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STATE OF INDIANA

INDIANA UTILITY REGULATORY COMMISSION

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APPLICATION OF EASTERN RICHLAND SEWER CORPORATION FOR A NEW SCHEDULE OF RATES AND CHARGES FOR WASTEWATER SERVICE

CAUSE NO. 45776-U

PUBLIC'S EXHIBIT NO. 2

TESTIMONY OF JAMES T. PARKS

ON BEHALF OF

THE INDIANA OFFICE OF UTILITY CONSUMER COUNSELOR

February 16, 2023

Respectfully submitted

INDIANA OFFICE OF UTILITY CONSUMER COUNSELOR

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TESTIMONY OF OUCC WITNESS JAMES T. PARKS CAUSE NO. 45776-U <u>EASTERN RICHLAND SEWER CORPORATION.</u>

I. INTRODUCTION

1	Q:	Please state your name and business address.
2	A:	My name is James T. Parks, P.E., and my business address is 115 W. Washington
3		Street, Suite 1500 South, Indianapolis, IN 46204
4	Q:	By whom are you employed and in what capacity?
5	A:	I am employed by the Office of Utility Consumer Counselor ("OUCC") as a Senior
6		Utility Analyst in the Water/Wastewater Division. My qualifications and experience
7		are described in Appendix A.
8	Q:	What is the purpose of your testimony?
9	A:	I describe the relief requested by Eastern Richland Sewer Corporation ("ERSC",
10		"Eastern Richland," "Applicant" or "Utility"). I provide background information by
11		briefly discussing the utility's history. I describe ERSC's wastewater collection
12		system and ERSC's two gravity sewer connections to the Town of Ellettsville's
13		collection system for conveying wastewater to Ellettsville's treatment plant. I
14		summarize ERSC infiltration and inflow ("I&I") challenges and steps ERSC has
15		taken over multiple years to locate and remove I&I. I also provide recommendations
16		on changes that Petitioner should make to plan for and undertake replacement of its
17		existing sewer assets as they reach the end of their useful life.
18	Q:	What relief does the ERSC seek in this Cause?
19	A:	ERSC seeks a 9.97%. across the board rate increase in its metered and flat rate

20 monthly wastewater rates and approval of a new System Development Charge

("SDC") of \$2,500 per Equivalent Dwelling Unit ("EDU").¹ The wastewater rate
 increase reflects: 1) changes from ERSC's Settlement Agreement and Mutual
 Release with the Town of Ellettsville regarding its Sewage Treatment Purchase
 Contract, 2) increased operating and maintenance costs, and 3) increased costs for
 the contract operator.

6 Q: Please describe the review and analysis you conducted to prepare your 7 testimony.

8 I read Applicant's Small Utility Rate Application in this Cause including the 2020 A: 9 System Capacity Analysis and System Maps prepared by GRW Engineers. I 10 reviewed Applicant's 2017 to 2021 annual reports filed with the IURC. I reviewed 11 eight reports that ERSC has submitted since 2011 as required by the Commission 12 identifying repairs and replacements of ERSC's sewer infrastructure, as well as its efforts to televise the entire collection system over time.² I also reviewed 13 14 correspondence, monthly reports of operation ("MROs"), inspection reports, and 15 discharge permits with the Indiana Department of Environmental Management 16 ("IDEM") for the Town of Ellettsville and Bypass / Overflow Incident Reports that 17 ERSC submitted to IDEM for sanitary sewer overflows ("SSOs").

18 Q: Are any Attachments submitted with your testimony?

19 A: Yes. I provide the Attachments listed in Appendix B.

¹ Cause No. 45776-U Eastern Richland Sewer Corporation (ERSC) – Small Utility Rate Filing, Krohn & Associates, Inc. September 28, 2022.

² The annual reports detailing ERSC's progress in sewer repairs to reduce infiltration and inflow ("I&I") were required to be filed annually with the Commission. For the discussion of ERSC I&I reporting mandated by the Commission, see pages 7, 9, and 10 of the Cause No. 43921 Final Order, June 22, 2011.

CHARACTERISTICS OF EASTERN RICHLAND SEWER CORPORATION II.

1 Please describe Eastern Richland Sewer Corporation's characteristics. **Q**:

- 2 A: Eastern Richland Sewer Corporation is a public utility organized and existing as a 3 not-for-profit corporation that owns and operates a wastewater collection system in Richland Township in Monroe County, Indiana.³ ERSC provides wastewater utility 4 service to 2,357 residential and commercial customers.⁴ ERSC does not have 5 6 employees or a wastewater treatment plant but only collects wastewater from its 7 customers for conveyance to the Town of Ellettsville for treatment. Reed & Sons 8 Construction, Inc. of Bloomington, Indiana have provided management, operation, 9 and maintenance activities under contract since late 2011.⁵ When did Eastern Richland Sewer Corporation begin operation? 10 **O**:
- 11 A: ERSC was formed to provide sewer service to the unincorporated rural area located generally southeast of Ellettsville, Indiana on June 2, 1970.⁶ The IURC granted 12
- ERSC its original Certificate of Territorial Authority ("CTA") in 1971.⁷ 13

14 **O**: Has ERSC expanded its service territory?

A: 15 Yes. ERSC's CTA has expanded four times in Cause Nos. 32982, 43383, 43921,

³ IC 8-1-2-125 "Not-for-profit utilities"; services and facilities; reasonable and just charges; not-for-profit sewer utilities

⁴ See ERSC's 2021 IURC Annual Report, p. S-1. ERSC's customers included 2,256 residential customers and 101 commercial customers as of December 31, 2021.

⁵ Cause No. 43921, 1st Annual Report to the IURC regarding inspection, televising, maintenance, and replacement of ERSC infrastructure, December 21, 2011.

⁶ See ERSC's 2006 IURC Annual Report, p. E-6.

⁷ Cause No. 32783, December 1971.

		C
1		and 44394.8 The third CTA expansion followed the 2011 merger with Northern
2		Richland Sewer Corporation ("NRSC").9 NRSC, also formed in 1970, received its
3		CTA for a rural territory located generally north of Ellettsville in 1972. ¹⁰ Like
4		ERSC, NRSC did not have its own treatment plant, providing only sewers to convey
5		wastewater to Ellettsville's sanitary sewer system and wastewater treatment plant.
6		In 2014, ERSC exchanged 140 acres of service area with the South Central
7		Regional Sewer District ("SCRSD") and added 4,805 acres of new service area
8		located south, west, and north of the Town of Ellettsville. ¹¹ ERSC's service territory
9		was shown in Applicant's Cause No. 45776-U Small Utility Filing Letter, dated
10		September 28, 2022. For the Commission's convenience I provide ERSC's service
11		area map again in Attachment JTP-1. ¹²
12	Q:	How has ERSC's customer base grown over the last 10 years since merging?
13	A:	ERSC reported it had 2,074 customers after its merger with NRSC in 2011. ¹³
14		Growth has been steady over the last ten years, reaching 2,375 by the end of 2021
15		with 1.3% per year average growth and 26 residential and 2 commercial customers
16		added annually. I summarize ERSC's customer growth in Table 1.

⁸ Cause No. 32982 (unknown year - estimated to be 1972), Cause No. 43383, June 11, 2008. Cause No. 43921 (merger of ERSC and NRSC), June 22, 2011, Cause No. 44393 (exchange of territory with SCRSD and expansion to areas south, west, and north of Ellettsville, IN), August 27, 2014.

⁹ NRSC was merged into ERSC effective June 22,2011 in Cause No. 43921.

¹⁰ Cause No. 32784

¹¹ Cause No. 44394, August 27, 2014.

¹² The service territory map in Attachment JTP-1 was the best available map but does not show the entire acreage added on the north side of Ellettsville. *See* Cause No. 44394 for an overall service area map which is unfortunately of poor quality.

¹³ ERSC's 2011 merger with NRSC added 240 customers.

Year (as of Dec. 31.)	Residential Customers	Commercial Customers	Total Customers
2011 (Merger Year)	1,994	80	2,074
2016	2,022	116	2,138
2017	2,063	120	2,183
2018	2,096	122	2,218
2019	2,157	117	2,274
2020	2,212	94	2,306
2021	2,256	101	2,357
Customer Growth			
2011-2021	262	21	283
Avg. Annual Growth %	1.2%	2.4%	1.3%

Table 1ERSC Customer Growth 2011 to 2021

1 Q: What is ERSC's current tariff and average residential customer charge?

2 A: The average residential bill in 2021 was \$35.06 based on average water usage of 3 4,085 gallons per month. Nearly all ERSC customers are charged based on 4 volumetric usage determined from metered water usage. Ellettsville's Water Utility 5 supplies drinking water to ERSC's customers and meters the water usage of all 6 commercial customers and nearly all of ERSC's residential customers. Based on the 7 Commission's 5,000 gallons per month comparison metric, the metered customer charge for sewer service is \$42.46 per month.¹⁴ ERSC's few unmetered residential 8 9 customers (ranging between 10 and 11 in the last ten years) pay a flat rate of \$26.28

¹⁴ The sewer charge for 5,000 gallons per month is calculated as ERSC's minimum monthly charge for 3,000 gallons water usage at \$8.76 per 1,000 gallons equals \$26.28 (3 times 8.76 = 26.28) plus 2,000 additional gallons at \$8.09 per 1,000 gallons (2 times 8.09 = 16.18) equals \$42.46 per month.

per month.¹⁵ ERSC's monthly flat charge and volumetric rates were established in
 Cause No. 44271-U on June 26, 2013.

3

Q: How does ERSC conduct its operations?

A: As I noted previously, ERSC does not have any employees. Operation and
maintenance, sewer repairs, construction, accounting, customer service, billing, and
management services are provided through contracted services. The Utility is
managed by volunteer members of the Board that oversee all utility operations.

8 Q: Please describe the Eastern Richland Sewer Corporation collection system.

9 A: ERSC reported its collection system is comprised of 198,768 lineal feet of 2-inch to 15-inch sewer main and 1,616 feet of 2-inch force main.¹⁶ ERSC reports the 10 11 majority of sewer pipe, 158,086 feet or 79.5 %, is 8-inch diameter. ERSC 12 functionally has two separated systems; the smaller "Northern" system, which was 13 formerly the Northern Richland Sewer Corporation, and the larger "Eastern" 14 System. These systems separately connect to Ellettsville's gravity sewer system at 15 two tie-in points. Both ERSC's and Ellettsville's collection systems are 100% 16 separate sanitary sewers by design with no permitted bypasses or overflow points. 17 Older sanitary sewers in both ERSC's and Ellettsville's collection systems are 50-18 year-old vitrified clay pipe originally installed before the 1980s with PVC pipe 19 installed for newer sewers. However, I was unable to confirm the pipe materials 20 because ERSC lists total feet of sewers and force mains by pipe diameter but does

¹⁵ The monthly flat rate charge of \$26.28 is based on 3,000 gallons minimum usage times \$8.76 per 1,000 gallons or 3 times \$8.09 equals \$26.28 per month.

¹⁶ 2021 IURC Annual Report, page S-7.

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1	not identify pipe materials in its Annual Reports. ¹⁷ In 2013, the OUCC reported that
2	approximately 60% of ERSC's mains at that time were vitrified clay and the remainder
3	were PVC pipe. ¹⁸ I summarized the sewer pipe diameters and length reported by
4	Eastern Richland in its IURC Annual Reports in Table 2.

Sewer Dia. (inches)	2019	2020	2021	Percent of Total
2	407	407	407	0.2%
3	2,562	2,562	3,970	2.0%
4	2,981	2,981	2,981	1.5%
6	1,450	1,450	1,450	0.7%
8	156,514	157,749	158,086	79.5%
10	9,968	9,968	9,968	5.0%
12	16,354	16,354	16,354	8.2%
15	5,552	5,552	5,552	2.8%
Total Feet	195,788	197,023	198,768	100.0%
Total Miles	37.08	37.31	37.65	
Force Main Dia. (inches)	2019	2020	2021	
2	340	340	1,616	

Table 2ERSC Gravity Sewer Pipe and Force Mains (by Feet)

5

Eastern Richland's smaller sewer sizes (2-inch to 6-inch) are below the minimum

6

8-inch diameter for raw wastewater gravity sewers.¹⁹ ERSC's 2-inch diameter force

¹⁸ Report of the Indiana Office of Utility Consumer Counselor, Cause No. 44271-U, May 24, 2013, page 4.

