

Date

Feb 23, 2024

Memo To

Board of Public Works

Memo From

Laura Kolo, Utility Services Manager 🔱

Subject

Wastewater Utility Monthly Report of Operations

for the month of January, 2024

Wastewater MRO Highlights

Parameter	Monthly Avg	Permit Limit
Suspended Solids mg/L	6	30
cBOD5 mg/L	3	25
Phosphorus mg/L	0.52	1.0
Ammonia mg/L	0.58	4.4 (Dec-Apr) 4.2 (May-Nov)
Avg Daily Flow MGD	16.51	Design - 20
Total Monthly Flow MGD	512	Report

Incident Reports Filed

Date	Location	Volume (gal)	Cause
01/08/24	726 Middlebury	247	grease
01/09/24	WWTP	39,200	pump overload tripped main feed
01/26/24	WWTP	<5000	unknown

Wet Weather Overflows

Number of Events	Total Overlfow Volume (MG)
4-3-5	3.9421

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Signing Process Confirmation - CDX Activity ID: _a726243c-b29e-4aa0-a38b-6adc6b72a551

Your DMRs are undergoing the Signing Process

SANCONOMINATION CONTRACTOR CONTRACTOR AND				
IN0025674 ELKHART WWTP 005	005-C	CSO- ARCH/BAR, NW OF INTERSECTION	01/31/24	02/28/24
IN0025674 ELKHART WWTP 006	J-900	CSO- JACKSON, N OF BRIDGE, W OF ELKHART RIVER	01/31/24	02/28/24
IN0025674 ELKHART WWTP 007	007-C	CSO- JACKSON, N OF BRIDGE, E OF ELKHART RIVER	01/31/24	02/28/24
IN0025674 ELKHART WWTP 008	D-800	CSO- HUG/EAST BLVD	01/31/24	02/28/24
IN0025674 ELKHART WWTP 009	D-600	CSO- NIBCO PRKWY - FKA JR. ACHIEVEMENT (Y DR N)	01/31/24	02/28/24
IN0025674 ELKHART WWTP 011	011-C	CSO- ELKHART/FRANKLIN	01/31/24	02/28/24
IN0025674 ELKHART WWTP 012	012-C	CSO- CASSOPOLIS/BEARDSLEY	01/31/24	02/28/24
IN0025674 ELKHART WWTP 013	013-C	CSO- JOHNSON/BEARDSLEY	01/31/24	02/28/24
IN0025674 ELKHART WWTP 014	014-C	CSO- DAM AT CONE/ERWIN	01/31/24	02/28/24
IN0025674 ELKHART WWTP 015	015-C	CSO- MICHIGAN/FULTON	01/31/24	02/28/24
IN0025674 ELKHART WWTP 016	016-C	CSO- DAN @ GOSHEN/SUPERIOR	01/31/24	02/28/24
IN0025674 ELKHART WWTP 017	017-C	CSO- W. BOULEVARD/MCNAUGHTON	01/31/24	02/28/24
IN0025674 ELKHART WWTP 018	018-C	CSO- MCNAUGHTON PARK WEST	01/31/24	02/28/24
IN0025674 ELKHART WWTP 019	019-C	CSO-MICHIGAN @ RVR, S. OF LEX.	01/31/24	02/28/24
IN0025674 ELKHART WWTP 020	020-C	CSO- BRIDGE AND HUDSON	01/31/24	02/28/24
IN0025674 ELKHART WWTP 023	023-C	CSO- FRANKLIN/8TH	01/31/24	02/28/24
IN0025674 ELKHART WWTP 024	024-C	CSO- INDIANA/FRANKLIN	01/31/24	02/28/24
IN0025674 ELKHART WWTP 025	025-C	CSO- POTTAWATOMI/SECOND	01/31/24	02/28/24
IN0025674 ELKHART WWTP 026	026-C	CSO- MAIN/POTTAWATOMI	01/31/24	02/28/24
IN0025674 ELKHART WWTP 027	027-C	CSO- EDGEWATER/NAVAJO	01/31/24	02/28/24
IN0025674 ELKHART WWTP 028	028-C	CSO- WASHINGTON AT RIVER	01/31/24	02/28/24
IN0025674 ELKHART WWTP 029	029-C	CSO- JEFFERSON AT THE RIVER	01/31/24	02/28/24
IN0025674 ELKHART WWTP 031	031-C	CSO- ELIZABETH/LUSHER	01/31/24	02/28/24
IN0025674 ELKHART WWTP 032	032-C	CSO- EDGEWATER/OKEMA	01/31/24	02/28/24
IN0025674 ELKHART WWTP 033	033-C	CSO- EVANS/GRACE	01/31/24	02/28/24
IN0025674 ELKHART WWTP 034	034-C	CSO- LEXINGTON/6TH	01/31/24	02/28/24
IN0025674 ELKHART WWTP 035	035-A	20 MGD CLASS IV ACTIVATED SLUDGE - TO ST JOSEPH RIVER	01/31/24	02/28/24
IN0025674 ELKHART WWTP 037	037-C	CSO- FRANKLIN/KRAU	01/31/24	02/28/24
IN0025674 ELKHART WWTP 039	039-C	CSO- WEST HIGH AT RIVER	01/31/24	02/28/24
IN0025674 ELKHART WWTP 040	040-C	CSO- MCNAUGHTON PARK SOUTH	01/31/24	02/28/24

NPDES eReporting Help Desk: <u>NPDESeReporting@epa.gov</u> | 877-227-8965 (9:00am - 8:00pm EST) **Contact Us** to ask a question, provide feedback, or report a problem.

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DMR Copy of Submission

Permit

IN0025674 Permittee: Permit ID:

ELKHART WWTP

ELKHART WWTP

Facility:

035 - External Outfall

Facility Location:

1201 S NAPPANEE ST ELKHART , IN46516

229 SOUTH 2ND ST ELKHART, IN46516

Permittee Address:

Major:

035-A - 20 MGD CLASS IV ACTIVATED SLUDGE - TO ST JOSEPH RIVER

Discharge:

DMR Due Date:

02/28/24

THE FLOW METER(S) SHALL BE CALIBRATED AT LEAST ONCE EVERY TWELVE MONTHS. REPORT QUARTERLY PARAMETERS ON 035-AQ NETDMR. MUNICIPAL MAJOR ELKHART COUNTY **NetDMR Validated** Considerations for Form Completion Status:

From 01/01/24 to 01/31/24

Report Dates & Status Permitted Feature:

Monitoring Period:

Laura Principal Executive Officer First Name:

Telephone: Utility Services Manager Title:

574-293-2572

Kolo

Last Name:

No Data Indicator (NODI)

Form NODI:

Code Name	ı	Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units	o K.	Analysis	Туре
00300 Oxygen, dissolved [DO] 1 - Effluent Gross	Smpl.			11	18.4			19 - mg/L	0	01/01 - Daily	3R - 3GR24H
Season: 0	Req.				>=4.0 DLYAVMIN			19 - mg/L		01/01 - Daily	3R - 3GR24H
NODI: -	NODI										
00400 pH 1 - Effluent Gross	Smpl.				e.9		=7.8	12 - SÚ	0	01/01 - Daily	GR - GRAB
Season: 0 NODI: -	Req.			,	>=6.0 DAILY MN		<=9.0 DAILY MX	12 - SU	; ; ;	01/01 - Daily	GR - GRAB
00530 Solids, total suspended 1 - Effluent Gross	Smpl.	=790.0	=1046.0	26 - lb/d		=6.0	=7.0	19 - mg/L	0	01/01 - Daily	24 - COMP24
Season: 0	Req.	<=7511.0 MO AVG	<=11266.0 MX WK AV	26 - Ib/d		<=30.0 MO AVG	<=45.0 MX WK AV	19 - mg/L		01/01 - Daily	24 - COMP24
NODI: -	NODI										
00600 Nitrogen, total [as N] 1 - Effluent Gross	Smpl.	=1684.0		26 - lb/d		=19.0		19 - mg/L	0	. >	24 - COMP24
	Req.	Req Mon MO AVG		26 - Ib/d		Req Mon MO AVG		19 - mg/L		01/30 - Monthly	24 - COMP24
NODI: -	NODI										
00610 Nitrogen, ammonia total [as N] 1 - Effluent Gross	Smpl.	=84.5	=499.6	26 - Ib/d		=0.59	=3.17	19 - mg/L	0	01/01 - Daily	24 - COMP24
Season: 2	Req.	<=1102.0 MO AVG	<=2554.0 DAILY MX	26 - lb/d		<=4.4 MO AVG	<=10.2 DAILY MX	19 - mg/L		01/01 - Daily	24 - COMP24
NODI: -	NODI										
00665 Phosphorus, total [as P] 1 - Effluent Gross	Smpl.	=71.0		26 - lb/d		=0.52		19 - mg/L	0	01/01 - Daily	24 - COMP24
Season: 0	Req.	Req Mon MO AVG		26 - lb/d		<=1.0 MO AVG		19 - mg/L		01/01 - Daily	24 - COMP24
NODI: -	NODI										
01079 Silver total recoverable 1 - Fffluent Gross	Smpl.	<0.017	<0.043	26 - Ib/d		<0.0002	<0.0002	19 - mg/L	0	01/07 - Weekly	24 - COMP24

	ŧ	;	1				4			Analysis	- T
Code		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units	E X	cic y in	- - - -
Season: 0	Req.	<=0.063 MO AVG	<=0.13 DAILY MX	26 - lb/d		<=0.00038 MO AVG	<=0.00077 DAILY MX	19 - mg/L	01/ We	01/07 - Weekly	24 - COMP24
NODI: -	NODI										
01079 Silver total recoverable G - Raw Sewage Influent	Smpl.					0000	=0.00033	19 - mg/L (02/ 0 Twi Mor	02/30 - Twice Per Month	24 - COMP24
Season: 0	Req.					Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L	02/ Twi Mor	02/30 - Twice Per Month	24 - COMP24
NODI: -	NODI										
50050 Flow, in conduit or thru treatment plant	Smpl.	=16.51		03 - MGD				J	0 01/01 O Daily	1	TM - TOTALZ
1 - Effluent Gross	A SOCIAL STATE OF THE STATE OF										
Season: 0	Req.	Req Mon MO AVG		03 - MGD				:	01/ Dai	01/01 - Daily	TM - TOTALZ
NODI: -	NODI										
51041 E. coli, colony forming units [CFU]	Smpl.					=32.0	=63.0	32 - CFU/100mL ⁽	03/ 0 Thr	03/07 - Three Per Week	GR - GRAB
1 - Effluent Gross				· · · · · · · · · · · · · · · · · · ·					03/		
Season: 2	Req.					Req Mon MO GEO	Req Mon DAILY MX	3Z - CFU/100mL	Thr We	Three Per Week	GRAB
NODI: -	NODI	:									
80082 BOD, carbonaceous [5 day, 20 C]	Smpl.	=368.0	=461.0	26 - lb/d		=3.0	=3.0	19 - mg/L (0 Dai	01/01 - Daily	24 - COMP24
Season: 0	Req.	<=6259.0 MO AVG	<=10014.0 MX WK AV	26 - Ib/d		<=25.0 MO AVG	<=40.0 MX WK AV	19 - mg/L	01/01 Daily	,	24 - COMP24
NODI: -	NODI										
81012 Phosphorus, total percent removal K - Percent Removal	Smpl.			Ĩ	=83.6			23 - %	0 01/ Moi	01/30 - Monthly	CA - CALCTD
Season: 0	Req.			Ä : : :	>=75.0 MO AV MN			23 - %	01/ Moi	01/30 - Monthly	CA - CALCTD
NODI: -	NODI									:	

	ı		•			1			4		- 6 - 6 - F
Code Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units	Ξ <u>Χ</u>	Andiysis	ad A
82220 Fiow, total				- 08					c	01/30 -	자 -
1 - Effluent Gross			=312.0	Mgal/mo	Mgal/mo		Monthly RCOTOT		5	Monthly	RCOTOT
Season: 0	Req.		Req Mon MO TOTAL	80 - Mgal/mo						01/30 - Monthly	RT - RCOTOT
NODI: -	NODI			1 <u>.</u>							

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

Name	Туре	Size
	pdf	938174.0
IN0025674_CSO_MRO_2024_01.pdf	pdf	(
24_02_01.pdf	pdf	
odf	pdf	
IN0025674_INC_RPT_2024_02_03.pdf	pdf	pdf 112580.0

Report Last Saved By

ELKHART WWTP

laura.kolo@coei.org Laura Kolo Payton88 E-Mail: Name: User:

2024-02-23 14:52 (Time Zone:-05:00)

Report Last Signed By

Date/Time:

Laura Kolo Payton88

> Name: E-Mail:

User:

laura.kolo@coei.org

2024-02-23 14:54 (Time Zone:-05:00) Date/Time:

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MONTHLY REPORT OF OPERATION **ACTIVATED SLUDGE TYPE** WASTEWATER TREATMENT PLANT

State Form 10829 (R4 / 01-20)

Name of Facility			Permit Nur	nber		
Elkhart			IN0025	674		
Month	Year	Plant Des	gn Flow	Telephone	Number	
January	2024	20.00	mgd	5	74/293-	2572
E-mail address:	laura.kolo@coe	ei.org			035	Α
Certified Operator: N	ame	Class	Certificate	Number	Expir	ation Date
Laura F Kolo		l iv	150)94	06/3	30/2024

						,				Laura E.	Kolo			IV	150	94	06/3	30/2024
				Total=			CH	IEMICAL	.S				D A\A	SEWA	CE			
				2.79	1 1			USED					KAW	SEVVA	NGE		i 1	
Day Of Month	Day of Week	Man-Hours at Plant (Plants less than 1 MGD only)	Air Temperature (optional)	Precipitation - Inches	Bypass At Plant Site("x" If Occurred)	Sanitary Sewer Overflow("x" If Occurred)	Chlorine - Lbs/day	Ferrous Chloride Lbs/Day or Gal./Day	Lbs/Day or Gal./Day	Influent Flow Rate (if metered) MGD	Hd	CBOD5 - mg/l	CBOD5 - lbs/day	Susp. Solids - mg/l	Susp. Solids - Ibs/day	Phosphorus - mg/l	Ammonia - mg/l	
1	Mon			0.06				178		9.192	7.5	79	6,056	86	6,593	3.15	18,28	
2	Tue							201		10.058	7.6	132	11,073	162	13,589	4.00	20.24	
3	Wed			0,02				199		9.850	7.6	161	13,226	210	17,251	4.02	20.40	
4	Thu							200		9.050	7.5	125	9,435	164	12,378	3,59	19.72	
5	Fri							195		10.250	7.8	170	14,532	148	12,652	4.72	22.64	
6	Sat							192		9.700	7.6	116	9,384	120	9,708	4.00	23.60	
7	Sun			0.07				298		9.208	7.4	107	8,217	128	9,830	2.97	18.72	
8	Mon			0.01		Х		192		9.858	7.3	109	8,962	190	15,621	3.34	18.40	
9	Tue			0.84		Х		194		15.533	7.2	138	17,877	204	26,427	3.49	14.88	
10	Wed			0.08				228		12.091	7.3	117	11,798	140	14,117	3.34	22.52	
11	Thu			0.03				200		10.900	7.3	145	13,181	220	19,999	3.91	22.28	
12	Fri			0.17				185		10.658	7.8	111	9,867	140	12,444	3.51	25.24	
13	Sat							191		10.300	7.5	95	8,161	84	7,216	3.01	18.28	
14	Sun									9.708	7.5	106	8,582	78	6,315	3,02	18.24	
15										11.483	7.3	76	7,278	146	13,982	2.72	18.00	
16								200		12.433	7.4	85	8,814	128	13,272	3.90	14.72	,,
17	Wed							249		13.200	7.9	109	12,000	140	15,412	3,49	15.04	
18	Thu			0.02				200		11.936	7.3	131	13,041	110	10,950	3.35	16.88	
19	Fri			80,0				198		12.666	7.1	101	10,669	130	13,732	3.44	18.40	
20	Sat			0.01				182		11.091	7.4	94	8,695	62	5,735	2.84	18.04	•
21	Sun							210		10.992	7.6	130	11,918	68	6,234	2.77	24.12	
22	Mon							140		11.883	7.4	101	10,010	142	14,073	3.32	30.88	
23	Tue			0.02				182		15.391	7.4	110	14,120	164	21,051	3.23	24.64	
24	Wed			0.32				167		18.441	7.3	102	15,687	174	26,761	3.14	19.16	, ,
25	Thu			0.46				250		15.983	7.4	96	12,797	176	23,460	3.14	17.84	
26	Fri			0.20		Χ		261		22.366	7.4	99	18,467	188	35,068	2.12	11.32	
27	Sat			0.08				224		14.883	7.2	91	11,295	76	9,433	2.64	14.20	
28	Sun			0.25				200		17.783	7.0	84	12,458	66	9,788	1.82	10.32	
29	Mon							209		17.108	7.2	73	10,416	98	13,983	2.24	12.28	
30	Tue			0.07				210		16.616	7.4	70	9,700	72	9,978		13.12	
	Wed							200		16.575	7.0	90	12,441	104	14,376		13,28	
Aver	age			0.16				205		12.812		108	11,295	133	14,240	3.20	18.57	
Maxi	imum			0.84				298		22,366	7,9	170	18,467	220	35,068		30.88	
Mini	mum			0.01				140		9.050	7.0	70	6056	62	5735	1.82	10.32	-
		100																
# of	Data								0	31	31	31	31	31	31	31	31	0
		tify under prepared								Prepared by	or under	the directio	n of (Certifie	d Operato		Date (mo	onth, day,	year)

were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Date (month, day, year)

Signature of principal executive officer or authorized agent (or attested by NetDMR subscriber agreement)

MONTHLY REPORT OF OPERATION ACTIVATED SLUDGE TYPE WASTEWATER TREATMENT PLANT

State Form 10829 (R4 / 01-20)			
Name of Facility	Permit Number	Month	Year
Elkhart	IN0025674	January	2024
Elkhart	IN0025674	January	2024

			т									ı						
	PRIMAR		ADVED I	101100	AE	RATIO	N	T		SECON			ı	FINAL	EFFLUE	ENT		
	EFFLUE	-NI	MIXED L	IQUOR I	I	1		RETURN S	LUDGE	EFFLUI	ENT				T			1
Day Of Month	CBOD5 - mg/l	Susp. Solids - mg/l	Settleable Solids % in 30 minutes	Susp. Solids - mg/l	Sludge Vol. Index - mi/gm	Dissolved Oxygen - mg/l	Temperature - F	Volume - MG	Susp. Solids - mg/l	CBOD5 - mg/l	Susp. Solids - mg/l	Residual Chlorine - Final	Residual Chlorine - Contact Tank	E. Coli - colony/100 ml	pH - daily low (or single sample)	pH - daily high (if multiple samples)	Dissolved Oxygen - mg/l	Oil & Grease (mg/l)
1	60	51	160	4,960	32	5.5	13		3,420						7.7		9,4	
2	88	67	188	2,275	83	5.8	13		3,360					21	7.5		9.1	
3	112	124	163	2,196	74	5.3	13		2,600					28	7.5		8.7	
4	83	78	161	2,112	76	5.1	14		2,480					36	7.6		9.0	
5	105	124	181	2,255	80	6.5	13		3,720						7.5		9.0	
6	90	70	186	2,440	76	5.4	13		3,240						7.5		8.4	
7	74	52	162	3,480	47	6.1	13		3,380						7.6		9.1	
8	69	72	150	4,308	35	5.7	13		3,280					14	7.7		9.4	
9	87	100	210	2,470	85	6.2	13		4,160					40	7.6		8.4	
10	77	70	144	2,168	66	5.5	12		7,160					41	6.9		9.0	
11	108	88	166	2,552	65	5.3	12		4,820						7.7		8.9	
12	88	94	173	2,376	73	5.5	12		5,100						7.7		9.4	
13	78	58	183	2,360	78	5.9	12		5,060				ļ		7.7		9.5	
14	79	79	170	4,632	37	6.4	11		4,640						7.6		10.2	
15	58	65	169	2,288	74	5.8	11		3,820					00	7.7		9.5	
16	60	68	172	2,312	74	6.2	10		4,840					30	7.8		9.9	
17	61	74 71	154	2,248 2,208	69	6.7	11		6,220					43	7.7		9.9	
18	110 65	48	148 147	2,208	67	6.5	11 11		4,880					44	7.6		10.3	
19	73	50	147	2,088	70 72	5.9	11		2,740 3,800						7.6		10.1 9.7	
21	88	51	141	3,140	45	6.2	11		3,580						7.5		10.1	
22	85	65	138	3,524	39	4.7	12		3,740					17	7.5		10.1	
23	72	82	138	1,880	73	5.4	12		3,700					23	7.4		9.3	
24	76	120	126	1,876	67	5.4	12		4,160					54	6.9		9.7	
25	86	94	142	1,908	74	5.1	11		4,080						6.9		9.4	
26	82	112	108	2,240	48	5.6	10		5,120						6.9		9.0	
27	81	56	157	2,424	65	5.7	11		5,260						7.4		9.7	
28	63	45	142	2,564	55	6.1	11		5,540						7.0		10.1	
29	70	86	145	4,192	35	5.2	12		5,200					26	7.6		10.0	
30	74	56	160	2,324	69	6.1	12		5,240					41	7.5		9.7	
31	90	76	177	2,684	66	5.50	12		4,000					63	7.4		10.0	
Avg.	80	76	158	2,662	64	5.8	12		4,269					35			9.5	
Max	112	124	210	4,960	85	6.7	14		7,160					63		7.8	10.3	
Min.	58	45	108	1876	32	4.7	10		2480					14		6.90	8.4	
# of	Max Days abo				**:1	·			0.1	ا ــــــــــــــــــــــــــــــــــــ				63 0		- 1		
Data	31	31	31	31	31	31	31	0	31	0	0	1	0	15	31	0	31	0

