



NORTH CAROLINA PUBLIC STAFF UTILITIES COMMISSION

September 19, 2023

Ms. A. Shonta Dunston, Chief Clerk North Carolina Utilities Commission 4325 Mail Service Center Raleigh, North Carolina 27699-4300

Re: Docket Nos. W-1146, Sub 13 and W-1328, Sub 10 – Application by Red Bird Utility Operating Company, LLC, for Authority to Transfer the Lake Royale Subdivision Water and Wastewater Utility Systems and Public Utility Franchise in Franklin and Nash Counties, North Carolina, and for Approval of Rates

Dear Ms. Dunston,

Attached for filing on behalf of the Public Staff in the above-referenced dockets is the <u>public</u> version of the testimony of Lynn Feasel.

By copy of this letter, I am forwarding a copy of the redacted version to all parties of record by electronic delivery.

Sincerely,

<u>Electronically submitted</u> /s/ Megan Jost Staff Attorney <u>megan.jost@psncuc.nc.gov</u>

cc: Parties of Record

Executive Director (919) 733-2435 Accounting (919) 733-4279 Consumer Services (919) 733-9277 Economic Research (919) 733-2267

Energy (919) 733-2267 Legal (919) 733-6110 Transportation (919) 733-7766

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CERTIFICATE OF SERVICE

I certify that a copy of this Public Staff testimony and exhibits have been served on all parties of record or their attorneys, or both, in accordance with Commission Rule R1-39, by United States mail, first class or better; by hand delivery; or by means of facsimile or electronic delivery upon agreement of the receiving party.

This the 19th day of September, 2023.

<u>Electronically submitted</u> /s/Megan Jost Staff Attorney

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

DOCKET NO. W-1146, SUB 13

DOCKET NO. W-1328, SUB 10

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In the Matter of Application by Red Bird Utility Operating Company, LLC, 1650 Des Peres Road, Suite 303, St. Louis, Missouri 63131, and Total Environmental Solutions, Inc., P.O. Box 14059, Baton Rouge, LA 70898, for Authority to Transfer the Lake Royale Subdivision Water and Wastewater Utility Systems and Public Utility Franchise in Franklin and Nash Counties, North Carolina, and for Approval of Rates

TESTIMONY OF LYNN FEASEL PUBLIC STAFF – NORTH CAROLINA UTILITIES COMMISSION

September 19, 2023

- Q. Please state your name, business address, and present
 position.
- A. My name is Lynn Feasel. My business address is 430 North
 Salisbury Street, Dobbs Building, Raleigh, North Carolina. I am the
 Public Utilities Regulatory Supervisor of the Water, Sewer, and
 Telecommunications Sections with the Accounting Division of the
 Public Staff North Carolina Utilities Commission (Public Staff).

8 Q. Briefly state your qualifications and experience.

9 A. My qualifications and experience are included in Appendix A.

10 Q. What is the purpose of your testimony?

11 Α. The purpose of my testimony in this proceeding is to present the 12 results of my investigation of the application filed by Total 13 Environmental Solutions, Inc. (TESI), and Red Bird Utility Operating 14 Company, LLC (Red Bird), for authority to transfer the water and 15 wastewater systems and public utility franchise serving Lake Royale 16 Subdivision (Lake Royale) in Franklin and Nash Counties from TESI 17 to Red Bird and approval of rates. Specifically, I discuss (1) my 18 calculation of original cost rate base for the TESI systems; (2) my 19 calculation of the acquisition adjustment Red Bird seeks to include in 20 rate base; (3) my calculation of the amounts for future improvements 21 and due diligence expenses; and (4) the estimated revenue

- requirements associated with the proposed acquisition adjustment,
 due diligence expenses, and future improvements.
- In his testimony, Public Staff witness Evan Houser discusses
 anticipated increases in water and wastewater base rates that would
 result from the revenue requirements I calculated, as well as the
 Public Staff's recommendation regarding the proposed transfer.

7 Q. Would you briefly describe the presentation of your testimony 8 and exhibits?

9 Α. Yes. My testimony discusses each issue identified through my 10 investigation, and my exhibits consist of schedules detailing the 11 calculation of rate base, net operating income, return, and revenue 12 requirement based on the Public Staff recommendations described 13 later in my testimony. Schedules 1(a) and 1(b) represent the return 14 calculated for water and wastewater operations, respectively; 15 Schedule 2 and its associated sub schedules represent the rate base 16 calculated for water and wastewater operations; Schedule 3 and its 17 associated sub schedules, represent the net operating income 18 calculated for water and wastewater operations. Revenue 19 requirements for water and wastewater are also contained in 20 Schedule 3 and its associated sub schedules.

Q. Please explain your calculation of original cost rate base and
 how it compares the amount calculated by Red Bird.

3 Α. In order to calculate original cost rate base, I first reviewed the net 4 book value approved in the proceedings regarding TESI's application 5 for a Certificate for Public Convenience and Necessity and the most 6 recent rate case and updated the accumulated depreciation with the 7 approved rates through December 31, 2023. I then included 8 additional plant added since the last rate case for which supporting documentation was provided, additional contributions in aid of 9 10 construction (CIAC) the Company received in 2022 as 11 recommended by Public Staff witness Houser, and updated 12 accumulated depreciation through December 31, 2023, utilizing the 13 depreciation rates recommended by witness Houser. Based on this 14 calculation, the Public Staff's recommended original cost rate base 15 is \$148,398 for water and \$18,908 for wastewater. My calculations are shown in Feasel Exhibit 1. 16

On page 24, lines 15-17 of his direct testimony, Red Bird witness Josiah Cox states that, based on Red Bird's audit team's review of TESI's supporting documentation and the Company's understanding of the Public Staff's valuation of the assets, Red Bird believes residual rate base in the TESI utility assets is \$271,502. The Company's valuation of \$271,502 differs from my valuation of \$167,306 because, unlike the Company, I removed plant additions
 for which supporting documentation was not provided and I included
 additional CIAC received in 2022. My calculations are shown in
 Feasel Exhibit 1.

