUC or Mayberry, Colorado Springs Metropolitan District No. 2 upon satisfactory completion.

APPENDIX A

WATER/ WASTEWATER COMMITMENT LETTERS



Ellicott Utilities Company, LLC
P.O. Box 86
Rancho Santa Fe, CA 92067

May 14, 2021
Revised June 2, 2021

Mayberry Communities, LLC
3296 Divine Heights No. 207
Colorado Springs, CO 80922

**Re: Mayberry, Colorado Springs
PUD Amendment
Water and Wastewater Service Commitment (240 Homes 3 industrial Lots and
associated landscaping)**

Gentlemen:

It is our understanding that Mayberry Communities, LLC (the “Developer”) is interested in obtaining water and sewer service from Ellicott Utilities Company, LLC (the “Company”) for that property known as Mayberry, Colorado Springs for the Amended PUD. (the “Development”). It is our understanding that the El Paso County has previously approved Filing No. 1 and No. 2 and that the property is undergoing a PUD Amendment for 240 single family residential homes, 3 industrial lots and associated landscaping.

Ellicott Utilities Company further recognizes that we have issued two prior commitments, one for Filing No. 1 and one for Filing No. 2 both attached hereto. *This commitment is intended to replace the prior two commitments and to further commit to provide water and wastewater service to the remaining 142 homes.*

Ellicott Utilities Company, LLC will provide water and sewer service to the Development in accordance with the Company Rules and Regulations. Ellicott Utilities Company, LLC understands that the Developer has committed to construct water and sewer facilities as required to serve the Development in accordance with the subdivision construction drawings, and the Developer has provided for dedication of necessary easements and rights of way for the water and sewer improvements through the subdivision plans and related plat documents.

The proposed development will be served by the Ellicott Utilities Company’s central water and sewer system. Ellicott Utilities Company, LLC hereby provides an unconditional commitment to serve this PUD amendment of 240 single family residential homes, 3 Industrial lots and associated landscaping within Mayberry, Colorado Springs. There is a projected water demand of 81.94 AFY.

This commitment is based on the following water sources owned and controlled by the Company:

- Determination No. 598-BD (Laramie Fox Hills Wells) 50.98 AFY
- A portion of the Tipton Well Water Interest 30.96 AFY



Ellicott Utilities Company, LLC commits to providing the water supply to meet the El Paso County 300-year water supply requirement for this subdivision.

Ellicott Utilities Company anticipates that this PUD Amendment for 240 homes and 3 industrial lots will generate 263.1 SFE of wastewater. This is equivalent to an average daily wastewater flow of 52,620 gallons. Under Permit No CO0047252, Ellicott Utilities Company has the capacity for 250,000 gallons per day. With the current flows and the addition of this PUD amendment the wastewater treatment plant will be operating at 45.88% capacity.

Ellicott Utilities Company commits to provide wastewater services to the Development.

ELLICOTT UTILITIES COMPANY, LLC

John Mick

John Mick (Jun 2, 2021 09:40 MDT)

Signature

John Mick

Jun 2, 2021

Name

Date

Ellicott Utilities Company, LLC
P.O. Box 86
Rancho Santa Fe, CA 92067

April 23, 2020

Colorado Springs Mayberry, LLC
32823 Temecula Parkway
Temecula, CA 92592

**Re: Mayberry, Colorado Springs (formerly known as "Ellicott Town Center")
Filing No. 2 Final Plat
Water and Wastewater Service Commitment**

Gentlemen:

It is our understanding that Colorado Springs Mayberry, LLC (the "Developer") is interested in obtaining water and sewer service from Ellicott Utilities Company, LLC (the "Company") for that property known as Mayberry, Colorado Springs Filing No. 2 (the "Development"). It is our understanding that the Development is being processed for a Final Plat approval through El Paso County for 3 Commercial Lots.

