FILED²

JUL .8 2019

Missouri Public Service Commission Exhibit No.:

Issue(s): CCN Issuance

Operations

Witness: James A. Merciel, Jr., PE

Sponsoring Party: PSC Staff

Type of Exhibit: Rebuttal Testimony

Case No.: WA-2018-0370

Date Testimony Prepared: February 6, 2019

MISSOURI PUBLIC SERVICE COMMISSION

COMMISSION STAFF DIVISION

WATER AND SEWER DEPARTMENT

REBUTTAL TESTIMONY

OF

JAMES A. MERCIEL, JR., PE

CARL RICHARD MILLS

CASE NO. WA-2018-0370

Jefferson City, Missouri February 2019

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1	REBUTTAL TESTIMONY				
2	OF				
3	JAMES A. MERCIEL, JR., PE				
4	CARL RICHARD MILLS				
5	CASE NO. WA-2018-0370				
6	Q. Please state your name and business address.				
7	A. My name is James A. Merciel, Jr., PE, and my address is P.O. Box 360,				
8	Jefferson City, Missouri, 65102.				
9	Q. By whom are you employed and in what capacity?				
10	A. I am employed by the Missouri Public Service Commission (Commission) as a				
11	Utility Regulatory Engineering Supervisor, in the Water and Sewer Department.				
12	Q. Can you please describe your education, work responsibilities, and				
13	work experience?				
14	A. Yes. My qualifications, responsibilities, and experience, along with a list of				
15	cases in which I have provided testimony, are included with this rebuttal testimony as				
16	Schedule JAM-r1.				
17	EXECUTIVE SUMMARY				
18	Q. What is the purpose of this rebuttal testimony?				
19	A. The purpose of this rebuttal testimony is to update some of Staff's proposed				
20	expenses to be included in rates, more specifically, for laboratory testing for water quality and				
21	for mowing. Also, this rebuttal testimony responds to the direct testimony of Dr. John Derald				
22	Morgan (Dr. Morgan), one of the Intervenors in this case, regarding water quality and the				
23	issuance of a Certificate of Convenience and Necessity (CCN) by the Commission to				

Rebuttal Testimony of James A. Merciel, Jr., PE

Carl Richard Mills (Mr. Mills), and to the direct testimony of the Applicant Mr. Mills regarding plant operations. Direct testimony was filed in this case on January 7, 2019. This rebuttal testimony updates Staff's October 11, 2018 filed recommendation regarding the matter of issuance of a CCN by the Commission, but with some modifications that are based on new information.

STAFF RECOMMENDATION

- Q. Does Staff support the issuance of a CCN to Mr. Mills by the Commission?
- A. Yes. Staff stated such support in its *Staff Recommendation*¹ (Staff Recommendation or Memorandum) filed in this case on October 11, 2018. Since the filing of the Staff Recommendation, the Intervenors have brought up some service quality issues that pertain to water flow, pressure, large particles, and iron content. The water quality issues have caused Staff to add an additional condition to those included in its *Staff Recommendation* regarding issuing a CCN. In addition, Staff has reconsidered some of the utility's operating expenses.
- Q. What additional condition does Staff recommend the Commission impose in granting the CCN?
- A. Due to the water quality issues recently raised by the Intervenors, Staff recommends Mr. Mills undertake or continue water testing for bacterial contamination, substantially consistent with Missouri Department of Natural Resources (DNR) Rules 10 CSR 60-4.010 for Maximum Contaminant Levels and Monitoring Requirements, and 10 CSR 60-4.022 the Revised Total Coliform Rule. Staff further recommends Mr. Mills

¹ Ref. EFIS Item No. 11 in this case, and also attached to the rebuttal testimony of Amanda C. McMellen.

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also check chlorine residual and iron content. Staff supports such testing at least twice per year at approximately six month intervals, with test results reported to the customers at least annually.²

- Q. Does DNR monitor or test water quality at present?
- A. No. Because of the small size of this water system, DNR has not "activated" it to be a public water supply. DNR's definition of a public water supply is one that "...has at least fifteen (15) service connections or regularly serves an average of at least twenty-five (25) individuals daily at least sixty (60) days out of the year." Mr. Mills has seven (7) customer connections at present, but Staff nonetheless considers drinking water safety to be important on an ongoing basis, especially since some of these customers have raised water quality issues.
 - Q. What expenses has Staff reconsidered?
- A. The expenses are the cost of grass mowing allocated to water service, and expenses for water testing. The specific expenses are discussed in the rebuttal testimony of Staff witness Amanda C. McMellen.