Q. Please explain your calculations of the acquisition adjustment and due diligence expenses Red Bird seeks to recover.

7 Α. As discussed above, the Public Staff's calculation of the original cost 8 rate base is \$148,398 for water and \$18,908 for wastewater. Based 9 on the 72/28 split of the purchase price between the water system 10 and wastewater system, respectively, provided by Red Bird, I 11 calculated the purchase price for the water system to be [BEGIN 12 CONFIDENTIAL] [END CONFIDENTIAL] and the 13 purchase price for the wastewater system to be [BEGIN 14 CONFIDENTIAL] [END CONFIDENTIAL], resulting in 15 acquisition adjustments of [BEGIN CONFIDENTIAL] [END 16 CONFIDENTIAL] for the water and [BEGIN system 17 CONFIDENTIAL] [END CONFIDENTIAL] for the 18 wastewater system. The associated accumulated amortization of the 19 acquisition adjustment is [BEGIN CONFIDENTIAL] [END 20 CONFIDENTIAL] for the water [BEGIN system and 21 [END CONFIDENTIAL] for the wastewater CONFIDENTIAL] 22 system. My calculations are shown in Confidential Feasel Exhibits I TESTIMONY OF LYNN FEASEL Page 5

- 1 and III. A comparison of the Public Staff's and Red Bird's acquisition
- 2 adjustment calculations is shown in below:

[BEGIN CONFIDENTIAL]

	Red Bird	Public Staff			
	Combined	Water	Wastewater		
Purchase Price					
Original Cost Rate Base					
Acquisition Adjustment, before accumulated amortization					

3 [END CONFIDENTIAL]

4 In regard to the due diligence expenses, the Public Staff changed 5 two expenses to the amounts shown on invoices provided by the 6 Company and removed expenses for which the Company was 7 unable to provide supporting invoices. Based on this analysis, the 8 Public Staff calculated the total due diligence expense incurred by 9 Red Bird to be [BEGIN CONFIDENTIAL] [END 10 CONFIDENTIAL] system for the water and [BEGIN 11 [END CONFIDENTIAL] for the wastewater CONFIDENTIAL] 12 system. The accumulated amortization of due diligence is [BEGIN

1 **CONFIDENTIAL]** [END CONFIDENTIAL] for the water 2 system and [BEGIN CONFIDENTIAL] [END CONFIDENTIAL] 3 for the wastewater system, calculated based on the transaction 4 commencing in 2021.

5 Q. Have you calculated the estimated revenue requirements
6 associated with the acquisition adjustment and due diligence
7 expenses?

- A. Yes. If the acquisition adjustment as calculated by the Public Staff is
 included in rate base, the estimated revenue requirement is \$10,592
 for the water system and \$9,702 for the wastewater system.
- 11 If the due diligence expenses recommended by the Public Staff are
- 12 included in rate base, the estimated revenue requirement is \$26,821
- 13 for the water system and \$25 for the wastewater system. My
- 14 calculations are shown in Feasel Exhibits I and III.
- The Public Staff utilized a composite depreciation rate to calculate
 the estimated revenue requirement for both the acquisition
 adjustment and due diligence expenses.
- 18 Q. Have you calculated the estimated revenue requirement
 19 associated with future improvements to the TESI systems?

- A. Yes. McGill Associates, the engineering firm Red Bird engaged to
 assess the TESI systems, estimated the necessary future capital
 investment to be \$235,000 for the water production systems and
 \$457,900 for wastewater systems.
- 5 Based on these estimates, the revenue requirement associated with 6 future improvements to the water system would be \$33,302, and the 7 revenue requirement associated with future improvements to the 8 wastewater system would be \$82,188. My calculations are shown in 9 Feasel Exhibit II.

10 Q. DOES THIS CONCLUDE YOUR TESTIMONY?

11 A. Yes, it does.

APPENDIX A

Sep 19 2023

QUALIFICATIONS AND EXPERIENCE

LYNN FEASEL

I am a graduate of Baldwin Wallace University with a Master of Business Administration degree in Accounting. I am a Certified Public Accountant licensed in the State of North Carolina. Prior to joining the Public Staff, I was employed by Franklin International in Columbus, Ohio until June 2013. Additionally, I worked for ABB Inc. from September 2013 until October 2016. I joined the Public Staff as a Staff Accountant in November 2016, and I was promoted to Financial Manager in July 2022. Since joining the Public Staff, I have worked on rate cases involving water and sewer and natural gas companies, filed testimony and affidavits in various general rate cases, calculated quarterly earnings for Carolina Water Service, Inc. of North Carolina and Aqua North Carolina, Inc., calculated quarterly earnings for various natural gas companies, calculated refunds to consumers from AH4R and Progress Residential, and reviewed new franchise, transfer, and contiguous extension filings for multiple water and sewer companies. Total Environmental Solutions, Inc. Docket No. W-1146, Sub 13 ORIGINAL COST RATE BASE

Combined Water and Sewer Operation

Line No.	ltem	Per <u>W-1146 Sub 1 and Sub 3</u> (a)	W-1146 Sub 13 Public Staff Adjustments (b)	After Public Staff Adjustments [1] (c)
1.	Plant in service	\$381,972	\$212,355	\$594,327
2.	Accumulated depreciation	(44,714)	(362,598)	(407,312)
3.	Contributions in aid of construction, net of amortization	(20,101)	391	(19,710)
4.	Net plant in service	317,157	(149,851)	167,306
5.	Unamortized rate case costs, net pf taxes	42,817	(42,817)	0
6.	Unamortized acquisition costs, net pf taxes	58,527	(58,527)	0
7.	Cash working capital	35,939	(35,939)	0
8.	Average tax accruals	(4,905)	4,905	0_
9.	Original cost rate base	\$449,535	(\$282,229)	\$167,306