Comments for the Month (major repairs, breakdowns, process upsets and their causes, inplant treatment process bypass, etc.): ferric chloride is being used for po4 removal, not ferrous chloride

MONTHLY REPORT OF OPERATION ACTIVATED SLUDGE TYPE WASTEWATER TREATMENT PLANT

State Form 10829 (R4 / 01-20)			
Name of Facility	Permit Number	Month	Year
Elkhart	IN0025674	January	2024

-	Τ-						FI	NAL EF	FLUENT	-							
		Flow		BOD						d Solids	5	Ammor	nia			Phosph	norus
Day Of Month	Day of Week	Effluent Flow Rate (MGD)	Effluent Flow Weekly Average	CBOD5 - mg/l	CBOD5 - mg/l Weekly Average	CBOD5 - lbs/day	CBOD5 - lbs/day Weekly Average	Susp. Solids - mg/l	Susp. Solids - mg/l Weekly Average	Susp. Solids - Ibs/day	Susp. Solids - Ibs/day Weekly Average	Ammonia - mg/l	Ammonia - mg/l Weekly Average	Ammonia - lbs/day	Ammonia - Ibs/day . Weekly Average	Phosphorus - mg/l	Phosphorus - lbs/day
1	Mon	12.612		2		210		6		652		0.06		6.3		0.84	88
2	Tue	10.462		2		175		5		462		0.56		48.9		0.78	68
3	Wed	12.374		4		413		6		578		1.99		205.4		0.85	88
4	Thu	12.203		2		204		6		580		0.74		75.3		0.80	81
5	Fri	14.417		3		361		7		890		0.34		40.9		0.66	79
6	Sat	15.979	13.060	2	2.57	267	280	6	5.86	760	642	0.17	0.56	22.7	58	0.63	84
7	Sun	20.468		2		. 341		4		717		0.06		10.2		0.46	79
8	Mon Mon	23.074		2		385		5		1,001		0.15		28.9		0.58	112
5	Tue	26.034		3		651		6		1,259		1.68		364.8		0.61	132
10) Wed	16.416		2		274		6		780		0.63		86.3		0.53	73
11		14.116		3		353		5		636		0.70		82.4		0,56	66
12	Pri	15.020		2		251		6		689		0.08		10.0		0.47	59
13	3 Sat	15.183	18.616	2	2.29	253	358	5	5.29	658	820	0.07	0.48	8.9	84	0.53	67
14	Sun	15.129		2		252		4		492		0.05		6,3		0.55	69
15	Mon	16.420		3		411		5		685		0.05		6,8		0.69	94
16	Tue	16.948		2		283		5		678		0.11		15.5		0.51	72
17	Wed	17.195		2		287		5		717		0.11		15.8		0.43	62
18	Thu	15.523		3	******	388		5		621		0.29		37.5		0.44	57
19	Fri	15.179		2		253		5		684		0.08		10.1		0.40	51
20	Sat	14,566	15.851	3	2.43	364	320	5	4.87	632	644	0.07	0.11	8.5	14	0.46	56
21		14.123		3		353		5		577		0.22		25.9		0.47	55
22	Mon	13.877		2		231		6		637		1.16		134.3		0.43	50
23	Tue	19.017		3		476		6		999		2.53		401.3		0.37	59
24	Wed	18.899		3		473		9		1,419		3.17		499.6		0.45	71
25	Thu	17.251		3		432		8		1,151		1.17		168.3		0.53	76
26	Fri	22.239		4		742		8		1,558		0,80		148.4		0.40	74
27		15.528	17.276	4	3.14	518	461	8	7.10	984	1,046	0.13	1.31	16.8	199	0.44	57
28		18.792		4		627		5		815		0.10		15.7		0.43	67
	Mon	17.843		2		298		5		729		0.20		29.8		0.30	45
) _{Tue}	18.024		3		451		6		827		0.34		51.1		0.30	45
	Wed	16.896	17.610	3	2.86	423	421	4	5.07	634	745	0.37	0.16	36.6	23	0.37	52
Avg		16.510		3		368		6		790		0.59		84.5		0.52	71
Max		26.034	18.616	4		742	461	9	7.10	1,558	1,046	3.17	1.31	499.6	199	0.9	132
Min		10.462	13.060	2	2.29	175	280	4	4.87	462	642	0.05	0.11	6.3	14	0.3	45
Dat	а	31	5	31	5	31	5	31	5	31	5	31	5	31	5	31	31

	MONTHLY RE	MOVAL SUMI	VIARY		Total Monthly Flow	W:
Percent Removal	BOD5	S.S.	Ammonia	Phosphorus	(million gallons)	512
Primary Treatment	25.68	43.0				
	NA	NA			Percent Capacity	
Secondary Treatment	96.7	92.5			(actual flow/design)	83%
Overall Treatment	97.55	95.7	96.8	83.6		
Phosphorus limit would be	75	% removal.	(compliance a	achieved)		

Page 3 of 6

MONTHLY REPORT OF OPERATION ACTIVATED SLUDGE TYPE WASTEWATER TREATMENT PLANT

 State Form 10829 (R4 / 01-20)

 Name of Facility
 Permit Number
 Month
 Year

 Elkhart
 IN0025674
 January
 2024

	SLUDG					DIG	ESTER	OPERAT	ION	· · · · · · · · · · · · · · · · · · ·				·
	DIGES	ΓER	Anaero	bic Only										
Day Of Month	Primary SludgeGal. x 100	Waste Act. Sludge Gal. x 1000	Hd	Gas Production Cubic Ft. x 1000	Temperature - F	Supernatant Withdrawn hrs. or Gal. x 1000	Supernatant BOD5 mg/l or NH3-N mg/l	Total Solids in Incoming Sludge - %	Total Solids in Digested Sludge - %	Volatile Solids in Incoming Sludge - %	Volatile Solids in Digested Sludge - %	Digested Sludge Withdrawn hrs. or Gal. x 1000		
1	13.85	223.20	7.1		81	7.074		3.82	2.05	91.59	63.87			
2	21.98	223.20	7.1		77	3.537		3,95	2.08	81.55	62.38	96.18		
3	29.43	174.24	7.1		77	7.074		4.52	2.17	81.88	62.86	92.64		
4	24.79	221.76	6.9		76	7.074		4.48	2.20	79.35	61.21	91.27		
5	25.07	181.44	7.1		76	3.537		3.37	2.21	74.27	63.16	52.62		
6	24.85	244.80	7.1		75	42.444		4.95	2.23	79.64	61.95			
7	30.05	252.00	7.1		74			4.16	1.90	78.37	64.80			
8	27.06	252.00	7.1		76	28.296		2.20	1.98	79.45	63.41			
9	33.44	192.96	7.1		77	17.685		2.28	2.06	73.87	61.15	92.84		
10	32.93	252.00	7.1		77	7.074		4.68	2.12	73.28	61.86	84,33		
11	25.05	208.80	7.1		76	35.370		4.26	2.16	75.77	62.07	92,72		
12	31.56	252.00	7.1		74	7.074		4.28	2.13	76.17	64.57	52.03		
13	27.34	267.84	7.1		76	21.000		4.66	2.09	76.95	62.24			
14	27.15	273.60	7.1		77			5.09	1.96	78.46	63.49			
15	26.10	273.60	7.1		76	35.370		4.16	2.01	81.37	62.58			
16	29.40	273.60	7.0		75			3.86	2.04	79.40	61.69	92.85		
17	31.58	273.60	7.0		74	0.000		3.82	2.20	74.27	62.57	90.15		
18	27.42	273.60	7.0		74	10.611		4.09	2.10	74.40	60.00	90.01		
19	29.78	273.60	7.1		73	0.000		2.92	2.01	75,59	65,55	64.76		
20	28.54	273.60	7.1		74	10.611		3,53	2.10	74.78	62.36			
21	31.31	273,60	7.0		73			3.54	2.18	73.43	64.44			
22	29.60	273.60	7.0		74	38.907		1.77	2.09	77.57	62,90			
23	33.37	273.60	7.1		73	3.537		4.24	2.15	77.91	64.03	91.66		
24	24.63	273.60	7.0		74	14.148		4.44	2.19	74.83	62.50	90.74		
25	27.97	273.60	7.0		74	10.611		4.85	2.15	74.94	64.23	89.80		
26	31.86	246.24	7.1		74	3.537		4.42	2.20	72.96	63.95	52.65		
27	28.27	244.80	7.0		57			4.60	2.22	76.10	62.18			
28	26.14	244.80	7.0		75			2,56	1.96	78.14	64.63			
29	14.34	244.80	7.0		74	38.907		0.87	2.17	82.89	62,56			
30		87.84	7.0		73	10.611		2.48	2.25	78.06	62.94	92,76		
31	30.23	177.12	7.0		75	7.074		2.69	2.30	77.40	62.92	91.00		
Avg.	27.25	241.13			75	14.847		3.73	2.12	77.57	62.94	83.39		
Max.	33.44	273.60	7.1		81	42.444		5.09	2.30	91.59	65.55	96.18		
Min.	13.85	87.84	6,9		57	0,000		0.87	1.90	72.96	60.00	52.03		
Data	31	31	31	0	31	25	0	31	31	31	31	18	0	0

Once completed, this form should be converted to a pdf document, named appropriately & attached to the corresponding netDMR for submittal

MONTHLY REPORT OF OPERATION ACTIVATED SLUDGE TYPE WASTEWATER TREATMENT PLANT

State For	m 10829 (Facility	R4 / 01-20) Permit Numi	per	Month		Year]								
Elkhart		IN00256	374	Janı	uary	20	24									
		Su	bstitute for	State Form		L										
		Final	Effluent			I										
	Chle	oride	Total N	litrogen	1											
Day Of Month	Chloride - mg/l	Chloride - lbs/day	Total Nitrogen- mg/l	Total Nitrogen- lbs/day	Ag - Influent mg/l	Ag - Effluent mg/L	Cd - Influent mg/L	Cd - Effluent mg/L	CN - Influent mg/L	CN - Effluent mg/L	Cr - Influent mg/L	Cr - Effluent mg/L	Cu - Influent mg/L	Cu - Effluent mg/L	Hg - Influent ng/L	Hg - Effluent ng/L
2			19.30	1,684	0.0002	0.0002	0.0002	0.0002	0.0156	0.0036	0.0024	0.0020	0.0435	0.0102		
3										-					147.0000	2,6500
4																
5																
6																
7 8					0.0003											
9					0.0003	0.0002										
10	315	43,126				0.0002										
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30						0.0002										
	315	43,126	19.30	1,684	0 0003	0 0002	0 0002	0 0002	0.0156	0 0036	0.0024	U UUSU	0.0435	0.0102	147.0000	2 6500
Avg. Max.	315	43,126	10.00	1,004											147.0000	
Min.	315	43,126	19.30	1684	0.0002	0.0002	0.0002	0.0002	0.0156	0.0036	0,0024	0.0020	0.0435	0.0102	147.0000	2.6500
Data	1					4	11			·1	1	11.6				1

WASTEWATER TREATMENT PLANT

State Name	Form 10829 of Facility	(R4 / 01-20 Permit Numi) ber	Month		Year		7								
Elkhai	-t	IN0025	37 <i>1</i>	İ	uary	20	24									
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		Sui	Januale 101	State For	111 30330		T	<u> </u>					l		· · · · · ·	Т
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Day Of Month	Ni - Influent mg/L	Ni - Effluent mg/L	Pb - Influent mg/L	Pb - Effluent mg/L	Zn - Influent mg/L	Zn - Effluent mg/L										
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Max	0.0021	0.0036	0.0010	0.0010	0.0397	0.0137										
Min.	0.0021	0.0036	0.0010	0.0010	0.0397	0.0137										
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Data	1	1	1	1	1	1	0	0	0	0	0	. 0	0	0	0	

BYPASS / OVERFLOW INCIDENT REPORT

State Form 48373 (R7 / 4-16) Indiana Department of Environmental Management Office of Water Quality

Follow-up to Bypass report

previously sent on: 07/15/23

INSTRUCTIONS:

Complete all parts of this form and email signed copies to wwreports@idem.IN.gov. Submittal of this report will satisfy the Office of Water Quality (OWQ) telephone and written bypass/overflow reporting requirements of your NPDES permit. Please use and the second page of this form as necessary to identify separate locations caused by the same event. If you have any questions while filling out the report form, please contact Renee Repar at (317) 232-6770 or repar@idem.in.gov.

To report a spill or if the release is resulting in a fish kill or other severe environmental damage, immediately report the release to the Emergency Response Section spill response line at: (317) 233-7745 or toll free within Indiana at (888) 233-7745.

		<u> </u>			`						
(4) Easilt N-	me (Organization)		(2) Mailine A		L INFORMATI		/2) (County		(4) NPDE	S Dormit
` '	, -		1,,	•		zauorij	1 ' '	•			
Elknart Pt	ublic Works				ee Street		Elk	hart		IN0002	200/4
(5) Outfall	(6) Date (mm/dd/yy) a	ad Time /7	RELE) Date (mm/dd/yy		RMATION (L	ocation 1) Release (streets	e addrage or	(9) Latitud	de	(9) Longit	ude
Number	Release Began) Date (mm/dd/yy, elease Stopped	rand time		Station, Force Ma		(Deg Min		(Deg Min	
	1/8/24 6:30	⊒ AM ⊋ PM	1/8/24 8:45	☐ AM ☐ PM	726 Middle	ebury		41 40	0 53N	85 57	' 31W
(10) Amount of	of Flow Released	(Alwa	s provide a vol	ume.)	•	(11) WWTP Flo				eak Design	Flow Rate
Check one:		ctual		Gallons		11.6 MG MGE		44	.0 MG	D	
	ype (Select one.) ewer Overflow		(14 na	Describe	any damage t	o aquatic life o	r receiving st	ream:			
☐ Treatment	Bypass (at wastewa										
	Combined Sewer Over Combined Sewer										
	Sewer System Relea										
(15) Reason f	or Bypass / Overflow	(Select one	•		OBSTA		ON				
Constructi		Power Failu					eded Max Ca				Inches
(16) System (Select one of		(17) A call ca	dditional Descri me in at appx e	otion of the :30 pm. of	Bypass / Ove sewage back-	rflow Event: up. Crews fou	ınd (18) L	Description ck all that		rea Impact	ed
Manhole	more.)	main ı	olugged with gre	ase. Obs	ruction cleared	d at 8:45 pm ar	nd 🗀 Af	fected Priv	ate Prop	erty	
House Lat	eral	flows	eturned to norn	nal			📮 Ba	sement B	ackup		
☐ Pipe Failu								ccurred at eached Pu			
☐ Treatment								eached Re			
Other								- 4 D t-	.l		1.
│							n/a	or Receiv	ing wate	r Impacted	1;
Sewer Clea											
Describe Othe basement ba	er: <i>(in the box below)</i> ck-up										
(19) Additiona	l organizations notific	ed by facility	, if necessary (Select one	or more.)						
DEM Eme	ergency Response	☐ Health I	Dept.	DNR Fi	sh and Wildlife	☐ Local Er	mergency Ma	nagement	t 🗌 Oth	ner:	
											n/a
(20) Actions 7	aken to Prevent, Mir	imizo or M	tigato Domogo	including (Noon up and T	roatment of At	ffootad Araa				
(20) Actions i	r more of the followin	a, then add	a written descri	ntion.)	Steam-up and i	realment of A	necieu Alea				
Removed		aired Pipe	☐ Repaired I		on 🔲 Othe	er 🔲 Lime	☐ Clear	n-Up Debri	is		
(21) Resolution	n' Actions Taken or	Planned to	Prevent Recurre	ence							
'Upstream is	on; Actions Taken or primarily a residentia	area. We	will be mailing in	nformation	to residents in	basin on prop	er grease dis	posal.			
(22)											
(22)			CE	RTIFICATI	ON AND SIGN	JATURE					
Lcertify under	penalty of law that the	is docume					n or supervis	on in acco	ordance w	ith a svste	m
designed to a	ssure that qualified p	ersonnel pr	operly gather ar	nd evaluate	the information	on submitted. I	Based on my	inquiry of	the perso	on or perso	ns who
	ystem, or those pers										
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	ng Report (printed)		hone Number		ct Email	iora	Date (month,			M Notified	☐ AM
Laura Kolo		(5/4	1) 293-2572	laura	a.kolo@coe	ı.org	1/8/24 ap	חח:ם אלו	hm		□ PM

Kolo, Laura

From:

postmaster@state.in.us

Sent:

Tuesday, January 9, 2024 6:05 PM

To:

Kolo, Laura

Subject:

EXTERNAL: Relayed: Emailing: IN0025674_INC_RPT_2024_01

Attachments:

EXTERNAL: Relayed: Emailing: IN0025674_INC_RPT_2024_01

Caution: This email originated from outside of the organization. Please take care when clicking links or opening attachments. When in doubt, contact your IT Department

The state of the s

BYPASS / OVERFLOW INCIDENT REPORT

State Form 48373 (R7 / 4-16) Indiana Department of Environmental Management Office of Water Quality Follow-up to Bypass report previously sent on: 07/15/23

INSTRUCTIONS:

Complete all parts of this form and email signed copies to <a href="www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailt

To report a spill or if the release is resulting in a fish kill or other severe environmental damage, immediately report the release to the Emergency Response Section spill response line at: (317) 233-7745 or toll free within Indiana at (888) 233-7745.

