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Issues: Connection Charges Witness: James A. Merciel, Jr.

Sponsoring Party: MoPSC Staff
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Case No.: SR-2014-0247

Date Testimony Prepared: November 14, 2014

MISSOURI PUBLIC SERVICE COMMISSION UTILITY SERVICES DIVISION

DIRECT TESTIMONY OF

JAMES A. MERCIEL, JR.

CENNTRAL RIVERS WASTEWATER UTILITY, INC.

CASE NO. SR-2014-0247

Jefferson City, Missouri November 2014

1	DIRECT TESTIMONY
2	\mathbf{OF}
3	JAMES A. MERCIEL, JR.
4	CENTRAL RIVERS WASTEWATER UTILITY, INC.
5	CASE NO. SR-2014-0247
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1		DIRECT TESTIMONY					
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3		JAMES A. MERCIEL, JR.					
4		CENTRAL RIVERS WASTEWATER UTILITY, INC.					
5		CASE NO. SR-2014-0247					
6	INTRODUC	CTION					
7	Q.	Please state your name and business address.					
8	A.	James A. Merciel, Jr., P. O. Box 360, 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 Regul	atory Engineering Supervisor, in the Water and Sewer Unit.					
12	Q.	Please describe your education and work experience.					
13	A.	I graduated from the University of Missouri at Rolla, now named Missouri					
14	University of	Science and Technology, in 1976 with a Bachelor of Science degree in Civil					
15	Engineering.	I am a Registered Professional Engineer in the State of Missouri. I worked for a					
16	construction	company in 1976 as an engineer and surveyor, and have worked for the					
17	Commission	in the Water and Sewer Unit since 1977.					
18	Q.	What are your work responsibilities at the Commission?					
19	A.	My responsibilities include reviewing information and making					
20	recommendat	tions with regard to certifications for new water and sewer utilities, sales of					
21	utility system	s, formal complaint cases, and technical issues associated with water and sewer					
22	utility rate ca	ses. In addition to formal case work, I handle informal customer complaints that					
23	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, customer service issues and tariff rules. In the past, I have supervised engineers and technicians in the Water and Sewer Unit working on the above-described type of case work and informal matters. In the context of my position with Staff, I served on the American Water Works Association Small Systems Committee for three years, served on the National Association of Regulatory Utility Commissioners Staff Subcommittee on Water for approximately the past eighteen (18) years, and frequently participate in workshop and rulemaking sessions at the Missouri Department of Natural Resources.

- Q. Have you testified before the Commission previously?
- A. Yes. A list of cases in which I have provided testimony is included as Schedule JAM-1 to this direct testimony.

EXECUTIVE SUMMARY

- Q. What is the purpose of this direct testimony?
- A. The purpose of this direct testimony is to discuss issues associated with Central Rivers Wastewater Utility, Inc.'s (CRW) "Connection Charges," and present Staff recommendations.
 - Q. To what does the Connection Charges issue pertain?
- A. The Connection Charges issue is primarily about CRW's request to increase Connection Charges in this rate case¹ and Staff's recommendation for such. But, extensions to other issues also involve CRW's past practice in collecting incorrect Connection Charges amounts from some customers, refunds of overcharges resulting from such incorrect amounts,

¹ CRW did not include a request to increase Connection Charges in its rate increase letter filed on March 11, 2014; rather the request was included with other ancillary items while discussing proposed tariff changes with Staff. Although total company revenue is most often at the center of rate case activity, other charges and rules are also routinely addressed in rate cases.

and recording of the expenses associated with CRW's activity related to Connection Charges that properly meets regulatory requirements and adheres to the principles of the Uniform System of Accounts.

- Q. What information is included with this direct testimony?
- A. This direct testimony will include, as background information, why existing Connection Charges were originally created, how they were originally determined, and activities that CRW undertakes for the customers' benefit in consideration of payment of Connection Charges. Additionally, this testimony will discuss how Staff would determine the dollar amounts of Connection Charges for a recommendation in this case, and dealing with the issues related to Connection Charges in this case.

BACKGROUND - PURPOSE OF CONNECTION CHARGES

- Q. What is the purpose of CRW's Connection Charges?
- A. The purpose of the Connection Charges, to be paid by new customers with newly-connected premises as per the tariff, are to pay the costs incurred by CRW for parts, material, and the installation of what will be a customer-owned facility known as a "STEP" system, or septic tank effluent pump and sometimes referred to as a pump unit. The STEP system is defined in the tariff, and will be described in more detail below. Additionally, the Connection Charges also are to pay for CRW's costs to connect new customers' premises, through the STEP system and further through a service sewer pipeline, to CRW's collecting sewer². I have included with this direct testimony selected pages from CRW's currently-effective approved tariff as Schedule JAM-2. The first page of Schedule JAM-2, tariff Sheet

² "Collecting Sewer" is a defined term in the tariff that refers to CRW's sewer pipelines that are located throughout the subdivisions adjacent to customers' properties, which transport sewage from the customers' locations to CRW's treatment facilities. In parts of the tariff and perhaps elsewhere in this case, other terminology may be used including sewer mains, collection mains, collection system or other similar terms; however such terms normally refer to CRW's collecting sewers.

No. 14, states CRW's Connection Charges for single-family residential customers as a one-time charge of either \$4,500 or \$4,800, depending on the number of bedrooms in the home. Sheet No. 14 of the tariff also states what CRW does and does not do for the customer. All of the pages included in Schedule JAM-2 show rules and responsibilities regarding installation, ownership and maintenance of STEP systems.