[1] Feasel Exhibit 1, Schedule 2 (a) plus Schedule 2 (b)

Public Staff Feasel Exhibit 1 Schedule 2

W-1146 Sub 13

Total Environmental Solutions, Inc.
Docket No. W-1146, Sub 13
ORIGINAL COST RATE BASE

Water Operation

				W-1146 Sub 13
Line No.	ltem	Per <u>W-1146 Sub 1</u> (a)	W-1146 Sub 13 Public Staff Adjustments [1] (b)	After Public Staff Adjustments (c)
1.	Plant in service	\$289,329	\$186,412	\$475,741 [2]
2.	Accumulated depreciation	(30,203)	(277,430)	(307,633) [2]
3.	Contributions in aid of construc ion, net of amortiza ion	(20,101)	391	(19,710)
4.	Net plant in service (Sum line	239,025	(90,627)	148,398
5.	Unamortized rate case costs, net pf taxes	42,817	(42,817)	0
6.	Unamortized acquisition costs, net pf taxes	58,527	(58,527)	0
7.	Cash working capital	27,856	(27,856)	0
8.	Average tax accruals	(4,895)	4,895	0
9.	Original cost rate base	\$363,330	(\$214,932)	\$148,398

[1] [2] Column (c) minus Column (a) Feasel Exhibit 1, Schedule 2-1

Public Staff Feasel Exhibit 1 Schedule 2(a)

Sewer Operation

	Gewel Operation		W-1146 Sub 13	W-1146 Sub 13 After
Line No.	ltem	Per <u>W-1146 Sub 3</u> (a)	Public Staff Adjustments [1] (b)	Public Staff Adjustments (c)
1.	Plant in service	\$92,643	\$25,944	\$118,587 [2]
2.	Accumulated depreciation	(14,511)	(85,168)	(99,679) [2]
3.	Contributions in aid of construction, net of amortization	0	0_	0
4.	Net plant in service	78,132	(59,224)	18,908
5.	Cash working capital	8,083	(8,083)	0
6.	Average tax accruals	(10)	10	0
7.	Original cost rate base	\$86,205	(\$67,297)	\$18,908

Column (c) minus Column (a) Feasel Exhibit 1, Schedule 2-1 [1] [2]

Public Staff Feasel Exhibit 1 Schedule 2(b)

Public Staff Feasel Exhibit 1 Schedule 2-1

Total Environmental Solutions, Inc.
Docket No. W-1146, Sub 13
CALCULATION OF PLANT IN SERVICE, ACCUMULATED DEPRECIATION,
AND DEPRECIATION EXPENSE

Line No.	ltem	Plant In Service Per <u>Public Staff</u> (a)	CIAC (b)	Depreciable Plant In Service (c)	Year Placed In Service (d)		Life (e)		Years in Service (f)	Annual _ [2] <u>Depreciation [</u> 3] (g)	Accumulated <u>Depreciation [</u> 4 (h)]
	Per Sub 1 rate case Proceeding-Water:											
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	Miscellaneous materials and supplies Engineering costs Travel and meals 22 Taps 50 Taps 65 Taps 7 Blowoffs Meters Meters Vehicle Meters	\$1,072 [1] 4,883 [1] 1,120 [1] 6,560 [1] 14,909 [1] 19,382 [1] 36,100 [1] 11,5,420 [1] 2,500 [1]		\$1,072 \$4,883 \$1,120 \$6,560 \$14,909 \$19,382 \$1,883 \$36,100 \$115,420 \$2,500 \$85,500	1994 1994 1993 1994 1995 1995 1995 1999 2000 2000 2000	[1] [1] [1] [1] [1] [1] [1] [1] [1]	25 25 25 25 25 25 25 15 15 3 15	[1] [1] [1] [1] [1] [1] [1] [1] [1]	29.5 29.5 30.5 29.5 28.5 28.5 28.5 24.5 23.5 23.5 23.5 22.5	0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 1,072\\ 4,883\\ 1,120\\ 6,560\\ 14,909\\ 19,382\\ 1,883\\ 36,100\\ 115,420\\ 2,500\\ 85,500 \end{array}$	water water water water water water water water water water water water water
	Per Sub 3 CPCN Proceeding-Sewer:											
12. 13. 14. 15. 16. 17. 18. 19. 20. 21.	pumping equipment-lift station pumping equipment-lift station treatment and disposal equipment tools shop and garage equipment laboratory equipment laboratory equipment power operated equipment purchase price franchise cost	\$33,384 [1] \$1,337 [1] \$4,423 [1] \$646 [1] \$390 [1] 1,805 [1] 821 [1] 1,844 [1] 28,031 [1] 19,962 [1]		\$33,384 \$1,337 \$4,423 \$646 \$390 \$1,805 \$821 \$1,844 \$28,031 \$19,962	2001 2004 2003 2004 2001 2002 2004 2001 2000 2005	(1) [1] [1] [1] [1] [1] [1] [1] [1]	20 20 6 10 6 5 25 25 25	[1] [1] [1] [1] [1] [1] [1] [1]	22.5 19.5 20.5 19.5 22.5 21.5 19.5 22.5 23.5 18.5	0 67 0 0 0 0 0 0 1,121 798	33,384 1,304 4,423 646 390 1,805 821 1,844 26,349 14,772	sewer sewer sewer sewer sewer sewer sewer sewer sewer
22. 23.	total plant additions since W 1146 Sub 1-water total plant additions since W 1146 Sub 3-sewer	186,412 [5] 25,944 [5]		\$186,412 <mark>\$25,944</mark>	various <mark>various</mark>				various <mark>various</mark>	12,427 2,965	18,304 [5 13,941 [5	i] water i] sewer
24. 25.	total CIAC additions since W 1146 Sub 1-water Total Plant in Service (Sum line 1 thru line 24)	\$594,327	(21,900) (\$21,900)	,	2022	[5]	15		1.5	(1,460) \$15,919	(2,190) \$405,122	

Based on last general rate case, Docket No. W-1146, Sub 1 and W-1146, Sub 3.
 Based on year placed in service using half year convention.
 Column (c) divided by Column (e), unless fully depreciated.
 Column (f) x Column (g), unless fully depreciated.
 Per examination of the Company's financial record.