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			(6) 44 (9)		L INFORMATION	The straight and section	(0) 0			W MBBE	0.0
	me (Organization)		' '	•	porting organization, _)	(3) Co			(4) NPDE	
Elkhart Ρι	ıblic Works		1201 S.	Nappan	ee Street		Elkh	nart		IN0002	25674
					RMATION (Location						
(5) Outfall Number	(6) Date (mm/dd/yy) Release Began	and Time (7) Date <i>(mm/dd/yy)</i> Release Stopped	and Time	(8) Location of Release Manhole, Lift Station,		ss or	(9) Lat (Deg I	ititude Min Sec)	(9) Longiti (Deg Min	
035	1/9/24 5:40	☐ AM ☑ PM	1/9/24 6:08	☐ AM ☐ PM	1201 S. Nappa				40 45N		0 7W
h ' ' _	f Flow Released		ays provide a volu		1 ' '	WWTP Flow Durii	ng Relea		(12) WWTP P		Flow Rate
Check one:	☑ Estimated /pe (Select one.)	Actual		Gallons		own MGD	l.a 4		44.0 MG	ט	
☐ Sanitary Solution ☐ Treatment ☐ Prohibited ☐ Dry Weath ☐ Combined	ewer Overflow Bypass <i>(at wastev</i> Combined Sewer (er Combined Sewe Sewer System Rel	Overflow r Overflow ease	`na		any damage to aqua	auc me or recer	vilig stre	eam.		MANAGEM TO THE TREE TREE TO THE TREE TO THE TREE TO THE TREE TO THE TREE TREE TO THE TREE TREE TREE TREE TREE TREE TREE	
l <u></u> .	or Bypass / Overflo	•	•		—				□ B		to also
Construction		Power Failu				Exceeded M					Inches
(16) System C (Select one or Manhole House Late Pipe Failur Pump Stat Treatment Other Influent Str Air Relief \ Sewer Clea	more.) eral e ion Failure Bypassed ructure /alve		Additional Descrip	otton of the	Bypass / Overflow F	event:	(Chec	ck all the ected F semen curred ached ached	tion of the Ar hat apply.) Private Prope it Backup at Treatmen Public Land Receiving W ceiving Wate	erty nt Plant Vater	

l <u>`</u> '	I organizations noti rgency Response	ified by facili ☐ Health				Local Emerger	ncy Mar	nagem	ent 🗌 Oth	ner:	n/a
(20) Actions T	akan ta Prayant M	linimiza or N	Aitigate Damage	including (lean-up and Treatm	ent of Affected	Area				
(Select one or	r more of the follow. Blockage ☐ Re pp from service and	ing, then add	d a written des c ri	ption.)			Clean-	-Up De	ebris		
	n: Actions Taken o orimarily a resident	r Planned to al area. We	Prevent Recurre will be mailing in	ence nformation	to residents in basin	on proper grea	ase disp	osal.			
(22)											
designed to a manage the s belief, true, ad imprisonment SIGNATURE:	ssure that qualified ystem, or those per curate, and complete for knowing violation with the complete for knowing violation with the complete for knowing Report (printed)	personnel promote directly etc. I am awons. (The	ent and all attach roperly gather ar y responsible for are that there are	ments were nd evaluate gathering to e significar a handwri	on AND SIGNATURE prepared under my the information sub he information, the i the penalties for subm ten signature or an ten Email a.kolo@coei.org	/ direction or su mitted. Based nformation sub itting false infor electronic subs	on my i mitted is rmation, titute the DA (month, c	inquiry s, to th , include en fax ATE (m day, yea	of the persone best of my ding the poss	on or perso he knowledg sibility of fir PDF for em ear): 1/10	ns who ge and ne and ailing.)
Laura NOIO		(37	7) 200-2012	laula	aolowoodi.org	1/10	ne a	-PX 0	ioo pin		□ PM

⁶Kolo, Laura

From:

postmaster@state.in.us

Sent:

Wednesday, January 10, 2024 6:32 PM

To:

Kolo, Laura

Subject:

EXTERNAL: Relayed: inc report attached

Attachments:

EXTERNAL: Relayed: inc report attached

Caution: This email originated from outside of the organization. Please take care when clicking links or opening attachments. When in doubt, contact your IT Department

BYPASS / OVERFLOW INCIDENT REPORT

State Form 48373 (R7 / 4-16) Indiana Department of Environmental Management Office of Water Quality

☐ Follow-up to Bypass report
previously sent on:

INSTRUCTIONS:

Complete all parts of this form and email signed copies to <a href="www.emailto.com/www.emailto.com/www.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto.com/ww.emailto

To report a spill or if the release is resulting in a fish kill or other severe environmental damage, immediately report the release to the Emergency Response Section spill response line at: (317) 233-7745 or toll free within Indiana at (888) 233-7745.

Response Se	ction spill response	ille at. (3	117) 233-7743 01 (0)	i iiee wiiiii	in inuiana at (o	00) 233-1140	•				
		15 A			L INFORMATI						
1 ' '	me (Organization)		' '	•	porting organiz	zation)	' '	County		(4) NPDE	
Elkhart Ρι	ublic Works		1201 S. N	Nappan	ee Street		Elk	thart		IN0002	:5674
					RMATION (Le					T	
(5) Outfall Number	(6) Date (mm/dd/yy) Release Began		(7) Date (mm/dd/yy) Release Stopped		(8) Location of Manhole, Lift S	Release (street tation, Force M			atitude g Min Sec)	(9) Longitu (Deg Min	
035	1/25/24 est 11:00	☐ AM ☑ PM	1/26/24 est 3:00	AM PM	1201 S. N	appanee S			1 40 45N	86 00	
	of Flow Released	•	ways provide a volu > 5000 <	•		(11) WWTP FI 45.1 MG	ow During Rele	ease	(12) WWTP Po 44.0 MGI	_	Flow Rate
Sanitary S Treatment Prohibited Dry Weath	ype (Select one.) ype (Select one.) ewer Overflow Bypass (at wastev Combined Sewer C er Combined Sewer Sewer System Rele or Bypass / Overflo	Overflow r Overflow ease	(14) na/	Gallons Describe	any damage to			ream:		<u> </u>	
Constructi	on Related	Power Fa	ailure Equipme	ent Failure	. ☐ Unknow	n 🔲 Exce	eded Max Ca	pacity	☐ Precipita	ition	Inches
Select one o. Manhole House Lat Pipe Failu Pump Stat Treatment Other Influent St Air Relief \(\)	Component(s) r more.) eral re ion Failure Bypassed ructure Valve an Out	(17) Mix exc stre at ti Inci duri unk	Additional Descripted liquior splitter be catavtion. None of the cause of this time. Ident start and endering wet weather even wet weather even wown.	tion of the ex to final he mixed the overflo time are ti	Bypass / Ove clarifers overflo liquor reached ow of the splitte mes not below	teh reviewign er box is unkn are of max flo	OWN A BOOM A ROOM A ROO	rck all fected aseme ccurre eached	ption of the Ar that apply.) I Private Prope int Backup d at Treatmen d Public Land d Receiving W eceiving Wate	erty ot Plant /ater	
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1 ' '	al organizations noti ergency Response	fied by fac ☐ Healt	cility, if necessary <i>(</i> S th Dept.		<i>or mor</i> e.) sh and Wildlife	☐ Local E	mergency Ma	anager	ment 🔲 Oth	er:	n/a
(20) Actions 7	aken to Prevent, M	inimize, or	r Mitigate Damage i	ncluding C	Clean-up and T	reatment of A	ffected Area				
(Select one of Removed no action tak	r more of the follow	ing, then a paired Pipe	ndd a <u>wr</u> itten descrip	tion.)		er 🗌 Lime	☐ Clea	n-Up [Debris		
(21) Resolution no action tak	on: Actions Taken o en to resolve the is:	r Planned sue, the ca	to Prevent Recurrei ause remains unkno	nce own.							
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designed to a manage the s belief, true, a	ssure that qualified system, or those per ccurate, and comple for knowing violation	personnel sons direc ete. I am a ons. (The	ment and all attachm I properly gather and otly responsible for g aware that there are ne area below is for a	nents were d evaluate gathering t significan	e the information the information at penalties for	ler my direction submitted. In the information submitting fal	Based on my on submitted se informatio	inquir is, to n, inclu	ry of the perso the best of my uding the poss	n or perso knowledg sibility of fir	ns who le and ne and
SIGNATURE	. Lau	ra 1	(J2)				Г	ATE /	month, day, y	_{ear):} 1/26	/24
	ng Report <i>(printed)</i>	Те	elephone Number 574) 293-2572		st Email a.kolo@coei	i.org		day, y	ear) / Time IDEN		☐ AM ☐ PM

Kolo, Laura

From:

postmaster@state.in.us

To:

wwreports@idem.in.gov

Sent:

Friday, January 26, 2024 2:00 PM

Subject:

Relayed: Incident Report for overflow at WWTP on 1/26/24

Delivery to these recipients or groups is complete, but no delivery notification was sent by the destination server:

wwreports@idem.in.gov (wwreports@idem.in.gov)

Subject: Incident Report for overflow at WWTP on 1/26/24



National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	Elkhart	·		٠						Page	1 of	9		F	ern	nit Number:	IN	0025574	
Facility:	Elkhart P	ublic Worl	ks & Utilities	s								Public No	tific	ation Requ	iren	nents Met?	Υ		
Monitor	ing Period	: Ji	anuary	2024							E	nter "x" i	no	CSO disch	arg	e occurred	for	the month:	x
Design	Peak Hour	ly Flow (N	(GD):	44	Design Av	erage Flow	(MGD):	20		Measured/	Met	ered (M) (or E	stimated (E	.) m	ust be spec	cifie	d	
WWT	nfluent -	Data	1.00	Pro	ecipitation [Data			С	SO Outfall	No.	005		and a colle	C	SO Outfall	No.	006	
Day of Month	Average Daily Flow (MGD)	Peak Hourly Flow (MGD)	Time Precip. Began (am/pm)	Precip. Duration (Hours)	Total Daily Precip. (Inches)	Peak Intensity (Inch/hr)	Measureme nt Interval (hr, 30 m, 15 m)	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharg e (MG)	M or E	Time Discharge Began	M or E		M or E	Event Discharge (MG)	M or E
1	9.19	11.10	1:16 AM	10.00	0.06	0.04	15 min										Τ		
2	10.06	12.20					15 min												
3	9.85	11.10	10:06 AM	2,33	0,02	0.04	15 min												
4	9.05	11.20					15 min										Г		
5	10,25	14.10					15 min				Π								Т
6	9.70	12,00					15 min				Τ								Т
7	9.21	10.70	11:31 AM	4.08	0.07	0.04	15 min		П		T								Т
8	9.86	12.20	4:09 AM	7.20	0.01	0,04	15 min												T
9	15.53	29.30	8:09 AM	15.37	0.84	0.16	15 min						Г		İ		T		T
10	12.09	14.20	12:29 AM	10.28	0.08	0.04	15 min								ऻ		T		†
11	10,90	13.70	9:36 AM	4.58	0.03	0.04	15 min								T		T		T
12	10,66	12.60	2:34 AM	20.70	0.17	0.04	15 min												T
13	10.30	13,10	2,017,117	20,70	0,17	0.04	15 min								<u> </u>		T		T
14	9.71	12.20					15 min										T		T
15	11.48	14.10					15 min												T
16	12.43	15.20					15 min		<u> </u>										T
17	13.20	14.80					15 min										T		T
18	11.94	16.10	1:46 PM	3,00	0.02	0.04	15 min				<u> </u>						T		T
19	12.67	15.10	11:19 AM	3.37	0,08	0.08	15 min				T				 		T		十
20	11.09	13.50	12:31 PM	0.08	0,01	0.04	15 min										 		
21	10.99	13.10	12.071101	0,00	0.01	0.04	15 min				<u> </u>				_		<u> </u>	l	t^-
22	11.88	14.10					15 min				T						<u> </u>		T
23	15.39	25,30	1:26 PM	8,83	0.02	0.04	15 min				\vdash						1		T
24	18.44	40.20	12:49 AM	21.53	0.02	0.04	15 min		-		t^-				H		1		T
25	15.98	26.80	12:51 AM	23.22	0.32	0.12	15 min				\vdash						 		+
26	22,37		12:01 AM	21.08	0,20	0.20			\vdash								<u> </u>		\vdash
27	14.88			22,97	0.20	0.16	15 min				 						 		\vdash
28		17.50	1:06 AM 12:26 AM				15 min				\vdash						 		-
29	17.78	23.10	12.20 AW	14.17	0.25	0.08	15 min		-		\vdash		H		-		1		
30	17.11	22.00	E:46 A32	6.00	0.07	0.04	15 min		-		+		Н				\vdash		
31	16.62	19.00	5:16 AM	6.00	0.07	0.04	15 min				\vdash		H		\vdash		-		
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Totals:	397,19			198.79	2.79			0	ys	0,00		0,0000		0	ys	0.00		0.0000	188



National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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State County	Elkhart												Page 2	1000		Santa.	301/301/07/2011/00	0.0056	nit Number	: 4	10025574	dyesi'a	ilveges sawer4	ygg Gr
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Monitor	ing Perlod:		Janu	ary	2024										En	iter	"x" if no	csc) discharg	e o	ccurred t	or ti	ne month	:, X
Design	Peak Flow	(Ηοι	ırly) (MG	D);	44	La constitución	Design Fl	ow	(MGD):		20	es a second	Measured/	Met	ered (M)	or E	stimated (E) n	ust be spe	cifie	ed			
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Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Discharge		Event Duration (Hours)		Event Discharge (MG)	M or E	Time Discharge Began		Event Duration (Hours)		Event Discharge (MG)	M or E	Discharge	M oi E		M or E	Event Discharge (MG)	M or
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R4 / 9-15)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Permit Number: IN0025574 Page 3 of 9 Public Notification Requirements Met? Y Facility: Elkhart Public Works & Utilities Enter "x" if no CSO discharge occurred for the month: X Monitoring Period: January Design Peak Flow (Hourly) (MGD): Design Flow (MGD): Measured/Metered (M) or Estimated (E) must be specified 44 20 012 013 CSO Outfall No. 14B CSO Outfall No. CSO Outfall No. CSO Outfall No. Event Discharge Event Discharge Event Time Discharge Event Duration Time Discharge Event Duration Event Discharge Time Discharge M or E Event Duration Event Discharge M or E М Day of Month Discharge Duration or E (Hours) (MG) Began (Hours) (MG) Began (Hours) (MG) Began (MG) Began 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 0.0000 0,0000 0.00 0.0000 0,00 Totals: 0,00



National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-16) NDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Monitor	ing Period:		Janua	ary	2024										VAISTELNISTE LEAV	go go u	Milkleit teitively	S-881	discharge		6.5600 V. Francisco	or th	e month:	(otelse
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) Slale Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

INDIANA	DEPARTME	NIC	F ENVIRO	NME	NTAL MAN	IAGI	EMENT						Lastern March	5000				W. See		ì				
City:	Elkhart												Page 8	of	9	al in the	f	ern	nit Number:	IN	0025574	Sinte	No. 6 (1015)	Postante
Facility:	Elkhart P	ubli	c Works	& L	Itilities			entrano	Shaken threatness th	:04 i0.50	ne of the contribution of the	Section 1		P	ublic Not	ifica	ition Requ	ilren	nents Met?	Y				
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Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Discharge	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Discharge	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	e M
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	S or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began				Discharge	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	e M or E
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) ARTMENT OF ENVIRONMENTAL MANAGEMENT

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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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City:	Elkhart												Page 8	3 of	9	104730		Pern	nit Number:	IN	0025574			1111111
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		cs	O Outfall	No.	037			cs	O Outfall	No.	039			cs	O Outfall	No.	040			С	SO Outfal	No.		
Day of Month	Time Discharge Began		Event Duration (Hours)		Event Discharge (MG)	A S E	Time Discharge Began		Event Duration (Hours)		Event Discharge (MG)	M or E			Event Duration (Hours)			M or E	Time Discharge Began					M
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: Elkhart			Page: 9 of 9	Permit Number: IN0025574
Facility: Elkhart Public Works & Utilities				cation Requirements Met? Y
Monitoring Period: January Year: 20	024		Enter "x" if no	o CSO discharge occurred for the month:
Design Peak Hourly Flow (MGD);	44 Design Average Flow (MGD):	20		
Day of				
Month Comments (further explanation	n as to why each CSO event occur	red)		
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Typed or Printed Name and Title of Principal				Telephone
	Kolo, Utilities Services			574-293-2572
I CERTIFY UNDER PENALTY OF LAW THAT WITH A SYSTEM DESIGNED TO ASSURE THINQUIRY OF THE PERSONS WHO MANAGE SUBMITTED IS, TO THE BEST OF MY KNOW SUBMITTING FALSE INFORMATION, INCLUI	HAT QUALIFIED PERSONNEL PROPEF THE SYSTEM OR THOSE PERSONS D VLEDGE AND BELIEF, TRUE, ACCURA DING THE POSSIBILITY OF FINE AND	RLY GATHER AND DIRECTLY RESPO TE, AND COMPL	DEVALUATE THE INFORM DNSIBLE FOR GATHERING ETE. I AM AWARE THAT	ATION SUBMITTED. BASED ON MY THE INFORMATION; THE INFORMATION THERE ARE SIGNIFICANT PENALTIES FOR
Signature of Principal Executive Officer or A	Authorized Agent	The second second second		Date (mm/dd/yy)
	1.50			0/22/21/

Permit

IN0025674 Permit ID: Permittee:

ELKHART WWTP

ELKHART WWTP

Facility:

035 - External Outfall

Permitted Feature:

Facility Location:

Permittee Address:

Major:

229 SOUTH 2ND ST ELKHART, IN46516

1201 S NAPPANEE ST ELKHART , IN46516

Discharge:

03/28/24

DMR Due Date:

035-A - 20 MGD CLASS IV ACTIVATED SLUDGE - TO ST JOSEPH RIVER

From 02/01/24 to 02/29/24 Report Dates & Status Monitoring Period:

NetDMR Validated

Considerations for Form Completion Status:

THE FLOW METER(S) SHALL BE CALIBRATED AT LEAST ONCE EVERY TWELVE MONTHS. REPORT QUARTERLY PARAMETERS ON 035-AQ NETDMR. MUNICIPAL MAJOR ELKHART COUNTY

Principal Executive Officer

Laura First Name: Title:

Utility Services Manager

574-293-2572 Kolo Last Name: Telephone:

No Data Indicator (NODI)

Form NODI:

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00300 Oxygen, dissolved [DO] 1 - Effluent Gross	Smpl.				=8.6			19 - mg/L	0	01/01 - Daily	3R - 3GR24H
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00400 pH 1 - Effluent Gross	Smpl.				=6.7		7.7=	12 - SU	0	01/01 - Daily	GR - GRAB
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00530 Solids, total suspended	Smpl.	=565.0	=698.0	26 - Ib/d		=5.0	=5.0	19 - mg/L	0	01/01 - Daily	24 - COMP24
1 - Effluent Gross											
Season: 0	Req.	<=7511.0 MO AVG	<=11266.0 MX WK AV	26 - Ib/d		<=30.0 MO AVG	<=45.0 MX WK AV	19 - mg/L		01/01 - Daily	24 - COMP24
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00600 Nitrogen, total [as N]	Smpl.	=1644.0		26 - Ib/d		=12.1		19 - mg/L	0	01/30 - Monthly	24 - COMP24
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1 - Effluent Gross							,				
Season: 2	Req.	<=1102.0 MO AVG	<=2554.0 DAILY MX	26 - Ib/d		<=4.4 MO AVG	<=10.2 DAILY MX	19 - mg/L		01/01 - Daily	24 - COMP24
NODI: -	NODI										
00665 Phosphorus, total [as P]	Smpl.	=48.0		26 - Ib/d		=0.41		19 - mg/L	0	01/01 - Daily	24 - COMP24
1 - Effluent Gross								***************************************		()	
Season: 0	Reg.	Req Mon MO AVG		26 - lb/d		<=1.0 MO AVG		19 - mg/L		01/01 Daily	24 - COMP24
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01079 Silver total recoverable	Smpl.	<0.022	<0.026	26 - Ib/d		<0.0002	<0.0002	19 - mg/L	0	01/07 - Weeklv	24 - COMP24
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Season: 0	Reg.	<=0.063 MO AVG	<=0.13 DAILY MX	26 - lb/d		<=0.00038 MO AVG	<=0.00077 DAILY MX	19 - mg/L	05	01/07 - Weekiy	24 - COMP24
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01079 Silver total recoverable G - Raw Sewage Influent	Smpl.					<=0.0002	=0.0003	19 - mg/L (0 - 2	02/30 - Twice Per Month	24 - COMP24
Season: 0	Req.					Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L	OFZ	02/30 - Twice Per Month	24 - COMP24
NODI: -	NODI										
50050 Flow, in conduit or thru treatment plant	Smpl.	=13.806		03 - MGD					0 0	01/01 - Daily	TM - TOTALZ
1 - Effluent Gross	2000		a company					and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s			1
Season: 0	Req.	2		03 - MGD					00	01/01 - Daily	TM - TOTALZ
NODI: -	NODI										
51041 E. coli, colony forming units [CFU] 1 - Effluent Gross	Smpl.					=41.0	=91.0	3Z - CFU/100mL ⁽	0 + >	03/07 - Three Per Week	GR - GRAB
Season: 2	Req.				:	Req Mon MO GEO	Req Mon DAILY MX	3Z - CFU/100mL	0 ->	03/07 - Three Per Week	GR - GRAB
NODI: -	NODI										
Mercury, total 71901 recoverable 1 - Effluent Gross	Smpl.					=1.79	=2.65	3M - ng/L	1 V E C O	01/60 - Once Every 2 Months	GR - GRAB
Season: 0	Req.					<=1.6 ANNL AVG	1on DA	3M - ng/L	00112	01/60 - Once Every 2 Months	GR - GRAB
NODI: -	NODI										
71901 Mercury, total recoverable G - Raw Sewage Influent	Smpl.						=147.0	3M - ng/L (0	01/60 - Once Every 2 Months	GR - GRAB
Season: 0	Req.				İ		Req Mon DAILY MX	_	90 M S	01/60 - Once Every 2 Months	GR - GRAB
NODI: -	NODI										