Ellicott Utilities Company, LLC will provide water and sewer service to the Development in accordance with the Company Rules and Regulations. Ellicott Utilities Company, LLC understands that the Developer has committed to construct water and sewer facilities as required to serve the Development in accordance with the subdivision construction drawings, and the Developer has provided for dedication of necessary easements and rights of way for the water and sewer improvements through the subdivision plans and related plat documents.

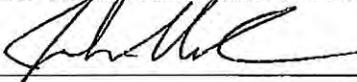
The proposed development will be served by the Ellicott Utilities Company's central water and sewer system. Ellicott Utilities Company, LLC hereby provides an unconditional commitment to serve 3 commercial lots within Mayberry, Colorado Springs Filing No. 2, with an estimated annual water demand of 2.78 af/yr.

This commitment is based on the following water source that is owned and controlled by the Company:

- Ellicott Town Center Denver Basin Wells – LFH rights (Determination of Water Right No. 598-BD)

Ellicott Utilities Company, LLC commits to providing the water supply from the source listed above to meet the El Paso County 300-year water supply requirement for this subdivision.

ELLICOTT UTILITIES COMPANY, LLC



Signature
John Mick 11/17/2020
Name Date

APPENDIX B

WASTEWATER TREATMENT PLANT INFORMATION

B.1 ADMINISTRATIVE EXTENSION ON WASTEWATER TREATMENT PLANT

Dedicated to protecting and improving the health and environment of the people of Colorado

Jason Hope, Mgr
Ellicott Utilities Co LLC
PO Box 231961
Encinitas, CA 92023

TO: Ellicott Utilities Co LLC
FROM: WQCD Permits Section 303-692-3517
DATE: 8/7/2019
RE: WQCD CDPS Permit application for CO-Individual permit

The Water Quality Control Division received an application from Ellicott Utilities Co LLC CO-Individual permit renewal on 8/7/2019. The application requests discharge authorization for Ellicott Springs WWTF located at Drennan Rd Calhan Facility SIC 4911. The assigned permit number is CO0047252.

The application has been reviewed and is considered complete for the purposes of filing. The Division has not verified all of the information contained in your application and has relied upon your signed certification to determine that the information is true, accurate, and complete. No permit has been issued at this time. The Division has 180 days to issue the permit from the date received.

In the event that the Division does not issue a renewal permit in advance of the permit expiration date, the expired permit shall be administratively extended and continue in force to the effective date of the new permit. **This is official notice of your eligibility of administrative extension and the permit shall become administratively extended on the date following your permit expiration.** The permits duration may be extended only through administrative extensions and not through interim modifications.

The application will undergo a technical review once it is assigned to a permit writer. At that time the Division will contact you to inform you that permit renewal process has started and may request additional information in order to further evaluate the technical information included in your application and evaluate the discharge.

Based on the locational information provided in your application we have determined that your discharge would be to Segment: **COARMA04c**. This discharge designation is solely for permit tracking and work planning purposes. The Division may evaluate other waterbody segments, particularly downstream segment(s), as part of the permit development process.

If any of the information submitted in your application is no longer true, accurate, and complete please submit an application supplement using the form found on the Division's web site.

We have the following contacts on file, if any of this information changes from the date your application was submitted until we issue your permit, please send a revised application/change of contacts form

Permittee Contact the person authorized to sign and certify the permit application. This person receives all permit correspondences *[Including invoice; is contacted for any questions relating to the facility; and receives DMRs as appropriate]* and is the person responsible for ensuring compliance with the permit

Jason Hope, Mgr
Ellicott Utilities Co LLC
PO Box 231961
Encinitas, CA 92023
Phone number: 619-876-6990
Email: jason@foleydevelopment.net

Facility Contact (*contacted for general inquiries regarding the facility*):

Richard Cromwell, Operator 13627
Cromwell's Excavating Inc
18353 State Hwy 94
Colorado Springs, CO 80930
Phone number: 719-499-9993
Email: treistump@yahoo.com

Billing Contact (*receives the invoice pertaining to the permit certification*):

Jason Hope, Mgr
Ellicott Utilities Co LLC
PO Box 231961
Encinitas, CA 92023
Phone number: 619-876-6990
Email: jason@foleydevelopment.net