RESPONSE TO INTERVENOR WITNESS DR. MORGAN

- Q. To what, specifically, are you responding regarding Dr. Morgan's direct testimony?
- A. Dr. Morgan brings up several issues, beginning with the qualifications of Mr. Mills. Other issues are somewhat related to the qualifications of Mr. Mills, as follows:

² Results for 2017 and 2018 water testing were provided by Mr. Mills in response to Staff Data Request 0010, and are included with this rebuttal testimony as Schedule JAM-r2.
³ Ref. 10 CSR 60-2.015(2)(P)8.

• The water quality issues,

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• The identification of the utility entity and utility property owner(s), and

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• Suggesting the Commission should deny the granting of a CCN to Mr. Mills based on lack of operations qualifications, insurance and a succession plan.

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Rather than issuing a CCN to Mr. Mills, Dr. Morgan instead suggests that the Commission order a transfer of the system to a "proper" entity that is controlled by the customers.

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Q. What is your response, generally, regarding the qualifications of Mr. Mills?

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A. As stated in the *Staff Recommendation*, which was prepared and filed before the Intervenors raised any water quality issues, Staff views Mr. Mills as capable of running the utility business and operating the water system.

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Q. What is your response regarding the water quality?

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A. The water quality issues, as described in the Intervenors' filed documents, data request responses, and Dr. Morgan's testimony appear to be related to the day-to-day operations of the system. In addition, the water quality primarily involves discoloration from iron, water flow, and sediments, which are aesthetic characteristics and not health-related, nor violations of drinking water standards. Further, due to the timing of case events and discovery, Staff has not had the opportunity to fully investigate the statements from customers regarding the reported issues, but will do so in the near future and/or as specific issues arise. However, for the purposes of the operations of Mr. Mills' water system after the granting of a

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CCN, and to improve customer confidence in operations and in customer relations, Staff sees

value in the contract operator/manager concept, as discussed below.

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Q. What is your response regarding the identification of the utility entity and utility property owner(s)?

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In his direct testimony, ⁴ Dr. Morgan discussed correct property ownership. Similar to the concerns of operations and water quality, Staff shares concerns with Dr. Morgan on this matter, but Staff expressed its concerns, and stated a resolution, in the Staff Recommendation Memorandum on page 2 under the title header Utility Property Ownership - Compiled upon advice of Staff Counsel, and the recommendation bullet point No. 9. In the Memorandum, Staff recommended, generally, that property ownership should be resolved correctly within 30 days after the effective date of the Commission's approval granting Mr. Mills a CCN. Staff's solution to this issue is to require a fix to the problem, rather than to deny a CCN.

- Q. What is your response regarding denial of a CCN and the Commission ordering a transfer of the water utility assets to some other entity?
- A. The Commission, in its Report and Order issued in WC-2017-0037.5 which was a formal complaint filed by the customers who are intervenors in this current case, stated that it "...has no power to remove the water assets from their current owner...," and "...this relief the Complainants request cannot be granted." Also, in Case No. WC-2017-0037 the Commission found Mr. Mills to be acting as a public water utility and as such ordered Mr. Mills to apply for a CCN. Mr. Mills has done so. In its Staff Report and Motion for Mediation⁶ filed in Case No. WC-2017-0037, Staff discussed some options regarding a valid water utility, but also did not wish to recommend the Commission order a transfer of assets. Staff maintains, given the circumstances in this pending case, that Mr. Mills is the proper entity to which the Commission should issue a CCN. Further, regardless of past or present property ownership, the CCN should be granted to Mr. Mills with the condition that the

⁴ Direct Testimony of Derald Morgan, page 5 lines 15-16 and page 8 line 21 through page 9 line 3.

⁵ Ref. EFIS Item No. 91, issued on April 12, 2018.

⁶ Ref. Case No. WC-2017-0037 EFIS Item No. 15, filed on October 28, 2016.

relevant water utility property be transferred to Mr. Mills within thirty (30) days of the effective date of the Commission's order, or within some reasonable amount of time thereafter.