¹⁷ Id.

¹⁹ Section 33.1 <u>Minimum Size</u>, Recommended Standards for Wastewater Facilities, Great Lakes - Upper Mississippi River Board of State and Provincial Public Health and Environmental Managers, 2014 Edition, also known as the Ten States Standards, p. 30-1.

1 mains are also below the minimum 4-inch diameter for force mains conveying raw wastewater.²⁰ Eastern Richland's collection system also includes three lift stations, 2 3 Brewster LS, Shelburne LS, and Tanglewood LS with pumps that vary from 5 to 25 4 horsepower and from 75 to 280 gallons per minute capacity. The 2021 IURC Annual 5 Report indicates ERSC has four lift stations that were installed in the early 1970s.

6

Q: Do problems exist with ERSC's gravity sewers?

7 A: Yes. Clay pipe is subject to breakage as it ages and as the soil shifts, clear water, 8 also known as infiltration, can enter sewers through cracks and offset joints during 9 wet weather periods with high groundwater levels. Because of its shorter laying 10 (pipe) lengths of 4.5 to 6 feet versus PVC pipe's 20 ft. laving length, clay pipe has 11 more pipe joints that can leak. Clear water, known as inflow, can also enter sewers 12 through surface water entry at manhole lids, unsealed manhole frames and rings, 13 and illegal connections of private sump pumps, foundation drains, downspouts, and 14 area drains. Clear water entry, infiltration and inflow ("I&I"), can consume the 15 sewer's carrying capacity causing surcharging, basement back-ups, and downstream 16 sanitary sewer overflows ("SSOs") from manholes and lift stations during rain 17 events. SSOs are prohibited in sanitary sewer systems and must be reported to IDEM 18 when they occur. In its IURC Annual Reports, ERSC has reported 83 sanitary sewer overflows over the last four years (2018 to 2021).²¹ Excessive I&I volumes can also 19 20 hydraulically overload Ellettsville's wastewater plant from peak flows imposed on 21 the plant. If not managed, I&I can lead to effluent violations and costly treatment

²⁰ Id., Section 49.1 Velocity and Diameter (Force Mains), p. 40-14.

²¹ See the 2018 to 2021 IURC Annual Reports, Performance Measures (2nd page) which indicated ERSC had 30 Sanitary Sewer Overflows in 2018, 10 SSOs in 2019, 18 SSOs in 2020, and 25 SSOs in 2021.

1 plant expansion projects.

2 Q: What is ERSC doing to address I&I?

3 A: The I&I problem and deteriorated clay sewers have plagued ERSC for many years 4 to the extent that at the Commission's direction, it implemented a sewer televising, 5 inspection, repair, relining, and replacement program to locate and remove the I&I. 6 ERSC is required to annually report to the Commission its progress in sewer repairs to reduce infiltration and inflow ("I&I") under Cause No. 43921.²² I reviewed eight 7 8 reports, which ERSC submitted beginning in 2011, that identify televising, inspections, 9 repairs and replacements of ERSC's sewer infrastructure. ERSC is supposed to submit 10 its sewer system reports annually with its IURC Annual Reports, but it has not always 11 done so. A total of three annual sewer reports were not submitted. ERSC filed the most 12 recent report, No. 8, on June 1, 2021 for calendar year 2020, but did not submit the 2021 13 report. The 2022 report is due April 1, 2023.

14 Q: What information is ERSC required to include in its Annual Sewer Reports?

A: The 2011 Order in Cause No. 43921 required ERSC to continue a televising and replacement program required by the IURC's Order in Cause No. 47391-U for Northern Richland Sewer Corporation, to extend reporting to also include the ERSC sewer system, and further, to annually file with the IURC a report regarding the status of its efforts to address I&I issues. Specifically, in the Cause No. 43921 Final Order, the Commission agreed with OUCC witness Roger A. Pettijohn, who recommended the report include: "(1) a description of any repair or replacement of

²² Cause No. 43921 Final Order, June 22, 2011. For the discussion of ERSC I&I reporting mandated by the Commission, see pages 7, 9, and 10. *See* also the sewer system repair reports filed under the same Cause for a good summary of the work completed.

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1	either system's infrastructure, including costs incurred; (2) a description of ERSC's
2	maintenance program; (3) a description of ERSC's progress in televising the entire
3	system; and (4) a detail of the expenses incurred, including copies of invoices." ²³ I
4	summarized sewer system metrics over the 2018 to 2021 period in Table 3.

Table 3SSOs, Sewer Cleaning & Televising and Manhole Inspections

Parameter	2018	2019	2020	2021
Number of SSOs	30	10	18	25
Total Sewer Length (Ft.)	190,193	196,128	197,363	200,384
Cleaned & Televised (Ft.)	17,358	0	0	18,205
Cleaned & Televised (%)	9.13%	0%	0%	9.09%
Manholes Inspected	73	0	0	118

5Q:Does ERSC report how much I&I remains in its system or how much I&I it6has successfully located and removed?

A: No. ERSC's reports describe the sewer system work performed each year and the
amount spent maintaining its sewers. However, ERSC does not discuss the I&I
removed, how much I&I remains in ERSC's system, and whether peak sewer flows
were lowered during wet weather conditions by ERSC's efforts.

11 Q: What do you recommend for ERSC's Annual Sewer Reports?

A: It is important to benchmark ERSC's I&I removal efforts and its successes. I
recommend ERSC keep documenting its I&I control work and sewer maintenance
and repairs by continuing its annual sewer reports using the same format with one
addition. ERSC should regularly estimate I&I volumes in its sewers and the I&I it
has located and eliminated through its sewer repairs, relining, and replacements.

- ERSC should follow US EPA guidance on estimating its infiltration and inflow. *See* Attachment JTP-2 for the EPA's Quick Guide for Estimating Infiltration and Inflow
- 3 Q: Does ERSC know how much I&I is in its system?
- A: ERSC does not report and is not required to report its I&I volume in the annual
 sewer reports to the Commission filed under Cause No. 43921. I&I volumes
 fluctuate with greater I&I levels in years with more rain and higher groundwater
 levels. The 2020 System Capacity Analysis for ERSC's East collection system by
 GRW Engineers does report I&I flows and peaking factors for a 2018 to 2019 flow
 monitoring program. I&I accounted for 46% of the average daily flow but jumped
 five-fold for peak flows with a peaking factor of over 10 for several sewer segments.
- 11 Q: Did you calculate Ellettsville's current I&I volume?

A: Yes. I made approximations of I&I based on available data. I understand Ellettsville
supplies essentially all drinking water and treats all wastewater generated by
Ellettsville's and ERSC's customers. To estimate ERSC's I&I, I first calculated
Ellettsville's monthly I&I volumes by subtracting monthly water sold volumes
reported to the IURC from Ellettsville's wastewater effluent flows reported to
IDEM. I summarized the flow data and calculated I&I in Table 4. I also provide the
underlying data and my calculations in Attachment JTP-3.

Water sold is the highest volume that base sanitary sewage flows can reach. For my calculations, I assumed all water sold becomes wastewater even though some is lost to lawn sprinkling, garden watering, car washing, and other uses that do not end up in the sewers. Based on *annual average flows*, my analysis indicates I&I constitutes nearly half of Ellettsville's total wastewater flow (47%) in wetter years (2019 and 2021) but dropped below 40% in 2020 when less rain fell. The 1 highest calculated *monthly I&I percentage* of total wastewater flow ranged from

- 2 64% to 71%. On *peak flow days*, I&I constituted up to 90% of the total wastewater
- 3 flow treated at Ellettsville's wastewater plant.

Parameter	2019	2020	2021
Total Annual Precipitation (in.)	59.38	54.37	65.84
OUCC Estimated Population Equivalent Served	14,035	14,101	14,431
Total Wastewater Flow (MG/Yr.)	500.8	431.8	522.8
Total Water Sold (MG/Yr.)	266.3	263.6	274.6
Gallons per Population Equivalent (gallons/day)	52.0	51.1	52.1
OUCC Calculated I&I (MG/Yr.)	234.5	168.2	248.2
OUCC Calculated I&I Percent of WW Flow (%)	47%	39%	47%
Maximum I&I Percent of WW Flow (%)	66%	71%	67%
Annual Average Wastewater Flow (MGD)	1.37	1.18	1.43
Annual Average Water Sold (MGD)	0.73	0.72	0.75
OUCC Calculated Annual Average I&I (MGD)	0.64	0.46	0.68
Maximum Day Wastewater Flow (MGD)	6.22	7.54	7.70
Max. Day WW Flow per Population Equiv. (gpcd) ²⁴	443	535	534
Annual Average Wastewater Flow (MGD)	1.37	1.18	1.43
Avg. Day WW Flow per Population Equiv. (gpcd)	98	84	99
Peaking Factor (Max. Day/Annual Average)	4.5	6.4	5.4
Minimum Day Wastewater Flow (MGD)	0.57	0.41	0.51

Table 4
OUCC Calculated I&I Volumes for the Ellettsville / ERSC Sewer Systems

4 Q: Is Ellettsville's infiltration and inflow excessive?

5 A: As shown in Table 3, Ellettsville's 2019 to 2021 average daily flows were up to 99

²⁴ gpcd stands for gallons per capita per day.

1 gallons per capita per day ("gpcd"), which is below the EPA's excessive infiltration 2 criteria of 120 gpcd.²⁵ However, due to time constraints and data limitations, my 3 analysis had to substitute annual average flows (wet and dry weather flows) for 4 EPA's more precise methodology of analyzing flows on days with high groundwater 5 levels. I also had to estimate the connected population, which I based on the US 6 Census Bureau's data of 2.39 to 2.46 people per household multiplied by the number 7 of residential customers, and I accounted for commercial and multi-family 8 customers in addition to residential.²⁶ Actual population may be lower than my 9 estimates. If so, due to these two data issues (use of annual average flow data and 10 estimated population), my estimates of average daily flow per person understates 11 the levels of infiltration and inflow in Ellettsville's and ERSC's sewer systems.

Ellettsville's 2019 to 2021 peak wastewater flows were up to 535 gallons per capita per day ("gpcd") and nearly twice the US EPA's 275 gpcd criteria used to determine whether inflow is excessive. These peak flows can overwhelm the carrying capacities of downstream sewers causing sanitary sewer overflows and can also impact the wastewater plant. Inflow appears to be a more serious problem for Eastern Richland and Ellettsville than infiltration.

18 Q: How much of the I&I reaching Ellettsville's wastewater plant is from the 19 Eastern Richland sewer system?

20 A:

Eastern Richland does not report its share of the I&I in the overall sewer system

²⁵ See Attachment JTP-4 for the USEPA's excessive I&I standards, 1984 Code of the Federal Register CFR-2008-Title 40-Volume 1-Section 35-2120.

²⁶ See Attachment JTP-5 for my estimate of connected population for the Ellettsville Water system, ERSC Sewer system, and the Ellettsville Wastewater system.

1	with Ellettsville. I would estimate that ERSC contributes at least half of the I&I.
2	ERSC's share could be estimated on the basis of total sewer pipe length within each
3	system (Ellettsville and ERSC). The best way to determine how much I&I ERSC's
4	system contributes is to install flow monitors at both of the ERSC's tie-ins to the
5	Ellettsville sewer system.

6 Q: Is ERSC's wastewater collection system under any IDEM enforcement actions? 7 A: No.

III. <u>ELLETTSVILLE WASTEWATER TREATMENT</u>

8 Q: How is the wastewater collected in ERSC's sewer system treated?

9 A: As noted previously in my testimony, ERSC does not own or operate a treatment
10 plant. Wastewater collected in ERSC's sewer system has always been conveyed for
11 treatment at the Ellettsville wastewater treatment plant ("WWTP").