•		1		1				f		4	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	- 1
Code	Name	:	Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units	Ε Υ	Alldiysis	
80082 BOD, carbo	BOD, carbonaceous [5 day, 20 C]	Smpl.	Smpl. =313.0	=370.0	26 - lb/d		=3.0	=3.0	19 - mg/L	0	01/01 - Daily	24 - COMP24
1 - Efflue	1 - Effluent Gross	1										C. C. Span
Season: 0	0	Req.	Req. <=6259.0 MO AVG	<=10014.0 MX WK AV	26 - lb/d		<=25.0 MO AVG	<=40.0 MX WK AV	19 - mg/L		01/01 - Daily	24 - COMP24
NODI: -		NODI			*							
81012	Phosphorus, total percent removal	Smpl.			II	=86.4			23 - %	0	01/30 - Monthly	CA - CALCTD
K - Perce	K - Percent Removal	ŧ								:	2	
Season: 0	0	Req.			^	>=75.0 MO AV MN			23 - %		01/30 - Monthly	CA - CALCTD
NODI: -		NODI	***************************************		**** *** *****************************							
82220	82220 Flow, total	1		0 000	- 08					c	01/30 -	RT -
1 - Effiue	1 - Effluent Gross	id mo		1400.0	Mgal/mo)	Monthly	RCOTOT
Season: 0	0	Req.		Reg Mon MO TOTAL	80 - Mgal/mo						01/30 - Monthly	RT - RCOTOT
NODI: -		NoDI	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon									

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

Action	DEPOS DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR	
		71901 Mercury, total 1 - Effluent Gross Quality or Concentration Soft The provided sample value is outside the permit limit. Please verify that the recoverable sample Value 2 value you have provided is correct.
Ĥ	<u> </u>	Soft
T C	pialu	Quality or Concentration Sample Value 2
Monitoring	Location	1 - Effluent Gross
Parameter	Name	Mercury, total recoverable
	Code	71901

Comments

mercury sampled on January 3, 2024

Attachments

Name	Туре	Size
	pdf	pdf 1007743.0
IN0025674_CSO_MRO_2024_02.pdf	pdf	pdf 1206115.0
df	pdf	106456.0
IN0025674_INC_RPT_2024_02_2.pdf	pdf	105849.0

Report Last Saved By

ELKHART WWTP

2024-03-28 15:32 (Time Zone:-04:00) 2024-03-28 15:44 (Time Zone:-04:00) laura.kolo@coei.org laura.kolo@coei.org Laura Kolo Laura Kolo Payton88 Payton88 Report Last Signed By Date/Time: E-Mail: Name: Name: E-Mail: User: User:

Date/Time:

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Signing Process Confirmation - CDX Activity ID: _84ddcf74-67f2-4746-9922-fa31396d7def

Your DMRs are undergoing the Signing Process

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IN0025674	ELKHART WWTP 005	005-C	CSO- ARCH/BAR, NW OF INTERSECTION	02/29/24	03/28/24
IN0025674	ELKHART WWTP 006	006-C	CSO- JACKSON, N OF BRIDGE, W OF ELKHART RIVER	02/29/24	03/28/24
IN0025674	ELKHART WWTP 007	007-C	CSO- JACKSON, N OF BRIDGE, E OF ELKHART RIVER	02/29/24	03/28/24
IN0025674	ELKHART WWTP 008	008-C	CSO- HUG/EAST BLVD	02/29/24	03/28/24
IN0025674	ELKHART WWTP 009	009-C	CSO- NIBCO PRKWY - FKA JR. ACHIEVEMENT (Y DR N)	02/29/24	03/28/24
IN0025674	ELKHART WWTP 011	011-C	CSO- ELKHART/FRANKLIN	02/29/24	03/28/24
IN0025674	ELKHART WWTP 012	012-C	CSO- CASSOPOLIS/BEARDSLEY	02/29/24	03/28/24
IN0025674	ELKHART WWTP 013	013-C	CSO- JOHNSON/BEARDSLEY	02/29/24	03/28/24
IN0025674	ELKHART WWTP 014	014-C	CSO- DAM AT CONE/ERWIN	02/29/24	03/28/24
IN0025674	ELKHART WWTP 015	015-C	CSO- MICHIGAN/FULTON	02/29/24	03/28/24
IN0025674	ELKHART WWTP 016	016-C	CSO- DAN @ GOSHEN/SUPERIOR	02/29/24	03/28/24
IN0025674	ELKHART WWTP 017	017-C	CSO- W. BOULEVARD/MCNAUGHTON	02/29/24	03/28/24
IN0025674	ELKHART WWTP 018	018-C	CSO- MCNAUGHTON PARK WEST	02/29/24	03/28/24
IN0025674	ELKHART WWTP 019	019-C	CSO-MICHIGAN @ RVR, S. OF LEX.	02/29/24	03/28/24
IN0025674	ELKHART WWTP 020	020-C	CSO- BRIDGE AND HUDSON	02/29/24	03/28/24
IN0025674	ELKHART WWTP 023	023-C	CSO- FRANKLIN/8TH	02/29/24	03/28/24
IN0025674	ELKHART WWTP 024	024-C	CSO- INDIANA/FRANKLIN	02/29/24	03/28/24
IN0025674	ELKHART WWTP 025	025-C	CSO- POTTAWATOMI/SECOND	02/29/24	03/28/24
IN0025674	ELKHART WWTP 026	026-C	CSO- MAIN/POTTAWATOMI	02/29/24	03/28/24
IN0025674	ELKHART WWTP 027	027-C	CSO- EDGEWATER/NAVAJO	02/29/24	03/28/24
IN0025674	ELKHART WWTP 028	028-C	CSO- WASHINGTON AT RIVER	02/29/24	03/28/24
IN0025674	ELKHART WWTP 029	029-C	CSO- JEFFERSON AT THE RIVER	02/29/24	03/28/24
IN0025674	ELKHART WWTP 031	031-C	CSO- ELIZABETH/LUSHER	02/29/24	03/28/24
IN0025674	ELKHART WWTP 032	032-C	CSO- EDGEWATER/OKEMA	02/29/24	03/28/24
IN0025674	ELKHART WWTP 033	033-C	CSO- EVANS/GRACE	02/29/24	03/28/24
IN0025674	ELKHART WWTP 034	034-C	CSO- LEXINGTON/6TH	02/29/24	03/28/24
IN0025674	ELKHART WWTP 035	035-A	20 MGD CLASS IV ACTIVATED SLUDGE - TO ST JOSEPH RIVER	02/29/24	03/28/24
IN0025674	ELKHART WWTP 037	037-C	CSO- FRANKLIN/KRAU	02/29/24	03/28/24
IN0025674	ELKHART WWTP 039	039-C	CSO- WEST HIGH AT RIVER	02/29/24	03/28/24
IN0025674	ELKHART WWTP 040	040-C	CSO- MCNAUGHTON PARK SOUTH	02/29/24	03/28/24
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MONTHLY REPORT OF OPERATION **ACTIVATED SLUDGE TYPE** WASTEWATER TREATMENT PLANT

State Form 10829 (R4 / 01-20)

Name of Facility			Permit Nun	nber		
Elkhart			IN00256	674		
Month	Year	Plant Des	ign Flow	Telephone	Number	
February	2024	20.00	mgd	5	74/293	-2572
E-mail address:	laura.kolo@coei	.org			035	Α
Certified Operator: N	ame	Class	Certificate	Number	Expi	ration Date
Loura E. Volo		1 157	150	NOA	ne!	N COCIOS

										Laura E.	Kolo			IV	150	94	06/3	30/2024
				Total= 0.71			СН	EMICAL USED	.S				RAW	SEWA	.GE			
Day Of Month	Day of Week	Man-Hours at Plant (Plants less than 1 MGD only)	Air Temperature (optional)	Precipitation - Inches	Bypass At Plant Site("x" If Occurred)	Sanitary Sewer Overflow("x" If Occurred)	Chlorine - Lbs/day	Ferrous Chloride Lbs/Day or Gal./Day	Lbs/Day or Gal./Day	Influent Flow Rate (if metered) MGD	Hd	CBOD5 - mg/l	CBOD5 - lbs/day	Susp. Solids - mg/l	Susp. Solids - Ibs/day	Phosphorus - mg/l	Ammonia - mg/l	
1	Thu							200		16.842	7.2	96	13,484	86	12,080	2.90	14.04	
2	Fri									16.283	7.0	70	9,506	112	15,210	2.63	13.72	
3	Sat							218		15.042	7,5	85	10,663	58	7,276	2,23	11.12	
4	Sun							200		14.975	7.2	94	11,740	74	9,242	2.29	10.28	
5	Mon							204		15.100	7.3	94	11,838	112	14,105	2.55	12.60	
6	Tue	ļ			-			200		14.633	7.2	82	10,007	96	11,716	3.10	14.68	
7	Wed			-				200		14.867	7.2	101	12,523	164	20,334	3.39	16.56	
8	Thu			0.04				209		15.003	7.6	80	10,010	110	13,764	2.91	14.12	
9	Fri	-		0.01		Х		228 222		14.125 13.775	7.5 7.6	76 91	8,953	108	12,723 8,961	3.90	15.92 14.96	
10	Sat		ļ					218		13.775	7.8	96	10,454 11,189	78 70	8,159	2.50	13.00	
11	Sun							182		14.242	7.3	103	12,234	124	14,729	3.21	15.72	
12	Mon							224		13.783	7.1	117	13,449	118	13,564	3.50	17.36	
13 14	Tue							225		13.763	7.3	84	9,189	104	11,376	3.16	17.28	
15	Wed			0.14				225		14.266	7.3	115	13,683	140	16,657	4.09	17.68	
16	Thu			0.14				215		13,658	7.2	90	10,252	130	14,808	2.98	18.48	
17	Fri							170		12.350	7.2	87	8,961	104	10,712	2.98	17.80	
18	Sat							183		12.416	7.3	95	9,837	76	7,870	2.18	14.48	
19	Sun							100		12.883	7.2	83	8,918	116	12,464	2.80	17.20	
20	Mon Tue					Х		648		12.442	7.2	91	9,443	116	12,037	3.03	18.36	
21	Wed							198		12.708	7.5	106	11,234	148	15,686	3.64	24.56	
22	Thu			0.32				200		14.508	7.0	128	15,488	162	19,601	3.17	16.64	
23	Fri			0.05				218		12.008	7.2	123	12,318	100	10,015	3.33	17.56	
24	Sat			0.10				213		12.282	7.2	87	8,912	90	9,219	2.76	14.48	
25	Sun							240		11.100	7.2	115	10,646	98	9,072	2.72	12.64	
26	Mon		<u> </u>					227	***************************************	11.633	7.2	88	8,538	144	13,971	3.59	15.64	
27	Tue			0.01						12.667	7.5	120	12,677	124	13,100	3.57	30,32	
28	Wed			0.08				198		11.203	7.7	96	8,970	128	11,959	3.57	23,64	
29	Thu							225		11.425	130.5	106	10,100	136	12,959	3.43	21.96	
30					1													
31																		
vei	age			0.10				222		13.562		97	10,869	111	12,530		16,65	
/lax	imum			0.32				648		16.842		128	15,488	164	20,334		30.32	
/lini	mum			0.01				100		11.100	7.0	70	8538	58	7276	2.18	10.28	
of	Data			0 7	0	2	0	27	0	29	29	29	29	29	29	29	29	
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and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Laura Wo 3/28/24

Signature of principal executive officer or authorized agent (or attested by NetDMR subscriber agreement)

Caura No

Date (month, day, year)

MONTHLY REPORT OF OPERATION ACTIVATED SLUDGE TYPE WASTEWATER TREATMENT PLANT

State Form 10829 (R4 / 01-20)			
Name of Facility	Permit Number	Month	Year
Elkhart	IN0025674	February	2024

				11400230	77	I COL	aary											
T _I	PRIMAR	RY			AE	RATIO	N			SECON	DARY					-		
	EFFLUE		MIXED LI	QUOR				RETURN S	LUDGE	EFFLUE			l	INAL I	EFFLUE	:N I		
Day Of Month	CBOD5 - mg/l	Susp. Solids - mg/l	Settleable Solids % in 30 minutes	Susp. Solids - mg/l	Sludge Vol. Index - ml/gm	Dissolved Oxygen - mg/l	Temperature - F	Volume - MG	Susp. Solids - mg/l	CBOD5 - mg/l	Susp. Solids - mg/l	Residual Chlorine - Final	Residual Chlorine - Contact Tank	E. Coli - colony/100 ml	pH - daily low (or single sample)	pH - daily high (if multiple samples)	Dissolved Oxygen - mg/l	Oil & Grease (mg/l)
1	85	76	179	2,736	65	6.4	12	2.456	4,820						7.0		9.3	
2	64	74	188	2,692	70	6,0	12	1.297	5,140						7.4		9.5	
3	62	39	194	2,664	73	6.2	12	1.297	4,820						7.5		9,8	
4	62	36	192	2,840	68	6.6	12	1.297	4,920						7.5		10.1	
5	86	45	182	2,716	67	5.8	12	1.297	4,640					29	7.7		9.6	
6	70	62	186	2,292	81	5.8	12	1.266	4,100					34	7.6		9.7	
7	70	63	185	2,636	70	5.1	12	1.297	5,080					56	7.0		10.1	
8	59	72	146	3,240	45	6.4	13	0.759	4,020						6.7		9.6	
9	62	50	195	3,000	65	5.6	13	1.297	4,100						7.6		9.6	
10	69	50	203	2,660	76	6.2	12	1.297	5,260						7.5		9.8	
11	63	49	178	2,920	61	6.2	12	1.297	5,300					25	7.6 7.4		10.1 9.3	
12 13	65 64	50 51	180 205	6,908 2,572	26 80	4.0 5.8	12 12	1.370 1.297	5,640 6,420					25 56	7.4		8.6	
14	65	70	203	2,644	76	5.4	12	1.297	5,180					55	6.9		9.5	
15	82	70	198	2,628	75	6.4	12	1.297	5,120					- 55	7.0		10.1	
16	71	54	170	3,216	53	6.3	12	1.297	4,420						7.5		10.1	
17	67	66	202	2,920	69	6.1	12	1.297	5,180						7.6		10.0	
18	59	45	202	2,728	74	5.1	12	1.297	4,820						7.6		9.2	
19	64	44	200	2,472	81	6.4	12	1.297	4,240					43	7.0		9.4	
20	76	68	194	2,220	87	5.2	12	0.951	5,780					56	7.5		9.8	
21	76	102	175	2,564	68	5.4	13	0.761	3,480					91	7.4		10.1	
22	84	76	190	2,340	81	5,6	12	1.297	6,160						6.8		9.9	
23	102	58	197	2,736	72	5.9	13	1.297	5,980						7.5		9.8	
24	75	68	199	2,612	76	6.8	10	1.297	5,780						7.5		10.2	
25	81	51	158	2,672	59	6.2	12	1.297	4,920						7.5		10.2	
26	69	69	161	6,740	24	6.3	13	1,297	5,780					21	7.6		9.8	
27	95	70	152	2,836	54	4.6	13	1.297	5,260					37	7.6		9.4	
28	70	54	174	1,804	97	5.9	10	1.293	3,860						7.5		9.5	
29	70	67	174	2,544	68	5.8	12	4.395	4,120					36	6.9		9.9	
30																		
31			 				45	1.000	1	ļ								
Avg.	72	60	185	2,950	68	5.8	12	1.396	4,977					45		7 7	9.7	
Max	102	102	205	6,908	97	6.8	13	4.395	6,420					91 21		7.7		
Min.	59	36	146	1804	24	4.0	10	0.759	3480		L			91		6.70	8.6	
	Max													91				
		ove 235 29		29	29	29	29	29	29	0	0		1 0		29	0	29	0
Data			y ₁ 29	1 29				<u> </u>		, 0		Ш	11 0	12	1 25	ı V	23	

Comments for the Month (major repairs, breakdowns, process upsets and their causes, inplant treatment process bypass, etc.): ferric chloride is being used for po4 removal, not ferrous chloride

MONTHLY REPORT OF OPERATION ACTIVATED SLUDGE TYPE WASTEWATER TREATMENT PLANT

| State Form 10829 (R4 / 01-20) | Name of Facility | Permit Number | Month | Year | Elkhart | IN0025674 | February | 2024 |

							FI	NAL EFF	LUENT								
	ŀ	Flow		BOD				Total Su		d Solids	;	Ammon	ia			Phosph	orus
Day Of Month	Day of Week	Effluent Flow Rate (MGD)	Effluent Flow Weekly Average	CBOD5 - mg/l	CBOD5 - mg/l Weekly Average	CBOD5 - lbs/day	CBOD5 - lbs/day Weekly Average	Susp. Solids - mg/l	Susp. Solids - mg/l Weekly Average	Susp. Solids - lbs/day	Susp. Solids - Ibs/day Weekly Average	Ammonia - mg/l	Ammonia - mg/l Weekly Average	Ammonia - Ibs/day	Ammonia - Ibs/day Weekly Average	Phosphorus - mg/l	Phosphorus - Ibs/day
1	Thu	18.004		3		450		6		841		0.11		16.5		0.34	51
	Fri	17.742		2		296		4		621		0.05		7.4		0.32	47
	Sat	15,966		3		399		6		746		0.04		5.3		0.45	60
4	Sun	15.800		3		395		4		593		0.04		5.3		0.46	61
5	Mon	16.291		3		408		4		611		0.07		9.5		0.40	54
6	Tue	15.755		3		394		5		670		0.07		9.2		0.42	55
7	Wed	16.048		3		402		6		857		0.15		20.1		0.58	78
8	Thu	16.539		2		276		5		703		0.21		29.0		0.49	68
	Fri	15,320		2		256		6		818		0.01		1.3		0.49	63
		13.773	15.647	4	2.86	459	370	6	5.36	632	698	0.01	0.08	1,1	11	0.54	62
	Sun	13.677		3		342		4		399		0.00		0.0		0.51	58
	Mon	13.781		3		345		5		529		0.12		13.8		0.46	53
13	Tue	13.757		3		344		5		597		0.12		13.8		0.44	50
	Wed	13.733		2		229		4		515		0.06		6.9		0.36	41
15	Thu	14.578		2		243		5		632		0.06		7.3		0.41	50
16	Fri	12.758		4		426		5		564		0.06		6.4		0.40	43
17	Sat	12.288	13.510	2	2.71	205	305	6	4.84	574	544	0.06	0.07	6,1	8	0.43	44
18	Sun	12.274		2		205		5		481		0.06		6.1		0.31	32
19	Mon	12.395		2		207		4		362		0.05		5.2		0.37	38
20	Tue	11.261		3		282		5		441		1.40		131.5		0.37	35
21	Wed	12.734		3		319		5		573		0.12		12.7		0.41	44
22	Thu	14.701		3		368		4		552		0.05		6.1		0.39	48
23	Fri	12.134		3		304		6		597		0.09		9.1		0.33	33
24		11.753	12.465	2	2.57	196	268	5	4.80	480	498	0.08	0.26	7.8	26	0,35	34
	Sun	11.376		2		190		3		323		0.07		6.6		0.39	37
	Mon	11.485		3		287		4		345		0.05		4.8		0.34	33
	Tue	11.915		3		298		5		527		1.12		111.3		0.37	37
	Wed	11.217		3		281		4		337		0.65		60.8		0.46	43
1 3	Thu	11.328	11.247	3	2.86	283	269	5	4.29	453	405	0.07	0.30	6.6	29	0.40	38
30	,																
31																	
Avg		13.806		3		313		5		565		0.17		18.2		0.41	48
Max		18.004	15.647	4	2.86	459	370	6	5.36	857	698	1.40	0.30	131.5	29	0.6	78
Min		11.217	11.247	2	2,57	190	268	3	4.29	323	405	0.00	0.07	0.0	8	0.3	32
Data	3	29	4	29	4	29	4	29	4	29	_	1 29	4	29		4 29	29