- Q. What is a STEP system?
- A. "STEP" is an acronym for Septic Tank Effluent Pump. It is a system that utilizes an electric pump to remove partially treated sewage from a septic tank, and pump it to a sewer utility's central sewer system.
 - Q. What, in general, is a septic tank?
- A. A septic tank is a closed watertight vessel, most often made of concrete, plastic, or fiberglass, that is designed for underground installation near a residence or other building used for sewage treatment. Septic tanks typically have an access hatch, or maybe two hatches, at ground level used for inspection and removing of solids or liquid from the tank, and an underground pipe inlet for sewage flow from the premises as well as a pipe outlet for discharge. Septic tanks vary in size depending on the application from perhaps 600 to 1,500 or more gallons for residences. Sewage that is discharged into septic tanks from a residence or other type of premises undergoes biological breakdown and natural treatment by anaerobic bacteria, meaning non-oxygen breathing bacteria. Many residences in general, particularly in rural areas where there is no central sewer system, utilize septic tanks to treat the sewage, then discharge the treated sewage directly into the ground over a relatively large adjacent area using a "drain field." Normally in such situations there is no pumping involved,

and the septic tank system is an independent "on-site" sewage treatment facility that is in place only for a single residence or other type of structure.

- Q. How are septic tanks used by customers connected to CRW's sewer system?
- A. Unlike ordinary rural independent on-site septic tank systems, the septic tanks used by CRW's customers are connected to CRW's sewer system, and they do involve pumping, hence the term "STEP" referring to the electric septic tank effluent pump as stated above. In all but one of CRW's service areas, CRW's sewer systems utilize a septic tank at each customer's property for partial sewage treatment into which sewage flows by gravity from the customer's home. Each septic tank is internally equipped with a filter to ensure solid matter stays in the tank, and the electric pump that pumps partially treated sewage water, without the solids, through a pressurized service sewer pipeline located on the customer's property, to a pressurized collecting sewer that is owned by CRW.
- Q. What happens after sewage is pumped from the STEP system and off of the customer's property?
- A. The partially treated wastewater, after being pumped to the CRW-owned pressurized collecting sewer, is further transported through the collecting sewer along with discharge from other customers, ultimately reaching one of CRW's sewage treatment facilities for final treatment, and discharge to a creek with the approval of the Missouri Department of Natural Resources through the issuance of a discharge permit. The solids retained in the septic tank must be removed periodically, typically at intervals of several years but the exact frequency depends upon the individual customer's usage.

As an example of a STEP system for illustration, included with this direct testimony as Schedule JAM-3 is a copy of part of the website of Orenco Systems, Inc., a company that

manufactures and markets sewage handling and treatment products, describing its STEP system product. The pictures on this site show the septic tank, with surface access and the pump vault, as well as the pump and control system assembly. CRW may have Orenco or other products in use but the general configuration for all STEP systems utilized by CRW is substantially as shown by this example.

- Q. What does installation of a STEP system by CRW entail?
- A. Installation of a STEP system by CRW on a residential customer's property normally consists of the following:
 - Procuring and providing the septic tank, pump and motor, effluent filter, electrical
 control panel, electrical wiring and conduit, electrical splice box, liquid level controls,
 heater, pipe and valves, miscellaneous electrical and mechanical parts, and
 miscellaneous material for construction work and installation of the STEP system.
 - 2. Excavating on the customer's property, along with placing aggregate (rock) for bedding, and installing the septic tank at proper depth for access through either one or two hatches that are at or above finished ground surface, and such that sewage can flow from the house to the septic tank through a gravity service sewer. The location could be from within a few feet to several yards from the house.
 - 3. Installing within the septic tank a pump vault and its contents. The pump vault contains a removable filter; an electric submersible pump; electric controls including water level sensors for the pump that start and stop it based on water level in the septic tank; a check valve to prevent reverse flow of sewage back into the customer's septic tank from CRW's system; an alarm that works by water level that alerts the customer and others if the pump is not working; and often a heater to prevent freezing of some

- of the piping that is near ground level and vulnerable to outside temperature. The parts in the pump vault are referred to in CRW's tariff as the "Repairable Parts."
- 4. Excavating, constructing and connecting a pressure service sewer pipeline, a distance up to 800 lineal feet, from the STEP system to the collecting sewer pipeline which may or may not be off the customer's property, for example across the subdivision street; connecting the service sewer to the collecting sewer includes tapping of the collecting sewer pipe and installing fittings for connecting the service sewer, a valve on the service sewer to be able to turn off the customer's service either for discontinuance of service or for work to be done on the service sewer, and also could include another check valve on the service sewer. This distance is variable for each customer, and could involve a street crossing.
- 5. Excavating, constructing and connecting the customer's gravity service sewer from the outside of the house to the septic tank, of a distance up to 120 lineal feet.
- 6. Installing and connecting electrical wiring from the house to the STEP system electric control panel, and from the control panel to pump controls and other electrical components; the electric power is provided by the customer through the house electrical system to the exterior of the home. CRW would inspect the electrical wiring and circuit breaker related to the STEP system for proper construction within the home.
- 7. Backfilling the excavation, grading, and finishing the ground at excavation areas of the septic tank and pressurized portion of the service sewer, as needed perhaps depending upon other home construction activities on the lot.
 - Q. Who owns the STEP system?