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CONFIDENTIAL

Docket No. W-1146, Sub 13

and

Docket No. W-1328, Sub 10

Public Staff Confidential Feasel Exhibit I

Sep 19 2023 OFFICIAL COPY

Total Environmental Solutions, Inc. (TESI) Docket No. W-1146, Sub 13

RETURN ON ORIGINAL COST RATE BASE

TESI - Water Operations

Line No.	ltem	Capital- ization <u>Ratio</u> [1] (a)	Original Cost Rate Base (b)	Embedded Cost (c)	Overall Cost Rate [7] (d)	Net Operating Income (e)
1. 2. 3.	<u>Present rates:</u> Debt Equity Total	50.00% 50.00% 100.00%	\$110,125 [2] 110,125 [2] \$220,250 [3]	4.60% [1] -17.99% [6]	2.30% -9.00% -6.70%	\$5,066 [8] (19,816) [9] (\$14,750) [10]
4. 5. 6.	<u>Company proposed rates:</u> Debt Equity Total	50.00% 50.00% 100.00%	\$110,125 [4] 110,125 [4] \$220,250 [3]	4.60% [1] -17.99% [6]	2.30% -9.00% -6.70%	\$5,066 [8] (19,816) [11] (\$14,750) [12]
7. 8. 9.	<u>Public Staff recommended rates:</u> Debt Equity Total	50.00% 50.00% 100.00%	\$110,125 [5] <u>110,125 [5]</u> <u>\$220,250 [</u> 3]	4.60% [1] 9.40% [6]	2.30% 4.70% 7.00%	\$5,066 [8] <u>10,352 [</u> 13] <u>\$15,418</u> [14]

[1] Per Public Staff recommendation

[2] Column (a) x Line 3, Column (b).

[3] Public Staff Exhibit II, Schedule 2(a), Line 7, Column (c).

[4] Column (a) x Line 6, Column (b).

[5] Colummn (a) x Line 9, Column (b).

[6] Column (e) divided by Column (b).

[7] Column (a) x Column (c).

- [8] Column (b) x Column (c).
- [9] Line 3 Line 1, Column (e).
- [10] Public Staff Exhibit II, Schedule 3(a), Line 28, Column (c).
- [11] Line 6 Line 4, Column (e).
- [12] Public Staff Exhibit II, Schedule 3(a), Line 28, Column (e).
- [13] Line 9 Line 7, Column (e).
- [14] Column (b) x Column (d), Line 9.

Public Staff Feasel Exhibit II Schedule 1(a)

Total Environmental Solutions, Inc. (TESI) Docket No. W-1146 Sub 13 RETURN ON ORIGINAL COST RATE BASE

TESI - Sewer Operations

Line No.	ltem	Capital- ization <u>Ratio</u> [1] (a)	Original Cost Rate Base (b)	Embedded Cost (c)	Overall Cost <u>Rate</u> [7] (d)	Net Operating Income (e)
1. 2. 3.	<u>Present rates:</u> Debt Equity Total	50.00% 50.00% 100.00%	\$205,150 [2] 205,150 [2] \$410,300 [3]	4.60% [1] -27.80% [6] _	2.30% -13.90% -11.60%	\$9,437 [8] (57,037) [9] (\$47,600) [10]
4. 5. 6.	<u>Company proposed rates:</u> Debt Equity Total	50.00% 50.00% 100.00%	\$205,150 [4] 05,150 [4] \$410,300 [3]	4.60% [1] -27.80% [6]	2.30% -13.90% -11.60%	\$9,437 [8] (57,037) [11] (\$47,600) [12]
7. 8. 9.	<u>Public Staff recommended rates:</u> Debt Equity Total	50.00% 50.00% 100.00%	\$205,150 [5] 205,150 [5] \$410,300 [3]	4.60% [1] 9.40% [6]	2.30% 4.70% 7.00%	\$9,437 [8] 19,284 [13] <u>\$28,721 [</u> 14]

[1] Per Public Staff recommendation

[2] Column (a) x Line 3, Column (b).

[3] Public Staff Exhibit II, Schedule 2(b), Line 7, Column (c).

[4] Column (a) x Line 6, Column (b).

[5] Column (a) x Line 9, Column (b).

[6] Column (e) divided by Column (b).

[7] Column (a) x Column (c).

[8] Column (b) x Column (c).

[9] Line 3 - Line 1, Column (e).

[10] Public Staff Exhibit II, Schedule 3(b), Line 30, Column (c).

- [11] Line 6 Line 4, Column (e).
- [12] Public Staff Exhibit II, Schedule 3(b), Line 30, Column (e).
- [13] Line 9 Line 7, Column (e).

[14] Column (b) x Column (d), Line 9.