- Q. Can you please respond to Dr. Morgan's statement suggesting denial of a CCN to Mr. Mills because of a lack of an adequate succession plan?
- A. Yes. Dr. Morgan stated that Mr. Mills' succession plan only consisted of transferring his assets to a personal trust, which Dr. Morgan believes is inadequate.
 - Q. Do you agree?
- A. There is no requirement for a small water utility to have a succession plan. Staff has generally discussed the concept informally in the past, in the context of all water and sewer utilities. However, in my experience, even if a succession plan exists, there is no guarantee that it will work as intended when the time comes for it to be exercised; such a requirement may not ultimately be particularly useful. Instead, one option is to utilize the receivership procedure⁷ if and when the responsible party becomes unable or unwilling to adequately oversee the provision of water service, whether that be Mr. Mills or a successor individual, a trust, a trustee, or any other entity.
- Q. Can you please respond to Dr. Morgan's statement suggesting denial of a CCN to Mr. Mills because of a lack of insurance?
- A. Yes. There is no requirement for a small water utility to carry any type of insurance, although some but not all water utilities have insurance for various purposes. Such a requirement likely would entail specifying coverage and limits of an insurance policy, and

⁷ Section 393.145 RSMo.

Rebuttal Testimony of James A. Merciel, Jr., PE

1 Dr. Morgan does not offer any suggestions with regard to coverage and limits that the

2 Commission could approve for the issuance of this specific CCN.

RESPONSE TO APPLICANT WITNESS MR. MILLS

Q. To what, specifically, are you responding regarding Mr. Mills' direct testimony?

A. At present, Mr. Mills does most or all of the day-to-day operations himself. However, in his direct testimony, Mr. Mills states a desire to hire a contract operator to undertake the day-to-day system operations, and perhaps to undertake customer billing along with taking and handling calls from customers regarding billing and service issues. Mr. Mills had earlier discussed this possibility with Staff, which Staff briefly discussed on page 6 of the *Staff Recommendation* Memorandum. Mr. Mills states he has discussed this possibility with a local operations firm. Staff's position is the concept of a contract operator/manager could solve many of the issues or perceived issues associated with water quality, and customer relations, because it would largely remove Mr. Mills from the day-to-day issues, although he would remain involved as the owner, financer, and executive of the utility. However, Staff has not seen any draft contract, nor reviewed any proposed cost, and thus is not yet prepared to comment on the feasibility or rate impact. In consideration of some operations and customer issues, as discussed herein, Staff would highly encourage Mr. Mills to explore further a contract operator/manager.

CONCLUSION

Q. Can you please summarize your rebuttal testimony?

⁸ Direct Testimony of Carl Richard Mills, page 5 line 22 through page 6 line 3, and page 11 lines 1-6.

Rebuttal Testimony of James A. Merciel, Jr., PE

A. Staff recommends the Commission grant a CCN to Mr. Mills for authority to provide water service, as Staff stated in the *Staff Recommendation*, but with proposed water rates adjusted as described by Staff witness Amanda C. McMellen, and with an additional condition regarding regular testing of the drinking water as outlined herein with annual reporting of the results to customers. A list of Staff's recommendations and conditions, as updated from the Staff Recommendation, is included as Schedule JAM-r3. In addition, Staff recommends Mr. Mills further explore services with a contract operator/manager, and enter into such a contract if it is reasonable to do so.

- Q. Does this conclude your rebuttal testimony?
- A. Yes.

BEFORE THE PUBLIC SERVICE COMMISSION

OF THE STATE OF MISSOURI

In the Matter of Carl R. Mills Trust Certi of Convenience and Necessity Authorizing Install, Own, Acquire, Construct, Op Control, Manage and Maintain Water Sy in Carriage Oaks Estates	g it to) Case No. WA-2018-0370 erate,)
AFFIDAVIT OF	JAMES A. MERCIEL, JR.
STATE OF MISSOURI)	
COUNTY OF COLE) ss.	
	EL, JR. and on his oath declares that he is of sound the foregoing <i>Rebuttal Testimony</i> ; and that the same wledge and belief.
Further the Affiant sayeth not.	
	JAMES A. MERCIEL, JR.
	JURAT
Subscribed and sworn before me, a duly	v constituted and authorized Notary Public, in and for
the County of Cole, State of Missouri, at m	y office in Jefferson City, on this day of
February 2019.	
D. SUZIE MANKIN Notary Public - Notary Seal State of Missouri Commissioned for Cole County My Commission Expires: December 12, 2020 Commission Number: 12412070	Augullanken Notary Public

Qualifications of

James A. Merciel, Jr., P.E.