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A. By the terms of the tariff as can be seen in Schedule JAM-2 on page 8, the customer owns the STEP system, after having paid CRW a Connection Charge that is designed to pay the average cost of installation that is described above.

BACKGROUND - ORIGINAL CREATION OF CONNECTION CHARGES

- Q. How were the existing Connection Charges determined, and when did they go into effect?
- A. The Connection Charges presently existing in CRW's approved tariff were determined by estimation of expenses. Estimation, and approval, of the existing Connection Charge of \$4,500 occurred in CRW's first certificate of convenience and necessity (CCN) case, SA-98-530, and became effective August 30, 1999. Schedule JAM-4, included with this direct testimony, shows the now-canceled tariff sheet with the \$4,500 as the Connection Charge for a single-family residence. The other existing Connection Charge, of \$4,800 for four bedroom or larger homes, was created and added in a subsequent CCN case, SA-2000-248, and became effective on March 24, 2000, and also at that time the \$4,500 became applicable to houses with up to three bedrooms. The estimates in these cases were developed by Staff and CRW working together, along with the vendors and agents that CRW was using at the time, by using estimates, actual costs and other available information regarding products, miscellaneous material, equipment and labor expected to be involved with STEP system construction and installation.
 - Q. Why were these Connection Charges estimated?
- A. The reason why they were estimated is because CRW, in its first CCN case, was a new utility with no operating history, and thus there was no existence of any historical records to audit in order to determine actual cost. Using estimates of capital costs and

operating expenses on a pro-forma basis is not unusual in CCN cases involving new startup utilities where there is no operating history. Estimates were also used in the subsequent CCN case where the Connection Charges were modified, because even by that time CRW had experienced very little growth and its historical operations records were of limited usefulness.

- Q. Do these above-described Connection Charges apply to all new customers?
- A. No, the above-described Connection Charges only apply to new single-family residence customers who apply for service with CRW and where CRW undertakes construction of STEP system as described above. There are some customers in one subdivision that are connected to a gravity sewer system and who do not have STEP systems, for which the Connection Charges do not apply. There is also a provision for customers to undertake the tasks that are associated with Connection Charges on their own with CRW approval, in which case Connection Charges would not apply, although CRW has not been exercising such authorization of customers to undertake the work. Finally, connection of commercial customers or multi-family residential customers is not as standardized as single-family residential customers, and in those situations the Connection Charge as stated in the tariff is to reflect the actual cost incurred by CRW to connect such new customers.

CONNECTION CHARGES – CURRENT ISSUES

- Q. Why are there issues in this case that involve the Connection Charges?
- A. Connection Charges issues exist because CRW has requested an increase of the Connection Charge for any single-family residence from the existing \$4,500 or \$4,800 to \$6,000 per connection, but thus far in this case Staff and CRW have not been able to agree with respect to the Connection Charges issues, and the various aspects. As with any other rate case issue, Staff needs to audit and review CRW's proposal, work with CRW, along with

- input from the Office of the Public Counsel and other parties to the case if there were any, and attempt to settle on the issue, as appropriate, to ensure that the change is prudent. Once the amount is finalized and settled between parties, the parties would present the agreement to the Commission for its approval.
 - Q. How many issues are related to Connection Charges?
 - A. There are three issues related to the Connection Charges.
 - Q. What is the first issue?
- A. The first and primary issue is CRW is requesting to increase the Connection Charge to \$6,000 from the existing \$4,500 or \$4,800 per residential connection. CRW does not actually do the STEP system installation work itself; rather it utilizes an affiliated entity, Construction Services & Management, LLC (CS&M). The reason Staff has an issue with the requested increase is because neither CRW nor CS&M will make the relevant cost information available to Staff for auditing purposes, even though CRW should have more cost records for the past fifteen (15) years. Staff would ordinarily audit the costs incurred by CRW to undertake the STEP system installation and connection activities in order to make a recommendation to the Commission as to whether or not the increase is reasonable or offer an alternative position. But since CRW will not make the cost records available, Staff is unable to verify by audit whether or not any change to the dollar amounts for Connection Charges as stated in CRW's tariff is justifiable. Staff will offer alternative recommendations dealing with the requested increase.
 - Q. What is the second issue?
- A. The second issue is CRW has been charging customers Connection Charges amounts other than what is specified in the existing tariff. Staff learned of this during the

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audit of CRW's books and records. Staff takes the position that since the Connection Charges are specified by the tariff, refunds should be paid or credited to the specific customers who were overcharged. CRW states to Staff that they have charged the actual cost of doing the work. Even though CRW states that it is being charged the actual costs of installing the STEP systems through CS&M, adequate and auditable supporting documentation has not been provided to Staff to substantiate this claim, as also related to the first issue described above. Staff is therefore unable to verify the actual costs incurred by CS&M and charged to CRW for the STEP installations and unable to formulate a recommendation on Connection Charges that customers should be paying for the STEP installations. Please refer to Staff witness Mr. Young regarding auditing information.

- Q. What is the third issue?
- A. The third issue, since CRW claims that customers were charged Connection Charges for actual cost rather than the approved published tariff amount, is how such refunds should be handled on CRW's financial books; whether the refund amounts should be added to rate base as utility investment and offset the investment for contributions paid by customers as treated in the traditional manner as contributions-in-aid-of-construction (CIAC), or if the refund amount should simply be ignored. However, yet another point related to this aspect is that if any such capitalization treatment is afforded CRW to include refunds to be recorded, exactly what are the verified and audited actual costs that support such treatment. Staff cannot quantify such capitalization without auditing the records. The accounting treatment is also being addressed in direct testimony of Staff witness Matthew Young of the Auditing Unit.