12 Q: Please describe Ellettsville's wastewater treatment plant.

13 A: The Ellettsville WWTP is located outside Ellettsville's corporate boundaries but 14 within ERSC's service territory at 7568 North Red Hill Road, Ellettsville, IN. The 15 WWTP is a Class III, 2.3 MGD oxidation ditch-type wastewater treatment plant 16 consisting of a plant lift station, five flow meters, grit removal, a comminutor with 17 a bypass, bar screen, a three-channel oxidation ditch, two final clarifiers, UV 18 disinfection, post aeration, two aerobic digesters, a belt filter press with a polymer 19 feed system, and a concrete sludge storage pad. Digested solids are hauled off-site. 20 Treated effluent from Ellettsville's WWTP is discharged to Jack's Defeat Creek, 21 which flows north and empties into the West Fork of the White River near Gosport, 22 IN. Ellettsville's collection system is comprised of 100% separate sanitary sewers

1		by design with no overflow or bypass points. ²⁷ Ellettsville 2.3 MGD wastewater
2		treatment plant replaced the original 0.46 MGD WWTP and the capacity increase
3		enabled Ellettsville to eliminate routing up to 1.0 MGD of its sewage to
4		Bloomington's Blucher Poole WWTP. ²⁸
5 6	Q: A:	Has ERSC always relied on Ellettsville to provide treatment services to ERSC? Yes. When ERSC was organized, its Board executed a Sewage Treatment Purchase
7		Contract with the Town of Ellettsville on November 9, 1971 for wholesale treatment
8		of wastewater. The Treatment Purchase Contract has been subsequently amended
9		various times. ²⁹ The contract term "extends for a term of sixty (60) years from the
10		date of the initial delivery of, any collected wastes as shown by the first bill
11		submitted by Ellettsville to Eastern Richland and thereafter may be renewed or
12		extended for such term, or terms, as may be agreed upon by the Seller and
13		Purchaser." ³⁰ Since I do not know the date of ERSC's first wastewater treatment bill,
14		I do not know the contract's exact expiration date, but it should occur in 2032.
15 16	Q: A:	How is ERSC charged for wastewater treatment services by Ellettsville? It appears that for the contract's first fifteen years, charges were based on metered
17		wastewater volumes measured at the two discharge points into Ellettsville's sewer
18		system (for the original ERSC and NRSC collection systems). Ellettsville was
19		responsible for furnishing, installing, operating, and maintaining at the point of

²⁷ Ellettsville NPDES Permit No. IN 0021083, September 3, 2020.

²⁸ Construction Permit No. 8607, Ellettsville 2.3 MGD Wastewater Treatment Facility, July 12, 1995.

²⁹ The Sewage Treatment Purchase Contract was initially signed on November 9, 1971 and amended on June 16, 1986, August 12, 1996, February 9, 1998 and March 26, 2009. ERSC also entered into a Settlement Agreement and Mutual Release on September 20, 2021. *See* Attachment JTP-6.

³⁰ Sewage Treatment Purchase Contract, November 9, 1971, p. 4. See Attachment JTP-6.

discharge of ERSC's wastewater into Ellettsville's sewer system, the standard
 metering equipment, including a meter house or pit, to properly measure the quantity
 of ERSC's collected wastes.³¹

4 Metered wastewater volumes included I&I flow and base sanitary sewage 5 flows from ERSC's customers. In 1986, the Sewage Treatment Purchase Contract 6 was amended to change the basis for wastewater billing volumes to ERSC's 7 customers' monthly metered water usage plus an additional thirty percent (30%) to 8 allow for infiltration into ERSC's sewers.³² Subsequent contract amendments and 9 the 2021 Settlement Agreement and Mutual Release ("2021 Settlement 10 Agreement") do not include any changes that negate the 1986 billed wastewater volume determination method.³³ However, my analysis of 2021 billed volumes and 11 12 charges indicates that ERSC is being billed based on metered water usage only. I 13 calculated average daily water usage per person in ERSC's system is approximately 14 52 gallons per person.

15 Q: What is Ellettsville's current volumetric rate charged to treat ERSC's sewage?

A: Based on its application, ERSC indicated it pays a volumetric charge of \$3.64 per
1,000 gallons for wastewater treatment based on metered water usage by customers.
However, I could not find reference to the \$3.64 in any of the amendments to the
Sewage Treatment Purchase Contract or in the Settlement Agreement and Mutual

³¹ Id., pp. 2-3.

³² Amended Sewage Treatment Purchase Contract, Item 2.b. June 16, 1986, p. 2. See Attachment JTP-6.

³³ Settlement Agreement and Mutual Release between Eastern Richland Sewer Corporation and the Town of Ellettsville, September 20, 2021. *See* Attachment JTP-6.

1 Release that resolved a dispute between ERSC and Ellettsville.³⁴

2 Q: Does Ellettsville charge ERSC for capital needs in Ellettsville's wastewater 3 system?

4 A: Yes. In lieu of previous contracted capacity payments, ERSC agreed to make a 5 \$660,000 one-time payment to settle Ellettsville's counter claim against ERSC 6 regarding the Sewage Treatment Purchase Contract and to begin making \$10,000 7 monthly payments as a capital contribution to Ellettsville Utilities in January 2022.³⁵ 8 Ellettsville Utilities established a wastewater treatment facility Capital Reserve 9 Account ("CRA") to receive and hold ERSC's \$660,000 one-time payment and 10 ERSC's monthly capital contributions. The CRA is under the control of Ellettsville 11 Utilities, but restricted for use in the:

- a. Expansion of the treatment plant and related facilities (not includingordinary maintenance or repair).
- b. Repair (excepting ordinary or routine maintenance and repair expenses),
 replacement or construction of required treatment facilities in accordance
 with good engineering practice.
- 17 c. CRA funds may be used for replacement of existing equipment necessary to
 18 prolong the life of the Town's wastewater treatment plant, including but not
 19 limited to, ultra-violet lights, motors, pumps, blowers, and including labor
 20 costs associated with the installation of capital assets.
- 21 d. For other approved expenditures.
 - ³⁴ Id.

³⁵ *Id.*, pp. 1-3.

Public's Exhibit No. 2 Cause No. 45776-U Page 18 of 22

1	Q:	Does ERSC have reserved capacity in Ellettsville's wastewater system?
2	A:	Yes. According to the 1996 Amendment to ERSC's Sewage Treatment Purchase
3		Contract, Eastern Richland was allocated 3,200 EDUs of capacity in Ellettsville's
4		new wastewater treatment plant. ³⁶ Below is the pertinent language from the 1996
5		Contract Amendment.
6 7 8 9 10		It is anticipated that the plant will have a capacity of 2.3 MGD or 7,700 Equivalent Daily Usage (EDU). An EDU is equal to 298.7 gallons per day). Provided that such capacity is available, Seller agrees to accept Purchaser' sewage and waste delivered for treatment and disposal in an amount not to exceed 3,200 EDUs per day.
11		I calculate that ERSC's equivalent flow allocation, based on 3,200 EDUs at 298.7
12		gallons per day per EDU, is 955,840 gallons per day. This equals 41.6% of the
13		Ellettsville WWTP's 2.3 MGD design average flow capacity.
14	Q:	Has ERSC's EDU allocation been increased?
15	A:	Apparently. The 2021 Settlement Agreement noted "ERSC retains the 3,900 EDUs
16		assigned to ERSC in the Treatment Purchase Contract, as amended" of the 7,700
17		total EDUs. ³⁷ I calculate the 3,900 EDUs is equivalent to 1,164,935 gallons per day
18		or 51% of the 2.3 MGD design average flow capacity of the Ellettsville WWTP.
19		However, I could not find any amendment that increased ERSC's EDU allocation
20		to 3,900 from the 3,200 EDUs established in the 1986 Amendment. In response to
21		an informal discovery request, Eastern Richland indicated the Sewage Treatment
22		Purchase Contract was last amended in 2009 and the 2021 Settlement Agreement
23		"was not a specific amendment to the Contract. The settlement agreement with

³⁶ Amendment to the Sewage Treatment Purchase Contract, August 12, 1996, p. 2. See Attachment JTP-6.

³⁷ Settlement Agreement and Mutual Release between Eastern Richland Sewer Corporation and the Town of Ellettsville, September 20, 2021, p. 2. *See* Attachment JTP-6.

1		Town of Ellettsville established new treatment rate and capital contribution
2		commitments by ERSC. This settlement arose out of our dispute with the treatment
3		increase imposed by Town based on a 2016 COS study."38
4	Q:	Are ERSC's allocated EDUs applied to another issue?
5	A:	Yes. ERSC included the 3,900 allocated EDUs, its 2,357 existing EDUs, and the
6		remaining 1,543 EDUs in its computed incremental cost calculation for its proposed
7		system development charge ("SDC"). ³⁹
8	Q:	How did ERSC determine the proposed \$2,500 SDC amount?
9	A:	The SDC is based on \$13,545,000 in capital costs for three areas: 1) ERSC's
10		\$2,795,000 portion (51% of the total) of future capital costs for projects to be
11		completed by Ellettsville to upgrade and replace wastewater assets; 2) \$2,750,000
12		for ERSC to construct a new one-mile-long parallel interceptor and 20 manholes;
13		and 3) \$8,000,000 for ERSC to rehabilitate old ERSC collection mains and
14		manholes. ERSC provided a copy of a 2020 System Capacity Analysis by GRW
15		Engineers for the parallel interceptor but did not provide other information in its
16		Small U filing describing or supporting the need for Ellettsville's capital projects or
17		for the rehabilitation of ERSC's old collection mains and manholes. OUCC witness
18		Carla Sullivan testifies about ERSC's SDC calculations.

³⁸ Email communication between Carla Sullivan of the OUCC and Buzz Krohn and Michael L. Carmin representing ERSC, February 10, 2023. COS stands for Cost of Service.

³⁹ *See* the Incremental Cost Calculation of Proposed System Development Charge in the ERSC Small Utility Filing Letter to IURC, September 28, 2022, p. 7.

IV. EXTENSIONS AND REPLACEMENTS

1 Q: Did ERSC request a revenue requirement for extensions and replacements?

A: No. ERSC identified the \$2,795,000 for three capital projects for Ellettsville's
wastewater system on Schedule 7 E&R and in its calculations of the SDC but did
not request E&R as a revenue requirement on Schedule 1. OUCC witness Carla
Sullivan testifies about ERSC's E&R funding needs.

V. OUCC CONCLUSION

6 Q: Please summarize your conclusions and recommendations.

7 A: Since 2011, ERSC has investigated collection system needs pertaining to infiltration 8 and inflow and aging sewer assets but has continuing televising, repair, relining, and 9 replacement needs for its collection system. I recommend that ERSC keep 10 documenting its sewer televising, I&I control work and sewer maintenance and 11 repairs by continuing its annual sewer reports required under Cause No. 43921 using 12 the same format with one addition. ERSC should regularly estimate I&I volumes in 13 its sewers and the I&I it has located and eliminated through its sewer repairs, 14 relining, and replacements. ERSC should follow US EPA guidance on estimating 15 its infiltration and inflow.