	MONTHLY F	REMOVAL SUM	MARY	The September 1	Total Monthly Flo	w:
Percent Removal	BOD5	S.S.	Ammonia	Phosphorus	(million gallons)	400
Primary Treatment	25.44	45.8		100		
	NA	NA			Percent Capacity	
Secondary Treatment	96.2	91.9			(actual flow/design)	69%
Overall Treatment	97.18	95.6	99.0	86.4		
Phosphorus limit would be		75 % removal.	(compliance a	achieved)		

Page 3 of 6

MONTHLY REPORT OF OPERATION ACTIVATED SLUDGE TYPE WASTEWATER TREATMENT PLANT

			F											
	SLUDG					DIGE	STER	DPERAT	ION					
	DIGEST	ER	Anaerol	bic Only										
Day Of Month	Primary SludgeGal. x 100	Waste Act. Sludge Gal. x 1000	Нф	Gas Production Cubic Ft. x 1000	Temperature - F	Supernatant Withdrawn hrs. or Gal. x 1000	Supernatant BOD5 mg/l or NH3-N mg/l	Total Solids in Incoming Sludge - %	Total Solids in Digested Sludge - %	Volatile Solids in Incoming Sludge - %	Volatile Solids in Digested Sludge - %	Digested Sludge Withdrawn hrs. or Gal. x 1000		,
1	22.85	190.08	7.0		74	7.074		5.08	2.32	81.74	63.95	86.54		
2	30.44	244.80	7.0		74	0.000		3.72	2.38	75.33	63.83	64.90		
3	26.73	244.80	7.0		75	28.296		2.73	2.28	78.97	62,20			
4	29.24	244.80	7.0	Ì	76	0.000		5.86	2.21	88.87	63.79			
5	17.21	244.80	7.0		76	0.000		1.87	2.30	82.48	64.47	85.53		
6	26.72	244.80	7.0		76	21.222		4.06	2.15	79.67	62.58	91.73		
7	26.36	244.80	7.1		76	7.074		4.50	2.22	78.47	60.67	89.81		
8	25.83	180.00	7.2		76	0.000		3.10	2.11	76.96	61.15	89.52		
9	21.10	244.80	7.1		76	17.685		4.71	2.15	77.39	60.49	52.04		
10	32.53	244.80	7.0		77	17.685		4.93	2.10	79.26	62.12			
11	27.95	241.92	7.0		76	0.000		4.66	2.11	82.87	61.94			
12	21.86	246.24	6.9		77	0.000		4.26	1.99	84.35	66.42			
13	24.62	244.80	6.9		77	14.148		4.91	2.09	83.13	62.59	90.53		
14	30.80	244.80	7.0		77	0.000		3.87	2.12	78.35	62.03	91.60		
15	31.44	254.88	7.0		76	10.611		4.33	2.10	77.44	63.51	90.28		
16	32,51	259.20	7.1		75			4.60	1.92	77.63	67.16	64.57		
17	31.52	259.20	7.1		76	24.759		3.93	2.06	77.01	61.97			
18	30.73	259.20	7.1		76			3.37	2.02	76.44	61.31			
19	29.07	259.20	7.0		75	17.685		3.93	2.04	78.93	61.86			
20	29.18	260.64	7.1		76			2.13	2.02	81.67	62.07	91.46		
21	30.43	194.40	6.9		77	7.074		4.38	2.08	79.69	62.32	91.18		
22	30.10	237.60	6.9		77	10.611		4.42	2.10	78.54	60.96	90.38		
23	27.01	252.00	6.9		76			3.79	2.09	77.00	63.27	64.11		
24	29.75	252.00	7.0		77			4.42	2.06	77.19	62.03			
25	32.56	252.00	7.0		77			1.49	2.01	81.37	62.77			
26	29.01	252.00	7.1		78	3.537		2.66	1.91	81.87	62.89			
27	24.82	252.00	7.1		77			3.53	2.02	79.76	65.56	93.14		
28	17.32	192.96	7.1		79	10.611		3.71	2.10	76.82	62.95	89.97		
29	30.00	205.92	7.1		77	0.000		4.79	1.15	78.09	62.86	90.14		
30														
31														
Avg.	27.58	239.64	7.86 (76	9.003		3.92	2.08	79.56	62.82	83.75		
Max.	32.56	260.64			79	28.296		5.86	2.38	88.87	67.16	93.14		
Min.	17.21	180.00	6.9		74	0.000		1.49	1.15	75.33	60.49	52.04		
		111												
Data	29	29	29	0	29	22	0	29	29	29	29	18	0	0

Once completed, this form should be converted to a pdf document, named appropriately & attached to the corresponding netDMR for submittal

MONTHLY REPORT OF OPERATION ACTIVATED SLUDGE TYPE WASTEWATER TREATMENT PLANT

State Fo Name of F	rm 10829 (F acllity	R4 / 01-20) Permit Numb	er	Month	T	Year										
Elkhart		IN00256	674	Febr	uary	20	24									
				State Form	30530				Т		I- I				T	
	Chl	Final oride	Effluent	Nitrogen												
	Ollin	Jilue	Iotair	litiogen												
Day Of Month	Chloride - mg/l	Chloride - lbs/day	Total Nitrogen- mg/l	Total Nitrogen- lbs/day	Ag - Influent mg/I	Ag - Effluent mg/L	Cd - Influent mg/L	Cd - Effluent mg/L	CN - Influent mg/L	CN - Effluent mg/L	Cr - Influent mg/L	Cr - Effluent mg/L	Cu - Influent mg/L	Cu - Effluent mg/L	Hg - Influent ng/L	Hg - Effluent ng/L
3															, ,	
<u>4</u> 5			12.10	1,644	0.0002		0.0002		-		0.0218		0.0406			
6			12,10	1,044	0.0002	0.0002	0,0002	0.0002			0.0210	0.0020	0.0100	0.0060		
7																
8									,							
9																***************************************
10 11																
12			1				***************************************									
13					0.0003	0.0002										
14		23,250														
15 16		-											1			
17																
18																
19																
20					0.0003	0.0002			i							
21 22																
23		1														
24																
25						0.000										
26 27		-			0.0002	0.0002					 					
28																
29	1															
30																
31		22.050	10.40	1 644	0.0000	0.0000	0.0000	0.0002			0.0249	0.0000	0.0406	0.0060		
Avg. Max.	203	23,250 23,250		1,644				0.0002						0.0060		
Min.	203	23,250		1644				0.0002					0.0406			
Data	,	1 1	1	1	4	4	1	1	0	C	1	1	1	1	0	(

WASTEWATER TREATMENT PLANT

State F Name o	orm 10829 f Facility	(R4 / 01-20) Permit Numb	er	Month		Year										
Elkhart		IN00256	74	Febr	uarv	202	24									
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_ ≤	Ni - Influent mg/L	Ni - Effluent mg/L	Pb - Influent mg/L	Pb - Effluent mg/L	Zn - Influent mg/L	Zn - Effluent mg/L										
Day Of Month	Ē	#	드	Ш	느	ш										Ì
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5	0.0179		0.0010		0.0491											
6		0.0047		0.0010		0.0216										
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Avg.	0.0179	0.0047	0.0010	0.0010	0.0491	0.0216		1	-							
Max	0.0179	0.0047	0.0010	0.0010	0.0491	0.0216				-						1
Min.	0.0179	0.0047	0.0010	0.0010	0.0491	0.0216										
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	Elkhart				ONMENTAL M.		······································			Page 1	of	9		P	erm	it Number:	IN	0025574	
Facility:	Elkhart Pı	ublic Worl	ks & Utilities	3							F	Public Not	lific	ation Requ	rem	ents Met?	Υ		
Monitor	ing Period	: F	ebruary	2024							E	nter "x" if	no	CSO disch	arg	e occurred	for	the month:	х
Design	Peak Hour	ly Flow (N	iGD):	44	Design Ave	erage Flow	(MGD):	20		Measured/	Met	ered (M) c	or E	stimated (E) mı	ust be spec	ifie	d	
WWT	nfluent	Data		Pr	ecipitation D	ata		L. FL	С	SO Outfall	No.	005			c	SO Outfall	No.	006	
Day of Month	Average Daily Flow (MGD)	Peak Hourly Flow (MGD)	Time Precip. Began (am/pm)	Precip. Duration (Hours)	Total Dally Precip. (Inches)	Peak Intensity (Inch/hr)	Measureme nt Interval (hr, 30 m, 15 m)	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharg e (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Discharge	M or E
1	16.84	23.10					15 min												
2	16.28	19,20					15 min												L
3	15.04	18.20					15 min												
4	14.98	18.10					15 min												
5	15.10	18.10					15 min												
6	14.63	16.20		·			15 min												
7	14.87	17.80					15 min												Γ
8	15.00	17.50					15 min												
9	14.13	16.80	10:51 PM	0.08	0.01	0.04	15 min												
10	13.78	15.60					15 min												
11	13.98	15.40					15 min												
12	14.24	16.00					15 min												Г
13	13.78	16,20					15 min										Γ		T
14	13.12	15.60					15 min										Γ		
15	14.27	26,10	5:51 AM	3.25	0.14	0.16	15 min												
16	13.66	15.70		***************************************			15 min												
17	12.35	14.10					15 min										Г		
18	12.42	15.10					15 min						<u> </u>				Г		
19	12.88	15.10					15 min								Γ				
20	12,44	15.00			1		15 min												
21	12.71	15.70					15 min												Γ
22	14.51	28,30	2:29 AM	11.78	0.32	0.20	15 min		1						1				
23	12.01	14.70	9:19 PM	0.95	0.05	0,08	15 min												
24	12.28	16.30	12:11 AM	21.30	0.10	0,08	15 min		Ī										T
25	11.10	13.50		,	1		15 min				T		T				Г		
26	11.63	15.00					15 min		Г		T		Ī		T		T		T
27	12.67	16.10	9:16 AM	0.08	0.01	0.04	15 min		Г		T				T		1		T
28	11.20	13.70	3:46 AM	4.72	0.08	0.12	15 min		T		T		T		T		T		T
29	11.43	13.10	0, 10 / 11/1	,,,,,	1	0.12	15 min		T		T	<u> </u>	†		T		1		T
	11170	. 19.19					10 11111	0	Da	0,00		0		0	Da	0,00		0	



National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15)

	DEPARTME Elkhart	NT C	F ENVIRO	NME	NTAL MAN	IAG	EMENT						Page 2		0	-		arn	nit Number:	İM	0025574			
	Elkhart P	ubli	c Works	81	Itilities											lfic			nents Met?	á				
	ing Period		Febru		2024											i de la			discharg		curred f	or th	e month:	Х
2011000	Peak Flow	(diameter)			44		Design Fl	ow	(MGD):		20		Measured/	Met					ust be spec					
			O Outfall		007			(0.00)	O Outfall	No.	800				O Outfall		9			14.	SO Outfall	No.	011	
Day of Month	Time Discharge Began	М	Event	M	Event Discharge (MG)	M or E	Time Discharge Began	м	Event	м	Event Discharge (MG)	мом	Time Discharge Began	M	Event	м	Event	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
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18						\perp				-		ļ						_		-		_		_
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20						1		1		_		ļ		<u> </u>				ļ		1				<u> </u>
21						1		_										<u> </u>		<u> </u>		_		-
22		1				L		_		-				<u> </u>			ļ	_						-
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28		-				1		-										_		-		ļ		-
29				1 22 22 22						200		1000 E		- Carolina		Tarking to		3894						
Totals:	0	Da ys	0,00		0,0000		0	Da ys	0.00		0,0000		0	Da ys	0,00		0.0000		0	Da ys	0,00		0,0000	



National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

WHI SHOW	DEPARTME Elkhart	NIC	P ENVIRO	INME	ENTAL MAN	IAG	EMENI						Page 3	of	٥		D	orm	nit Number:	INI	nn2557 <i>A</i>			
	Elkhart P	ubli	c Morks	R. I	Itilities								rage			les			nents Met?	3	1			
	ing Period:		Febru		2024														discharg		curred f	or th	e month:	x
	Peak Flow				44	-	Design Fl	OM.	(MGD):		20	3,222	Moseurodi	Mat					must be sp				<u> </u>	
Design			Outfall		012				Outfall	Nia	013		9550000000		Outfall N	goud.			nuat be ap		SO Outfal	No	015	
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15)

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Facility	Elkhart P	ubli	c Works	& U	tilities											ifica	ation Requ	iren	nents Met?	Υ				
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Day of Month	Time Discharge Began	M or	Event	M	Event Discharge	M or E	Discharge	M or	Event	M or	Event	M or E	Time Discharge Began	M	Event	M	Event	M or E	Discharge	м	Event Duration	М	Event Discharge	M
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-16) ARTMENT OF ENVIRONMENTAL MANAGEMENT

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City:	Elkhart												Page 8	of	9	, Asteh		ern	it Number:	IN	0025574			A SPANIE
Facility:	Elkhart P	ubli	c Works	<u>& L</u>	Itilities		Table Table See	6095080		Water G	energy (Alexa	NOTE:		P		10.00			nents Met?					
Monitor	ing Period:		Febru	ary	2024										Ent	er"	x" if no C	so	discharge	oc	curred fo	r the	e month:	X
Design	Peak Flow	(Ηοι	urly) (MG	D):	44	1555	Design Fl	ow	(MGD):		20	A Comment	Measured/	Met	ered (M) c	r E	stimated (E) m	just be spe	cifie	d			Page 1
		cs	O Outfall	No.	020			cs	O Outfall	No.	023			cs	O Outfall	No.	024			С	SO Outfall	No.	025	
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began		Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E		M or E	Event Discharge (MG)	M or E
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) PARTMENT OF ENVIRONMENTAL MANAGEMENT

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Facility	Elkhart P	ubli	c Works	& L	Itilities	-						14,44		P		SOUNDS.		25.00	ents Met?				311	30,00
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Day of Month	Time Discharge Began	M or E	Event Duration (Hours)		Event Discharge (MG)	M or E	Time Discharge Began		Event Duration (Hours)	E or M	Event Discharge (MG)	M or E	Time Discharge Began		Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Discharge	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)			
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) IANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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98888	Elkhart												Page 8						nit Number:	1	0025574			
Facility:	Elkhart Pi	<u>ıblic</u>	c Works	& U	tilities					3875. 3875.		865		<u> </u>					nents Met?	100				
Monitor	ing Period:		Febru	ary	2024										Ent	er "	x" if no C	so	discharge	00	curred fo	or th	e month:	X
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		CS	O Outfall	No.	037			cs	O Outfall	No.	039			cs	O Outfall	No,	040			C	SO Outfall	No.		
Day of Month	Time Discharge Began		Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Duration		Event Discharge (MG)	M or E
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R4 / 9-15)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: Elkhart				Page: 9 of 9	Permit Number: N0025574
Facility: Elkhart Public Works & Utilitle	s			Public Notifi	cation Requirements Met? Y
Monitoring Period: February	2024			Enter "x" if n	o CSO discharge occurred for the month: X
Design Peak Hourly Flow (MGD):	44	Design Average Flow (MGD):	20		
	and the street was		C. C. C. L. C. C. C. C.		
Day of Month Comments (further explain	nation as	to why each CSO event occurred)		
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Typed or Printed Name and Title of Pri	.aura E.	Kolo, Utilities Services Manag	ег		574-293-2572

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

Signature of Principal Executive Officer or Authorized Agent Date (mm/dd/yy)

O3/28/24

BYPASS / OVERFLOW INCIDENT REPORT

State Form 48373 (R7 / 4-16) Indiana Department of Environmental Management Office of Water Quality

☐ Follow-up to Bypass report
previously sent on:

INSTRUCTIONS:

Complete all parts of this form and email signed copies to www.eports@idem.IN.gov. Submittal of this report will satisfy the Office of Water Quality (OWQ) telephone and written bypass/overflow reporting requirements of your NPDES permit. Please use and the second page of this form as necessary to identify separate locations caused by the same event. If you have any questions while filling out the report form, please contact Renee Repar at (317) 232-6770 or rrepar@idem.in.gov.

To report a spill or if the release is resulting in a fish kill or other severe environmental damage, immediately report the release to the Emergency Response Section spill response line at: (317) 233-7745 or toll free within Indiana at (888) 233-7745.

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(1) Facility Na	me (Organization)		(2) Mailing A		L INFORMATION porting organization)		(3) Coun	tv	(4) NPDE	S Permit
	ıblic Works		1,,	,	ee Street	1	Elkhai		IN0002	
Likilaiti	IDIIC WORKS				RMATION (Location 1)		LIKITA		1140002	.007-
(5) Outfall Number	(6) Date <i>(mm/dd/yy)</i> Release Began		7) Date <i>(mm/dd/yy)</i> telease Stopped		(8) Location of Release (s Manhole, Lift Station, Ford	treets address		Latitude eg Min Sec)	(9) Longitu (Deg Min	
035	2/9/24 5:44	AM PM	2/9/24 5:45	AM PM	1201 S. Nappane	e St		41 40 45N	86 00	0 7W
(10) Amount of	of Flow Released		ys provide a volu			TP Flow During	Release	(12) WWTP P		Flow Rate
Sanitary S ☐ Treatment ☐ Prohibited ☐ Dry Weath ☐ Combined ☐ Construction ☐ Construction ☐ Manhole ☐ House Lat ☐ Pipe Failur ☐ Pump Stat ☐ Treatment ☐ Other ☐ Influent Str ☐ Air Relief \	ype (Select one.) ewer Overflow Bypass (at wastev Combined Sewer C er Combined Sewer C er Combined Sewer Rele or Bypass / Overflo on Related Component(s) eral e ion Failure Bypassed ructure /alve	Overflow r Overflow ease w (Select on Power Failu (17) A Opera was c	e <i>or mor</i> e.) re	ent Failure	any damage to aquatic l	Exceeded Martintal () It gate	x Capaci 18) Desc (Check a Affecte Basem Occum Reach	ty Precipitatiful Precipitation of the An Il that apply.) and Private Propient Backupied at Treatmer ed Public Landied Receiving Water	ation rea Impacto erty nt Plant Vater	
l <u>`</u> '	l organizations noti orgency Response	l lied by facilit ☐ Health			,	cal Emergenc	y Manag	ement	ner:	n/a
(Select one of Removed WRite SOP a	more of the followi	ing, then add paired Pipe itors on proc	a written descrip ☐ Repaired Fedures for prope	otion.) Pump Stati rly put grit	Clean-up and Treatment on		rea Clean-Up	Debris		
(22)										
(22)			CEF	RTIFICATI	ON AND SIGNATURE					
designed to a manage the s belief, true, ad	ssure that qualified ystem, or those per ccurate, and comple for knowing violation	personnel pr sons directly ete. I am awa ons. (The a	nt and all attachr coperly gather an responsible for are that there are area below is for	ments were d evaluate gathering t e significar	e prepared under my dire the information submitte he information, the infor it penalties for submitting ten signature or an elec-	ed. Based or mation submi g false inform	n my inqu itted is, to ation, inc	iry of the person the best of my cluding the post	on or perso y knowledg sibility of fir	ns who e and ne and
SIGNATURE:		ula-	W 60				DATE	(month, day, y	_{rear):} 2/9/2	24
	g Report (printed)		hone Number 4) 293-2572		et Email a.kolo@coei.org		onth, day, 4 appx	year) / Time IDE	M Notified	□ AM □ PM

Kolo, Laura

From:

postmaster@state.in.us

Sent:

Friday, February 9, 2024 3:23 PM

To:

Kolo, Laura

Subject:

EXTERNAL: Relayed: inc report 020924

Attachments:

EXTERNAL: Relayed: inc report 020924

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BYPASS / OVERFLOW INCIDENT REPORT

State Form 48373 (R7 / 4-16) Indiana Department of Environmental Management Office of Water Quality

☐ Follow-up to Bypass report
previously sent on:

INSTRUCTIONS:

Complete all parts of this form and email signed copies to www.eports@idem.IN.gov. Submittal of this report will satisfy the Office of Water Quality (OWQ) telephone and written bypass/overflow reporting requirements of your NPDES permit. Please use and the second page of this form as necessary to identify separate locations caused by the same event. If you have any questions while filling out the report form, please contact Renee Repar at (317) 232-6770 or rrepar@idem.in.gov.