My name is James A. Merciel, Jr. I am employed by the Missouri Public Service Commission as a Utility Regulatory Engineering Supervisor, in the Water and Sewer Department. My duties include reviewing and making recommendations with regard to certification of new water and sewer utilities including development of rates and rules, sales of utility systems to other utilities, formal complaint cases, and technical issues associated with water and sewer utility rate cases including quality of service matters, utility plant utilization, costs incurred for providing utility service, and tariff rules. In addition to formal case work, I handle informal customer complaints that are of a technical nature, conduct inspections and evaluations of water and sewer utility systems, and informally assist water and sewer utility companies with respect to day-to-day operations, planning, and customer service issues. In the past, I have supervised engineers and technicians in the water and sewer department working on the abovedescribed type of case work and informal matters. I frequently participate in workshop and rulemaking sessions at the Missouri Department of Natural Resources, I served on the American Water Works Association Small Systems Committee for three years, and have served on the National Association of Regulatory Utility Commissioners Staff Subcommittee on Water since 1994.

I graduated from the University of Missouri at Rolla, now named the Missouri University of Science and Technology, in 1976 with a Bachelor of Science degree in Civil Engineering. I am a Registered Professional Engineer in the State of Missouri. I worked for a construction company in 1976 as an engineer and surveyor, began employment with the Commission in the Water and Sewer Department in 1977, and have held my current position since approximately 1979.

Following is a partial list of cases in which I have provided written and/or live testimony (excludes cases with filed reports or affidavit recommendations):

Algonquin Water Resources

WR-2006-0425

Aqua Missouri, Inc.

SC-2007-0044 - Lake Carmel expansion complaint by a land developer

Big Island - Folsom Ridge

WO-2007-0277 - Developer-owned utility

Bill Gold Investments, Inc.

WC-93-276 (11/5/93) - Receivership case

Blue Lagoon, LLC

SO-2008-0358 - Developer-owned utility

Camelot Utility Co.

WA-89-1 - contested certificate case

Capital City Water Co.

WR-94-297

WR-90-118

WO-89-76 - plant capacity study

WR-88-215

WR-83-165

Central Rivers Wastewater Utility, Inc.

SR-2014-0247

Confluence Rivers Utility Operating Company

WM-2018-0116 -- transfer of assets and new ccns for several systems

Davis Water Company

WC-87-125 and WC-88-288 - quality of service, lack of needed upgrades Along with a proceeding in the Circuit Court in Wayne County approx 1988

The Empire District Electric Company and Liberty Utilities

EM-2016-0213 - merger/stock acquisition

Environmental Utilities, LLC

WA-2002-65 (11/2001) Certificate case

Finley Valley Water Company / Public Funding Corporation, City of Ozark

WM-95-423 – sale case

Gascony Water Company, Inc.

WA-97-510

House Springs Sewer Co.

SC-2008-0409 – customer formal complaint

Lake Region Water and Sewer Co.

SR-2010-0110 and WR-2010-0111

WR-2014-0461

Lake Saint Louis Sewer Co. SR-78-142 SA-78-147 - expansion of service area SC-78-257 - The Nine-Twelve Investment Co., et al Oak Bluff Preserve vs. Lake Saint Louis Sewer co, regarding method of providing service. SO-81-55 and Circuit Court in St. Charles County - alleged improper discontinuance of service along with injunction, approx 1980 or 1981 Lincoln County Sewer & Water, LLC SR-2013-0321 and WR-2013-0322 Merriam Woods Water Company WC-91-18 and WC-91-268 - quality of service Mill Creek Sewer System, Inc. Proceeding by MO Attorney General in Circuit court in St. Louis County, Cause No. 611261, 1998 DNR water pollution violations Receivership proceeding with Commission General Counsel, Circuit Court in Cole County, Case No. 10AC-CC00186, December 2017 Miller County Water Authority WC-95-252 and Circuit Court in Camden County approx 1995 - Complaint by Staff regarding operating without a certificate Missouri American Water Company WU-2017-0296 - Lead Service Line replacements WR-2017-0285 WR-2015-0301 SA-2012-0066 - Certificate case, Saddlebrooke WR-2011-0337 WR-2008-0311 and SR-2008-0312 WR-2007-0216 WC-2006-0345 - Dione C. Joyner, Complainant WR-2003-0500 WR-2000-281 WR-97-237/SR-97-206 WT-97-227 / WA-97-45 / WC-96-441 - Complaint by Water District 2 regarding customers outside of the service area, and service area expansion WA-97-46 -- certificate case for St. Joseph wellfield WR-95-205 WR-95-174 WR-93-212 WR-91-211 WR-89-265 WR-87-177 WR-85-16 Missouri Cities Water Company WR-95-172/SR-95-173 WR-92-207