16 Q: Does this conclude your testimony?

17 A: Yes.

Appendix A

1	Q:	Please describe your educational background and experience.
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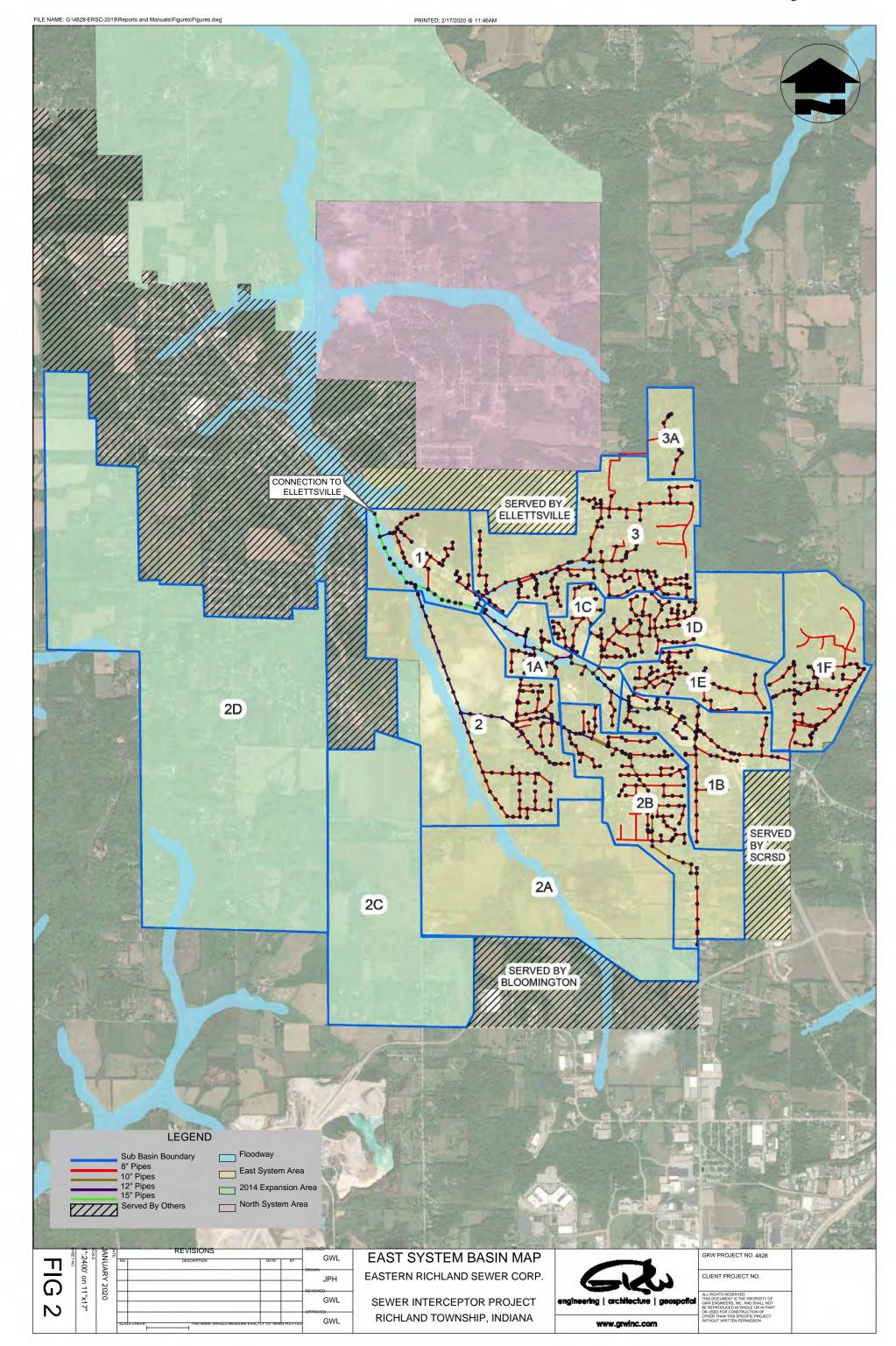
2 A: In 1980 I graduated from Purdue University, where I received a Bachelor of Science 3 degree in Civil Engineering, specializing in Environmental Engineering. I then 4 worked two years with Peace Corps / Honduras as a municipal engineer on self-help 5 rural water supply and sanitation projects funded by the U.S. Agency for 6 International Development (U.S. AID). In 1984 I earned a Master of Science degree 7 in Civil Engineering (Environmental) from Purdue University. I have been a 8 Registered Professional Engineer in the State of Indiana since 1986. In 1984, I 9 accepted an engineering position with Purdue University, and was assigned to work 10 as a process engineer with the Indianapolis Department of Public Works ("DPW") 11 at the City's Advanced Wastewater Treatment Plants. I left Purdue and subsequently 12 worked for engineering consulting firms, first as a Project Engineer for Process 13 Engineering Group of Indianapolis and then as a Project Manager for the consulting 14 firm HNTB in Indianapolis. In 1999, I returned to DPW as a Project Engineer 15 working on planning projects, permitting, compliance monitoring, wastewater 16 treatment plant upgrades, and combined sewer overflow control projects.

17Q:Have you previously testified before the Indiana Utility Regulatory18Commission ("Commission")?

19 A: Yes.

Appendix B - List of Attachments

Attachment JTP-1	Eastern Richland Sewer Corporation service area map
Attachment JTP-2	EPA's Quick Guide for Estimating Infiltration and Inflow, 2014
Attachment JTP-3	OUCC Monthly I&I Calculations for the Ellettsville / ERSC Sewer Systems 2019 to 2021
Attachment JTP-4	USEPA's excessive I&I standards, 1984 Code of the Federal Register CFR-2008-Title40-Volume 1-Section 35-2120
Attachment JTP-5	OUCC estimate of the 2019 to 2021 connected population for the Ellettsville Water system, ERSC Sewer system, and the Ellettsville Wastewater system
Attachment JTP-6	Sewage Treatment Purchase Contract, November 9, 1971, Amendments, and Settlement Agreement and Mutual Release between Eastern Richland Sewer Corporation and the Town of Ellettsville, September 20, 2021





EPA New England Water Infrastructure Outreach provides tools, examples, and technical assistance for water infrastructure operators and managers, local officials, and other decision-makers for more effective and sustainable water infrastructure management. For more information see <u>http://www.epa.gov/region1/sso/toolbox.html</u>

Quick Guide for Estimating Infiltration and Inflow For Region 1 NPDES Annual Reporting

June 2014

Addressing Permit Requirements to:

Submit a calculation of the annual infiltration and inflow (I&I), maximum daily, weekly, and monthly infiltration and the maximum daily, weekly, and monthly inflow for the reporting year. For further details on Infiltration and Inflow, see '<u>Guide for Estimating Infiltration and Inflow'</u>.

Definitions

Infiltration

Groundwater that infiltrates a sewer system through defective pipes, pipe joints, connections, or manholes. Infiltration does not include, and is distinguished from inflow. Infiltration is generally measured during seasonally high ground water conditions, during a dry period.

Inflow

Water other than sanitary flow that enters a sewer system from sources which include, but are not limited to, roof leaders, cellar drains, yard drains, area drains, drains from wet areas, cross connections between storm sewers and sanitary sewers, catch basins, cooling towers, stormwater, surface runoff (including leaking manhole covers), street wash-water, or drainage. Inflow does not include, and is distinguished from infiltration. Inflow is generally measured during wet weather.

Estimations for reporting:

Term	Definition or How to Calculate
Average Dry Weather	Use highest 7 to 14 day average per day flow without precipitation and during
(ADW) flow	high seasonal groundwater. Includes domestic wastewater and infiltration.
Groundwater	During ADW flow period, average the low nighttime flows (midnight to 6am) per
Infiltration (GWI)	day for the same time period, minus significant industrial or commercial flows.
Groundwater	Subtract GWI from ADW flow.
Infiltration (GWI)	
Maximum Daily	Subtract BSF from highest daily flow after a dry period of three days or more
Infiltration	during high seasonal groundwater.
Maximum Weekly	Subtract BSF from highest 7 day average flow after a dry period of three days or
Infiltration	more during high seasonal groundwater.
Maximum Monthly	Subtract BSF from highest monthly flow during dry or minimal rain period
Infiltration	during high seasonal groundwater.

Maximum Daily	Measured during wet weather. Determine infiltration rate for dry period
Inflow	preceding rain event. Subtract BSF plus infiltration rate from the highest daily
	flow during the event.
Maximum Weekly	Determine infiltration rate for dry period preceding rain event(s).
Inflow (includes	Subtract BSF plus infiltration from the highest 7 day average wet weather flow.
delayed inflow)	
Maximum Monthly	Determine infiltration rate for dry period preceding rain event(s).
Inflow	Subtract BSF plus infiltration rate from the highest monthly average flow.
Maximum Monthly	Subtract BSF from highest monthly average flow.
Infiltration and Inflow	
Average Annual Flow	The total annual volume divided by 365 days. The average annual flow can also
	be calculated by averaging the monthly average flows.
Average Annual	Subtract the BSF rate from the average annual flow.
Infiltration and Inflow	
Average Annual	Average of the monthly minimum flows.
Infiltration	
Average Annual	Subtract the BSF and average annual infiltration from the average annual flow.
Inflow	
Average Wet Weather	The average daily flow during a period of significant rainfall (excludes significant
Flow (Average WWF)	commercial and industrial flow).
Peak Hourly Wet	The highest one hour flow rate during a significant rain event.
Weather Flow (Peak	
WWF)	

Notes:

If your system experiences SSOs or backups, you may have excessive inflow, although infiltration also contributes to the problem. Even where a system is not suffering from SSOs, systems experiencing surcharging should be evaluating their I&I, as should systems where new growth is expected and existing collection system infrastructure may be inadequate or marginal for handling new customers.

Other calculations used by state agencies to determine whether infiltration and/or inflow are excessive include:

Is your Infiltration Rate Excessive?

Some states have an excessive infiltration criterion based on gallons per person per day (gppd) and other states use a criterion of gallons per day per inch of diameter per mile of pipe (gpd/idm).

To determine gppd, divide the ADW flow by the population served. If the ADW flow exceeds 120 gppd, your state agency may consider the infiltration excessive.

To determine gpd/idm, first determine your total inch diameter-miles of pipe (idm). As an example, for a sewer system that has 36 miles of 4 inch diameter laterals, 36 miles of 8 inch diameter, 6 miles of 10 inch diameter, and 6 miles of 12 inch diameter gravity sewers, the total number of inch – miles is:

36x4 + 36x8 + 6x10 + 6x12 = 564 inch diameter miles

To determine gpd/idm, divide the dry weather infiltration rate during seasonal high groundwater (GWI from B above) by the total inch miles. In this example, if the GWI is 2 mgd, with 564 inch diameter-miles of pipe, then the gpd/idm would be:

2 mgd divide by 564 idm = 3546 gpd/idm

Metcalf & Eddy's text "Wastewater Engineering: Collection and Pumping of Wastewater", suggests that infiltration rates for whole collection systems (including service connections) that are lower than 1500 gpd/idm are not usually excessive. The Massachusetts Department of Environmental Protection document "Guidelines for Performing I/I Analyses" recommends (as a rule-of-thumb) sewer subsystems of about 20,000 linear feet that exhibit infiltration rates above 4000 gpd/idm be investigated for contributing potentially excessive infiltration. For more information on design standards consult the Technical Report, "Guidelines for the Design of Wastewater Treatment Works, New England Interstate Water Pollution Control Commission TR-16".

Is your inflow excessive?

Divide the Average WWF by the population served to determine the gallons per person per day (gppd). If the Average WWF exceeds 275 gppd your state agency may consider the inflow excessive. This calculation should exclude major industrial or commercial flows.

A calculation for gpd/idm can also be determined for wet weather.

Estimating your cost to treat Infiltration and Inflow

Wastewater collection and treatment cost can range from \$2 to \$5 per thousand gallons. An annual I&I volume of 150 million gallons would cost between \$300,000 and \$750,000 per year to transport and treat. For many older collection systems infiltration can be quite substantial, and has been calculated as high as fifty percent of the flow.

If your treatment facility is at or near capacity and an upgrade will be necessary, the cost of reducing I&I to free up capacity at the existing treatment facility should be measured against the cost of building additional treatment capacity.