To report a spill or if the release is resulting in a fish kill or other severe environmental damage, immediately report the release to the Emergency Response Section spill response line at: (317) 233-7745 or toll free within Indiana at (888) 233-7745.

Response Sec	ction spill response	line at: (3	117) 233-7745 or to	II free with	in Indiana at (88	88) 233-7745	•				
				GENERA	L INFORMATIO	ON					
(1) Facility Na	me (Organization)		(2) Mailing A		porting organiz		(3) C	County		(4) NPDES	3 Permit
Flkhart Pu	ıblic Works		1201 S. I	Nappar	ee Street		Elk	hart		IN0002	5674
Elitiare 1	ibile Works				RMATION (Lo	cation 1)					
(5) Outfall	(6) Date (mm/dd/yy)	and Time	(7) Date (mm/dd/yy)		(8) Location of 8	Release <i>(street</i>			atitude	(9) Longitu	
Number	Release Began		Release Stopped	T ==	Manhole, Lift St	tation, Force Ma	ain etc.)	(Deg	Min Sec)	(Deg Min S	Sec)
035	02/20/24 12:28	☐ AM ☐ PM	02/20/24 2:15	□ AM □ PM	1966 Sterli	•	D. J D. I.	1	1 40 7 N (12) WWTP P	85 57	
_ ` ` '	of Flow Released		ways provide a volu			12.5 MGI	ow During Rele	ase	44.0 MG		-low Rate
Check one: (13) Overflow To	☑ Estimated ype (Select one.)	Actual	<10 gal		any damage to			ream:	44.0 MG		
☐ Sanitary Solution ☐ Treatment ☐ Prohibited ☐ Dry Weath ☐ Combined	ewer Overflow Bypass (at waster Combined Sewer Cer Combined Sewer Sewer System Rel	Overflow er Overflow ease	na/	Describe	any damage to		or rootiving de				
Construction	or Bypass / Overflo	lw (<i>ऽeiect त</i>] Power Fa	•	ont Follure	e ☑ Unknowi	n	eded Max Ca	nacity	☐ Precipite	ition	Inches
(16) System C									otion of the Ar		
(Select one of) Additional Descrip leved call at 12:28				^{floor} `(Che	ck all t	that apply.)	•	-
Manhole	1	l l	iins of 1966 Sterling wnstream manhole:	-				fected	Private Propent Backup	erty	
│		I .	d flows returned to			JII Was Geale		curre	d at Treatmen	nt Plant	
Pump Stat	ion Failure		a none rotarries to	ilomia at	_,, o p			eached	d Public Land		
Treatment	Bypassed						∐ R€	achec	d Receiving W	Vater	
☐ Other☐ Influent St	ructure						Name	of Re	eceiving Wate	r Impacted	:
☐ Air Relief \	/alve						n/a		_	•	
Sewer Clea	n Out										
Describe Othe sewer main p	er: (in the box belov lugged	v)									
(19) Additiona	I organizations not	ified by fac	cility, if necessary (Select one	or more.)						
☐ IDEM Eme	ergency Response	☐ Healt	th Dept. [☐ DNR Fi	sh and Wildlife	☐ Local E	mergency Ma	ınager	ment 🔲 Oth	ner:	
											n/a
(20) Actions T	aken to Prevent. M	Inimize. or	r Mitigate Damage	includina (Clean-up and Ti	reatment of A	ffected Area				
(Select one of	r more of the follow	ing, then a	idd a written descri	otion.)	_	_					
Removed line and	Blockage ☐ Re d obstruction cleare	paired Pip ed	e 🔲 Repaired F	Pump Stati	ion 🕍 Othe	r 🔲 Lime	☐ Clear	ո-Up E	Debris		
'											
(21) Resolution	n: Actions Taken o	r Planned	to Prevent Recurre	ence						***************************************	
continue rou	une cleaning and te	elevishig so	criedule								
(22)										~~~	
					ION AND SIGN						
I certify under	penalty of law that	this docur	ment and all attachi	ments wer	e prepared und	er my directio	n or supervis	ion in	accordance w	ith a syste	m
designed to a	ssure that qualified	personnel	l properly gather ar ctly responsible for	id evaluate dathering	e the information	n supmitted. the informati	Based on my ion submitted	inquir	y of the perso	n or perso knowleda	ns wn o e and
		ete. I am a	aware that there are	e significar	nt penalties for s	submitting fal	se informatior	n, inclu	iding the poss	sibility of fir	ne and
imprisonment	for knowing violation	ons. (<i>Th</i>	ne area below is for	a handwr	itten signature c	or an electron	ic substitute t	hen fa	x or scan to F	PDF for em	ailing.)
SIGNATURE:	laur	0.1	(2)				ח	ATF /	month, day, y	_{rear}} . 2/21.	/24
	ng Report (printed)	Te	elephone Number		ct Email		Date (month,	day, ye	ear) / Time IDEI	M Notified	₩A 🔽
Laura Kolo		(5	574) 293-2572	laura	a.kolo@coei	.org	2/21/24 a	ppx	8:15		PM

Kolo, Laura

From:

postmaster@state.in.us

Sent:

Wednesday, February 21, 2024 8:21 AM

To:

Kolo, Laura

Subject: Attachments: EXTERNAL: Relayed: IN0025674_INC_RPT_02_2024_02 EXTERNAL: Relayed: IN0025674_INC_RPT_02_2024_02

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Pigning Process Confirmation - CDX Activity ID: _782b9fa1-618d-4f60-8df9-c0ad8b8fffdc

Your DMRs are undergoing the Signing Process

WANTAMAN TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH TANDAH		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		***************************************
IN0025674 ELKHART WWTP 005	005-C	CSO- ARCH/BAR, NW OF INTERSECTION	03/31/24	04/28/24
IN0025674 ELKHART WWTP 006	D-900	CSO- JACKSON, N OF BRIDGE, W OF ELKHART RIVER	03/31/24	04/28/24
IN0025674 ELKHART WWTP 007	007-C	CSO- JACKSON, N OF BRIDGE, E OF ELKHART RIVER	03/31/24	04/28/24
IN0025674 ELKHART WWTP 008	D-800	CSO- HUG/EAST BLVD	03/31/24	04/28/24
IN0025674 ELKHART WWTP 009	D-600	CSO- NIBCO PRKWY - FKA JR. ACHIEVEMENT (Y DR N)	03/31/24	04/28/24
IN0025674 ELKHART WWTP 011	011-C	CSO- ELKHART/FRANKLIN	03/31/24	04/28/24
IN0025674 ELKHART WWTP 012	012-C	CSO- CASSOPOLIS/BEARDSLEY	03/31/24	04/28/24
IN0025674 ELKHART WWTP 013	013-C	CSO- JOHNSON/BEARDSLEY	03/31/24	04/28/24
IN0025674 ELKHART WWTP 014	014-C	CSO- DAM AT CONE/ERWIN	03/31/24	04/28/24
IN0025674 ELKHART WWTP 015	015-C	CSO- MICHIGAN/FULTON	03/31/24	04/28/24
IN0025674 ELKHART WWTP 016	016-C	CSO- DAN @ GOSHEN/SUPERIOR	03/31/24	04/28/24
IN0025674 ELKHART WWTP 017	017-C	CSO- W. BOULEVARD/MCNAUGHTON	03/31/24	04/28/24
IN0025674 ELKHART WWTP 018	018-C	CSO- MCNAUGHTON PARK WEST	03/31/24	04/28/24
IN0025674 ELKHART WWTP 019	019-C	CSO-MICHIGAN @ RVR, S. OF LEX.	03/31/24	04/28/24
IN0025674 ELKHART WWTP 020	020-C	CSO- BRIDGE AND HUDSON	03/31/24	04/28/24
IN0025674 ELKHART WWTP 023	023-C	CSO- FRANKLIN/8TH	03/31/24	04/28/24
IN0025674 ELKHART WWTP 024	024-C	CSO- INDIANA/FRANKLIN	03/31/24	04/28/24
IN0025674 ELKHART WWTP 025	025-C	CSO- POTTAWATOMI/SECOND	03/31/24	04/28/24
IN0025674 ELKHART WWTP 026	026-C	CSO- MAIN/POTTAWATOMI	03/31/24	04/28/24
IN0025674 ELKHART WWTP 027	027-C	CSO- EDGEWATER/NAVAJO	03/31/24	04/28/24
IN0025674 ELKHART WWTP 028	028-C	CSO- WASHINGTON AT RIVER	03/31/24	04/28/24
IN0025674 ELKHART WWTP 029	029-C	CSO- JEFFERSON AT THE RIVER	03/31/24	04/28/24
IN0025674 ELKHART WWTP 031	031-C	CSO- ELIZABETH/LUSHER	03/31/24	04/28/24
IN0025674 ELKHART WWTP 032	032-C	CSO- EDGEWATER/OKEMA	03/31/24	04/28/24
IN0025674 ELKHART WWTP 033	033-C	CSO- EVANS/GRACE	03/31/24	04/28/24
IN0025674 ELKHART WWTP 034	034-C	CSO- LEXINGTON/6TH	03/31/24	04/28/24
IN0025674 ELKHART WWTP 035	035-A	20 MGD CLASS IV ACTIVATED SLUDGE - TO ST JOSEPH RIVER	03/31/24	04/28/24
IN0025674 ELKHART WWTP 035	035-AQ	QUARTERLY REPORTING	03/31/24	04/28/24
IN0025674 ELKHART WWTP 037	037-C	CSO- FRANKLIN/KRAU	03/31/24	04/28/24
IN0025674 ELKHART WWTP 039	039-C	CSO- WEST HIGH AT RIVER	03/31/24	04/28/24
IN0025674 ELKHART WWTP 040	040-C	CSO- MCNAUGHTON PARK SOUTH	03/31/24	04/28/24

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Permit

Permit ID: Permittee:

IN0025674

ELKHART WWTP

ELKHART WWTP

Facility:

035 - External Outfall

Discharge:

Facility Location:

Permittee Address:

Major:

229 SOUTH 2ND ST ELKHART , IN46516

035-AQ - QUARTERLY REPORTING 1201 S NAPPANEE ST ELKHART , IN46516

> Monitoring Period: Status:

Report Dates & Status Permitted Feature:

From 01/01/24 to 03/31/24

DMR Due Date:

04/28/24

NetDMR Validated Considerations for Form Completion

REPORT MONTHLY SAMPLING ON THE 001-A NETDMR, MUNICIPAL MAJOR ELKHART COUNTY

Principal Executive Officer First Name:

Utility Services Manager Laura

Last Name: Telephone:

574-293-2572 Kolo

No Data Indicator (NODI)

Title:

Form NODI:

24 - COMP24	01/30 - Monthly	0	19 - mg/L	<=0.0002	26 - Ib/d	=0.107	Smpl.	01113 Cadmium, total recoverable 1 - Effluent Gross
						To the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	NODI	NODI: -
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24 -	01/30 - Monthly	0	19 -	=0.107			Smpl.	01094 Zinc, total recoverable
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GR - GRAB	01/90 - Quarterly	0	19 - mg/L	=0.0156	: : :		Smpl.	00/1/ Cyanide, free las free] G - Raw Sewage Influent
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GR - GRAB	01/90 - Quarterly		19 - mg/L	χ	× 26 - Ib/d	Req Mon DAILY MX	Req.	Season: 0
GRAB	01/90 - Quarterly	0	19 - mg/L	=0.0036	26 - lb/d		Smpl.	. 3
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Code Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units	Ä.	Analysis	Type
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01113 Cadmium, total recoverable G - Raw Sewage Influent	Smpl.						<=0.0002	19 - mg/L	0	01/30 - Monthly	24 - COMP24
Season: 0	Req.						Req Mon DAILY MX	19 - mg/L		01/90 - Quarterly	24 - COMP24
01114 Lead, total recoverable 1 - Effluent Gross	Smpl.		<=0.131	26 - 1b/d			=0.001	19 - mg/L	0	01/30 - Monthly	24 - COMP24
Season: 0 NODI: -	Req.		Req Mon DAILY MX	26 - 1b/d			Req Mon DAILY MX	19 - mg/L		01/90 - Quarterly	24 - COMP24
01114 Lead, total recoverable G - Raw Sewage Influent	Smpl.						=0.004	19 - mg/L	0	01/90 - Quarterly	24 - COMP24
Season: 0 NODI: -	Req.						Req Mon DAILY MX	19 - mg/L		01/90 - Quarterly	24 - COMP24
01118 Chromium, total recoverable 1 - Effluent Gross	Smpl.		<0.263	26 - Ib/d			<0.002	19 - mg/L	0	01/30 - Monthly	24 - COMP24
Season: 0 NODI: -	Req.		Req Mon DAILY MX	26 - Ib/d			Req Mon DAILY MX	19 - mg/L		01/90 - Quarterly	24 - COMP24
01118 Chromium, total recoverable G - Raw Sewage Influent	Smpl.	1					=0.0218	19 - mg/L	0	01/30 - Monthly	24 - COMP24
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01119 Copper, total recoverable 1 - Effluent Gross	Smpl.		=1.0048	26 - Ib/d			=0.01808	19 - mg/L	0	01/30 - Monthly	24 - COMP24
Season: 0	Req.		Req Mon DAILY MX	26 - lb/d			Red Mon DAILY MX	19 - mg/L		01/90 - Quarterly	24 - COMP24
NODI: -	NODI										

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Code Name	ne	Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units	Š	2006	2 d (.
01119 Copper, total recoverable	otal ble Smpl.						=0.0523	19 -	0	01/30 -	24 -
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Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors
No errors.

Comments

Attachments

No attachments.

Report Last Saved By

ELKHART WWTP

User:

laura.kolo@coei.org

Laura Kolo

Payton88

2024-04-22 12:21 (Time Zone:-04:00)

Report Last Signed By

Date/Time:

Name: E-Mail: Payton88 Laura Kolo

laura.kolo@coei.org

2024-04-22 12:41 (Time Zone:-04:00)

Date/Time:

Name: E-Mail:

User:

NPDES eReporting Help Desk: <u>NPDESeReporting@epa.gov</u> | 877-227-8965 (9:00am - 8:00pm EST) **Contact Us** to ask a question, provide feedback, or report a problem.

DMR Copy of Submission

Showing COR 14 of 31 ﴿ 《 10 11 12 13 14 15 16 17 ▶ ▶

Permit

IN0025674 Permit ID:

ELKHART WWTP Permittee: **ELKHART WWTP** Permitted Feature: Facility:

035 - External Outfall

Discharge:

Facility Location:

1201 S NAPPANEE ST ELKHART , IN46516

229 SOUTH 2ND ST ELKHART , IN46516

Permittee Address:

Major:

DMR Due Date:

035-A - 20 MGD CLASS IV ACTIVATED SLUDGE - TO ST JOSEPH RIVER

04/28/24

From 03/01/24 to 03/31/24 **NetDMR Validated** Report Dates & Status Monitoring Period: Status:

Considerations for Form Completion

THE FLOW METER(S) SHALL BE CALIBRATED AT LEAST ONCE EVERY TWELVE MONTHS. REPORT QUARTERLY PARAMETERS ON 035-AQ NETDMR. MUNICIPAL MAJOR ELKHART COUNTY

Principal Executive Officer

Laura First Name: Title:

Utility Services Manager

574-293-2572 Kolo Last Name: Telephone:

No Data Indicator (NODI)

Form NODI:

	1							ō	Analysis	Type
Code Name		Value 1	Value 2	Units Value 1	le 1 Value 2	Value 3	Units	Ä.		1
00300 Oxygen, dissolved [DO] 1 - Effluent Gross	Smpl.			=9.1			19 - mg/L	0	01/01 - Daily	3R - 3GR24H
Season: 0	Req.			>=4.0 DLYAVMIN	AVMIN		19 - mg/L	; ; ;	01/01 - Daily	3R - 3GR24H
NODI: -	NODI									
00400 pH 1 - Effluent Gross	Smpl.			=6.7		=7.7	12 - SU	0	01/01 - Daily	GR - GRAB
Season: 0	Req.			>=6.0 DAILY MN	ILY MN	<=9.0 DAILY MX	12 - SU		01/01 - Daily	GR - GRAB
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00530 Solids, total suspended 1 - Effluent Gross	Smpl.	=933.0	=1404.0	26 - Ib/d	=8.0	=11.0	19 - mg/L	0	01/01 - Daily	24 - COMP24
Season: 0	Req.	<=7511.0 MO AVG	<=11266.0 MX WK AV	26 - lb/d	<=30.0 MO AVG	<=45.0 MX WK AV	19 - mg/L		01/01 - Daily	24 - COMP24
NODI: -	NODI									
00600 Nitrogen, total [as N] 1 - Effluent Gross	Smpl.	=1838.0		26 - lb/d	=19.9		19 - mg/L	0	01/30 - Monthly	24 - COMP24
Season: 0	Req.	Req Mon MO AVG		26 - Ib/d	Req Mon MO AVG	*** **** ***** ***** ***** ***** ***** ****	19 - mg/L		01/30 - Monthly	24 - COMP24
NODI: -	NODI									
00610 Nitrogen, ammonia total [as N] 1 - Effluent Gross	Smpl.	=12.9	=83.4	26 - lb/d	=0.13	=0.79	19 - mg/L	0	01/01 - Daily	24 - COMP24
Season: 2	Req.	<=1102.0 MO AVG	<=2554.0 DAILY MX	26 - lb/d	<=4.4 MO AVG	<=10.2 DAILY MX	19 - mg/L		01/01 - Daily	24 - COMP24
NODI: -	NODI		4							
00665 Phosphorus, total [as P] 1 - Effluent Gross	Smpl.	=72.0		26 - lb/d	=0.61		19 - mg/L	0	01/01 - Daily	24 - COMP24
Season: 0	Reg.	Req Mon MO AVG	en a companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la c	26 - lb/d	<=1.0 MO AVG	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	19 - mg/L		01/01 - Daily	24 - COMP24
NODI: -	NODI									
01079 Silver total recoverable 1 - Effluent Gross	Smpl.	<0.019	<0.019	26 - lb/d	<0.0002	<0.0002	19 - mg/L	0	01/07 - Weekly	24 - COMP24

	1	;	•				1			, e	. j
Code Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units	p X	Anaiysis	Ape
Season: 0	Req.	<=0.063 MO AVG	<=0.13 DAILY MX	26 - lb/d		<=0.00038 MO AVG	<=0.00077 DAILY MX	19 - mg/L		01/07 - Weekly	24 - COMP24
NODI: -	NODI										
01079 Silver total recoverable	Smpl.					=0.0006	=0.00078	19 - mg/L	0	01/07 -	24 -
G - Raw Sewage Influent	•									WeeKly	COMP24
Season: 0	Req.					Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L		02/30 - Twice Per Month	24 - COMP24
NODI: -	NODI										
50050 Flow, in conduit or thru treatment plant	Smpl.	=13.662		03 - MGD					0	01/01 - Daily	TM - TOTALZ
1 - Effluent Gross											
Season: 0	Req.	Req Mon MO AVG		03 - MGD						01/01 - Daily	TM - TOTALZ
NODI: ~	NODI										
51041 E. coli, colony forming units [CFU]	Smpl.					=25.0	=67.0	3Z - CFU/100mL ⁽	0	03/07 - Three Per	GR - GRAB
1 - Effluent Gross										Week	
Season: 2	Req.					Req Mon MO GEO	Req Mon DAILY MX	3Z - CFU/100mL	•	03/07 - Three Per Week	GR - GRAB
NODI: -	NODI										
80082 BOD, carbonaceous [5 day, 20 C]	Smpl.	=1110.0	=638.0	26 - lb/d		=4.0	=5.0	19 - mg/L (0	01/01 - Dailv	24 - COMP24
1 - Effluent Gross					:				; ; ;	•	
Season: 0	Req.	<=6259.0 MO AVG	<=10014.0 MX WK AV	26 - lb/d		<=25.0 MO AVG	<=40,0 MX WK AV	19 - mg/L		01/01 - Daily	24 - COMP24
NODI: -	NODI								1	· · · · · · · · · · · · · · · · · · ·	
81012 Phosphorus, total percent removal	Smpl.			=80.2	5.2			23 - %	0	01/30 - Monthiv	CA - CALCTD
K - Percent Removal			:						· f	•	
Season: 0	Req.			`II`	>=75.0 MO AV MN			23 - %		01/30 - Monthly	CA - CALCTD
NODI: -	NODI							The second second			

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de		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units	Ex.	dik l	עַ
82220 Flow, total	 		, , ,	80 -					01/30 -		
1 - Effluent Gross	: 		=424.0	Mgal/mo		Mgal/mo Gonthly RCOTOT			o Monthly	у ксотот	Į.
Season: 0	Req.		Req Mon MO TOTAL	80 - Mgal/mo					01/30 - Monthiv	- RT - v RCOTOT	Į0
NODI: -	NODI										:

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

Name	Type	Size
IN0025674_INC_RPT_2024_03.pdf		pdf 1212233.0
	pdf	1428922.0
	pdf	pdf 1011653.0

Report Last Saved By

ELKHART WWTP

laura.kolo@coei.org Laura Kolo Payton88 E-Mail: Name: User:

2024-04-22 12:39 (Time Zone:-04:00) Date/Time:

Report Last Signed By

User:

laura.kolo@coei.org Laura Kolo E-Mail: Name:

Payton88

2024-04-22 12:41 (Time Zone:-04:00)

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NPDES eReporting Help Desk: <u>NPDESeReporting@epa.gov</u> | 877-227-8965 (9:00am - 8:00pm EST) **Contact Us** to ask a question, provide feedback, or report a problem.