Public Staff Feasel Exhibit II Schedule 1(b)

Total Environmental Solutions, Inc. (TESI) Docket No. W-1146 Sub 13 ORIGINAL COST RATE BASE

Public Staff Feasel Exhibit II Schedule 2

Water and Sewer Combined

Line No.	ltem	Per <u>W-1146 Sub 13 [</u> 1] (a)	Public Staff Adjustments [2] (b)	After Public Staff Adjustments [3] (c)
1.	Plant in service	\$0	\$0	\$0
2.	Accumulated depreciation	0	0	0
3.	Contributions in aid of construction	0	0	0
4.	Future Improvement	692,900	630,550	630,550
5.	Cash working capital	0	0	0
6.	Average tax accruals	0_	0	0
7.	Original cost rate base (Sum of L1 thru L6)	\$692,900	\$630,550	\$630,550

[1] Public Staff Exhibit II, Schedule 2(a) plus 2(b), Column (a).

[2] Public Staff Exhibit II, Schedule 2(a) plus 2(b), Column (b).

[3] Public Staff Exhibit II, Schedule 2(a) plus 2(b), Column (c).

TESI - Water Operations

Line No.	ltem	Per <u>W-1146 Sub 13</u> (a)	Public Staff Adjustments [1] (b)	After Public Staff Adjustments (c)
1.	Plant in service		\$0	\$0
2.	Accumulated depreciation		0	0
3.	Contributions in aid of construction		0	0
4.	Future Improvement	235,000	(14,750)	220,250 [2]
5.	Cash working capital		0	0
6.	Average tax accruals		0	0
7.	Original cost rate base (Sum of L1 thru L6)	\$235,000	(\$14,750)	\$220,250

Column (c) minus Column (a).
 Public Staff Exhibit II, Schedule 2-1(a), Column (a) plus Column (f).

Total Environmental Solutions, Inc. (TESI) Docket No. W-1146 Sub 13 ORIGINAL COST RATE BASE

Public Staff Feasel Exhibit II Schedule 2(b)

TESI - Sewer Operations

Line No.	<u>Item</u>	Per <u>W-1146 Sub 13</u> (a)	Public Staff <u>Adjustments</u> [1] (b)	After Public Staff Adjustments (c)
1.	Plant in service		\$0	\$0
2.	Accumulated depreciation		0	0
3.	Contributions in aid of construction		0	0
4.	Future Improvement	457,900	(47,600)	410,300 [2]
5.	Cash working capital		0	0
6.	Average tax accruals		0	0
7.	Original cost rate base (Sum of L1 thru L6)	\$457,900	(\$47,600)	\$410,300

[1] Column (c) minus Column (a).

[2] Public Staff Exhibit II, Schedule 2-1(b), Column (a) plus Column (f).

Total Environmental Solutions, Inc. (TESI) Docket No. W-1146 Sub 13

Public Staff Feasel Exh bit II Schedule 2-1(a)

CALCULATION OF PLANT IN SERVICE, ACCUMULATED DEPRECIATION AND DEPRECIATION EXPENSE

TESI - Water Operations

Line <u>No.</u>	ltem	Plant <u>In Service</u> [1] (a)	Year <u>Acquired</u> [1] (b)	Life (c)	Years [2] <u>In Service</u> (d)	Annual [3] <u>Depreciation [</u> 4] (e)	Accumulated Depreciation [5] (f)
1.	Demolish Existing Elevated Storage Tank	\$55,000	2024	20	1	\$2,750	(\$2,750)
2.	Install New Booster Pump Station with Backup Generator	180,000	2024	15	1	12,000	(12,000)
3.	Total future improvement (L1 + L2)	\$235,000				\$14,750	(\$14,750)

[1] Per examination of Company's financial records.

[2] Provided by Public Staff Engineer Houser.[3] Calculated based on year placed in service using half year convention.

[4] Column (a) divided by Column (c), unless fully depreciated.

[5] Column (d) multiplied by Column (e), unless fully depreciated.

Public Staff

Feasel Exh bit II

Schedule 2-1(b)

Sep 19 2023

Total Environmental Solutions, Inc. (TESI) Docket No. W-1146 Sub 13

CALCULATION OF PLANT IN SERVICE, ACCUMULATED DEPRECIATION AND DEPRECIATION EXPENSE

TESI - Sewer Operations

Line No.	ltem	Plant In Service [1] (a)	Year Acquired (b)	Depreciation [1] <u>Life In Years [2]</u> (c)	Years In Service (d)	Annual [3] <u>Depreciation</u> [4] (e)	Accumulated Depreciation [5] (f)
1.	duplex pumps and related equipment LS1	\$100,000	2024	7	1	\$14,286	(\$14,286)
2.	transfer switch	7,100	2024	15	1	473	(473)
3.	Portable Generator	36,600	2024	15	1	2,440	(2,440)
4.	Telemetry System	20,000	2024	15	1	1,333	(1,333)
5.	Rehabilitate Wet Well	20,000	2024	20	1	1,000	(1,000)
6.	Demolish Wet Well	8,000	2024	20	1	400	(400)
7.	new Simplex Pumps and related equipment LS9	25,000	2024	7	1	3,571	(3,571)
8.	Demolish existing holding tank and reroute to new wet well	5,000	2024	20	1	250	(250)
9.	Replace ARVs	37,500	2024	10	1	3,750	(3,750)
10.	Rehabilitate two Aeration Chambers and replace piping difusers	30,000	2024	20	1	1,500	(1,500)
11.	Rehabilitate two settling tanks	25,000	2024	20	1	1,250	(1,250)
12.	Rehabilitate Digester and Replace Piping/Diffusers	15,000	2024	20	1	750	(750)
13.	Replace Sand Media in Tertiary Filters	12,000	2024	5	1	2,400	(2,400)
14.	Replace and Reroute Plant Piping	15,000	2024	20	1	750	(750)
15.	100 CFM Blowers, Motors and Control Panel	50,000	2024	5	1	10,000	(10,000)
16.	Install New Permanent Backup Generator and Automatic Transfer Switch	51,700	2024	15	1	3,447	(3,447)
17.	Total future improvement (Sum L1 thru L16)	\$457,900				\$47,600	(\$47,600)

Per examination of Company's financial records.
 Provided by Public Staff Engineer Houser.