DMR Contact:

Richard Cromwell, Operator 13627
Cromwell's Excavating Inc
18353 State Hwy 94
Colorado Springs, CO 80930
Phone number: 719-499-9993
Email: treistump@yahoo.com

If you have any questions, feel free to contact the Permits Section and refer to the permit number CO0047252. We have detailed email and telephone contact information available on the Division website at the "[Division Contacts](#)". You may also contact us by calling the permits line at 303-692-3517.

jason@foleydevelopment.net

treistump@yahoo.com

jason@foleydevelopment.net

treistump@yahoo.com

B.2 WWTP STATE COMPLIENCY EVENTS



COLORADO
Department of Public Health & Environment

March 23, 2021

Jason Hope
 Ellicott Utilities Company LLC
 PO Box 231961
 Encinitas, CA 92023

Subject: Compliance Inspection of Domestic Wastewater Treatment Facility
 Colorado Discharge Permit Systems (CDPS) No. CO0047252, Ellicott Springs WWTF
 El Paso County

Dear Mr. Jason Hope:

This letter serves to report the findings of the compliance inspection conducted by the Field Services Section of the Water Quality Control Division (the division) on the above referenced facility on February 16, 2021. The assistance that was provided was very helpful and is greatly appreciated. Table 1 identifies the parties present during the compliance inspection.

Table 1: Parties Present

Name	Organization
Phillip Cromwell, Matt Kalkman	Ellicott Utilities Company LLC
Brad Simons	MMI Water Engineers
Jason Kvols, John Mick	Mayberry Communities
Tammy Bruning, Cameron Wilkins	Colorado Department of Public Health and Environment

Table 2 summarizes the number of findings and the required written response dates.

Table 2: Compliance Inspection Findings

Severity Category	Number Identified	Response Due (within 30 days of letter date)
Major Findings	2	April 22, 2021
Other Findings	0	No Response Required
Observations / Recommendations	1	No Response Required

Major Findings

These items require action by the permittee and will be followed up by the division. Please provide a written response addressing the major findings listed below, which are potential violations, by April 22, 2021. The response must outline the course of action that will be taken and the date by which you propose to bring the facility into compliance with the CDPS permit, Colorado Revised Statutes and/or the associated regulations. Failure to respond within the required time frame may result in formal enforcement action.

1. C0014-1 - Monitoring Violations - Invalid/Unrepresentative Sample. Sample collection, preservation, or handling procedures not adequate for representative sample or results, or information not reasonably available for inspection.



Part 1.A.3 CDPS No. CO0047252 requires composite samples for monitoring BOD5 and Total Suspended Solids in influent. Part 1.B.4 requires composite samples to be a minimum of four (4) grab samples collected at equally spaced two (2) hour intervals and proportioned according to flow. At the time of the inspection, the permittee was collecting composite samples but did not proportion according to flow. Prior to issuance of this letter, the Permittee had sent the inspector documentation of a composite sample that was flow proportioned over a 6 1/2 hour period with sample aliquots grabbed randomly during that time period. The permittee must develop a method that will allow for proportioning influent sampling aliquots to be based on constant time intervals between samples and sample volumes proportional to flow at time of sampling. Please provide to the division documentation that an adequate method for flow proportioned composites has been implemented.

Please note the division has developed a DMR Guidance document as a condensed, but thorough tool for operators regarding how to complete DMRs. This document includes information regarding composite sampling/flow proportioned sample calculations. The DMR Guidance document is located on the internet at the CDPHE-WQCD website: <https://cdphe.colorado.gov/water-quality-regulations-policies-and-guidance>.

2. B0020-1 - Management Practice Violations - Improper Operation and Maintenance. Equipment is not properly sized, operated, calibrated, or maintained and/or the information is not reasonably available for inspection.