National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	Elkhart									Page ?	1 of	9		P	erm	it Number:	INC	025574	
Facility:	Elkhart P	ublic Wor	ks & Utilities	s							1	Public No	lific	ation Requ	rem	ents Met?	Υ		
Monitor	ing Period	l:	March	2024							E	nter "x" i	no	CSO disch	arge	e occurred	for t	he month:	
Design	Peak Hour	rly Flow (N	MGD):	44	Design Ave	erage Flow	(MGD):	20		Measured/	Met	ered (M) o	or E	stimated (E) mı	ust be spec	lfiec	1	
WWTF	Influent	Data		Pri	ecipitation D	ata			С	SO Outfall	No.	005			c	SO Outfall	No.	006	
Day of Month	Average Dally Flow (MGD)	Peak Hourly Flow (MGD)	Time Precip. Began (am/pm)	Precip. Duration (Hours)	Total Daily Precip. (Inches)	Peak Intensity (Inch/hr)	Measureme nt Interval (hr, 30 m, 15 m)	Time Discharge Began	M or E	Event Duration (Hours)	M or E		M or E	Time Discharge Began	N OF E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1	11.70	13.50					15 min												
2	10.66	12.20					15 min												
3	10.56	12,50					15 min												
4	10.69	15.10					15 min												
5	11.95	17.10	4:19 AM	5.78	0.21	0,36	15 min				<u> </u>								
6	11.33	12.60	8:56 AM	0.08	0.01	0.04	15 min												
7	11.09	12.60				***	15 min												
8	14.52	22.20	9:44 AM	14.28	0,68	0,28	15 min												
9	14.49	30,20	12:04 AM	0,70	0.04	80,0	15 min												
10	10.83	15,00	12:01 PM	0.08	0.01	0.04	15 min												
11	11.23	13.20					15 min												
12	11.03	13.00					15 min												
13	10.88	12.60					15 min												
14	17.68	29.10	1:29 AM	15.58	1.10	0,56	15 min							11:23 AM	м	0,25	М	0.0308	м
15	11.18	13.10					15 min												
16	11,45	14.00					15 min						L						
17	10,33	11,50	2:46 PM	0.08	0.01	0.04	15 min				ļ								Ш
18	12.35	14.10	12:36 PM	3.75	0.07	0.04	15 min				<u> </u>				L				
19	11.98	14.10	11:36 AM	0,08	0.01	0.04	15 min												
20	12.00	14.10					15 min				<u> </u>		L						
21	11.70	13.80					15 min				L				<u> </u>				
22	11.11	13,10		***			15 min								L.			!	
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26	13.80	22.10	1:11 AM	13.50	0.42	0,80	15 min				<u> </u>				_				
27	10.50	12.60					15 min				<u> </u>								
28	10.94	12,60					15 min				L.								
29	10,39	13.70					15 min				<u> </u>								
30	14.98	43.20	1:16 AM	6.75	0.85	0,40	15 min				L								
31	10,48	13,50	8:29 PM	3,58	0,35	0,24	15 min		Stres				1000		l ottas as				GAGGGA
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) NT OF ENVIRONMENTAL MANAGEMENT

INDIANA	DEPARTME	NT C	OF ENVIRO	NME	NTAL MAN	IAG	EMENT						100000000000000000000000000000000000000	en e		_		0.000		3				
City:	Elkhart						·····						Page 2	of	9	Leans]	ern	nit Number:	IN	0025574	William is		0.00
Facility	Elkhart P	ubli	c Works	& L	Itilities		Trada National Property	X2.55	Constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the consti	2000	Selection in the second	(52.54)		F	Public No	tific	ation Requ	iren	nents Met?	Υ				
Monitor	ing Period		Ma	irch	2024										En	ter'	"x" If no C	csc	discharge	<u>e o</u>	curred f	or th	e month:	
Design	Peak Flow	(Hoi	urly) (MG	D):	44	10000	Design Fl	ow	(MGD):		20	Liaiza	Measured/	Met	ered (M) o	or E	stimated (I	<u>≡) m</u>	ust be spec	olfie	d			Sec.
		cs	O Outfall	No.	007			CS	O Outfall	No.	800			cs	O Outfall	No.	009			C	SO Outfall	No.	011	
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	Elkhart												Page 3	of	9		Р	ern	nit Number:	IN	025574	ar to the	- Lance of the Control for	
acility	Elkhart P	ubli	c Works	8.1	Jtilities									Pι	ıblic Noti	fica	tion Requi	ren	nents Met?	Υ				
Monitor	ing Period		Ma	arch	2024										Ent	er'	'x" if no C	so	discharge	00	curred f	or th	e month	
Design	Peak Flow	(Ho	ırly) (MG	D):	44		Design Fi	ow	(MGD):		20		Measured/	Met	ered (M)	or E	Estimated (E) I	must be spe	cifi	ed			
		CS	Outfall	No.	012			CS	O Outfall	No.	013		45000 2	cs	Outfall	No.	14B			CS	O Outfal	l No.	015	
Day of Month	Time Discharge Began	N or u	Event Duration (Hours)	M or	Event Discharge (MG)	M or E	Discharge	M	Event Duration (Hours)		Discharge	M or E	Discharge	M or u	Event Duration (Hours)	M or F	Discharge	동양표	Discharge	M or E				M e oi
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R4 / 9-15)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT Permit Number: IN0025574 Elkhart Page 4 of 9 Facility: Elkhart Public Works & Utilitles Public Notification Requirements Met? Y Enter "x" if no CSO discharge occurred for the month: March Monitoring Period: Design Flow (MGD): 20 Measured/Metered (M) or Estimated (E) must be specified Design Peak Flow (Hourly) (MGD): 44 017 CSO Outfall No. CSO Outfall No. CSO Outfall No 016 CSO Outfall No. M Event or Duration E (Hours) Time Event Event Time Discharge Event M Time Discharge Event Event Time Event Event Discharge Discharge М Day of Month Discharge (MG) Discharge Discharge Duration or E Discharge (MG) or E Duration or E Duration Began Began Began (Hours) (MG) Began (Hours) 1 2 3 4 5 6 7 8 9 10 11 12 13 14 1.17 M 0.1975 M 10:55 AM M 2.32 M 0.2687 M 10:44 AM M 0.0120 M 10:08 AM M 1.33 M 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 5:05 AM M 3.82 0.2910 M М 31 11:30 PM M 0.50 0.0501 M Da ys 0,6098 0,0120 1.17 0.1975 0,00 0,0000 Totals:



National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

	DEPARTME	NT C	OF ENVIRO	NME	NTAL MAN	IAG	EMENT																	
	Elkhart												Page					0.00	nit Number:		0025574			
	Elkhart P	(1813)												P					nents Met?		<u> </u>			ista.
	ing Period:	distant.		arch														100	discharge	3000 10000		or th	e month:	
Design	Peak Flow	(Hoı	uriy) (MG	D):	44	la Silvinia	Design Fl	ow	(MGD):		20	ince.	Measured/				4	<u>=) m</u>	iust be spei					
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Day of Month	Time Discharge Began	M or E		M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E		M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began				Event Discharge (MG)	e M
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) ENT OF ENVIRONMENTAL MANAGEMENT

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City:	Elkhart												Page 6	15/19/19				100	nit Number:	d .	0025574	osesus	E STARLES (ugada.
Facility	Elkhart P	ubll	c Works	: & L	Itilities		Table 1	As Assaults						P	ublic Not	ifica	ition Requ	ilrer	ments Met?	Y				
Monitor	ing Period		M	arch	2024										Ent	er ''	x" if no C	so	discharge	00	curred fo	or th	e month:) Simbo
Design	Peak Flow	(Hot	urly) (MG	D):	44	27-043	Design Fi	ow	(MGD):		20	Luziksê	Measured/	Met	ered (M) o	r E	stimated (<u>E) n</u>	nust be spe	cifie	id			
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) PARTMENT OF ENVIRONMENTAL MANAGEMENT

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	ing Period			arch												3500			discharge		curred fo	or th	e month:	3
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Totals:	0	Da ys	0.00		0,0000			Da ys			0.2953		0	Da ys	0,00		0.0000		0	Da ys	0,00		0,0000	



National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) ENT OF ENVIRONMENTAL MANAGEMENT

INDIANA	DEPARTME	NT C	OF ENVIRO	ONME	NTAL MAN	AGI	EMENT						415454190500000	83883			Fashera and	10100	esa sanuta nist					
City:	Elkhart												Page 8	3 of	9	1000 Sept	<u> </u>	em	nit Number:	IN	0025574	583-544-545		Signs.
Facility	Elkhart P	ubli	c Works	8. L	Itilities		N. w. A. Shigh Brooks when	Ave. No. Co	150.504 (December 2004)	dudings	Name and Adams Andrea			P	ublic No	ifica	ation Requ	iìren	nents Met?	Υ				
Monitor	ing Period	:	Mi	arch	2024										Ent	er"	x" if no C	so	discharge	00	curred fo	or th	e month:	
Design	Peak Flow	(Ho	urly) (MG	D):	44		Design Fl	ow	(MGD):		20		Measured/	Met	ered (M)	or E	stimated (E) n	ust be spe	cifie	d			
		cs	O Outfall	No.	037			cs	O Outfall	No.	039			cs	O Outfall	No.	040			C;	SO Outfal	No.		
Day of	Time Discharge							. ર ⊼	Event Duration (Hours)	M or E	Event Discharge	M or E			Event Duration (Hours)			M or E	Discharge	M	Event Duration (Hours)		Event Discharge	M or E
Month 1	Began	E	(Hours)		(MG)	E	Began	E	(nours)		(MG)		Began		(nours)	I	(MG)		Began	<u> </u>	[(Hours)	01 2	(MG)	1011
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14	9:57 AM	М	3,00	М	1.5093	М	9:37 AM	М	2.08	М	0.0791	М	10:52 AM	M	1.92	М	0.1014	М		_				ļ
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Totals:	3	Da ys	5,66		1,6928		2	ys	2.41		0.0926		1 1	ys	1.92		0.1014		0	ys	0.00		0.0000	



National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	Elkhart		Page: 9 of 9	Permit Number: IN0025574
	Elkhart Public Works & Utilities			ation Requirements Met? Y
Monitor	ing Period; March 2024		Enter "x" if no	CSO discharge occurred for the month:
Design	Peak Hourly Flow (MGD): 44	Design Average Flow (MGD): 20		
Day of Month	Comments (further explanation as	to why each CSO event occurred)		
1	Commons your recognition as	to my each ode event occurred;		
2				
3				
<u>4</u> 5				
6				
7				
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10 11				•
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14	precipitation			
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26	precipitation			
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28 29				
	precipitation			
	precipitation	·		
	or Printed Name and Title of Principal Exe	cutive Officer or Authorized Agent		Telephone
	Laura E. Ko	lo, Utilities Services Manager	•	574-293-2572
WITH A INQUIR SUBMIT	FY UNDER PENALTY OF LAW THAT THIS SYSTEM DESIGNED TO ASSURE THAT (Y OF THE PERSONS WHO MANAGE THE TED IS, TO THE BEST OF MY KNOWLED	DOCUMENT AND ALL ATTACHMENTS WERE F QUALIFIED PERSONNEL PROPERLY GATHER A SYSTEM OR THOSE PERSONS DIRECTLY RESI GE AND BELIEF, TRUE, ACCURATE, AND COMI THE POSSIBILITY OF FINE AND IMPRISONMEN	PREPARED UNDER MY DIRECT IND EVALUATE THE INFORM. PONSIBLE FOR GATHERING PLETE. I AM AWARE THAT THE	TION OR SUPERVISION IN ACCORDANCE ATION SUBMITTED. BASED ON MY THE INFORMATION; THE INFORMATION THERE ARE SIGNIFICANT PENALTIES FOR
	re of Principal Executive Officer or Autho		the continues of the	Date (mm/dd/yy)
	laurer (N)			04/22/24



State Form 10829 (R4 / 01-20)

Name of Facility			Permit Nun	nber		
Elkhart			IN00256	674		
Month	Year	Plant Des	ign Flow	Telephone	Number	
March	2024	20.00	mgd	5	74/293	-2572
E-mail address:	laura.kolo@coei	.org	_		035	Α.
Certified Operator: N	ame	Class	Certificate	Number	Expi	ration Date
Laura E Kolo		l IV	150	194	06/	30/2024

										Laura E.	Kolo			IV	150	94	06/3	30/2024
				Total=			CH	IEMICA	LS									
				3.76				USED					RAW	/ SEWA	GE			
Day Of Month	Day of Week	Man-Hours at Plant (Plants less than 1 MGD only)	Air Temperature (optional)	Precipitation - Inches	Bypass At Plant Site("x" If Occurred)	Sanitary Sewer Overflow("x" If Occurred)	Chlorine - Lbs/day	Ferrous Chloride Lbs/Day or Gal./Day	or Gal./Day	Influent Flow Rate (if metered) MGD			lay	Solids - mg/l	Solids - Ibs/day	Phosphorus - mg/l	Vt	
7	οę	ours s ss the only)	atr	<u>-</u>	풉핑	χ ^α Δ	sq.	Gal Sal	aç	3 ≥		ľg/	5/8	Ś	- s	1 (0	mg/l	
a a	ay	북 🎬 🗀	per	l ij	₹ŏ	ĭ. V. ⊞	7	2 5	Lbs/Day	Flo ed)		CBOD5 - mg/l	CBOD5 - lbs/day	톓	흥	ž	1 1	
		lan nts	Ĕ	pita	SSI	Sep	ine	Snc	Ë	int		75	75	ι, O	Й	bho	Ammonia	
		<u>a</u> ≤	<u> </u>	9Cj.	φ,	Š	힐)Lie		lue me		ğ	<u> </u>	Susp.	Susp.	So		
			Ā	<u>r</u>	<u>ю</u> ,	0	<u>င်</u>	_			ЬH						<u> </u>	
1	Fri							206		11.700	7.4	90	8,782	144	14,051	3.80	21.16	
2								210		10.658	7.5	106	9,422	114	10,133	2.46	18.04	
3								195		10.558	7.2	127	11,183	74	6,516	2.64	15.00	
4	Mon							228		10.692	7.2	96	8,560	118	10,522	2.85	16.84	
5				0.21				225		11.950	7.2	132	13,156	166	16,544	3.63	19.28	
6	Wed			0.01				228		11.325	7.4	117	11,051	122	11,523	3.16	22.52	
7	Thu							231		11.092	7.9	105	9,713	162	14,986	3.12	19.80	
8				0.68						14.516	7.3	105	12,712	160	19,370	3.52	19.12	
9				0.04				223		14.491	7.2	104	12,569	136	16,436	2.64	14.84	
10				0.01				228		10.825	7.2	128	11,556	86	7,764	2.40	15.16	
11	Mon			-				213		11.233	7.3	75	7,026	110	10,305	3.34	17.00	
12								198		11.025	7.3	113	10,390	136	12,505	3.20	20.72	
13				1 1 1 5				258		10.875	7.4	113	10,249	118	10,702	3.42	20.92	
14	Thu			1.10				243		17.675	7.2	87	12,825	150	22,111	2.39	15.96	
15								213		11.175	7.3	122	11,370	112	10,438	3.30	19.68	***************************************
16				1004				213		11.450	7.3	98	9,358	98	9,358	2.81	17.20	
17	Sun			0.01				213		10.325	7.3	93 87	8,008	82	7,061	2.18	14.72	
18				0.07				207		12.350	7.2 7.2		8,961	98	10,094	2.64	17.40 18.56	
19				0.01				207 198		11.983 12.000	7.2	108 121	10,793	108 130	10,793	3.72 3.55	18.88	
20								213		11.700	7.7	117	12,110 11,417	124	13,010 12,100	4.03	18.68	
22	Thu							198		11.700	7.2	112	10,376	142	13,155	3.18	20.52	
23	Fri			-				167		11.108	7.5	108	9,960	116	10,698	2.46	19.16	
24								380		10.708	7.1	96	8,573	90	8,037	2.46	15.24	
25	Sun Mon							173		11.642	7.4	106	10,292	132	12,816	3.71	20.76	
26				0.42				532		13.800	7.4	138	15,883	218	25,090	4.21	21.04	
27	Wed			J. 12				250		10.500	7.1	128	11,209	124	10,859	3.17	19.60	
28								200		10.942	7.3	100	9,126	152	13,871	4.55	19.96	
29				-				200		10.392	7.8	109	9,447	80	6,934	3.20	20.24	
	Sat			0.85		Х		228		14.983	7.6	107	13,371		18,244	1.87		
31	Sun			0.35				213		10.483	7.5	77	6,732	56	4,896	2.04	13.48	
Ave				0.31				230		11.781		107	10,522	123	12,288	3.09	18.20	
-	imum			1,10				532		17.675	7.9	138	15,883	218	25,090	4.55	22.52	
	mum			0.01				167		10.325	7.1	75	6732	56	4896	1.87	12.68	
14(1)(1)			I	1 = 10.					I			. •			00		1.2.001	
# of	Data		C	12	0	1	0	30	О	31	31	31	31	31	31	31	31	0
	I cer	tify under	penalty	of law t	hat this	s docu	ment and	all attac	hments	Prepared by			on of (Certifie				onth, day,	vear)
1	were	prepared (under r	nv direct	ion or	superv	ision in a	ccordan	ce with a	i robalog by	or unuoi	and an ooth	or toorning	a opoidit		Sac file	onus, uuj,	,,

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. imprisonment for knowing violations.