[3] Calculated based on year placed in service using half year convention.

[4] Column (a) divided by Column (c), unless fully depreciated.

[5] Column (d) multiplied by Column (e), unless fully depreciated.

Total Environmental Solutions, Inc. (TESI) Docket No. W-1146 Sub 13

NET OPERATING INCOME FOR A RETURN

Public Staff Feasel Exhibit II Schedule 3

	Water and Sewer Combined		Present Rates		Company Pro	posed Rates	Public Recommen	
		Amount	Public	Per	Net	Operations	Net Public	Operations
Line		Per	Staff	Public	Company	After Rate	Staff	After Rate
No.	Item	Application	Adjustments	Staff [1]	Increase	Increase [2]	Decrease	Decrease [3]
		(a)	(b)	(c)	(d)	(e)	(f)	(g)
	Operating Revenues							
1.	Service revenues	\$0	\$0	\$0	\$0	\$0	\$115,490	\$115,490
2.	Miscellaneous revenues	0	0	0	0	0	0	0
3.	Uncollectible accounts	0	0	0	0	0	0	0
4.	Total operating revenues	0	0	0	0	0	115,490	115,490
	Operating Expenses							
5.	Loss from disposal of equipment	0	0	0	0	0	0	0
6.	Salaries expense	0	0	0	0	0	0	0
7.	Administrative and office expense	0	0	0	0	0	0	0
8.	Purchased power	0	0	0	0	0	0	0
9.	Chemicals	0	0	0	0	0	0	0
10.	Testing	0	0	0	0	0	0	0
11.	Maintenance and repair	0	0	0	0	0	0	0
12.	Permit fees	0	0	0	0	0	0	0
13.	Insurance expense	0	0	0	0	0	0	0
14.	Contract management	0	0	0	0	0	0	0
15.	Other expenses - bank & late charges	0	0	0	0	0	0	0
16.	Legal fees	0	0	0	0	0	0	0
17.	Bad debts expense	0	0	0		0		0
18.	Sludge removal							
19.	Rate case expense							
20.	Total operating expenses	0	0	0	0	0	0	0
	Depreciation and Taxes							
21.	Depreciation	0	62,350	62,350	0	62,350	0	62,350
22.	Property tax	0	0	0	0	0	0	0
23.	Payroll tax	0	0	0	0	0	0	0
24.	Regulatory fee - other taxes	0	0	0	0	0	162	162
25.	Gross receipts tax	0	0	0	0	0	0	0
26.	State income tax	0	0	0	0	0	962	962
27.	Federal income tax	0	0	0	0	0	7,878	7,878
28.	Total depreciation and taxes	0	62,350	62,350	0	62,350	9,002	71,352
29.	Total operating revenue deductions	0	62,350	62,350	0	62,350	9,002	71,352
30.	Net operating income for return	\$0	(\$62,350)	(\$62,350)	\$0	(\$62,350)	\$106,488	\$44,138

Public Staff Exhibit II, Schedule 3(a) plus Schedule 3(b), Column (c).
 Public Staff Exhibit II, Schedule 3(a) plus Schedule 3(b), Column (e).
 Public Staff Exhibit II, Schedule 3(a) plus Schedule 3(b), Column (g).

Total Environmental Solutions, Inc. (TESI)

Docket No. W-1146 Sub 13

NET OPERATING INCOME FOR A RETURN

Public Staff Feasel Exhibit II Schedule 3(a) Page 1 of 2

	TESI - Water Operations	Present Rates			Company Propo	sed Rates	Public Staff Recommended Rates		
		Amount	Public	Per	Net	Operations	Net Public	Operations	
Line		Per	Staff	Public	Company	After Rate	Staff	After Rate	
No.	ltem	Application	Adjustments [1]	Staff [2]	Increase [4]	Increase [5]	Increase [6]	Increase [7]	
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	
	Operating Revenues:								
1.	Service revenues		\$0		\$0		\$33,302	\$33,302 [8]	
2.	Miscellaneous revenues		0		0		0	0	
3.	Uncollectible accounts	0	0	0	0	0	0	0	
4.	Total operating revenues (Sum of L1 thru L3)	0	0	0	0	0	33,302	33,302	
	Operating Expenses:								
5.	Salaries and wages		0		0	0	0	0	
6.	Contractor operator - labor		0		0	0	0	0	
7.	Administrative and office expense		0		0	0	0	0	
8.	Sludge removal & treatment		0		0	0	0	0	
9.	Maintenance and repair		0		0	0	0	0	
10.	Transportation		0		0	0	0	0	
11.	Electric power		0		0	0	0	0	
12.	Testing		0		0	0	0	0	
13.	Chemicals		0		0	0	0	0	
14.	Permit and license		0		0	0	0	0	
15.	Rate case expense		0		0	0	0	0	
16.	Office rent		0		0	0	0	0	
17.	Insurance		0		0	0	0	0	
18.	Total operating expenses (Sum of L5 thru L17)	0	0	0	0	0	0	0	
	Depreciation and Taxes:								
19.	Depreciation		14,750	14,750 [3]	0	14,750 [3]	0	14,750 [3]	
20.	Property taxes		0	,	0	0	0	0	
21	Payroll taxes		0		0	0	0	0	
22.	Regulatory fee - other taxes		0		0	0	47	47 [9]	
23.	Gross receipts tax		0		0	0	0	0	
24.	State income tax		0		0	0	336	336 [10]	
25.	Federal income tax		0		0	0	2,752	2,752 [11]	
26.	Total depreciation and taxes (Sum of L19 thru L25)	0	14,750	14,750	0	14,750	3,135	17,885	
27.	Total operating revenue deductions (L18+L26)	0	14,750	14,750	0	14,750	3,135	17,885	
28	Net operating income for return (L4-L27)	\$0	(\$14,750)	(\$14,750)	\$0	(\$14,750)	\$30,167	\$15,417	