Part 1.D.7 of CDPS No. CO0047252 requires the permittee to be able to show proof of the accuracy of any flow measuring device. At the time of the inspection, the records were in a locked building and the keys were unavailable. Per an email sent February 26, 2021, the permittee indicated the flow measuring device was calibrated once or twice a year utilizing a yard stick and two employees. The February 26, 2021 email did not show proof that the comparison was made between the primary and secondary flow measurement devices (i.e., flume depth and chart value compared to flow meter readings) at the influent compliance point. The permittee must be able to show proof of accuracy of any flow measuring device. The permittee must either: 1) calibrate the secondary flow indicator using a vendor or 2) the permittee can perform and record regular (e.g., monthly) flow rate checks using weir OR flume tables and staff gauge depth readings to check the secondary flow indicators (i.e., flow meter readings) to determine if the meter is drifting (i.e., +/-10% agreement needed). If vendor calibration is selected, the calibration should be conducted at least annually using the manufacturer's procedures and calibration records should be retained at the facility. If regular comparison of the primary and secondary flow device is selected, the permittee should incorporate these monthly checks into the standard operating procedures and retain records at the facility. Please provide to the division documentation that the flow measuring device is providing accurate flow data and a program for maintaining flow device accuracy has been implemented.

Other Findings

The division expects the permittee to correct the following other findings, which are potential violations, as soon as practical and return the facility to compliance with the CDPS permit, Colorado Revised Statutes and/or the associated regulations.

No other findings were identified.

Observations/Recommendations

While the division will not directly follow-up on the observations/recommendations listed below, it is highly recommended that the permittee address them. The following observations/recommendations were identified:

1. At the time of the inspection, the division discussed the integrity of the lagoon liners and the seepage evaluation performed by GMS, Inc. in 2016. The permittee explained future plans are to be joined into May Berry Colorado Springs Metropolitan District which is to be developed just west of the Town of Ellicott. The wastewater system problems are anticipated to be addressed during this transition, which is forecasted to begin the planning stages in approximately 6 to 9 months. The division recommends the permittee continue to provide status updates to Aly Ulibarri with permit compliance enforcement at aly.ulibarri@state.co.us or 303-692-3163.

Reminders

- Sanitary sewer overflows and any other spills that may impact state waters are required by law to be reported in accordance with the division's *Guidance for Reporting Spills under the Colorado Water Quality Control Act and Colorado Discharge Permits*, which is available on the division's website at <https://cdphe.colorado.gov/water-quality>. The state 24-hour toll-free number for environmental release and incident reporting is 877-518-5608.
- Construction of interceptor sewers, lift stations and treatment plants, including modification/expansion of existing facilities, requires site location and design approval prior to commencement of construction. Please refer to the division's website at <https://cdphe.colorado.gov/water-quality> for information regarding these requirements.
- Most regulations, guidance documents and forms are available via the Internet on the division's website. Please link to <https://cdphe.colorado.gov/water-quality> for further information.
- In November 2018, the Water and Wastewater Facility Operators Certification Board updated and revised the criteria for facility classification in Regulation No. 100. These revisions are important because treatment and distribution/collection system classification establishes the minimum certification level for the operator in responsible charge (ORC). This may affect your facility's operator certification requirements. For existing facilities, the new criteria was applied March 1, 2021. More information is available at: <https://cdphe.colorado.gov/wq-facility-classification>.

We would appreciate any feedback that you provide so that we can improve. Please take a few moments to complete [this survey](#).

If you have any questions, please contact me by phone at (719) 295-5077 or via email at tammy.bruning@state.co.us. Thank you for your time and cooperation.