2 installation?

- Q. Does Staff take the position that CRW is responsible for STEP system ation?
- A. Yes. CRW has the responsibility for STEP system installation, by the terms of the tariff as shown in Schedule JAM-2 on pages 1, 4 and 5.
- Q. Does Staff take the position that CRW is responsible for justifying the Connection Charges?
- A. Yes. As with any other rate case issue, CRW has the responsibility to support costs of its investment and the costs it incurs to operate the utility system. As such, Staff expects CRW to be able to produce adequate documentation in order that Staff can formulate and provide a position, which information would also serve to justify charges that the Commission is asked to approve. In rate cases, to formulate its recommendations, Staff uses actual historical information to determine its positions on justifications of charges to be approved, except in specific instances, such as CCN cases as described above, or perhaps other circumstances involving new or changing practice where historical information absolutely does not exist. In this case, historical records pertaining to STEP system installation either do or should exist. CRW's statements to Staff that the cost information is not available because an affiliate incurs the cost is not reasonable, in my opinion.
- Q. Does Staff have an issue with CRW accomplishing the STEP installation work by utilizing an affiliate?
- A. No, in principle Staff has no issue with this practice, and generally no preference on how CRW accomplishes the work of installing STEP systems, because that is largely a business decision. Similar to other utilities and other types of businesses CRW has options. It may accomplish the work with its own employees; or, have its affiliate CS&M do

the work as a contractor as mentioned above; or, have an independent contractor do the work; or, allow the customer or a contractor working for the customer do the work. Regardless, however, CRW needs to show to the Commission, to Staff, and ultimately to customers, that Connection Charges it requests for approval are justified, and that the work will be done properly. This justification would also be critical for those customers where the tariff specifies "actual cost" to be charged, in which case CRW would necessarily need to be able to show the customer the components that comprise the actual cost, and could also be expected to be able to justify the cost to the Staff in the event the customer filed an informal or formal complaint about the cost.

- Q. How do you think CRW should show justification of the Connection Charges?
- A. If CRW were to incur the expenses directly, then the Staff Auditing Unit should be able to study invoice and payment records of CRW for all of the expenses and materials used in accomplishing the above-described work. If CRW uses an affiliate to accomplish the work, as is actually happening, then CRW, with the cooperation of the affiliate, needs to produce the pertinent records of the affiliate to sufficient show the cost of parts and materials, the cost of equipment, and labor cost; because ultimately CRW is charging the customers a fee even if it is not performing the work itself, and if that work is performed by another entity, then there still needs to be full documentation of the charges to ensure that the costs are appropriate. If CRW were to utilize general contract work, then Staff would expect to see a reasonable bid process for work actually being farmed out.
 - Q. What has CRW done to help Staff justify the costs?
- A. Not very much that would be considered to have provided complete and adequate information. So far, CRW has provided only some information it assembled by

copying selected examples of invoices, and stating in writing what its costs are. Any utility could do that for any expense but this type of information does not suffice as audited information, and certainly does not rise to the level of supported cost justification. The auditing procedure, and what is studied by auditors, will be addressed by Staff witness Mr. Young.

- Q. Why can Staff not use the estimated information, similar to as it was used for estimates in the CCN cases?
- A. Staff does not agree to using estimates for justification of expenses and costs in rate cases because actual and complete historical information is the most trustworthy and accurate type of information to use in order to determine actual costs. The actual, historical cost information should be used unless auditable information simply does not exist, such as for startup utilities as discussed earlier. CRW has been operating for many years now and has a substantial history of actual costs for the installations of the STEP systems. This actual cost information should be readily available to support the costs customers are being charged. As such, Staff believes it is necessary for CRW to support this costs component of its operations.

STAFF RECOMMENDATIONS – INCREASE OF CONNECTION CHARGES

- Q. What is Staff's position regarding an increase to CRW's proposed Connection Charges to be stated in its tariff?
- A. Since Staff is not able, by choice of CRW, to audit the expenses that comprise Connection Charges, Staff at this time takes the position that no increase should be approved.
 - Q. How can CRW address Staff's issue?
 - A. There are at least two ways the issue could be addressed.

- CRW could agree to make relevant STEP system installation cost records
 available. This requires that CRW allow Staff access to the auditable
 information, which could mean providing limited but pertinent records of an
 affiliate, so that Staff can conduct its audit, process the information, and arrive
 at justification of a recommended amount.
- 2. CRW could delete the Connection Charges from its tariff, and change rules, such that customers install the STEP systems and service sewers. Ownership would be with customers as is the practice today, but the difference is that all new customers may use a contractor of their choice including CRW's affiliate if they wish. Audit information would not be necessary, since customers control costs by using competitive vendors. Staff's position is that CRW maintenance responsibility should be retained, on the basis that this is current practice and rates are set up to support maintenance. The customers would be required to install STEP systems and service sewers to CRW specifications and subject to inspection, so tariff rules would need to be developed to provide for this.

OVERCHARGES ISSUE, AND RECORDING OF EXPENSES

- Q. What is Staff's position with regard to overcharging of Connection Charges?
- A. Staff's position is that all overcharge amounts should be refunded to the specific customers who paid the Connection Charges.
- Q. What is your recommendation for a timetable for CRW to issue refunds to the involved customers?

