FILED September 30, 2019 Data Center Missouri Public Service Commission

9-18-19

BID

Exhibit No.:

Issue:

Witness:

**Sponsoring Parties:** 

Public Water Supply District No. 5 of Camden County, Missouri.

Condition of Cedar Glen

David G. Krehbiel

Water and Sewer Systems

300

Cedar Glen Condominium Owners Association, Inc.

Case Nos.:

Case No. WA-2019-0185 and SA-2019-0186

## PUBLIC WATER SUPPLY DISTRICT NO. 5 OF CAMDEN COUNTY, MISSOURI.

### CEDAR GLEN CONDOMINIUM OWNERS ASSOCIATION, INC.

Case Nos. WA-2019-0185 and SA-2019-0186

# **REBUTTAL TESTIMONY**

OF

DAVID G, KREHBIEL

 $\frac{P \cup S \odot Exhibit No. 30}{Date 9 - 18 - 19} Reporter 358$ File No. 2 + 2 = 2 + 3 = 0 + 8 = 5

Camdenton, Missouri August, 2019

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# BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

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In the matter of the Application of Osage Utility Operating Company, Inc. to Acquire Certain Water and Sewer Assets and for a Certificate of Convenience and Necessity

Case No. WA-2019-0185 and SA-2019-0186

#### **AFFIDAVIT OF DAVID G. KREHBIEL**

STATE OF MISSOURI ) ss. COUNTY OF CAMDEN

I, David G. Krehbiel, of lawful age, and being duly sworn, do hereby depose and state:

1. My name is David G. Krehbiel. I am a consulting engineer for Darren Krehbiel Consultants, LLC.

2. Attached hereto and made a part hereof for all purposes is my rebuttal testimony.

3. I hereby swear and affirm that my answers contained in the attached testimony to the questions therein propounded are true and correct to the best of my personal knowledge, information and belief.

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Subscribed and sworn to before me, a Notary Public, this 12 day of August, 2019.

Unio Jenson My Commission expires: 06-13-2022 Notary Public

KRIS CHRISTENSEN Notary Public - Notary Seal State of Missouri Commissioned for Camden County My Commission Expires: June 13, 2022 Commission Number: 14897333

1		REBUTTAL TESTIMONY
2		OF
3		DAVID G. KREHBIEL
4		CASE NOS. WA-2019-0185; SA-2019-0186
5	Q.	Please state your full name and business address.
6	A.	My name is David G. Krehbiel. My business address is 63 Blair Ave, Camdenton,
7		MO 65020.
8	Q.	Are you the same David G. Krehbiel who filed direct testimony on behalf of
9		Public Water Supply District No. 5 of Camden County ("PWSD#5") and
10		Cedar Glen Condominium Owners Association, Inc. in the case referenced
11		above?
12	Α.	Yes.
13	Q.	What is the purpose of your rebuttal testimony?
14	A.	I will be responding to portions of the direct testimony submitted by Mr. Todd
15		Thomas on behalf of Osage Utility Operating Company, Inc. ("OUOC") and to
16		portions of the direct testimony submitted by Staff witness Natelle Dietrich but at
17		the outset I should correct a mistake about the location of Cedar Glen
18		Condominiums that appears in Mr. Cox's testimony and Mr. Thomas's testimony
19		and perhaps testimony submitted by other witnesses.
20	Q.	Where is Cedar Glen Condominiums located?
21	A.	Mr. Cox and Mr. Thomas both testify that "Cedar Glen is a residential
22		condominium community located in Camdenton, Camden County, Missouri."
23		Cedar Glen is outside the corporate limits of Camdenton, Missouri although its

Rebuttal Testimony of David G. Krehbiel Page 2 of 5

1 postal address is through the Camdenton post office. The condominiums are 2 located in Camden County southwest of the Camdenton city limits. 3 0. On page 15 of his direct testimony, Mr. Thomas describes the condition of the 4 water system assets serving Cedar Glen Condominiums. At page 15, line 20 5 he states that "the water system has 216 customers serving approximately 432 6 people." Do you agree with this statement? 7 A. I agree with the 216 customer figure. I do not agree with his approximation of 432 8 people being served. That figure does not align with DNR's minimum design 9 guidelines which should be observed in this case as the Commission evaluates the 10 status of the Cedar Glen water system and the persons served by those facilities. 11 Additionally, that figure is below what in my opinion would be the more reasonable 12 number of people served. In its Minimum Design Standards for Missouri 13 Community Water Systems, Effective December 10, 2013, DNR directs how per-14 unit occupancy should be computed for compliance with the guidelines: 3.0 15 persons per 2 bedroom unit and 3.7 persons per 3 bedroom unit. Since many of the 16 units at Cedar Glen are utilized for recreational purposes I am of the opinion that 17 the 3.7 persons per unit is a conservative figure. Based on 3.7 persons per unit, I 18 calculate that 800 persons, and probably more, are served by the Cedar Glen water 19 distribution system. Q. At page 15, line 23 and continuing to page 16, again discussing the Cedar Glen