Sincerely,

Tammy Bruning

Digitally signed by Tammy
Bruning
Date: 2021.03.23 14:37:10 -06'00'

Tammy Bruning, Environmental Protection Specialist
Field Services Section
Water Quality Control Division
Colorado Department of Public Health and Environment

Encl. Inspection Report
SSO Evaluation Form
Biosolids Inspection Form

cc: El Paso County Health Department
Permit File, CDPS No. CO0047252
Tracking No. FS.21.INSP.01031

Jason Hope, CO
Richard Cromwell, ORC
Cameron Wilkins, PE, CDPHE-FSS, Unit Manager
Aly Ulibarri, CDPHE-CW Enforcement Unit
Tim Larson, WQCD Clean Water Compliance Unit



Water Compliance Inspection Report

Section A: National Data System Coding (i.e., ICIS)

Inspection Date:	2/16/2021	Inspector:	State
Permit			
Inspected:	CDPS #	Inspection Type	Program
Process	CO0047252	Compliance Evaluation	NPDES Base Program
Biosolids	CO0047252	Compliance Evaluation	NPDES Sludge / Biosolids
			Facility Self-Monitoring Evaluation Rating
			Unsatisfactory
			Satisfactory

Section B: Facility Data

Name and Location of Facility Inspected (For industrial users discharging to POTW, also include POTW name and NPDES permit number.)		Entry	Permit Effective Date
Name	ELLCOTT SPRINGS WWTF	Date	2/16/2021
Address	Drennan Rd	Time	9:00 AM
City, State, Zip	El Paso County CO 80808	Facility Loc	9/1/2014
If industrial, POTW name & CDPS number:		Exit	Permit Expiration Date
		Date	2/16/2021
		Time	12:30 PM
			Admin Continued

Name(s) of On-Site Representative(s) / Title / Phone / Email		Processes Which Generate Wastewater:	
Name	Phillip Cromwell	Name	Matt Kalkman
Title	Operator	Title	Backup Water Operator
Company	Ellicott Utilities Company LLC	Company	Ellicott Utilities Company LLC
Address	18353 State Hwy 94	Address	18353 State Hwy 94
City, State, Zip	Colorado Springs, CO 80930	City, State, Zip	Colorado Springs, CO 80930
Phone	719-499-9993	Phone	719-499-9993
Email	treistump@yahoo.com	Email	mkalkman1@yahoo.com
			Domestic Wastewater

Name / Contact info of Responsible Official		Treatment Process Description:	
Name	Jason Hope	The system has two lift stations. Influent flows through a Parshall flume then through a grinder pump into a primary lagoon that continues into a secondary lagoon. After that there are two polishing ponds and currently the system does not discharge any effluent.	
Title	Mgr		
Company	Ellicott Utilities Company LLC		
Address	PO Box 231961		
City, State, Zip	Encinitas, CA 92023		
Phone	619-876-6990		
Email	jason@foleydevelopment.net		

Permitted Features (bold italics indicate revised coordinates)					
Feature:	300-I	001-A	0	0	0
Lat (DD):	+38.754667	+38.752861	0.000000	0.000000	0.000000
Long (DD):	-104.395167	-104.392778	0.000000	0.000000	0.000000

Section C: Areas Evaluated During Inspection (included in letter if unsatisfactory)

Satisfactory	Permit	Marginal	Self-Monitoring Program	Not Applicable	Pollution Prevention
Satisfactory	Records / Reports	Unsatisfactory	Compliance Schedules	Not Applicable	Stormwater
Satisfactory	Facility Site Review	Not Evaluated	Laboratory	Not Applicable	Combined Sewer Overflow
Not Applicable	Effluent / Receiving Waters	Satisfactory	Operations & Maintenance	Satisfactory	Sanitary Sewer Overflow
Satisfactory	Flow Measurement	Not Applicable	Sludge Handling / Disposal	Not Applicable	MS4
Satisfactory	Certified Operator in Responsible Charge	Not Applicable	Pretreatment	Inspection evaluated elements identified in EPA's NPDES Compliance Inspection Manual, US Environmental Protection Agency, Office of Enforcement and Compliance Assurance, EPA 305-X-04-001.	
DMR Period Evaluated - Start: 9/30/2014 End: 10/31/2020					

Section D: Summary of Findings / Comments (see inspection letter for details)

Code	Description
B0020-1	Equipment is not properly sized, operated, calibrated, or maintained and/or the information is not reasonably available for inspection.
C0014-1	Sample collection, preservation, or handling procedures not adequate for representative sample or results, or information not reasonably available for inspection.