- A. Staff's recommendation for a refund timetable would be over a three (3) year period. This time is based on a maximum refund of \$1,500 for some customers, which would be \$41.67 per month; and if CRW credits customers' bills then credit issued monthly over this time period would not exceed the expected monthly rates to result from this case. CRW could, optionally, issue lump sum refunds or refund within a shorter period, but Staff recommends that all involved customers be treated equally, i.e. CRW should not, on its own decision, issue a lump sum to some customers and credit bills over time for others. Also, Staff recommends that CRW send monthly reports to Staff that includes information for each specific customer regarding the total overcharge amount, refund amounts paid or credited, and amount remaining to be refunded. Staff is open to negotiation on exactly how refunds could be issued, how to handle unusual circumstances, caveats regarding customers requesting termination of service, reporting, or other matters pertaining to issuing refunds.
- Q. Beyond the current overcharges issue, does Staff recommend that CRW, to the extent it spends more funds on STEP system and service sewer installation than it collects in Connection Charges, should record such capital expense on its books?
- A. Staff does not oppose such treatment of expense that is not recoverable through Connection Charges. However for any treatment of expenses afforded CRW, whether for past Connection Charge-related activity or future Connection Charge-related activity, those appropriate dollars booked as such need to be audited by Staff in order for Staff to determine that any such expense amounts are prudent, and for Staff to include them in any recommendations. This applies to this case and to future cases.

SUMMARY

Q. Can you please summarize your direct testimony?

Direct Testimony

James A. Merciel, Jr.

SR-2014-0247

Attachment A

Cases with Testimony by James A. Merciel, Jr.

SR-2014-0247 – Central Rivers Wastewater Utility, Inc. Cases with Testimony by James A. Merciel, Jr. (not all inclusive) November 2014

Algonquin Water Resources

WR-2006-0425

Aqua Missouri, Inc.

SC-2007-0044

Big Island – Folsom Ridge

WO-2007-0277

Bill Gold Investments, Inc.

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

Blue Lagoon, LLC

SO-2008-0358

Camelot Utility Co.

WA-89-1

Capital City Water Co.

WR-94-297

WR-90-118

WO-89-76 – plant capacity study

WR-88-215

WR-83-165.

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

Environmental Utilities, LLC

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

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

WM-95-423

Gascony Water Company, Inc.

WA-97-510

House Springs Sewer Co.

SC-2008-0409

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 injuction., 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

SR-2014-0247 – Central Rivers Wastewater Utility, Inc. Cases with Testimony by James A. Merciel, Jr. (not all inclusive) November 2014

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 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 SA-2012-0066 (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 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 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

SR-2014-0247 – Central Rivers Wastewater Utility, Inc. Cases with Testimony by James A. Merciel, Jr. (not all inclusive) November 2014

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

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

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 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

Direct Testimony

James A. Merciel, Jr.

SR-2014-0247

Attachment B

Selected Sheets from Central Rivers Wastewater Utility, Inc. Tariff Pertaining to Connection Charges and STEP Systems P.S.C. MO No.1

First Revised Sheet No. 14

Canceling PSC MO No. \ Original Sheet No. 14

Name of Utility: Central Rivers Wastewater Utility, Inc.

For Service Areas in the State of Missouri

Rules Governing Rendering of Sewer Service

SCHEDULE OF SERVICE CHARGES

Missouri Public

CONNECTION CHARGES:

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All single family residential customers utilizing a STEP system that the company will maintain shall pay a onetime \$4,500.00 connection charge for three bedroom and smaller homes and \$4,800 for four bedroom and larger homes when making application for service. This charge is inclusive of all accessories and inspections as hereinafter referenced. All non-residential or multi-family service connection charges shall be at actual cost incurred by the Company in accordance with Rules 10 and 11. The Company shall have sole discretionary authority to decide who may install equipment and will provide a letter to any person, company, incorporation or other business entity that has the authority to install equipment that will ultimately be operated and maintained by Company. Upon request that person, company, incorporation or other business entity shall produce a letter stating in writing that they are so granted authority to install equipment that will ultimately be operated and maintained by Company and if so unable to produce said letter, that entity or person shall not install any equipment to be ultimately operated and maintained by company.

This charge does include: Cost for connecting the home to the sewer main. This includes any and all costs associated with the following: watertight septic tank, post construction testing of tank and system, pump or pumps, effluent filters, electrical control panel, splice box and wiring from control panel to septic tank, wiring from stubbed out electrical service at customer home to control panel (see Rule No. 6), 4" SCH 40 (or equal) piping from single family residence to septic tank up to 120 linear feet, 1" SCH 40 (or equal) piping from septic tank to main collection systems line up to 800 linear feet, risers and lids, service connection valves and appurtenances, inspections.

This charge does not include: any surveying to determine actual location of easements or property lines for customer, any electrical service beyond connecting to a 30 amp dedicated circuit and another minimum 20 amp circuit that need not be a dedicated circuit (minimum two separate circuits, see Rule 6) single phase electrical connection stubbed by customer to exterior of house, any plumbing closer than 5' of customer's building or residence.

Connection charges for STEG and Gravity collection systems will be based on actual costs as allowed by the Missouri Public Service Commission. The cost for a connection charge to a STEG or Gravity flow collection system will be stated in the Company's Tariff when data is obtained to present a reasonably accurate cost.