Proceeding in Circuit Court in Audrain County, CV192-40SCC approx 1992, city of Mexico attempted acquire by condemnation of water system

WR-91-172/SR-91-174

WR-90-236

WR-89-178/SR-89-179

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WC-88-280 - William J. Fox d/b/a Fox Plumbing vs MO Cities, service line/main
                    extension matter
       WR-86-111/SR-86-112
       WC-86-20 - Mexico Doctor's park, main extension
       WR-85-157
       WR-84-51
       WR-83-15/SR-83-14
North Oak Sewer District, Inc.
       SR-2004-0306
Osage Water Co.
       WA-99-256 (8/5/99) - Lakeview Beach certificate case
       WC-2003-0134 (10/31/02) - Receivership case
Raytown Water Company
       WR-92-85 / WR-92-88
       WR-94-211
Saline Sewer Co.
       SR-79-187
       SR-81-192
       SR-82-206/SR-82-262
Southwest Village Water Company
       WO-89-187 – quality of service
       WC-89-138 (included testimony in Circuit Court in Greene County 1989)
St. Louis County Sewer Co.
       SC-83-255 - complaints about stormwater inflow/infiltration
St. Louis County Water Company
       WR-97-382
       WR-96-263
       WR-95-145
       WR-94-166
       WR-93-204
       WR-91-361
       WR-88-5
       WR-87-2
       WR-85-243
       WC-84-29 - Dewey Eberhardt vs St. Louis County Water Co., fire protection
       WR-83-264
       WR-82-249
       WC-79-251-Natural Bridge Development Corp vs. St. Louis County Water Co., -
                  meter accuracy/testing
Stoddard County Sewer Co.
      SO-2008-0289 - receivership, transfer, etc.
Suburban Water and Sewer Co.
      Injunction hearing, Circuit Court in Boone County 07BA-CV02632, June 2007
      WC-2007-0452
      WC-84-19 - service issues
United Water Missouri
      WR-99-326
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James A. Merciel, Jr. WA-2018-0370

Villa Park Heights Water Co. WA-86-58

Warren County Water and Sewer Co. -

Circuit court case in Warren County CV597-134CC, September1997 dispute with homeowners over a lot proposed to be a tank site WC-2002-155 / SC-2002-260 - March 2002 Receivership case filed by the Office

vC-2002-155 / SC-2002-260 - March 2002 Receivership case filed by the Опісє of the Public Counsel

West Elm Place Corporation

Circuit court lawsuit case in Jefferson County, approx 1988 Customer's lawsuit for damage from sewage backup

A \$15.00 FEE IS CHARGED FOR EACH SAMPLE TESTED.

EMAIL ADDRESS.

STONE COUNTY HEALTH DEPARTMENT DATE & TIME TEST BEGAN: Environmental Services, 109 E. 4th St., Galena, MO 65656 11-26-13 3:00 Certified Lab # 00840 DATE & TIME TEST ENDED: PRIVATE DRINKING WATER 11-21-18 3300 TEST FOR COLIFORM BACTERIA THE PHYATE CITIZEN FOR PRIVATE DRINKING THIS SAMPLING KIT IS TO BE USED BY WATER SUPPLIES. LABORATORY REPORT X SATISFACTORY (TOTAL COLIFORM BACTERIA ABSENT) AND BOTTLE NUMBER DATE SAMPLE COLLECTED ☐ UNSATISFACTORY (TOTAL COLIFORM BACTERIA FOUND) The sample must be received within 30 hours after collection. E. COLI ABSENT BELOW IS YOUR BETURN ADDRESS - PLEASE PRINT CLEARLY E. COLL PRESENT - WATER TREATMENT AND A FOLLOW-UP SAMPLE IS SUGGESTED (SEE ENCLOSED MATERIAL) ADDRESS (STREET RECEIVED IN LAB MORE THAN 48 HRS. AFTER COLLECTION □ OVER 30 HOURS (Results may be invalid)