Q. At page 15, line 23 and continuing to page 16, again discussing the Cedar Glen
water system facilities, Mr. Thomas states that per conversations with
Missouri DNR "ground storage capacity needs to be at least 1.5 times the
average daily use." Are you aware of this requirement?

Rebuttal Testimony of David G. Krehbiel Page 3 of 5

- 1 A. No, I am not. This is contrary to my understanding of DNR's published guidelines.
- 2 Paragraph 7.1.2.b of DNR's Minimum Design Standards for Missouri Community
- 3 <u>*Water Systems, Effective December 10, 2013,* provides:</u>

4 Provide ground level finished water storage with nominal 5 capacity equal to or greater than one day's average demand. Duplex or 6 variable speed high service pumps shall be provided with this option. 7 The high service pumps shall have a capacity capable of meeting design 8 instantaneous peak flow and of maintaining a minimum pressure of 35 9 PSIG throughout the service area with the largest pump out of service. 10 Emergency power generation facilities shall be provided to assure that water outages or low water pressures do not occur. Note the volume 11 12 above low level withdrawal pump shut down is counted as nominal 13 capacity. 14

15 Q. On page 17 of his direct testimony Mr. Thomas describes the condition of the 16 sewer system serving Cedar Glen Condominiums. At page 17, line 9 he states 17 that Central States Water Resources "reviewed EPAs Echo website for 18 violations on wastewater facilities" and the Cedar Glen sewer system "had 2 19 of 11 quarters as violations identified on the effluent [Discharge Monitoring 20 Reports]." Have you reviewed this website and any reports about the Cedar 21 Glen sewer system? 22 Yes, I have reviewed the Detailed Facility Report document related to the Cedar Α.

Glen wastewater treatment facility. The two quarters that Mr. Thomas references are the 4<sup>th</sup> quarter in 2016 and the 2<sup>nd</sup> quarter in 2017. For the following seven consecutive quarters (21 months), the report notes "No Violations Identified." To me this means that a high quality of maintenance is being performed on these facilities. Rebuttal Testimony of David G. Krehbiel Page 4 of 5

1	Q.	One of Mr. Thomas's proposed additions to the Cedar Glen wastewater
2		treatment facilities is the installation of a Moving Bed Biofilm Reactor
3		(MBBR) for nutrient pollutant removal capability. Do you agree that a MBBR
4		should be installed?
- 5	· ·- ·A,	I do not agree. I am of the opinion that the Cedar Glen recirculating sand filter
6		wastewater treatment facility has the capability to meet the permit limits without
7		the installation of a MBBR.
8	Q.	In her direct testimony Ms. Natelle Dietrich sponsors the Staff Memorandum
9		of May 24, 2019. Have you reviewed number 12 and number 13 of Staff's
10		conditions for approval of the application which are found at page 17 out of 39
11		of the Staff Memorandum attached to her testimony (Confidential Schedule
12		ND-d2)?
13	A.	Yes, I have. Number 12 requires OUOC to complete repairs to resolve bypassing
14		of treatment at any wastewater treatment system within 90 days. Number 13
15		requires OUOC to resolve all issues related to noncompliance with DNR
16		regulations but prescribes no time limit. Because Staff would require OUOC to
17		file a general rate case in 24 months as provided in condition number 17 on page
18		18 of 39 of the Memorandum, I am supposing that Staff expects noncompliance
19		issues will be resolved within 24 months.
20	Q.	With respect to the Cedar Glen water and sewer systems, would PWSD#5 be
21		able to meet such conditions if it were to acquire those facilities.
22	A.	Absolutely. First there is no bypassing of treatment of wastewater at Cedar Glen
23		so condition number 12 is not applicable. Mr. Stone's recommended repairs and

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Rebuttal Testimony of David G. Krehbiel Page 5 of 5

- improvements to the Cedar Glen water and sewer systems as outlined in his
   testimony can be made within a twenty-four month interval if not sooner. The
   interconnection of the District's water system with Cedar Glen's water system may
   require more time but in the interim the facilities can still meet DNR requirements.
   **Q.** Does this conclude your rebuttal testimony?
- 6 A. Yes.

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