	Total	N	Ionthly	,	Total	Total	OUCC Est.			Peak Day
	Monthly	Wastewater Effluent		Monthly	Monthly	Total	I&I Percent	Peak Day I&I	Wastewater	
Month-	Precip.	Flo	w (MG	D)	WW Flow	Water	Monthly I&I	of Effluent	Percent of Total	Effluent Flow
Year	(Inches)	Avg.	Max.	Min.	(MG)	Sold (MG)	Flow (MG)	Flow (%)	Wastewater (%)	gpcd
	(a)	(b)	(c)	(d)	(e)	(f)	(e) - (f)	[(e)-(f)]/(e)	= ((c)- (f)/days)/(f)	(c)*1,000,000 /population
Jan-19	3.47	1.8647	4.744	0.968	57.806	19.779	38.027	66%	87%	338
Feb-19	6.90	2.0824	6.224	0.9	58.307	20.821	37.486	64%	88%	443
Mar-19	5.35	1.5814	3.389	0.774	49.023	20.593	28.430	58%	80%	241
Apr-19	6.87	2.0846	5.216	0.933	62.538	21.469	41.069	66%	86%	372
May-19	4.98	1.1342	2.017	0.799	35.160	21.502	13.658	39%	66%	144
Jun-19	7.70	1.5785	4.307	0.699	47.355	24.107	23.248	49%	81%	307
Jul-19	4.75	1.0794	3.739	0.652	33.461	22.600	10.861	32%	81%	266
Aug-19	4.86	0.8248	2.094	0.597	25.569	25.057	0.512	2%	61%	149
Sep-19	0.92	0.7217	1.194	0.605	21.651	24.783	-3.132	-14%	31%	85
Oct-19	5.52	0.854	1.924	0.574	26.474	23.485	2.989	11%	61%	137
Nov-19	4.51	1.1559	4.55	0.696	34.677	22.622	12.055	35%	83%	324
Dec-19	3.55	1.5747	4.755	0.958	48.816	19.489	29.327	60%	87%	339
Jan-20	6.12	2.1153	7.539	0.913	65.574	21.082	44.492	68%	91%	535
Feb-20	3.71	1.6172	5.601	0.948	46.899	21.016	25.883	55%	87%	397
Mar-20	7.53	2.1991	7.401	1.105	68.172	19.528	48.644	71%	91%	525
Apr-20	2.99	1.0644	2.157	0.693	31.932	20.981	10.951	34%	68%	153
May-20	7.43	1.3851	5.257	0.772	42.938	23.126	19.812	46%	86%	373
Jun-20	5.14	0.7993	1.383	0.405	23.979	25.663	-1.684	-7%	38%	98
Jul-20	9.21	1.0603	3.704	0.633	31.809	29.859	1.950	6%	74%	263
Aug-20	2.22	1.0142	2.291	0.693	31.440	25.622	5.818	19%	64%	162
Sep-20		0.8780			26.339	26.723	-0.384	-1%		
Oct-20	5.23	0.8416	2.31	0.503	26.090	26.000	0.090	0%	64%	164
Nov-20	4.79	1.2193	3.854	0.639	36.579	23.959	12.620	35%	79%	273

OUCC Monthly I&I Calculations for the Ellettsville / ERSC Sewer Systems 2019 to 2021

Eastern Richland Sewer Corp. Cause No. 45776-U

	Total Monthly	Monthly Wastewater Effluent		•		Total Monthly	OUCC Est. Total	I&I Percent	Peak Day I&I	Peak Day Wastewater
Month-	Precip.	Flow (MGD)		WW Flow	Water	Monthly I&I	of Effluent	Percent of Total	Effluent Flow	
Year	(Inches)	Avg.	Max.	Min.	(MG)	Sold (MG)	Flow (MG)	Flow (%)	Wastewater (%)	gpcd
	(a)	(b)	(c)	(d)	(e)	(f)	(e) - (f)	[(e)-(f)]/(e)	= ((c)- (f)/days)/(f)	(c)*1,000,000 /population
Dec-20	1.98	1.0045	1.864	0.783	31.140	19.561	11.579	37%	66%	132
Jan-21	2.95	1.2436	3.024	0.778	38.552	22.927	15.625	41%	76%	210
Feb-21	3.62	1.6798	4.359	0.909	47.034	20.413	26.621	57%	83%	302
Mar-21	5.42	1.9694	4.098	0.931	61.051	19.948	41.103	67%	84%	284
Apr-21	4.77	1.1053	2.427	0.75	33.159	21.729	11.430	34%	70%	168
May-21	3.81	1.091	1.736	0.835	33.821	21.701	12.120	36%	60%	120
Jun-21	12.80	1.6885	7.7	0.82	50.655	25.869	24.786	49%	89%	534
Jul-21	8.25	2.0641	6.445	0.823	63.987	24.698	39.289	61%	88%	447
Aug-21	3.21	0.8303	1.023	0.586	25.739	25.688	0.051	0%	19%	71
Sep-21	5.26	1.0342	2.473	0.753	31.026	27.764	3.262	11%	63%	171
Oct-21	8.54	1.522	3.451	0.851	47.182	22.708	24.474	52%	79%	239
Nov-21	1.74	1.1051	1.676	0.507	33.153	20.617	12.536	38%	59%	116
Dec-21	5.47	1.8524	5.47	0.938	57.424	20.549	36.875	64%	88%	379
	Total In.	Avg.	Max.	Min.	Total WW	Total W	Total I&I	Percent I&I	Max Peak I&I	Peak gpcd
2019	59.38	1.372	6.224	0.574	500.837	266.307	234.530	47%	88%	443
2020	54.37	1.180	7.539	0.405	431.751	263.559	168.192	39%	91%	535
2021	65.84	1.432	7.7	0.507	522.784	274.611	248.173	47%	89%	534
Notes:	OUCC calcu								2019	Est. Population
	Green cells indicate excessive I&I > 275 gallons per capita per day ("gpcd").									14,035
	Yellow cell	s indicate	e exfiltr	ation (oss of sewa	age from sys	stem).		2020	14,101
	2021									

OUCC Monthly I&I Calculations for the Ellettsville / ERSC Sewer Systems 2019 to 2021

This content is from the eCFR and is authoritative but unofficial.

Title 40 - Protection of Environment

Chapter I - Environmental Protection Agency

Subchapter B - Grants and Other Federal Assistance

Part 35 - State and Local Assistance

Subpart I - Grants for Construction of Treatment Works

Authority: Secs. 101(e), 109(b), 201 through 205, 207, 208(d), 210 through 212, 215 through 219, 304(d)(3), 313, 501, 502, 511 and 516(b) of the Clean Water Act, as amended, 33 U.S.C. 1251 *et seq.* Source: 49 FR 6234, Feb. 17, 1984, unless otherwise noted.

Authority: 42 U.S.C. 7401 et seq.; 33 U.S.C. 1251 et seq.; 42 U.S.C. 300f et seq.; 42 U.S.C. 6901 et seq.; 7 U.S.C. 136 et seq.; 15 U.S.C. 2601 et seq.; 42 U.S.C. 13101 et seq.; Pub. L. 104-134, 110 Stat. 1321, 1321-299 (1996); Pub. L. 105-65, 111 Stat. 1344, 1373 (1997), 2 CFR 200.

§ 35.2120 Infiltration/Inflow.

- (a) **General.** The applicant shall demonstrate to the Regional Administrator's satisfaction that each sewer system discharging into the proposed treatment works project is not or will not be subject to excessive infiltration/inflow. For combined sewers, inflow is not considered excessive in any event.
- (b) Inflow. If the rainfall induced peak inflow rate results or will result in chronic operational problems during storm events, or the rainfall-induced total flow rate exceeds 275 gpcd during storm events, the applicant shall perform a study of the sewer system to determine the quantity of excessive inflow and to propose a rehabilitation program to eliminate the excessive inflow. All cases in which facilities are planned for the specific storage and/or treatment of inflow shall be subject to a cost-effectiveness analysis.
- (c) Infiltration.
 - (1) If the flow rate at the existing treatment facility is 120 gallons per capita per day or less during periods of high groundwater, the applicant shall build the project including sufficient capacity to transport and treat any existing infiltration. However, if the applicant believes any specific portion of its sewer system is subject to excessive infiltration, the applicant may confirm its belief in a cost-effectiveness analysis and propose a sewer rehabilitation program to eliminate that specific excessive infiltration.
 - (2) If the flow rate at the existing treatment facility is more than 120 gallons per capita per day during periods of high groundwater, the applicant shall either:
 - (i) Perform a study of the sewer system to determine the quantity of excessive infiltration and to propose a sewer rehabilitation program to eliminate the excessive infiltration; or
 - (ii) If the flow rate is not significantly more than 120 gallons per capita per day, request the Regional Administrator to determine that he may proceed without further study, in which case the allowable project cost will be limited to the cost of a project with a capacity of 120 gallons per capita per day under appendix A.G.2.a.

(Approved by the Office of Management and Budget under control number 2040-0027)

[49 FR 6234, Feb. 17, 1984, as amended at 50 FR 45895, Nov. 4, 1985]

OUCC Population Served Estimates Ellettsville Water & Wastewater and ERSC Wastewater

Ellettsville Water EDUs - (includes Ellettsville Water Customers in ERSC's									
Service Territory) based on IURC Annual Reports									
		2019		2020		2021			
Residential Customers		4,954		5,050		5,150			
Commercial EDUs		563		504		569			
Multi-Family EDUs		284		275		245			
Total EDUs		5,802		5,829		5,964			
People at 2.42/ EDU		14,035		14,101		14,431			
Residential Sales	\$	1,434,581	\$	1,535,806	\$	1,505,374			
Commercial Sales	\$	163,106	\$	153,312	\$	166,350			
Multi-Family Sales	\$	82,346	\$	83,491	\$	71,674			

Eastern Richland Sewer Corp. Wastewater EDUs								
		2019		2020		2021		
Residential Customers		2,157		2,212		2,256		
Commercial EDUs		259		219		260		
Multi-Family EDUs		0		0		0		
Total EDUs		2,416		2,431		2,516		
People at 2.46/ EDU		5,942		5,980		6,188		
Residential Sales	\$	927,567	\$	972,186	\$	948,615		
Commercial Sales	\$	111,197	\$	96,245	\$	109,145		
Multi-Family Sales	\$	-	\$	-	\$	-		

OUCC Calculated Ellettsville Wastewater EDUs								
	2019	2020	2021					
Residential Customers	2,797	2,838	2,894					
Commercial EDUs	305	285	310					
Multi-Family EDUs	284	275	245					
Total EDUs	3,386	3,398	3,449					
People at 2.39/ EDU	8,093	8,120	8,242					

Note: The OUCC's estimated values for EDUs shown in red text were calculated based on the ratio of water and wastewater sales for commercial and multi-family to residential sales.

Eastern Richland Sewer Corp. Cause No. 45776-U Prepared by: Jim Parks / OUCC February 16, 2023

OUCC Attachment JTP-6 Cause No. 45776-U Page 1 of 31

SEMAGE TREATMENT PURCHASE CONTRACT

THIS CONTRACT, for the treatment of sewage and maintenance of sewage system is entered into as of the <u>file</u> day of <u>Monocology</u>, 1971, between the TOWN OF ELLETTSVILLE, hereinafter referred to as the Seller and the EASTERN-RICHLAND SEWER CORPORATION; hereinafter referred to as the Purchaser, WITNESSETE:

. 2

WHEREAS, the Purchaser is organized and established under the provisions of Chapter 157 of the Acts of 1935, for the purposes of constructing and operating a sewage collection system serving sewer users within the area described in plans now on file in the office of the Purchaser and to accomplish this purpose, the Purchaser will require the treatment and disposal of collected wastes and the maintenance of the collection system.

WHEREAS, the Seller owns and operates a sewage treatment system and plant with a capacity currently capable of serving the present customers of the Seller's system and is constructing an additional system to serve the estimated number of sewer users to be served by the said Purchaser as shown in the plans of the system now on file in the office of the purchaser; and

WHEREAS, by Ordinance No. 11.4' enacted on the 1.5''day of Mnile M. 2.4, 19/1, by the Seller, the treatment and disposal of collected wastes and the maintenance of the collection system of Purchaser by Seller in accordance with the provisions of said Ordinance was approved, and the execution of this Contract carrying out the said treatment and disposal of collected wastes and the maintenance of the collection system by the Town Board and attested by the Clerk-Freasurer was duly

authorized; and

OUCC Attachment JTP-6 Cause No. 45776-U Page 2 of 31

* .

-2-

WHEREAS, by Resolution of the Board of Directors of Eastern Richland Sewer Corporation, Purchaser, adopted a Resolution on the <u>TA</u> day of <u>Access</u>, 1971, authorizing the purchase of treatment and disposal of collected wastes and the maintenance of the collection system, from the Seller in accordance with the terms set forth in the said Resolution was approved, and the execution of this Contract by the Board of Directors, and attested by the Secretary, was duly authorized. NOW, THEREFORE, in consideration of the foregoing and the mutual agreements hereinafter set forth, THE SELLER AGREES:

° i ,

1. QUALITY AND QUANTITY- To treat all sewage collected by the Purchaser during the term of this contract or any renewal or extension thereof, treatment or disposal of collected wastes meeting applicable quality standards of the State of Indiana, in such quantity as may be required by the Purchaser, not to exceed <u>6,000,000</u> gallons per month. The Seller shall accept the sewage and waste delivered for treatment and disposal as herein provided subject to such reasonable rules and regulations as may be adopted from time to time by the Seller. The Purchase: agrees that it will exercise due diligence and effort to prevent storm water, ground sewage and infiltration effluent from being introduced into Purchaser's collection system.

 POINT OF DELIVERY - The sewage and collected waste will be delivered at a point located in accordance with the plan and specifications to the Town of Ellettsville sanitary system.