OTHER

DATE REPORTED

1-21-18

ALKALINITY (30-400 PPM) 180PPM A minimum level is desirable because it is a buffer that will prevent a large variation in the pH due to the presence of bicarbonate, carbonate or hydroxide constituents. Concentrations less than 100ppm are desirable for domestic water supplies. High alkalinity above 500ppm is usually associated with hardness and high dissolved solids and has adverse effects on plumbing systems, especially on hot water systems where scale reduces the transfer of heat to the water resulting in greater power consumption. Levels less than 350ppm will tend to inhibit corrosion of metal piping. Water with less than 75ppm is subject to changes in pH.

411-33

DH (6.5 to 8.5) 7_6 The pH level reflects how acidic the water is. pH is measured on a scale that runs from 0 to 14. Seven is neutral. Water with a low pH can be corrosive and can leach metals from pipes and fixtures, such as copper, lead and zinc. It can damage metal pipes and cause laundry staining or blue-green stains on sinks. With a pH above 8.5 indicates a high level of alkalinity minerals. This does not pose a health risk, but can give the water an alkali taste and make Coffee taste bitter.

Hardness (20 to 110ppm) 240ppm The hardness is a measure of the amount of minerals, primarily calcium and magnesium, it contains. Scale will form on the interior of hot water tanks or cooking utensils when the water is classified as moderately hard or greater. Hardness is classified as Taucws: Soft 0 to 60 ppm, moderately hard 61 to 120 ppm, hard 120 to 180 ppm, very hard over 180 ⊇քπւ

Nitrates/Nitrites (10ppm/1ppm) NONE DETECTED High nitrate concentration in well water is generally an indication that the well is improperly constructed and that surface water containing excessive nitrates is entering the well. Because privies, cesspools, fertilizers, and barnyards are sources of organic nitrogen, a large amount of nitrate in well water may indicate pollution from these sources. When high nitrates are present in a well supply, the well should be checked for construction defects and bacteriological examination of the water should be made. Infants under the age of six months who are fed water or formula made with water that is high in nitrate can develop a condition called methemoglobinemia. This condition is also called blue baby syndrome. People who have heart or lung disease, certain inherited enzyme defects, or cancer may be more sensitive to the toxic effects of nitrate than others. Some experts believe that long-term ingestion of water high in nitrate may increase the risk of certain types of cancer.

> Schedule JAM-r2 Page 1 of 2

n' Locates

		Pur Millares		
DATE & TIME TEST BEGAN:	STONE COUNTY HEALTH DEPARTM Environmental Services, 109 E. 4th St., G			
DATE & TIME TEST ENDED: 1-12-17 4:30	PRIVATE DRINKING WATER TEST FOR COLIFORM BACTERIA	arraitellets		
THIS SAMPLING KIT IS TO BE USED B'	Y THE PRIVATE CITIZEN FOR PRIVATE DRINKING	LABORATORY REPORT		
OATE SAMPLE COLLECTED	TIME 10,10 GM, BOTTLE NUMBER BW 339	SATISFACTORY (TOTAL COLIFORM BACTERIA ABSENT)		
The sample must be received within 30 h	ours after collection.	UNSATISFACTORY (TOTAL COLIFORM BACTERIA FOUND)		
BELOW IS YOUR RET	URN ADDRESS - PLEASE PRINT CLEARLY	E. COLI ABSENT		
NAME Richar	d Mills	T. E. COLI PRESENT - WATER TREATMENT AND A FOLLOW-UP SAMPLE IS SUGGESTED (SEE ENCLOSED MATERIAL)		
ADDRESS (STREET)		TI RECEIVED IN LAB MORE THAN 48 HRS. AFTER COLLECTION		
209 Fa.	lling Leaf Ct.	C) OVER 30 HOURS (Results may be invalid)		
CITY, STATE, ZIP	1 1 2 12 1500	OTHER		
ISTANSO	n West, MO 65737	A \$10.00 FEC 13 CHARGED FOR EACH OAIN CE FECTED.		
COUNTY COLLECTED IN S 40 m	417-338-8870	DATE REPORTED EMAIL ADDRESS 1-12-17 MCY mills 40@ Yahuu		