Name of Inspector	Phone	Email	Agency	Office
Tammy Bruning	(719) 295-5077	tammy.bruning@state.co.us	CDPHE, Water Quality Control Division	Pueblo



**SANITARY SEWER OVERFLOW EVALUATION
 DURING PAST 5 YEARS**

Entity Name:	ELLICOTT SPRINGS WWTF
Permit Number:	CO0047252
Date of Inspection:	2/16/2021

I. GENERAL INFORMATION

Size of service area (acres):	120.0
Feet (or miles) of sewer:	
Age of collection system (oldest part):	1990
Number of pump stations:	2
Number with back-up power supply:	0
Number with alarm systems:	2
Number with emergency storage:	2

Comments:

Population of service area:	300
Number of Total Taps (domestic, commercial, industrial):	101
Number of Industrial Taps:	0
Satellite collection system name(s):	0

II. SANITARY SEWER OVERFLOW EVALUATION

Inspection observation verifying SSO events	Yes, No, N/A
1. Sewer back-ups into basements?	No
2. Pipe blockages, pinch points, or breaks?	No
3. Bypasses from collection system (unpermitted outfalls, storm sewer connections, etc)?	No
4. Manholes or other overflows during wet weather?	No
5. Inflow/infiltration program in place?	No
6. Line cleaning and inspection program in place?	No

If yes to any of questions 1-4:

	Yes, No, N/A
7. Were SSO's reported to the State upon discovery (spill # 877-518-5608)?	N/A
8. Was the public notified?	N/A
9. Number of SSOs (last 5 years)?	0
10. Quantity (volume) of any SSO?	N/A

Comments:

Line flushing program (frequency):	As needed
Line inspection program(frequency):	
SSO information:	
Status of response procedures:	

BIOSOLIDS FACILITY INSPECTION FORM



COLORADO
Department of Public Health & Environment

Biosolids Management Coordinator
 Phone (303) 691-4091
 E-mail: tim.larson@state.co.us

Water Quality Control Division
 4300 Cherry Creek Drive South
 Denver, CO 80246-1530
 http://www.colorado.gov/CDPHE/WQCD

GENERAL FACILITY INFORMATION

Date:	2/16/2021	Method of Solids Disposal:	
Inspector :	Tammy Bruning	Beneficial Use (Land Application) [Identify Amounts]	
Facility Name:	ELLCOTT SPRINGS WWTF	Agricultural Land (%)	N/A
Contractor:	N/A	Contractor:	
CDPS Discharge Permit #	CO0047252	Frequency: (Daily, Weekly, Monthly)	N/A
Facility Contact :	Jason Hope	Public Distribution (%):	N/A
Title:	Mgr	Other (method, %):	N/A
Phone:	619-876-6990	(e.g., composting)	
E-mail:	jason@foleydevelopment.net	Surface Disposal CD#	
		Landfill Name:	
		Transferred to Other Facility:	
		Other:	
		Solids storage capacity (days):	

RECORDKEEPING AND REPORTING INFORMATION

	Are records available for beneficial use or disposal practices for the past 5 years?
	Are Pathogen Reduction, Vector Attraction Reduction and Metals records available for the past 5 years?
	Are field application records and soil analysis records available for the past 5 years?
	Is a list of current biosolids application sites and locations available at the facility?

PATHOGEN DESTRUCTION INFORMATION

Testing:	(identify method)		Lab Name:
	Fecal Coliform	MPN or CFU (Identify One)	Sample Frequency:
	Salmonella		
	EV/VHO		
	Sampling Location (complete description or attach WWTP schematic):		
	Time/Temperature - Batch Continuous (Identify)		
	Where are Temperature Readings Obtained:		

VECTOR ATTRACTION REDUCTION INFORMATION

	Are Vector Attraction Reduction Requirements met at the facility?	
	Method:	
	(If not and going to beneficial use, must be met during land application.)	
	<u>For Volatile Solids Reduction (VSR):</u>	
	Sample Locations (VSR):	
	In:	
	Out:	
	Show Equation used:	