Total Environmental Solutions, Inc. (TESI) Docket No. W-1146 Sub 13 FOOTNOTES TO SCHEDULE 3(a)

Public Staff Feasel Exhibit II Schedule 3(a) Page 2 of 2

TESI - Water Operations

- [1] Column (c) minus Column (a), unless otherwise footnoted.
- [2] Column (a) plus Column (b), unless otherwise footnoted.
- [3] Public Staff Exhibit II, Schedule 2-1(a), Column (e), Line 3.
- [4] Column (e) minus Column (c), unless otherwise footnoted.
- [5] Column (c) plus Column (d), unless otherwise footnoted.
- [6] Column (g) minus Column (c), unless otherwise footnoted.
- [7] Column (c) plus Column (f), unless otherwise footnoted.
- [8] Revenue requirement as calculated by the Public Staff.
- [9] Calculated by the Public Staff.
- [10] Public Staff Exhibit II, Schedule 3-1(a), Column (c), Line 12.
- [11] Public Staff Exhibit II, Schedule 3-1(a), Column (c), Line 14.

Total Environmental Solutions, Inc. (TESI)

Docket No. W-1146 Sub 13 NET OPERATING INCOME FOR A RETURN

TESI - Sewer Operations

	TEST - Sewer Operations						Public S	itaff
			Present Rates		Company Propo	osed Rates	Recommende	ed Rates
		Amount Public		Per	Net	Operations	Net Public	Operations
Line	Line Per		Staff	Public	Company	After Rate	Staff	After Rate
No.	Item	Application	Adjustments [1]	Staff [2]		Increase [5]	Increase [6]	Increase [7]
	—	(a)	(b)	(c)	(d)	(e)	(f)	(g)
	Operating Revenues:						()	(3)
1.	Service revenues		\$0		\$0		\$82,188	\$82,188 [8]
2.	Miscellaneous revenues		0		0		0	0
3.	Uncollectible accounts	0	0	0	0	0	0	0
4.	Total operating revenues (Sum of L1 thru L3)	0	0	0	0	0	82,188	82,188
	Operating Expenses:							
5.	Salaries and wages		0		0	0	0	0
6.	Contractor operator - labor		0		0	0	0	0
7.	Administrative and office expense		0		0	0	0	0
8.	Sludge removal & treatment		0		0	0	0	0
9.	Maintenance and repair		0		0	0	0	0
10.	Transportation		0		0	0	0	0
11.	Electric power		0		0	0	0	0
12.	Testing		0		0	0	0	0
13.	Chemicals		0		0	0	0	0
14.	Permit and license		0		0	0	0	0
15.	Rate case expense		0		0	0	0	0
16.	Office rent		0		0	0	0	0
17.	Insurance		0	0		0	0	0
18.	Total operating expenses (Sum of L5 thru L17)	0	0	0	0	0	0	0
	Depreciation and Taxes:							
19.	Depreciation		47,600	47,600 [3]	0	47,600 [3]	0	47,600 [3]
20.	Property tax		0	,	0	0	0	0
23.	Payroll tax		0		0	0	0	0
24.	Regulatory fee - other taxes		0		0	0	115	115 [9]
25.	Gross receipts tax		0		0	0	0	0
26.	State income tax		0		0	0	626	626 [10]
27.	Federal income tax		0		0	0	5,126	5,126 [11]
28.	Total depreciation and taxes (Sum of L19 thru L	0	47,600	47,600	0	47,600	5,867	53,467
29.	Total operating revenue deductions (L18+L26)	0	47,600	47,600	0	47,600	5,867	53,467
30.	Net operating income for return (L4-L27)	\$0	(\$47,600)	(\$47,600)	\$0	(\$47,600)	\$76,321	\$28,721

Public Staff

Feasel Exhibit II

Schedule 3(b) Page 1 of 2

Total Environmental Solutions, Inc. (TESI)

Docket No. W-1146 Sub 13 FOOTNOTES TO SCHEDULE 3(b) Public Staff Feasel Exhibit II Schedule 3(b) Page 2 of 2

TESI - Sewer Operations

- [1] Column (c) minus Column (a), unless otherwise footnoted.
- [2] Column (a) plus Column (b), unless otherwise footnoted.
- [3] Public Staff Exhibit II, Schedule 2-1(b), Column (e), Line 17.
- [4] Column (e) minus Column (c), unless otherwise footnoted.
- [5] Column (c) plus Column (d), unless otherwise footnoted.
- [6] Column (g) minus Column (c), unless otherwise footnoted.
- [7] Column (c) plus Column (f), unless otherwise footnoted.
- [8] Revenue requirement as calculated by the Public Staff.
- [9] Calculated by the Public Staff.
- [10] Public Staff Exhibit II, Schedule 3-1(b), Column (c), Line 12.
- [11] Public Staff Exhibit II, Schedule 3-1(b), Column (c), Line 14.