WELL WATER SCREENING

NAME Richard Mills	STREET ADDRESS 2.09	Falling	Leaf
CITY Branson West	STATE MO	ZIP-CODE	
COUNTY Stone	DATE LILIT	BOTTLE#	BW 339

ACCEPTABLE RANGE YOUR RESULTS

Nitrate-nitrogen 10ppm/1ppm ne deleted High nitrate concentration in well water is generally an indication that the well is improperly constructed and that surface water containing excessive nitrates is entering the well. Because privies, cesspools, fertilizers, and barnyards are sources of organic nitrogen, a large amount of nitrate in well water may indicate pollution from these sources. When high nitrates are present in a well supply, the well should be checked from construction defects and bacteriological examination of the water should be made. Infants under the age of six months who are fed water or formula made with water that is high in nitrate can develop a condition called methemoglobinemia. This condition is also balled blue baby syndrome. People who have heart or lung disease, certain inherited enzyme defects, or cancer may be more sensitive to the toxic effects of nitrate than others. Some experts believe that long-term ingestion of water high in nitrate may increase the risk of certain types of cancer.

Staff's Recommended Bullet Points for the Commission's Consideration

(Updated and Restated from the Staff Recommendation Memorandum filed on October 11, 2018)

- 1. Grant Mr. Mills a CCN to provide water service;
- 2. Approve the water service area depicted by the map and metes and bounds description, included with Staff's Memorandum as Attachments A and B;
 - 3. Approve a quarterly flat rate for water service of \$271.42, updated from \$344.17, as per rebuttal testimony of Amanda McMellen in this case;
- 4. Require Mr. Mills, as a regulated water utility, to follow all applicable requirements pertaining to regulated water utilities;
- Require Mr. Mills, as a regulated water utility, to create and keep financial books and records for plant-in-service, revenues, and operating expenses (including invoices) in accordance with the NARUC Uniform System of Accounts;
- Require Mr. Mills to, going forward, keep and make available for audit and review all invoices and documents pertaining to the capital costs of constructing and installing the water utility assets;
- Approve depreciation rates for water utility plant accounts as described and shown on Staff's Attachment E:Schedule of Depreciation Rates for Water Plant;
- 8. Require Mr. Mills to submit a complete tariff for water service, as a thirty (30) day filling, within ten (10) days after the effective date of approval of a CCN by the Commission;
- 9. Require Mr. Mills, as the regulated water utility, to submit information in this case file indicating he owns pertinent water utility real estate, and has access and control of water-related utility easements throughout the service area, within thirty (30) days after the effective date of approval of a CCN by the Commission;
- 10. Extend the requirement for Mr. Mills to submit a rate case before the Commission upon issuance of a CCN, as ordered in the Commission's Report and Order issued in WC-2017-0037, to submitting a rate case one year after the effective date of the issuance of a CCN in this case;
- 11. Make no finding that would preclude the Commission from considering the ratemaking treatment to be afforded any matters in any later proceeding;

- 12. Require Mr. Mills to distribute to all customers an informational brochure detailing the rights and responsibilities of the utility and its customers regarding its water service, consistent with the requirements of Commission Rule 4 CSR 240-13, within thirty (30) days after the effective date of approval of a CCN by the Commission;
- 13. Require Mr. Mills to provide to the CXD Staff a sample of three (3) bills from the first billing cycle after the effective date of approval of a CCN by the Commission;
- 14. Require Mr. Mills to file notice in this case once Staff recommendations Nos. 12-13 above have been completed;
- 15. Require Mr. Mills to take water samples for laboratory analysis at least twice per year at approximately six month intervals for bacterial contamination, chlorine residual and iron content, such sample to begin within thirty (30) days of the effective date of a CCN issued by the Commission; and,
- 16. Require Mr. Mills to report the twice-annually water testing results to customers at least annually, beginning within 240 days after the effective date of a CCN issued by the Commission.