3. <u>METERING EQUIPMENT</u> - To furnish, install, operate, and maintain at its own expense at point of delivery, the necess metering equipment, including a meter house or pit, and required devices of standard type for properly measuring the quantity of the collected wastes delivered to the Seller and to calibrate such metering equipment whenever requested by the Purchaser

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hut not more frequently than once every twelve (12) months. The previous readings of any meter disclosed by test to be inaccurate shall be corrected for the two (2) months previous as mutually agreed between the Seller and Purchaser. If any meter fails to register for any period, the amount of waste treated during such period shall be deemed to be the amount of wastes delivered in the corresponding period immediately prior to the failure, unless Selk and Purchaser shall agree upon a different amount. The metering equipment shall be read on the 1st day of the month. An appropriate official of the Purchaser at all reasonable times shall have access to the meter for the purpose of verifying its readings.

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4. <u>BILLING PROCEDURE</u> - To furnish the Purchaser at the above address not later than the 10th day of erch month, with an itemized statement of the amount of wastes delivered during the preceding month to the Seller for treatment.

5. <u>BILLING OF PURCHASER'S USERS</u> - The Seller shall bill the users of Purchaser according to the rates and amounts determined by Purchaser. The Seller will furnish to Purchaser each month such statements or records that the Purchaser may require and maintain all records and books available for Purchaser's inspection.

6. <u>BILLING FOR MAINTENANCE</u> - The Seller shall maintain, connect and disconnect Purchaser's lines and service Purchaser's collection system and inspect lines and systems connected and bill the Purchaser each month for actual cost of labor, materials and equipment plus fifteen per cent (15%) for overhead and mileage at twelve (12) cents per mile.

THE PURCHASER AGREES:

 <u>RATES AND PAYMENT DATE</u> - To pay the Saller, not late: than the 15th of each month for the volume of wastes treated in accordance with the schedule of rates set out in Schedule A. In

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-4-

2. <u>CONNECTION FEE</u> - To pay as an agreed cost, a connection fee to connect the Seller's system with the system of the Purchaser the sum of One Hundred Twenty Thousand Three Hundred Dollars (\$120,300,00) which shall cover any and all costs of the Seller for installation of the metering equipment and the necessary enlargement of the sewage treatment plant by the Town of Ellettsvill

3. <u>MAINTENANCE EASEMENTS</u> - The Purchaser will acquire permanent easements for maintenance purposes eight (8) feet on either side of the Purchaser's **Swer** lines as finally installed so that the Seller can maintain, connect and disconnect Purchaser's lines and service Purchaser's collection system and inspect lines and systems connected.

IT IS PURTHER MUTUALLY AGREED BETWEEN THE SELLER AND THE PURCHASER AS FOLLOWS:

1. <u>TERM OF CONTRACT</u> - That this contract shall extend for a term of Sixty (60) years from the date of the initial delivery of any collected wastes as shown by the first bill submitted by the Seller to the Purchaser, and thereafter may be renewed or extended for such term, or terms, as may be agreed upon by the Seller and Purchaser.

2. <u>DELIVERY OF COLLECTED SEWAGE</u> - The Purchaser will notify the Seller at least thirty (30) days in advance in writing the date for the initial delivery of sewage wastes.

3. <u>PAILURE TO RECEIVE</u> - That the Seller will, at all times, operate and maintain its system in an efficient manner and will take such action as may be necessary to treat for the Purchase

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such quantities of collected wastes and maintain the collection system required by the Purchaser. Temporary or partial failures to treat and dispose of collected wastes and the maintenance of the collection system shall be remedied with all possible dispatch:

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4. MODIFICATION OF CONTRACT - That the provisions of this contract pertaining to the schedule of rates to be paid by the Purchaser for treatment and disposal of collected wastes and the maintenance of the collection system, delivered are subject to modification at the end of every two (2) year period. Any increase or decrease in rates shall be based on a demonstrable increase or decrease in the costs of performance hereunder, but such costs shall not include increased capitalization of the Seller's system, except that such increases in capitalization required to serve the Purchaser shall be included as hereinafter provided. Other provisions of this contract may be modified or altered by mutual agreement.

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5. EXPANSION OF SEWAGE WORKS - In the event the introduction of sewage into the sewage works of the Seller by the Purchaser, in excess of <u>6.000.000</u> gallons per month, is the basis for the expansion, remodeling or installation of new equipment in the sewage works of the Seller or as a result of rules, regulations or orders of agencies or bodies of the State of Indiana, the cost of said expansion, remodeling or new equipment shall be divided between the parties, based upon the agreement of the parties at that time.

6 <u>EXPANSION OF SEWAGE COLLECTION</u> - In the event of annexation by the Town of Ellettsville of areas served by Purchaser collection system, the Seller shall have the option of purchasing said lines and collection system in the area annexed by the Town of Ellettsville. It is recognized that the purchase of the

OUCC Attachment JTP-6 Cause No. 45776-U

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collection system would be conditioned on approval of the United States of America, acting through the Farmers Home Administration or their successor agencies since a loan made or insured by and/or a grant from the preceding financed the construction of the projec The purchase price shall be based on the original cost of installation of the lines to be purchased and shall be subject to the approval and upon terms acceptable to the Farmers Home Administrat or its successor agency.

7. <u>REGULATORY AGENCIES</u> - That this contract is subject to such rules, regulations, or laws as may be applicable to similar agreements in this State and the Seller and Purchaser will collaborate in obtaining such permits, certificates, or the like, as may be required to comply therewith.

8. <u>MISCELLANEOUS</u> - That the construction of the collection system by the Purchaser is being financed by a loan made or insured by, and/or a grant from, the United States of America, acting through the Farmers Home Administration of the United States Department of Agriculture, and the provisions hereof pertaining to the undertaking of the Purchaser are conditioned upon the approval, in writing, of the State Director of the Farmers Home Administration.

9. <u>SUCCESSOR TO THE PURCHASER</u> - That in the event of any occurence rendering the Purchaser incepable of performing under this contract, any successor of the Purchaser, whether the result of legal process, assignment, or otherwise, shall succeed to the rights of the Purchaser hereunder.

IN WITNESS WHEREOF, the parties hereto, acting under authority of their respective governing bodies, have caused this contract to be duly executed in _7__ counterparts, each of which shall constitute an original.

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		ELLETTSVILLE,	Serrec

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EASTERN RICHLAND SEWER CORPORATION, Purchaser

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ATTEST:

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Secretary

This contract is approved on behalf of the Farmers Hone

President

Administration this _____ day of _____, 1971.

By:

This instrument prepared by: STEPHEN L. FERCUSON

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STEPHEN L. FERCUS ON Attorney at Law 1215 West Kirkwood Avenue Bloomington, Indiana 47401

OUCC Attachment JTP-6 Cause No. 45776-U Page 8 of 31

TREATMENT COST

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All sewage supplied to the Saller will be treated, up to the maximum allowable by this Contract, at a charge of Thirty-five cents (\$.35) per every One Thousand (1,000) gallons. This charge is expected to cover only the actual treatment of the sewage.

TOWN OF ELLETTSVILLE, Seller

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ATTEST:

Clerk-Treasurer

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EASTERN RICHLAND SEWER CORPORATION, Purchaser

President

ATTEST:

Secretary

This schedule is approved on behalf of the Farmers Nome Administration this _____ day of _____, 1972.

OUCC Attachment JTP-6 Cause No. 45776-U Page 9 of 31

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SEWAGE TREATMENT PURCHASE CONTRACT

This contract for the treatment of sewage and maintenance of a sewage system is entered into between the Town Trustees of Ellettsville, representing the Town of Ellettsville, Indiana, hereinafter referred to as the "Seller", and the Eastern=Richland Sewer Corporation, hereinafter referred to as the "Purchaser".

WITNESSETH:

WHEREAS, pursuant to Ordinance No. 164 enacted on the first day of November, 1971, the parties entered into a sewage treatment purchase contract, dated the 9th day of November, 1971, and

WHEREAS, this sewage treatment purchase contract has been subsequently amended by agreement on various occasions, and

WHEREAS, Seller has recently expanded and improved the capacity of its sewage treatment plant thereby increasing the cost of operation, and

WHEREAS, the sewage treatment purchase contract dated the 9th day of November, 1971, provided for modification of the contract at the end of every two (2) years,

NOW, THEREFORE, IN CONSIDERATION OF THE FOREGOING AND THE MUTUAL AGRREMENTS hereinafter set forth, the Seller and the Purchaser agree to:

 Reaffirm the contract between the parties heretofore entered into on the 9th day of November, 1971.

2. Amend the agreement between the parties as evidenced by the contract dated November 9th, 1971, and all subsequent amendments so that Seller shall bill the Furchaser as follows:

a. the sum of Sixty-two Thousand Two and Sixty-six Dollars (\$62,266.00) which represents 45.19% of the debt service and reserve requirements for the period of May 1st, 1985, to April 30th, 1986; the sum of Thirty-one Thousand Dollars (\$31,000.00) is payable upon execution of this contract and the balance within three (3) years. To the outstanding balance a Pive Hundred Dollar (\$500.00) administration fee shall be added;

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b. At the rate of Sixty and Cents (60c) per one thousand gallons of sewage collected from the purchaser's system, the amount of sewage collected from the purchaser's system shall be determined by the water usage of the purchaser's customers for the month plus Thirty Percent (30%) of said amount to allow for infiltration of purchaser's lines. In addition, an amount shall be added for those customers who are not on the Town of Ellettsville Water System equal to their estimated billing plus Thirty Percent (30%);

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c. 45.19% of the monthly debt service requirements, Bloomington treatment costs and additional pumping costs for the new lift stations starting May 1st, 1986. The portion of the bill representing the monthly debt service requirement will be Two Thousand Six Hundred and Thirty-six Dollars (\$2,636.00) per month and;

d. 45.19% of all bills previously issued to the Town by the City of Bloomington for sewage treatment costs for services rendered prior to May 1, 1986.

3. Both parties to this agreement agree that they shall take affirmative steps to examine and inspect their respective sewer systems in order to discover and eliminate infiltration. It is the intent of this provision that both parties will take all necessary, reasonable and prudent steps to eliminate infiltration in their systems.

4. Charge for billing Seventy-five (75¢) for each customer of Purchaser served by Seller and collection.

5. Apply the terms of this contract effective May 1, 1986, and all fees thereafer shall be calculated according to the provisions of this contract.

6. This proposal shall be in full force and effect until such time as a full cost on the service analysis can be conducted based upon twelve (12) months of accumulated data from the City of Bloomington. Once the cost of service analysis is performed, this billing process shall be re-evaluated and a more permanent billing arrangement will be established. IT IS FURTHER UNDERSTOOD AND AGREED between Purchaser and insorar as they do not contradict the provisions of this agreement

remain in full force and effect.

IN WITNESS WHEREOF, the parties hereto have executed this agreement the <u>16</u> day of <u>500E</u>, 1986.

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TOWN OF ELLETTSVILLE, INDIANA

BY: Dennis Fisher, President of the Town Board of Trustees

ATTEST:

Eng erk-Treasurer EUGENCE WOLFE

EASTERN-RICHLAND SEWER CORPORATION

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OUCC Attachment JTP-6 Cause No. 45776-U Page 12 of 31

BEWAGE TREATMENT PURCHASE CONTRACT

THIS CONTRACT, for the treatment of sewage and maintenance of sewage system is entered into as of the 12% day of _______ day of _______ day of ________, 1996, between the TOWN OF ELLETTSVILLE, hereinafter referred to as the Seller, and the EASTERN-RICHLAND SEWER CORPORATION, hereinafter referred to as the Purchaser, WITNESSETH:

WHEREAS, the Purchaser is organized and established under the provisions of Chapter 157 of the Acts of 1935 for the purposes of constructing and operating a sewage collection system serving sewer users within the area described in plans now on file in the office of the Purchaser and to accomplish this purpose, the Purchaser will require the treatment and disposal of collected wastes and the maintenance of the collection system.

WHEREAS, the Seller owns and operates a sewage treatment system and plant with a capacity currently capable of serving the present customers of the Seller's system and is constructing a new waste water treatment facility and trunk line to increase capacity.

WHEREAS, pursuant to Ordinance No. 164 enacted on the 1st day of November, 1971, the parties entered into a Sewage Treatment Purchase Contract dated the 9th day of November, 1971, and WHEREAS, the seller is embarking on building a new sewage treatment plant thereby increasing the cost of operation, and

WHEREAS, the Sewage Treatment Contract dated the 9th day of November, 1971, provided for modification of the contract at the end of every two (2) years,

NOW, THEREFORE, in consideration of the foregoing mutual agreements hereinafter set forth, the Seller and the Purchaser agree to :

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Reaffirm the contract between the parties heretofore 1. entered into on the 9th day of November, 1971.