GENERAL NOTES

Have never removed solids



STATE OF
COLORADO

Bruning - CDPHE, Tammy <tammy.bruning@state.co.us>

compliance inspection response co0047252

1 message

Cromwell,s Excavation Inc. <treistump@yahoo.com>

Wed, Mar 31, 2021 at 10:51 AM

To: Tammy Bruning - CDPHE <tammy.bruning@state.co.us>, jason <jason@foleydevelopment.net>, Jason Kvols <jasonkvols@mayberrycoloradosprings.com>, Matt Kalkman <mkalkman1@yahoo.com>

Tammy,

Attached is the composite sampling data sheet that will be used for monthly b.o.d and t.s.s. for Ellicott Utilities Co0047252. Any question please call Richard at 719.499.9993 thank you.

 composite sampling to state.pdf
771K

11C001H-1

Flow data from 8/11/19

5 samples sheet only
8/25/21

composite time of flow meter total	z flow Gal	gal	sample % ratio	sample volume ml	composite volume ml
0 min 43994					
1	1293				
2 min 66177		x	0.186	1000 x2	372 / 186
3	11280				
4 12 78407		x	0.313	1000 x2	646 / 343
5	9195				
6 16 79902		x	0.269	1000 x2	404 / 202
7	3327				
8 20 76229		x	0.269	1000 x2	538 / 269
Z total Gals	12345			total ml = 1000x2	total ml=2000

Ellicott Utilities composite sampling data. (Z~total Z= sample ratio%) (sample vol x ratio= comp vol.ml)

2) - B0000-1

TDMA to 1M42211 MW meter, 11/11 2019. b.c.t.s.
 plus meter at that time, per head 5142211



June 23, 2021

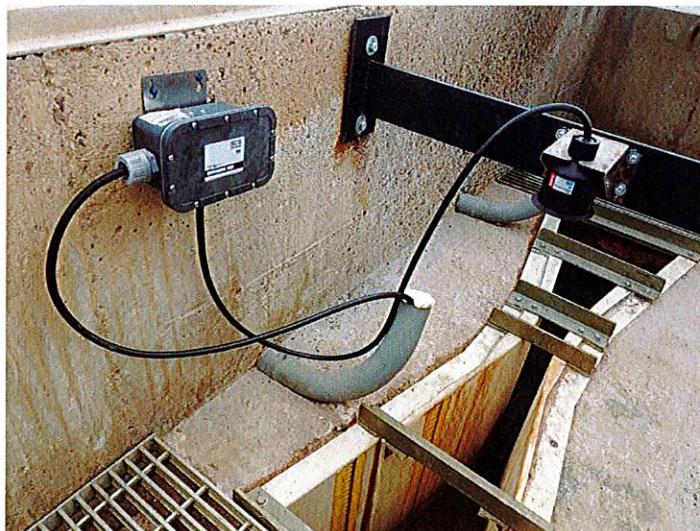
Ms. Tammy Bruning, Environmental Protection Specialist
Colorado Department of Public Health and Environment
Water Quality Control Division
Field Services Section
140 Central Main, Suite 300
Pueblo, Colorado 81003
(via e-mail: tammy.bruning@state.co.us)

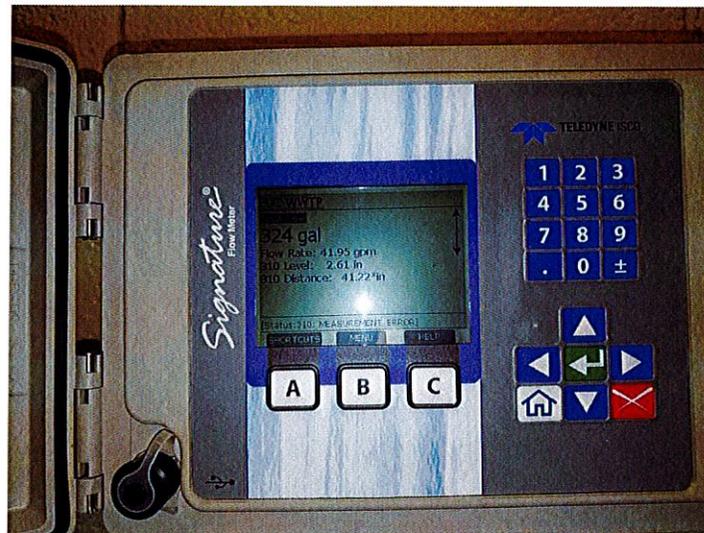
Re: Compliance Inspection Response – CDPS Permit No. CO0047252