Missouri Public

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February 7. 2000 FILED MAR 2 4 2000

Month Year DATE EFFECTIVE

ISSUED BY: Mark Geisinger President P. O. Box 459, Kearney, MO 64060

Address

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Name of Officer Title

For Service Areas in the State of Missouri



Rules Governing Rendering of Sewer Service

Rule 1. DEFINITIONS (continued)

- (N) "NON-DOMESTIC SEWAGE" is all sewage other than domestic sewage including, but not limited to, commercial or industrial wastes. (See Rule 6 pertaining to Improper Waste or Excessive Use.)
- (O) "pH" is the relative degree of acidity or alkalinity of water as indicated by the hydrogen ion concentration. pH is indicated on a scale reading from 1-14, with 7 being neutral, below 7 acid, and above 7 alkaline; more technically defined as the logarithm of the reciprocal of the hydrogen ion concentration.
- (P) "REPAIRABLE PARTS" are pump motor, effluent pump, liquid level control, and heater, if applicable. This does not include the collection tank and piping from the dwelling structure to the collection sewer.
- (Q) A "SERVICE CONNECTION" is the connection of a service sewer to the Company collecting sewer either at the bell of a "Y" branch or the bell of a saddle placed on the barrel of the collecting sewer or at the check valve of a pressure service connection.
- (R) A "SERVICE SEWER" is a pipe with appurtenances owned and maintained by the Customer, used to conduct sewage from the Customer's premises to the collecting sewer excluding service wyes or saddles or to a septic tank that is part of a STEP or STEG collection system. Company shall install this service line unless Company grants permission in writing to Customer to install this service line. Customer shall abide by all details, restrictions and requirements provided to Customer if permission is granted to Customer to install this service.
- (S) "STEG Tank" is a septic tank effluent gravity tank consisting of a watertight septic tank, control panel (optional), and effluent filter. Individual STEG tanks may serve one, two or multiple combinations of residences or commercial facilities when appropriately sized.

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Name of Officer Title Address

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For Service Areas in the State of Missouri

Rules Governing Rendering of Sewer Service (11,1) 200 200 1996

DEFINITIONS (continued) Rule 1.

- "STEP Tank" is a septic tank effluent pumping tank consisting of a watertight septic tank, control (T) panel, pump and effluent filter. Individual STEP tanks may serve one, two or multiple combinations of residences or commercial facilities when appropriately sized.
- A "SUBDIVISION" is any land in the State of Missouri which is divided or proposed to be divided (U) into two or more lots or other divisions of land, whether contiguous or not, or uniform in size or not, for the purpose of sale or lease, and includes resubdivision thereof.
- "SUSPENDED SOLIDS" are the concentration of insoluble materials suspended or dispersed waste (V) expressed in milligrams per liter on a dry weight basis as determined by standard procedures.
- "TERMINATION OF SERVICE" is the cessation of the use of sewer service requested by the (W) customer. Such TERMINATION OF SERVICE shall be accomplished by a method verified and recognized by the company, and may include physical disconnection of the service sewer, termination or disconnection of water service by the water utility, or the company's observation of non-occupancy of the unit served.
- The word "UNIT or BUILDING UNIT" shall be used herein to define the standard user or property (X) served. Each mobile home in a mobile home park and each residential dwelling unit in a multi-unit building is a separate unit whether owned or leased or residential or commercial.

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ISSUED BY:	Mark Geisinger	President	205 S. Spartan Drive, Richmond, MO 64085
	Name of Officer	Title	Address

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For Service Areas in the State of Missouri

Rules Governing Rendering of Sewer Service

Constant Separation

Rule 4. APPLICATION FOR SEWER SERVICE (continued)

- Customer of all fees required for connection. In the case of a single family residence to be connected to a STEG or STEP system, Customer or Customer's plumber shall provide all house piping. Company will install sewer piping from the house piping to STEP or STEG tank and shall install the STEP or STEG tank and all related equipment as described under the Schedule of Charges for the particular service area, unless Company grants written approval to have Customer or Customer's plumber to provide the installation. Details of inspection procedures will be provided to the Customer or Customer's plumber if permission is so granted for the Customer to install any part of the system beyond house piping. Customer shall provide electrical service to the exterior of the house in the form of one dedicated 30 amp circuit and one separate 20 amp minimum circuit that need not be a dedicated circuit. The Customer or Customer's plumber shall advise the Company during normal business hours and a minimum of six working days in advance of when the customer expects to have service installed.
- (H) When sewer charges are based on water usage, the Company reserves the right to refuse sewer service to any applicant unless said Applicant agrees to install a water meter accessible to the Company, so that there will be a basis for sewer charges. The Company and Customer may agree to an estimated water use amount, on an interim basis for a period not to exceed six (6) months, to allow time to install suitable metering equipment.
- (I) When service is requested for a multi-unit building, there shall be one party responsible as the customer unless either:
 - 1) each unit has an individual service sewer, or,
 - each unit is provided water utility service through an individual water meter by the company or by another water utility with which the company has an approved agreement for discontinuance of water service for non-payment of a sewer bill, and there exists one responsible party for maintenance of sewer facilities common to all customers within the building.
- (J) The Company will provide to the Customer an Application for Sewer Service. This Application will clearly state who is to install and maintain each part of the service connection, whether it be the Customer or the Company.

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Original Sheet No. 29

Name of Utility: Central Rivers Wastewater Utility, Inc.