Amend the agreement between the parties as evidenced by 2. the contract dated November 9, 1971, so that the Seller shall bill the Purchaser according to the following schedule:

> Interim Rates beginning October 1, 1996, or upon a. approval by the I.U.R.C., whichever is later, to January 1, 1998:

> A monthly capacity payment of Seven Thousand Eight (1)Hundred and Twenty-five Dollars (\$7,825.00);

> A flow rate of Two Dollars and Forty-seven Cents (2) (\$2.47) per thousand gallons of water used by Purchaser's customers based on water meter readings. In addition. for those customers who are not on the town of Ellettsville water system, an estimated amount of water usage shall be assigned to those customers;

Monthly rates shall be further amended on January 1, b. 1998 after negotiation:

з. Charge for billing and collection One Dollar and Seventy Cents (\$1.70) for each customer of Purchaser served by Seller.

4. Because SRF proceeds are being used to fund the improvements, this contract shall be reviewed and be subject to modification annually.

It is anticipated that the plant will have a capacity of 5. 2.3 MGD or 7,700 Equivalent Daily Usage (EDU). An EDU is equal to 298.7 gallons per day. Provided that such capacity is available, Seller agrees to accept Purchaser's sewage and waste delivered for treatment and disposal in an amount not to exceed 3,200 EDUs per ersc\contract

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day.

5. Both parties to this agreement agree that they shall take affirmative steps to examine and inspect their respective sewer systems in order to discover and eliminate infiltration. It is the intent of this provision that both parties will take all necessary, reasonable and prudent steps to eliminate infiltration in their systems.

7. The June 16, 1986 Amendment of the Contract shall be of no further force or effect as the allocations of debt service and reserve requirements and Bloomington treatment costs and additional pumping costs are incorporated in the rate identified in paragraph 2 of this Contract. The remainder of the contract dated November 9, 1971, shall remain in full force and effect.

8. The rates to be paid are subject to approval of the Indiana Utility Regulatory Commission as to the Purchaser.

IN WITNESS WHEREOF, the parties have executed this agreement this 17 M day of Nyyyt, 1996.

TOWN OF BLLETTSYLLLE Βv Mr. Ama 🕄 Cornman, President Ellettsville Town Council

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	EASTERN-RICHLAND SEWER CORPORATION By:, President
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SEWAGE TREATMENT PURCHASE CONTRACT

THIS CONTRACT, for the treatment of sewage is entered into as of the 1st day of January, 1998, between the TOWN OF ELLETTSVILLE, hereinafter referred to as the "Town", and the EASTERN RICHLAND SEWER CORPORATION, hereinafter referred to as the "Eastern".

In consideration of the mutual agreements hereinafter set forth, the Town and Eastern agree to further amend the contract between the parties dated November 9, 1971, as follows:

1. The Town shall charge Eastern according to final rates beginning after meter readings in January 1998, payable in February 1998, or upon approval by the Indiana Utility Regulatory Commission, hereinafter referred to as I.U.R.C., whichever is later, as follows:

> (A) A monthly capacity payment of Twenty-seven Thousand, Five Hundred and Forty-five Dollars +(\$27,545.00) beginning on February 15, 1998; and
> (B) A flow rate of One Dollar and Ninety-eight Cents
> (\$1.98) per thousand gallons of water used by Eastern's customers based on retail water sales meter readings. In addition, for those customers who are not on a metered water system, an estimated amount of water usage shall be assigned to those customers.

2. The Town shall charge Eastern for billing and collection One Dollar and Seventy Cents (\$1.70) for each customer of Eastern served by the Town.

3. A portion of the monthly capacity payment identified in paragraph 1(A) shall be designated as an annual contribution to the

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replacement account by the parties. The annual amount contributed by Eastern shall be Fifty-two Thousand, Six Hundred and Eighty Dollars (\$52,680.00). The annual amount contributed by the Town of Ellettsville shall be Sixty-nine Thousand, Nine Hundred and Fiftythree Dollars (\$69,953.00).

 The Town shall provide to Eastern Richland an annual accounting of the receipts and disbursements of the replacement account.

5. Monies deposited in the replacement account shall be spent only on improvements that are jointly beneficial to Eastern and the Town.

6. The plant has capacity of Two Million, Three Hundred Thousand gallons per day (2.3 MGD) or Seven Thousand, Seven Hundred (7,700) Equivalent Dwelling Units (EDU). An EDU is equal to 298.7 gallons per day. Given that such capacity is available, the Town agrees to accept Eastern's sewage and waste delivered for treatment and disposal in an amount not to exceed Three Thousand, Two Hundred (3,200) EDUs per day.

Eastern shall allocate such capacity to its customers as it reasonably deems appropriate and shall receive from its customers and retain the membership and connection fee authorized by Eastern's rates and charges.

Because Eastern is paying a monthly capacity payment, the Town shall no longer charge Eastern's customers the One Thousand Dollar (\$1,000.00) sewer availability fee.

7. Both parties to this agreement agree that they shall take affirmative steps to examine and inspect their respective sever systems in order to discover and reduce infiltration. It is the

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intent of this provision that both parties will take all necessary, reasonable and prudent steps to reduce infiltration in their systems.

8. Because the State Revolving Fund loan program requires a five year funding of the debt reserve, the monthly capacity payment described in paragraph 1(A) shall be reduced on September 1, 2001, to Twenty-four Thousand, Three Hundred and Twenty-five Dollars (\$24,325.00).

9. Because State Revolving Fund loan proceeds have been used to fund the improvements, this contract shall be reviewed and be subject to modification annually.

10. The June 16, 1986 Amendment of the 1971 Contract shall be of no further force or effect as the allocations of debt service and reserve requirements and Bloomington treatment costs and additional pumping costs are incorporated in the rate identified in paragraph 1 of this Contract

11. The rates to be paid by Eastern are subject to approval of the Indiana Utility Regulatory Commission of Eastern's Application for Wholesale Sewage Treatment Cost Tracking Factor.

IN WITNESS WHEREOF, the TOWN OF ELLETTSVILLE has executed this agreement this 9^{+i} day of January, 1998.

February TOWN OF ELLETTSVILLE

By: TIMM Michael D. Cornman, President Ellettsville Town Council

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ATTEST:

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Clerk-Treasurer Diana Evans.

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EASTERN RICHLAND SEWER CORPORATION

By: Curt Hayes, President

ATTEST:

David Willibey, Secretary

This instrument prepared by:

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JAMES H. FERGUSON FERGUSON & FERGUSON Attorneys at Law 403 East Sixth Street Bloomington, Indiana 47408-4098 (812) 330-2030

AMENDMENT TO SEWAGE TREATMENT PURCHASE CONTRACT

This Amendment to Sewage Treatment Purchase Contract, dated this 216 day of March _____. 2009, is entered into by and between the Town of Ellettsville ("Town") and Eastern Richland Sewer Corporation ("Eastern").

RECITALS

1. The Town and Eastern have entered into a Sewage Treatment Purchase Contract, dated November 9, 1971, and amendments executed June 16, 1986; August 12, 1996; and February 9, 1998.

2. Wastewater treatment costs and expenses have increased since 1998, necessitating an amendment to the flow rate that the Town charges Eastern.

NOW THEREFORE, in consideration of the mutual covenants expressed herein, the parties agree as follows:

the tracking to the tracking Eastern shall proceed with due diligence to obtain the IURC's approval of 1. the rate increases set forth below; however, if the IURC denies Eastern's application for EASTERN VERTFIES THAT UPON Paragraphs 1(B) and 1(C) of the amended Sewage Treatment Purchase rate increases, the following amendments shall be void.

2.

Contract, dated February 9, 1998, shall be amended to read as follows:

Effective for meter readings to be made in May of 2009 and **(B)** billed in June of 2009, or upon approval by the Indiana Utility Regulatory Commission ("IURC"), whichever is later, a flow rate of Two Dollars and Twenty-Two Cents (\$2.22) per one thousand (1,000) gallons of water per month used by Eastern's customers based on retail water sales meter readings_

DEER SUCH APPROVAL AND WILL DILLGENTY DURSUE SUCH TRACKENT FACTOR APPROVAL WETHOUT DELAY.

- (C) Effective January 1, 2010, a flow rate of Two Dollars and Forty-Five Cents (\$2.45) per one thousand (1,000) gallons per month of water used by Eastern's customers based on retail water sales meter readings.
- 3. Except as amended herein, the Sewage Treatment Purchase Contract,

executed February 9, 1998, remains in effect.

TOWN OF ELLETTSVILLE

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Diana Bastin, President Ellettsville Town Council

Attest

Sandy Hash, Clerk/Treasurer

EASTERN RICHLAND SEWER CORPORATION

By: David Willibey, President

Attest: Eurt Hay Secretary

G: ERSC (Eastern Richland Sewer Corporation) Town of Elleusville Contract MattersuRate increase 2008; Amendment to Sewage Treatment Purchase Contract.flow rate, 0903. DOC

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AMENDMENT TO SEWAGE TREATMENT PURCHASE CONTRACT

This Amendment to Sewage Treatment Purchase Contract, dated this <u>24</u> day of <u>MARCA</u>, 2009, is entered into by and between the Town of Ellettsville ("Town") and Eastern Richland Sewer Corporation ("Eastern").

RECITALS

1. The Town and Eastern have entered into a Sewage Treatment Purchase

Contract, dated November 9, 1971, and amendments executed June 16, 1986; August 12,

1996; and February 9, 1998.

2. Billing and collections expenses have increased since 1998, necessitating

an amendment to the amount that the Town charges Eastern for these services.

NOW THEREFORE, in consideration of the mutual covenants expressed herein,

the parties agree as follows:

1. Paragraph 2 of the amended Sewage Treatment Purchase Contract, dated

February 9, 1998, shall be amended to read as follows:

2. <u>BILLING AND COLLECTION CHARGES</u>. Monthly, Eastern shall pay the Town a base charge plus a postage charge for each of Eastern's customers for whom the Town provides wastewater treatment services. These monthly charges shall be calculated according to the following schedule:

In 2009 the base charge shall be \$1.86. The postage charge shall be \$0.242. The total charge for each customer billed shall be \$2.102.

In 2010 the base charge shall be \$2.26. The postage charge shall be the postage rate in effect at the time the bills are sent.

In 2011 the base charge shall be \$2.66. The postage charge shall be the postage rate in effect at the time the bills are sent.

As consideration for Eastern's agreeing to the above increases in billing and collection charges, the Town shall immediately dismiss with prejudice its Third-Party Complaint against Eastern, pending in Monroe Circuit Court, cause number 53C01 0804 PL 00811. Furthermore, the Town releases Eastern from any and all actions, claims, demands, causes of action, damages, punitive damages, costs, expenses, and any liability of any kind or nature whatsoever, known and unknown, including court costs, which the Town now has, claims or asserts, or might or could hereafter claim or assert against Eastern as a result of, growing out of, or in any manner connected with its billing of and collecting payments from Eastern's customers prior to implementation of the above increase in billing and collection charges.

As further consideration for Eastern's agreeing to the above increases in billing and collection charges, the Town shall strive to make its billing and collections more economical and shall adopt cost-saving technologies as soon as practicable.

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Beginning in -2012 and no more frequently thereafter than two (2) years since any prior increase or decrease in the base charge, either party may request that the parties review the Town's billing and collection services to determine whether to increase or decrease the base charge, or to change the billing methodology and to outsource some or all of the billing procedure.

2. Except as amended herein, the Sewage Treatment Purchase Contract, MARCH 24, 2009

executed February 9, 1998, remains in effect.

TOWN OF ELLETTSVILLE

Diana Bastin, President Ellettsville Town Council

Attest:

Sandy Hash, Clerk/Treasurer

EASTERN RICHLAND SEWER CORPORATION

By: David Willibey, President

Attest: Curt Hayes Secretar

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G:\ERSC (Eastern Richland Sewer Corporation)\Town of Ellettsville Contract Matters\Rate increase_2008\Amendment to Sewage Treatment Purchase Contract billing charges.090310.DOC

SETTLEMENT AGREEMENT AND MUTUAL RELEASE

This SETTLEMENT AGREEMENT AND MUTUAL RELEASE (hereafter "Agreement") is hereby made and entered into by and between Eastern Richland Sewer Corporation (hereinafter "ERSC") and Town of Ellettsville (hereafter "Town"), collectively the "Parties".