Dear Ms. Bruning:

In response to the “Management Practice Violations – Improper Operation and Maintenance” referenced in your March 23, 2021, compliance inspection report, Ellicott Utilities Company LLC has replaced the influent flow meter system. The new equipment was installed on June 16, 2021. A representative of EUC’s contract operations company was present during the installation and observed the calibration activities.

Below are photographs of the newly installed equipment.





Attached are calibration records for June 16 and June 23, 2021. EUC's contract operations company will perform and record flow rate verifications monthly to determine if the meter is operating within the allowable accuracy (i.e. +/-10%). The monthly comparison process will be incorporated into updated standard operating procedures by the operations company and the records will be retained at the wastewater treatment facility.

Should you have any comments or questions, please contact me at 720-234-8398.

Sincerely,

MMI WATER ENGINEERS, LLC

Bradley A. Simons, P.E.
Principal

Att: June 16, 2021 calibration record
June 23, 2021 calibration record

cc: Jason Hope, Ellicott Utilities Company, LLC
Jason Kvols, Mayberry Communities
Richard Cromwell, ORC
Cameron Wilkins, CDPHE-WQCD

Ellicott Springs WWTF		
CDPS Permit No. CO0047252		
Influent Flow Meter Calibration Record		
Operator	Matt Kalkman	
Date	16-Jun-21	
Time	unknown	
Flow Rate Reading	41.95	gpm
310 Level Reading	2.61	inches
	Feet	Inches
3-inch Flume Table Level	0.21	2.52
Staff Gauge Level	0.215	2.58
Staff Gauge Level		2.61
3-inch Flume Table Level	0.22	2.64
Accuracy Differential		2%
These cells require data input by operator		

Ellicott Springs WWTF		
CDPS Permit No. CO0047252		
Influent Flow Meter Calibration Record		
Operator	Matt Kalkman	
Date	23-Jun-21	
Time	7:55 a.m.	
Flow Rate Reading	39.72	gpm
310 Level Reading	2.52	inches
	Feet	Inches
3-inch Flume Table Level	0.21	2.52
Staff Gauge Level	0.208	2.5
Staff Gauge Level		2.52
3-inch Flume Table Level	0.22	2.64
Accuracy Differential		1%
These cells require data input by operator		

EUC - WQCD Compliance Inspection (Flow Meter)

Bruning - CDPHE, Tammy <tammy.bruning@state.co.us>

25 June 2021 at 09:00

To: Brad Simons <bradley.a.simons@gmail.com>

Cc: Jason Hope <jason@foleydevelopment.net>, Jason Kvols <jasonkvols@mayberrycoloradosprings.com>, "Cromwell,s Excavation Inc." <treistump@yahoo.com>, Cameron Wilkins - CDPHE <CAMERON.WILKINS@state.co.us>, Matt Kalkman <mkalkman1@yahoo.com>

Brad,

Thank you for your submittal. This will complete all of the items on the corrective action plan.

Tammy

[Quoted text hidden]

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Tammy Bruning
Environmental Protection Specialist
Water Quality Control Division



COLORADO
Department of Public
Health & Environment

P 719-295-5077 | F 719-543-8441
140 Central Main, Suite 300, Pueblo, CO., 81003
<https://cdphe.colorado.gov/water-quality>

24-hr Environmental Release / Incident Report Line : 1-877-518-5608