For Service Areas in the State of Missouri

Rules Governing Rendering of Sewer Service

Rule 6. STEP or STEG Systems

- This rule applies to customers on a either a STEP or STEG collection system and is not applicable (A) to customers on a conventional gravity collection system.
- The Company will install the STEP or STEG unit required for the service area at a cost as established under the Schedule of Charges for that service area. Prior to connection the Customer shall be required to meet certain obligations as detailed in these rules. Electricity costs for pump operation shall be the responsibility of the Customer.
- For a single family residence with three bedrooms or fewer the Company will install a minimum (C) 1,000 gallon watertight tank, pump or pumps, effluent filters, electrical control panel, splice box and wiring from control panel to septic tank, wiring from stubbed out electrical service at customer home to control panel (as detailed under Part E of this Rule 6), 4" SCH 40 (or equal) piping from single family residence to septic tank up to a specified linear feet as described under Schedule of Charges for the service area, 1" SCH 40 (or equal) piping from septic tank to main collection systems line up to a specified linear feet as described under Schedule of Charges for the service area, risers and lids, service connection valves and appurtenances, inspections. For a single family residence with four or five bedrooms the Company will install a minimum 1,500 gallon watertight tank and other equipment as noted above. Sizing of tanks and equipment for homes with more than five bedrooms will be handled on a case by case basis. The connection charge listed under Schedule of Charges covers all the above mentioned items in Part C of this Rule 6. The connection charge listed under Schedule of Charges does not include: any surveying to determine actual location of easements or property lines for customer, any electrical service beyond connecting to electrical service connection supplied to the outside of the outside wall of the house in the form of one 30 amp dedicated circuit and one minimum 20 amp circuit that need not be a dedicated circuit (minimum two separate circuits), any plumbing closer than 5' of customer's building.
- Customer shall furnish to the exterior of the house wiring for one 30 amp dedicated circuit and one (D) 20 amp circuit that need not be a dedicated circuit.

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For Service Areas in the State of Missouri

Rules Governing Rendering of Sewer Service

Rule 6. STEP or STEG Systems (Continued)

- (E) The Customer shall furnish a written sketch that approximates the location where the Customer wishes the STEP or STEG tank to be located. Company will endeavor to locate tank in a location as close as practical to the requested location, however, actual final location of the STEP or STEG tank is the sole and exclusive responsibility of the Company. Company shall then install STEP or STEG tank and all related equipment as stated in this rule and shall connect the STEG or STEP tank to the main collection system as applicable and detailed under Schedule of Charges for a particular service area. Application, accompanied by any authorized service line tap fee, must be filed in writing at the Company's business office during normal business hours, six days in advance, stating the street, house number, name of applicant, name of property owner and time at which tap is to be made, and the Company shall not be required to supply sewer service unless these condition are met. One connection shall not service more than one property unless specifically granted by the Company in writing.
- (F) A service connection unit shall be furnished and installed by the Company prior to the connection of the pressure line from a STEP tank to the main collection system. The service connection unit shall include of a check valve and shut off valve.
- (G) In cases of discontinuance of sewer service pursuant to the Company's approved rules, sewer service may be disconnected by the Company by locking the shut off valve in the closed position. Service shall not be resumed again except upon payment of all delinquent charges, plus any applicable approved service charge to cover the costs of effectuating resumption of service.
- (H) The gravity service sewer from the building to the effluent pump unit, the tank, and the pressure service sewer from the pump unit to the collecting sewer shall be owned by the Customer.
- (I) The STEP unit and pressure effluent line from the STEP tank to the main collection line will be maintained by the Company provided Customer allows access to Customer's property for such maintenance. Company may discontinue service to Customer if Customer fails to allow Company access to property for the purposes of performing maintenance on the STEP unit, pressure line from the STEP unit to the main collection line or other general maintenance necessary to provide a safe and efficient collection system.

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For Service Areas in the State of Missouri

Rules Governing Rendering of Sewer Service

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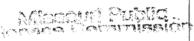
Rule 6. STEP or STEG Systems (Continued)

- (J) The STEG unit and effluent gravity line from the STEG tank to the main collection line will be maintained by the Company provided Customer allows access to Customer's property for such maintenance. Company may discontinue service to Customer if Customer fails to allow Company access to property for the purposes of performing maintenance on the STEG unit, effluent line from the STEG unit to the main collection line or other general maintenance necessary to provide a safe and efficient collection system.
- (K) The Company shall perform two preventive maintenance calls per year on each effluent pump unit in service. Normally, these will be made in the spring and fall seasons. Preventive maintenance shall consist of the following work:
 - 1. Pull and clean liquid level control device,
 - 2. Run controls, including alarm system, through one complete cycle,
 - 3. Check the check valves for proper operation. Clean or replace as necessary,
 - 4. Check, and if necessary, remove solid waste from tank.
- (L) For every 100 pump units in service, the Company shall have on hand two effluent pumps, two effluent pump repair kits, two motors, five liquid level control units, and an adequate supply of check valves. The Company shall have at least one of each of the above items for each brand or type of pump in use.
- (M) The Company shall be responsible for maintenance of the repairable parts, and shall perform emergency repairs on said parts. At the Company's option, an emergency service call may constitute a preventive maintenance call if a reasonable amount of time has elapsed since the last preventive maintenance call, and if all other maintenance checks are performed.
- (N) Preventive maintenance calls, service calls for repairable parts, and repairable parts shall be provided at no extra charge to the Customer for replacement of defective parts or parts of the effluent pump damaged by lightning. The Company, however, shall not be liable for parts or labor necessary due to damage caused by misuse of the pump unit.