Recitals

WHEREAS, ERSC executed a Sewage Treatment Purchase Contract with Town on The 9th day of November, 1971, which has been subsequently amended various times ("Treatment Purchase Contract"); and

WHEREAS, disputes have arisen between ERSC and Town regarding the terms of the Treatment Purchase Contract; and

WHEREAS, ERSC initiated a lawsuit against Town in the Monroe Circuit Court under cause number 53C01-1707-PL-001491 ("Litigation"); and

WHEREAS, Town filed a counter-claim against ERSC in the Litigation; and

WHEREAS, the Parties desire to resolve all of the disputes between them without the expense, delay and uncertainty of continued litigation; and

WHEREAS, the Parties have reached an agreement whereby, in consideration of the performance of the covenants and agreements set forth herein, the Parties will mutually release each other from any claims, known or unknown, existing as of November 12, 2020 or arising outof the Treatment Purchase Contract and/or the Litigation.

NOW, THEREFORE, the Parties agree as follows:

A. Treatment Purchase Contract Amendment.

The Parties agree to amend the Treatment Purchase Contract as follows:

1. In lieu of the capacity payment, ERSC will make Ten Thousand Dollars (\$10,000.00) monthly payments as a capital contribution to Town of Ellettsville Utilities. Payment shall commence upon receipt of the next regular invoice from the Town in January 2022.

- 2. The Town of Ellettsville Utilities will establish a wastewater treatment facility Capital Reserve Account ("CRA") to receive and hold the monthly capital contributions by ERSC.
- 3. Town of Ellettsville Utilities will pay \$10,000.00 per month to the CRA.
- 4. The capital account will be under the control of Town of Ellettsville Utilities, but designated for restricted use as follows:
 - a. Expansion of the treatment plant and related facilities (not including ordinary maintenance or repair).
 - b. Repair (excepting ordinary or routine maintenance and repair expenses), replacement or construction of required treatment facilities in accordance with good engineering practice.
 - c. CRA funds may be used for the replacement of existing equipment necessary to prolong the life of the Town's wastewater treatment plant, including but not limited to, ultra-violet lights, motors, pumps, blowers, and including labor costs associated with the installation of capital assets.
 - d. For other approved expenditures as listed on Exhibit A, a copy of which is attached hereto and incorporated herein.

The Town of Ellettsville shall retain, maintain and disburse funds from the CRA as appropriate in its reasonable discretion but consistent with paragraph 4, above. Town of Ellettsville shall provide to ERSC copies of activity report ledgers pertaining to the CRA not less frequently than every six (6) months and shall report any capital expenditure from the account not later than thirty (30) days after the expenditure.

B. Hook-on Fees.

Hook-on fees are subject to increase based on a cost of service or rate study. ERSC retains the 3900 EDUs assigned to ERSC in the Treatment Purchase Contract, as amended.

C. Settlement of Counter-Claim.

ERSC shall contribute a one-time payment in the amount of \$660,000.00 to Town of Ellettsville Utilities within fourteen (14) days of the date of final signature on this Agreement. Said funds shall be deposited in the CRA and subject to the disbursement as set forth in paragraph 4 above.

D. Billing Services.

The Town of Ellettsville Utilities has provided billing services to ERSC. The computer records maintained by Town of Ellettsville Utilities has membershipdata and billing history for the properties connected to the ERSC sewer collection system, which ERSC would like to access. A computer software program can be prepared to capture the identification of ERSC's members, including names and addresses and billing history associated with each member's address. At ERSC's sole expense, estimated to be Three Thousand Dollars (\$3,000.00), the Town of Ellettsville will commission the preparation of the computer software program as described above for installation on the Utilities' computer system so long as the program does not conflict with other programs or software on the Utilities' computer system. The Town of Ellettsville Utilities will periodically prepare a membership report and billing history report and remit the same to ERSC but not less frequently than once every six months.

E. Future Treatment Rate Changes and Cost of a New Plant,

- 1. The parties acknowledge that the Treatment Purchase Contract provides for adjustment of the treatment rate charged by Town of Ellettsville Utilities to ERSC upon receipt of evidence supporting a treatment rate change. The Parties stipulate and covenant to exchange such evidence and to confer on the treatment rate change issue at reasonable times. Ellettsville Utilities agrees to provide opportunities for ERSC to review relevant treatment rate change evidence which may include, but not be limited to: a cost of service study, a rate study or other evidence or documentation prepared by Ellettsville and pertaining to a proposed change in the treatment rate charged by Town to ERSC. ERSC covenants to work in good faith with Town of Ellettsville Utilities, including Town's and ERSC's advisors and CPAs to evaluate the evidence and upon demonstration that the evidence supports a treatment rate change, Town and ERSC shall execute a further amendment of the Treatment Purchase Contract to reflect the then agreed upon treatment rate change. The treatment rate change shall become effective not later than 90 days after the Town Adopts a new rate ordinance.
- 2. In the event that the parties cannot agree upon a rate change, the parties agree that the Town may at its election institute a new treatment rate using wholesale agreement utility ratemaking practices. The treatment flow rate is and will be based on each party's pro rata share of the treatment plant and conveyance related operating, repair and maintenance expenses along with equipment replacement costs and capital improvements based on the percentage of treatment plant flow. Only appropriate administrative expenses allocated to the wastewater treatment division of the Utility will be allocated

to ERSC's treatment rate based on an allocation pro rata to all other expenses. ERSC's new rate will be based on ERSC's actual billed flows. ERSC covenants not to bring suit against the Town challenging the new rate if it is adopted based on a COS prepared in accordance with this Agreement.

3. In the event that the Town constructs a new sewer plant, ERSC agrees to share in those costs proportionate to its share of the new plant's capacity.

F. Mutual Release.

Each party does hereby release and forever discharge each other, their heirs, grantees, successors, servants, employees and assigns, including any affiliates of each party, as well as shareholders of any corporation, owners, directors, officers, employees and agents, and all other persons, firms or corporations liable or who might be claimed to be liable, none of whom admit any liability to the other, but who all expressly deny any liability from all actions, causes of action, claims, counterclaims and demands whatsoever, whether or not well founded in fact or law, that the parties may have against each other by reason of the Treatment Purchase Contract or arising out of the Litigation in the Monroe Circuit Court under Cause Number 53C01-1707-PL-001491, and any matter, cause or thing whatsoever which arises therefrom.

It is the Parties' express and specific intent and purpose that this instrument releases and forever discharges any and all claims, counterclaims and causes of action of any kind or nature whatsoever which each may assert against another arising out of the actions or damages by and between the Parties and/or the Litigation in the Monroe Circuit Court under Cause No. 53C01-I 707-PL-001491, of any nature. To effect that purpose, this Settlement Agreement and Mutual Release is intended to release all parties from any claims, counterclaims or causes of action which the undersigned may assert and arising from known or unknown claims or counterclaims, as well as consequences of any injury or damages suffered, known or unknown; and whether any such claims, counterclaims and causes of action are specifically mentioned or not in this instrument, which may exist or might be claimed to exist at or prior to the date of this instrument.

The Parties intend that the agreement evidenced by the release be in full satisfaction of any claims, counterclaims or causes of action which the undersigned may raise and the undersigned specifically waive any claim or right to assert that any cause of action or alleged cause of action, claim, counterclaim or demand which has been, through oversight, error, intentionally or unintentionally, by the undersigned omitted from this release.

Notwithstanding the foregoing, nothing in this Settlement Agreement and Mutual Release shall be construed to preclude any party hereto from taking steps to enforce the terms hereof (if it becomes applicable). The terms of this Settlement Agreement are not subject to ERSC's obtaining arate approval from the Indiana Utility Regulatory Commission.

G. Agreement Not to Slander or Defame Other Party.

The Parties covenant and agree that they will not engage in making any derogatorystatements or disparaging remarks about any other Party, including the officers, agents and employees of the Party, in any manner to include electronic communications, credit references, social media and online "lists" and ratings.

H. Persons Bound.

This Settlement Agreement and Mutual Release shall bind and inure to the benefit of the Parties and their respective trustees, heirs, personal representatives, agents, assigns, attorneys, executors, administrators, insurers, officers and employees.

1. Governing Law and Jurisdiction.

This Settlement Agreement and Mutual Release shall be governed by and construed under the laws of the State of Indiana, and the Monroe Circuit Courts in Bloomington, Indiana shall have exclusive jurisdiction over disputes arising hereunder.

J. Attorney Fees.

If any legal action must be taken to enforce the terms of this Settlement Agreement and Mutual Release, the prevailing party in such action shall be entitled, in addition to any other relief that may be granted, to recover from the other(s) a reasonable sum for attorney fees.

K.Drafter.

This Settlement Agreement and Mutual Release is the result of negotiations between the Parties and no party shall be deemed to be the drafter of this document.

L. Voluntary Agreement.

In making this settlement, each party, being duly advised by its attorneys, has carefully read this Settlement Agreement and Mutual Release and understands the contents, and has relied entirely on its own judgment, belief, and knowledge.

M. Integration.

All negotiations, considerations, representations and understanding between the parties are incorporated in this Settlement Agreement and Mutual Release, and may be modified or altered only by agreement in writing between the parties.

N. Counterparts,

This Settlement Agreement and Mutual Release may be executed in multiple counterparts, each of which shall be an original, but all of which together shall constitute one and the same instrument.

O. Agreement Subject to Approval of Both Boards.

ERSC and the Town agree that this Agreement shall be presented to the ERSC and Ellettsville town Council for their approval.

The Parties have executed this Settlement Agreement and Mutual Release on the dates opposite their names.

OUCC Attachment JTP-6 Cause No. 45776-U Page 30 of 31

EASTERN RICHLAND SEWER CORPORATION
By: Jos R Pedan
Printed: Joe R Peden
Title: President ERSC

Date: Sigt Jor 10, 2021

TOWN OF ELLETTSVILLE

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By: ICHAEL Printed RMR 6-0 Town MAINCER Title: ____

Date: Septemper 2.2021

Reviewed and approved as to Form:

Michael L. Carmin, CARMINPARKER, PC CARMINPARKER, PC Attorney for Eastern Richland Sewer Corp.

Darla S. Brown, STURGEON & BROWN , P.C. Attorney for Town of Ellettsville

OUCC Attachment JTP-6 Cause No. 45776-U Page 31 of 31

ELLETTSVILLE (INDIANA) MUNICIPAL SEWAGE WORKS

Waste water treatment plant items which have an annual replacement cost assigned to them for

accounting purposes:

Headworks Pumps Heavy Sludge Pump Scum Pump R.A.S. Pumps Digested Sludge Pumps Water Booster Pumps Post Aeration blowers Aerobic Digestor Blowers Sewage Grinder Grit Collector Grit Separator **Oxidation Ditch Equipment** Clarifier Drives Belt Filter Press Polymer Feed System Samplers Flow Meters UV System UV Bulbs Conveyor Electric Generator Controls Disc Membrane Diffusers Supervisory Control and Date Acquisition Equipment Treatment Plant Processing Equipment with a cost of over \$5,000



AFFIRMATION

I affirm, under the penalties for perjury, that the foregoing representations are true.

/s/ James T. Parks_____ James T. Parks Cause No.45776-U Indiana Office of Utility Consumer Counselor

02-16-2023

Date

CERTIFICATE OF SERVICE

This is to certify that a copy of the *Public's Exhibit No. 2 OUCC's Testimony of James T. Parks on behalf of the OUCC* has been served upon the following captioned proceeding by electronic service on February 16, 2023.

Otto W. "Buzz" Krohn O W KROHN & ASSOCIATES, LLP 231 E Main St. Westfield, IN 46074 Email: <u>buzz@owkcpa.com</u> Dale Rightley, Treasurer EASTERN RICHLAND SEWER CORPORATION 4750 N. Marybelle Way Bloomington, IN 47404 Email: <u>rightley@bluemarble.net</u>

David M. Z. Ving

Daniel M. Le Vay Deputy Consumer Counselor

INDIANA OFFICE OF UTILITY CONSUMER COUNSELOR

115 West Washington Street Suite 1500 South Indianapolis, IN 46204 infomgt@oucc.in.gov 317/232-2494 – Phone 317/232-5923 – Facsimile