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Total Environmental Solutions, Inc. (TESI) Docket No. W-1146 Sub 13

CALCULATION OF INCOME TAXES

Public Staff Feasel Exh bit II Schedule 3-1(a)

	TESI - Water Operations		Company	Public Staff
Line		Present	Proposed	Recommended
No.	<u>ltem</u>	Rates [1]	Rates [2]	Rates [3]
		(a)	(b)	(c)
1.	Operating revenue	\$0	\$0	\$33,302
2.	Operating revenue deductions:			
3.	Operating expenses	0	0	0
4.	Depreciation expense	14,750	14,750	14,750
5.	Property taxes	0	0	0
6.	Other taxes	0	0	0
7.	Regulatory fee	0	0	47
8.	Gross receipts tax	0	0	0
9.	Interest expense	5,066 [4]	5,066 [4]	5,066 [4]
10.	Total deductions (Sum of L3 thru L9)	19,816	19,816	19,863
11.	State taxable income (L1 - L10)	(19,816)	(19,816)	13,439
12.	State income tax (L11 x 2.5%)	0	0	336
13.	Federal taxable income (L11 - L12)	(19,816)	(19,816)	13,103
14.	Federal income tax (L13 x 21%)	0	0	2,752
15.	Net amount (L13 - L14)	(19,816)	(19,816)	10,351
16.	Add: Interest expense (L9)	5,066	5,066	5,066
17.	Net income for return (L15 + L16)	(\$14,750)	(\$14,750)	\$15,417

Public Staff Exhibit II, Schedule 3(a), Column (c).
 Public Staff Exhibit II, Schedule 3(a), Column (e).

[3] Public Staff Exhibit II, Schedule 3(a), Column (g).

[4] Public Staff Exhibit II, Schedule 1(a), Column (e), L7.

Total Environmental Solutions, Inc. (TESI) Docket No. W-1146 Sub 13

CALCULATION OF INCOME TAXES

Public Staff Feasel Exhibit II Schedule 3-1(b)

Line No.	TESI - Sewer Operations <u>Item</u>	Present <u>Rates</u> [1] (a)	Company Proposed <u>Rates</u> [2] (b)	Public Staff Recommended <u>Rates</u> [3] (c)
1.	Operating revenue	\$0	\$0	\$82,188
2.	Operating revenue deductions:	0	0	0
3.	Operating expenses	0	0	0
4.	Depreciation expense	47,600	47,600	47,600
5.	Property taxes	0	0	0
6.	Other taxes	0	0	0
7.	Regulatory fee	0	0	115
8. 9.	Gross receipts tax	0	0	0
9.	Interest expense	9,437 [4]	9,437 [4]	9,437 [4]
10.	Total deductions (Sum of L3 thru L9)	57,037	57,037	57,152
11.	State taxable income (L1 - L10)	(57,037)	(57,037)	25,036
12.	State income tax (L11 x 2.5%)	0	0	626
13.	Federal taxable income (L11 - L12)	(57,037)	(57,037)	24,410
14.	Federal income tax (L13 x 21%)	0	0	5,126
15. 16.	Net amount (L13 - L14) Add: Interest expense (L9)	(57,037) 9,437	(57,037) 9,437	19,284 9,437
17.	Net income for return (L15 + L16)	(\$47,600)	(\$47,600)	\$28,721

[1] Public Staff Exhibit II, Schedule 3(b), Column (c).

[2] Public Staff Exhibit II, Schedule 3(b), Column (c).
[3] Public Staff Exhibit II, Schedule 3(b), Column (g).
[4] Public Staff Exhibit II, Schedule 1(b), Column (e), L7.

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Total Environmental Solutions, Inc. (TESI)

Docket No. W-1146 Sub 13 CALCULATION OF REVENUE REQUIREMENT Public Staff Feasel Exhibit II Workpaper 4(a)

Water Operations

					Operating		
Line		Rate Base	Retention	Revenue	Ratio	Retention	Revenue
No.	Item	Method	Factor	Requirement [1]	Method	Factor	Requirement [1]
		(a)	(b)	(c)	(d)	(e)	(f)
	Operating revenue deductions:						
2.	General expenses	\$0			\$0		
3.	Depreciation expense	14,750			14,750		
4.	Property tax	0			0		
5.	Other tax	0		-	0		
6.	Total	14,750	0.9986000	\$14,771	14,750	0.9986000	\$14,771
7.	Adjustment for regulatory fee						
	Net operating income for return:						
8.	Debt service return	5,066	0.9986000	5,073			
9.	Equity return:						
10.	REG @ .14%, SIT @ 2.5%, FIT @ 21%	10,352	0.7691717	13,458	1,033	0.7691717	1,343
11.							
12.							
13.							
14.							
15.	Revenue requirement - both methods			\$33,302			\$16,114
16.	Revenue requirement recommended by Public Staff			\$33,302			\$33,302

\$15,418 \$15,417 \$15,417

Total Environmental Solutions, Inc. (TESI)

Docket No. W-1146 Sub 13 CALCULATION OF REVENUE REQUIREMENT Public Staff Feasel Exhibit II Workpaper 4(b)

Sewer Operations

					Operating		
Line		Rate Base	Retention	Revenue	Ratio	Retention	Revenue
No.	ltem	Method	Factor	Requirement [1]	Method	Factor	Requirement [1]
		(a)	(b)	(c)	(d)	(e)	(f)
	Operating revenue deductions:						
1.	Maintenance expenses	\$0			\$0		
3.	Depreciation expense	47,600			47,600		
4.	Property tax	0			0		
5.	Other tax	0		-	0		
6.	Total	47,600	0.9986000	\$47,667	47,600	0.9986000	\$47,667
7.	Adjustment for regulatory fee						
	Net operating income for return:						
8.	Debt service return	9,437	0.9986000	9,450			
9.	Equity return:						
10.	REG @ .14%, SIT @ 2.5%, FIT @ 21%	19,284	0.7691717	25,071	3,927	0.7691717	5,105
11.		0	0.7264815	0	0	0.7264815	0
12.		0	0.6393037	0	0	0.6393037	0
13.		0	0.5908716	0	0	0.5908716	0
14.		0	0.6393037	0	0	0.6393037	0
15.	Revenue requirement - both methods			\$82,188			\$52,772
16.	Revenue requirement recommended by Public Staff			\$82,188			\$82,188

\$28,721 \$28,721 \$28,721

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Docket No. W-1146, Sub 13

and

Docket No. W-1328, Sub 10

Public Staff Confidential Feasel Exhibit III