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For Service Areas in the State of Missouri



Rules Governing Rendering of Sewer Service

Rule 6. STEP or STEG Systems (Continued)

- (O) The Company shall present to the Customer, at the time of application for service, information regarding what services are available from the Company, and what will be provided free of charge.
- (P) Components of a STEP or STEG unit will meet certain specifications which shall be on file at the Company's office. Company will periodically update these specifications as technology improves.
- (Q) STEG tanks serving a residence or commercial facility that are located on private property must have an easement that allows easy access for the Company to maintain and operate equipment located in the tank. Customer maintains ownership of the STEG tank, however, Company has sole and exclusive rights for maintaining any equipment at, in or related to the STEG tank. Replacement of control panel equipment, effluent filters or other associated parts will be provided by, and only by, the Company.
- (R) STEP tanks serving a residence or commercial facility that are located on private property must have an easement that allows easy access for the Company to maintain and operate equipment located in the tank. Customer maintains ownership of the STEP tank, however, Company has sole and exclusive rights for maintaining any pumps or equipment at, in or related to the STEP tank. Replacement of pumps, control panel equipment, effluent filters or other associated parts will be provided by, and only by, the Company.
- (S) Company may discontinue service to Customer if Customer fails to allow Company access to property for the purposes of performing maintenance on the STEP unit, STEG unit, control panel or other general maintenance necessary to provide a safe and efficient collection system.

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DATE OF ISSUE July 23, 1999

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Name of Officer

DATE EFFECTIVE August 30, 1999

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Y: Mark Geisinger President 205 S. Spartan Drive, Richmond, MO 64085

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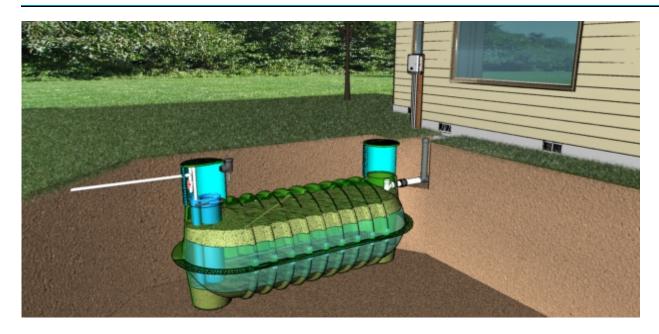
Direct Testimony

James A. Merciel, Jr.

SR-2014-0247

Attachment C

STEP System Product, From Orenco Systems, Inc. Webpage



Pumping Systems

Effluent Pumping Packages from Orenco Systems are a proven, cost-effective solution for transporting effluent in a septic system. All include the patented Biotube filtering pump vault. More than 175,000 of Orenco's filtering pump vaults are in use all over the world.

Pumping Systems

In a pumping system, effluent is pumped from the septic tank to the drainfield or to an additional treatment unit. This allows the drainfield or additional units to be uphill from the tank.

The heart of the system is the filtering pump vault. Thirty years ago, Orenco pioneered and packaged the modern filtering pump vault for onsite wastewater collection and treatment. Today, more than 175,000 of Orenco's filtering pump vaults are in service all over the world.

Orenco's pump vaults include a patented Biotube filter that filters out solids so that only liquid from the tank's "clear zone" (between the tank's scum and sludge layers) is pumped. Our filter has several times the capacity of other filters and removes about two-thirds of suspended solids. This reduces clogging of drainfields or other downstream components — and extends their life.

ProPak® and EasyPak™ pump packages work for most residential onsite applications. All components are designed to work together, simplifying installation and long-term maintenance. Constructed of stainless steel, thermoplastics, and fiberglass, they're corrosion-resistant and durable, reducing lifetime system costs. They also include a control panel that delivers effluent to the drainfield or additional treatment unit in small, even doses all day, improving system performance.



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Direct Testimony

James A. Merciel, Jr.

SR-2014-0247

Attachment D

Canceled Tariff Sheet No. 14, Central Rivers Wastewater Utility, Inc.

P.S.C. MO No. 1

Original Sheet No. 14

Name of Utility: Central Rivers Wastewater Utility, Inc.

For Service Areas in the State of Missouri

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Rules Governing Rendering of Sewer Service
SCHEDULE OF SERVICE CHARGES

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CONNECTION CHARGES:

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Connection charges for STEG and Gravity collection systems will be based on actual costs as allowed by the Missouri Public Service Commission. The cost for a connection charge to a STEG or Gravity flow collection system will be stated in the Company's Tariff when data is obtained to present a reasonably accurate cost.

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BEFORE THE PUBLIC SERVICE COMMISSION

OF THE STATE OF MISSOURI

In the Matter of Central Rivers Utility, Inc.'s Small Company R Request))	Case No. SR-2014-024	17			
A	FFIDAVIT OF JA	AMES A. 1	MERCIEL, JR.				
STATE OF MISSOURI)) ss)						
James A. Merciel, Jr., of lawful age, on his oath states: that he has participated in the preparation of the foregoing Direct Testimony, in question and answer form, consisting of 17 pages and 4 Schedules, to be presented in the above case; that the answers in the foregoing Direct Testimony were given by him, that he has knowledge of the matters set forth in such answers; and that such answers are true to the best of his knowledge and belief. James A. Merciel, Jr.							
Subscribed and sworn to before	ore me this 13 th d	ay of Nove	ember 2013.				

DIANNA L. VAUGHT
Notary Public - Notary Seal
State of Missouri
Commissioned for Cole County
My Commission Expires: June 28, 2015
Commission Number: 11207377

Notary Public ()