Signature of principal executive officer or authorized agent (or attested by NetDMR subscriber agreement)

Date (month, day, year)

Laura Koro

State Form 10829 (R4 / 01-20)			
Name of Facility	Permit Number	Month	Year
Elkhart	IN0025674	March	2024

	PRIMAF	RY			ΔF	RATIOI	N			SECON	DARY							
	EFFLUE		MIXED LI	QUOR	7.14	1011101		RETURN S	LUDGE	EFFLUE			F	INAL	EFFLUE	ENT		
Day Of Month	CBOD5 - mg/l	Susp. Solids - mg/l	Settleable Solids % in 30 minutes	Susp. Solids - mg/l	Sludge Vol. Index - ml/gm	Dissolved Oxygen - mg/l	Temperature - F	Volume - MG	Susp. Solids - mg/l	CBOD5 - mg/l	Susp. Solids - mg/l	Residual Chlorine - Final	Residual Chlorine - Contact Tank	E. Coli - colony/100 ml	pH - daily low (or single sample)	pH - daily high (if multiple samples)	Dissolved Oxygen - mg/l	Oil & Grease (mg/l)
1	67	74	142	4,896	29	5.6	12	6.413	4,560						7.6		9.8	
2	73	76	181	2,636	69	5.7	13	6.487	4,380						7.6		9.6	
3	81	53	168	2,492	67	6.2	13	6.487	4,580						7.4		9.5	
4	71	68	175	2,580	68	6.6	13	6.519	4,380					22	7.0		9.6	
5	104	64	165	2,524	65	5.4	13	6.483	4,820					28	7.6		10.0	
6	82	62	169	2,688	63	5.2	13	6.510	4,780					10	7.6		10.0	
7	84	66	138	2,620	53	5.4	13	6.487	4,980						6,9		9.6	
8	81	78	144	2,468	58	3.8	13	6.487	5,540						6.9		9.3	
9	75	80	156	2,644	59	5.9	12	6.487	5,040						7.0		9,9	
10	98	56	148	2,988	50	5.8	12	6.487	4,980						7.5		9.7	
11	64	86	156	3,320	47	5.6	13	6.487	5,140					14	7.7		9.9	
12	76 88	64 53	153	2,944	52	5.6	13	6.487	5,380					14 29	7.7 7.0		10.1 9.7	
13	72	76	146 149	3,060 2,928	48 51	5.7 7.0	14 13	6.474 6.487	6,140 4,220					29	7.0		9.6	
14 15	97	78	149	2,928	50	5.7	14	6.487	5,420						7.0		9.3	
16	76	60	152	3,092	49	5.9	13	6.487	5,480						7.0		9.1	
17	69	41	120	5,220	23	5.6	13	6.487	5,240						7.6		9.6	
18	61	56	158	5,608	28	5.6	12	6.487	5,540					24	7.6		9.1	
19	84	58	104	2,972	35	4.6	13	6.487	6,160					28	7.5		9.8	
20	82	60	133	3,180	42	5.4	12	6.487	4,900					41	7.0		9.4	
21	78	57	139	3,012	46	5,9	13	6.487	6,120						7.0		10.0	
22	85	68	135	2,852	47	5.9	13	6.487	6,120						7.4		10.5	
23	75	59	140	2,936	48	6.3	13	6.487	5,160						7.0		10.1	
24	79	53	126	6,844	18	5.3	13	6.487	5,160						7.7		10.5	
25	81	64	136	5,332	26	4.8	13	6.487	5,140					26	7.5		9.6	
26	86	78	124	3,288	38	4.3	13	6.487	5,640					39	7.4		9.7	
27	100	66	120	2,960	41	4.4	13	6.487	4,240					67	6.7		10.0	
28	82	66	138	3,036	45	5.4	13	6.487	5,500						6.7		10.0	
29	95	60	140	2,968	47	5.4	13	6.487	5,240						6.8		10.1	
30	76	68	138	2,572	54	5.8	12	6.487	7,620						7.0		10.3	
31	68	52	144	5,144	28	6.00	13	6.487	4,500				1		7.0		10.4	
Avg	80	65	145	3,380	47	5,5	13	6.486	5,229				-	29			9.8	
Max	104	86	181	6,844	69	7.0	14	6.519	7,620					67		7.7		
Min.	61	41	104	2468	18	3.8	12	6.413	4220					10		6.70	9.1	
	Max													67				
		ove 235		[_	_		4	0	0.4	اء		_
Data	31	31	31	31	31	31	31	31	31	0	0		1 0	12	31	0	31	C

Comments for the Month (major repairs, breakdowns, process upsets and their causes, inplant treatment process bypass, etc.): ferric chloride is being used for po4 removal, not ferrous chloride

Name of Facility	Permit Number	Month	Year
Elkhart	IN0025674	March	2024

	Γ							INAL EF	CLUENT	-							
		Flow		BOD			F	T		d Solids	3	Ammor	nia			Phosph	orus
				505	***************************************			Total Ot	зоронис	o ona		Ammor	iiu .			Поорт	10140
Day Of Month	Day of Week	Effluent Flow Rate (MGD)	Effluent Flow Weekly Average	CBOD5 - mg/l	CBOD5 - mg/l Weekly Average	CBOD5 - lbs/day	CBOD5 - lbs/day Weekly Average	Susp. Solids - mg/l	Susp. Solids - mg/l Weekly Average	Susp. Solids - lbs/day	Susp. Solids - Ibs/day Weekly Average	Ammonia - mg/I	Ammonia - mg/l Weekly Average	Ammonia - Ibs/day	Ammonia - Ibs/day Weekly Average	Phosphorus - mg/l	Phosphorus - Ibs/day
1	Fri	10.832		2		181		5		416		0.06		5.4		0.43	39
2	Sat	10.575		4		353		5		415		0.06		5.3		0.52	46
3	Sun	10,367		3		259		4		311		0.05		4.3		0.40	35
4	Mon	11.077		3		277		3		314		0.06		5.5		0.38	35
5	Tue	11.155		3		279		4		363		0.05		4.7		0.41	38
6	Wed	10.194		2		170		4		323		0,06		5.1		0.43	37
7	Thu	10.147		3		254		4		339		0.05		4.2		0.50	42
8	Fri	14.620		3		366		9		1,061		0.21		25.6		0.53	65
9		11.174	11.248	3	2.86	280	269	6	4.81	587	471	0,06	0.08	5,6	8	0.51	48
	Sun	10.209		3		255		7		570		0,06		5.1		0.50	43
11	Mon	13.779		2		230		5		540		0.08		9.2		0.45	52
12	Tue	14.144		2		236		7		849		0.04		4.7		0.51	60
13	Wed	13.790		3		345		6		690		0.09		10.4		0.56	64
14	Thu	25.400		3		636		9		1,822		0.17		36.0		0.62	131
15	inu	10.650		3		266		7		622		0.30		26.6		0.48	43
16	Sat	15.348	14.760	4	2.86	512	354	7	6.77	922	859	0.13	0.12	16.6	16	0.56	72
17	Sat	15.077	14.700	4	2.00	503	- 554	7	0.77	930	000	0.07	0.12	8.8	10	0.47	59
10	Sun	16.134	<u> </u>	3		404		10		1,292		0.62		83.4		0.47	83
10	Mon	16.718		4	***************************************	558		10				0.02		23.7		0.65	91
19	Tue					344		7		1,450 849				5.7		0.60	69
20	Wed	13.764		3		439		12				0.05 0.05		5.5		0.00	80
21	Thu	13.146		4		322				1,294				5.4		0.73	-
22	Fri	12.886	44040	3	0.57		40.4	10	0.00	1,096	4.400	0.05	0.45				77
23	Sat	11.996	14.246	4	3.57	400	424	10	9.60	1,040	1,136	0.05	0.15	5.0	20	0.68	68
24	Sun	12.028		6		602		7		662		0.05		5,0		0.79	79
25	Mon	12.880		5		537		11		1,182		0.06		6.4		0.94	101
26	Tue	16.282		4		543		10		1,412		0.08		10.9		0.86	117
27	Wed	14.034		4		468		12		1,381		0.17		19.9		0.78	91
28	Thu	14.232		4	·	475		12		1,377		0.10		11.9		0.88	104
29	Fri	14.650		6		733		11		1,295		0.10		12.2		0.83	101
	Sat	22.185	15.184	6	5.00	1,110	638	14	10.80	2,516	1,404	0.08	0.09	14.8	12	0.84	155
31	Sun	14.038		6		702		9		1,007		0.79		8.2		0.79	92
Avg		13.662		4		421		8		933		0.13		12.9		0.61	72
Max		25.400	15.184	6		1,110	638	14	10,80	2,516	1,404	0.79	0.15	83.4	20	0.9	155
Min		10.147	11.248	2	2.86	170	269	3	4.81	311	471	0.04	0.08	4.2	8	0.4	35
		11	387														
Data	3	31	4	31	4	31	4	31	4	31	4	31	4	31		1 31	31
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	MONTHLY R	EMOVAL SUMI	MARY		Total Monthly Flow	v:
Percent Removal	BOD5	S.S.	Ammonia	Phosphorus	(million gallons)	424
Primary Treatment	25.11	47.4				
	NA	NA			Percent Capacity	
Secondary Treatment	95.5	87.8		F8 181 1 101 1	(actual flow/design)	68%
Overall Treatment	96.63	93.6	99.3	80.2		
Phosphorus limit would be	7	5 % removal.	(compliance	achieved)		

State Form 10829 (F	R4 / 01-20)		
Name of Facility	Permit Number	Month	Year
Elkhart	IN0025674	March	2024

		IIIOOZOC				I								
	SLUDG	F TO				DIGE	STER (DPERAT	ION					
	DIGEST		Anaero	bic Only										
Day Of Month	Primary SludgeGal. x 100	Waste Act. Sludge Gal. x 1000	Hd	Gas Production Cubic Ft x 1000	Temperature - F	Supernatant Withdrawn hrs. or Gal. x 1000	Supernatant BOD5 mg/l or NH3-N mg/l	Total Solids in Incoming Sludge - %	Total Solids in Digested Sludge - %	Volatile Solids in Incoming Sludge - %	Volatile Solids in Digested Sludge - %	Digested Sludge Withdrawn hrs. or Gal. x 1000		
1	27.30	200.16	7.1		77	10.611		3.96	2.16	76.47	63.92	64.07		
2	26,50	230.40	7.0		77	53.055		4.20	2.10	76.88	65.00			
3	22.00	230.40	7.0		76			4.33	2.12	77.28	64.52			
4	16.00	230.40	7.0		77			3.45	2.20	75.85	64.02			
5	34.00	230.40	7.0		77		·····	4.08	2.15	75.16	63.46	91.06		
6	22.00	230.40	7.1		78	21.222		4.08	2.12	73.78	62.28	90.19		
7	22.00	208.80	7.1		77			3.43	2.10	73.29	61.90	90.31		
8	29.50	208.80	6.9		78	3.537		4.97	2.10	74.38	63,13	65.27		
9	30.50	187.20	7.1		79	77.814		5.27	2.07	75.85	60.26			
10	29.50	187.20	7.2		79			5.34	1.98	75.52	63.04			
11	26.00	187.20	7.3		78			5.03	1.99	77.80	61.72	110.70	,	
12	40.06	187.20	7.3		80	7.074		3.88	1.94	75.76	60.48	90.36		
13	31.81	187.20	7.1		80	21.222		2.92	1.89	69.83	61.27	90.66		
14	39.98	187.20	7.2		82	17.685		3.63	1.95	71.38	59.71	87.62		
15	40.14	187.20	7.2		80			5.33	1.99	71.04	60.26	65.13		
16	35.50	187.20	7.0		83			5.12	1.96	73.37	60.83			
17	25.00	187.20	7.2		85			6.39	1.91	75.83	60,47			
18	34.80	187.20	7.1		81	17.685		3.46	1.95	70.32	60.56	123,05		
19	29.16	169.92	7.2		84	7.074	***************************************	2.75	2.05	74.77	61.78	129.29		
20	32.89	165.60	7.1		84	3.537		3.83	2.03	77.60	61.54	43.44		
21	29.57	165.60	7.1		84	10.611		4.44	2.12	77.98	59,51	67.96		
22	30.00	185.76	7.1		83			4.72	2.11	76.58	60.87	62.78		
23	32.13	187.20	7.0	·	83			3.93	2.40	74.32	60.69			
24	30.00	187.20	7.1		82	3.537		4.82	2.31	78.17	61.90			
25	30.99	187.20	7.1		93			3.57	2.39	82.30	61,90	88.29		
26	35.41	188.64	7.1		82			2.10	2.50	80.75	61.62	87.76		
27	30.81	216.00	7.1		82	21.222		4.28	2.49	73.81	61.82	122.54		
28	30.26	216.00	7.1		82	14.148		3.31	2.39	74.88	60.78	89.04		
29	29.62	216.00	7.1		84	7.074		4.15	2.22	74.83	66.49		y,,,	
	29.92		7.1		83			3.43	2.18	72.87	60.00			
31	30.23	216.00	7.1		83			5.06	2.19	80.68	61.15			
Avg.	30.12	198.67			81 ,	18.569		4.17	2.13	75.46	61.83	87.34		
Max.	40.14	230.40	7.3		93	77.814		6.39	2.50	82.30	66.49	129.29		
Min.	16.00	165.60	6.9		76	3.537		2.10	1.89	69.83	59,51	43.44		
								mile s	1.00					
Data	31	31	31	0	31	16	0	31	31	31	31	19	0	0
-uia	<u> </u>		<u> </u>											<u> </u>

Once completed, this form should be converted to a pdf document, named appropriately & attached to the corresponding netDMR for submittal

State Fo	rm 10829 (F Facility	R4 / 01-20) Permit Numb	er	Month		Year										
Elkhart		IN00256	674	Ma	rch	20	24									
***************************************				State Form		I,										
		Final	Effluent													
	Chle	oride	Total N	litrogen												
Day Of Month	Chloride - mg/l	Chloride - Ibs/day	Total Nitrogen- mg/l	Total Nitrogen- Ibs/day	Ag - Influent mg/l	Ag - Effluent mg/L	Cd - Influent mg/L	Cd - Effluent mg/L	CN - Influent mg/L	CN - Effluent mg/L	Cr - Influent mg/L	Cr - Effluent mg/L	Cu - Influent mg/L	Cu - Effluent mg/L	Hg - Influent ng/L	Hg - Effluent ng/L
2											i					
3			19.90	1,838												
5			10.00	1,000	0.0003	0.0002	0.0004	0.0002			0.0057	0.0020	0.0523	0.0108		
6					0,000						-,				19.6000	1.0300
7																
8																
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12					0.0008	0.0002		,								
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21																,
22	185	19,882														
23																
24																
25					0.0007	<u> </u>										
26		<u> </u>				0.0002					ļ					
27											-					
28																
29 30		-												-		
31										1						
Avg.	185	19,882	19.90	1,838	0.0006	0.0002	0.0004	0.0002			0.0057	0.0020	0.0523	0.0108	19.6000	1.0300
Max.	185	19,882	15.55	1,500		0.0002					0.0057			0.0108	19.6000	
Min.	185	19,882	19.90	1838		0.0002					0.0057			0.0108		
		,														10
Data	1	1	1	1	4	4	1	1	0	0	1	1	1	1	1	1

WASTEWATER TREATMENT PLANT

State F Name o	orm 10829 f Facility	(R4 / 01-20) Permit Numb	er	Month		Year								
Elkhart		IN00256	674	Ma	rch	20:	24							
			stitute for											
Day Of Month	Ni - Influent mg/L	Ni - Effluent mg/L	Pb - Influent mg/L	Pb - Effluent mg/L	Zn - Influent mg/L	Zn - Effluent mg/L							_	
2													l	
3														
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	0.0224	0.0071	0.0040	0.0013	0.1070	0.0395								
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29														_
30														
31	0.0001	0.0074	0.0040	0.0040	0.4070	0.0005						ļ		_
Avg.	0.0224	0.00/1	0.0040	0.0013	0.1070 0.1070	0.0395								
Min	0.0224	0.0071	0.0040	0.0013	0.1070	0.0395								
Data		150					0	0	0	0) 0	0		С

BYPASS / OVERFLOW INCIDENT REPORT

State Form 45373 (R7 / 4-18) Indians Department of Environmental Management Office of Water Quality

																						Ģ	

NISTRUCTIONS:

Complete all parts of this form and amail signed copies to <u>wavesports@idem.IN.gov</u>. Submittel of this report will satisfy the Office of Water Quality (OWQ) telephone and written bypessioverflow reporting requirements of your NPDES permit. Please use and the second page of this form as necessary to identify separate locations caused by the same event. If you have any quastions while filling out the report form, please contact Renee Report of (317) 232-6770 or <u>respectively.in.gov.</u>

To report a spill or if the release is resulting in a fish kill or other severe environmental damage, immediately report the release to the Emergency Reservace Sertion and response line at: (317) 233-7745 or toll free within Indiana at (888) 233-7745.

Construction Related Prover Fature Legislating Construction Paradeter of the Asia Reposited	74
(5) Cuttell (6) Date (moditally) and Time (7) Date (moditally) and Time (8) Location of Release (already entress or (9) Lattude (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec) (Deg Min Sec)	7 7W
Treatment Bypess (at wastewater plant) Towle □ Prohibited Combined Sewer Overflow □ Dry Weather Combined Sewer Overflow □ Combined Sewer System Release (15) Reason for Bypess / Overflow (Select one or more.) □ Construction Related □ Power Failure □ Equipment Failure □ Unknown Precipitation In	
☐ Construction Related ☐ Power Failure ☐ Equipment Failure ☐ Unknown ■ Exceeded Max Capacity ☐ Precipitation II	
(Select one or more)	chas
Describe Other (In the bax below) Augure, Incl Supervisor until N/a OFF Faule (4) Additional organizations notified by facility, if necessary (Saleat one or more.) DEM Emergency Response	
(20) Actions Taken to Prevant, Minimize, or Mitigate Demage Including Clean-up and Treatment of Affected Aree (Selections or more of the following, then add a written description.) Removed Biockage Repaired Pipe Repaired Pump Station Other Lime A Clean-Up Debris	
(21) Resolution: Actions Taken or Planned to Prevent Recourses reviewed procedures with operator other confidential corrective action was taken (22)	
Individual Mesting Recort (orthog), Telephone Number Centert Empl Date (month etc., year) / Time (DEM Nother)	ind and

BYPASS / OVERFLOW INCIDENT REPORT State Form 48373 (R7 / 4-16) Indiana Department of Environmental Management Office of Water Quality

$\hfill \square$ Follow-up to Bypass report
previously sent on:

INSTRUCTIONS:

Complete all parts of this form and email signed copies to <a href="www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailt

To report a spill or if the release is resulting in a fish kill or other severe environmental damage, immediately report the release to the Emergency Response Section spill response line at: (317) 233-7745 or toll free within Indiana at (888) 233-7745.

response de	stion spili response inte	, at. (017)2	200 7740 07 (0)		·		•				
(4) Escilit No	me (Organization)		(2) Mailing A		L INFORMATION		(2) ((4) NDDE	C Downit
1			1		porting organizati	ЮП)	1	ounty		(4) NPDE	
Elkhart Pi	ıblic Works				iee Street		EIK	hart		IN0002	25674
(F) 0 (f)					RMATION (Loca						
(5) Outfall Number	(6) Date (mm/dd/yy) and Release Began	Rele	Date (mm/dd/yy) ease Stopped	, , , , , , , , , , , , , , , , , , , ,	(8) Location of Re Manhole, Lift Stati				atitude Min Sec)	(9) Longit (Deg Min	
	3/30/24 43		10/24 5	☑ AM □ PM			pomer				
1 1	of Flow Released	, ,	provide a volu	•			ow During Relea		(12) WWTP P	_	Flow Rate
Check one:	☑ Estimated	tual 😓	1.0"	Gallons		MGI			44.0 MG	U	
☐ Sanitary S ☑ Treatment ☐ Prohibited	ewer Overflow B ypass (at wastewate Combined Sewer Ove er Combined Sewer O	rflow		Describe	any damage to a	N/a		eam,			
	Sewer System Releas						all.				
	or Bypass / Overflow (Select one o			opevator						
☐ Construction					Unknown						Inches
(16) System C		1, ,	-		Bypass / Overflo		1 \(\alpha\)		tion of the Ai hat apply.)	rea Impaci	ted
<i>(Select one of</i> □ Manhole	more.)	KN 010	1. 400 DV	Train	wat w	on Hu	Aff		Private Prop	erty	
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Pipe Failur Pump Stat		Proc	. educe	d no	+ follow	red, L			l at Treatmer Public Land		
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(19) Additional	<i>പ്പ</i> I organizations notified	by facility.	if necessary (S	elect one	or more.)						
1 ' '		Health De			sh and Wildlife	☐ Local Er	mergency Ma	nagem	nent 🗌 Oth	ner:	
			N	sla							
	aken to Prevent, Minin				Clean-up and Trea	atment of At	ffected Area				
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SIGNATURE:									nonth, day, y		1/24
Individual Makin Laura Kolo	g Report (printed)		ne Number 293-2572		t Email 1.kolo@coei.or	70	Date (month, o		ar) / Time IDEN (0 : 0 0	M Notified	AM
Laura NOIO		(3/4)	400-4014	laura	1.1.010@0001.01	ษ	4/4/24	Mari	v = v = v		□ PM

Kolo, Laura

From:

Kolo, Laura

Sent:

Thursday, April 4, 2024 10:00 AM

To:

'wwreports@idem.IN.gov'; Kolo, Laura

Subject:

Attachments:

Inc rpt lmage.jpeg

Please find incident report attached. Incident occurred on 033024 but operator did not inform anyone or his supervisor until 040324 at appx 1 pm

Kolo, Laura

From:

IDEM Wastewater Reports < WWReports@idem.IN.gov>

Sent:

Thursday, April 4, 2024 10:01 AM

To:

Kolo, Laura

Subject:

EXTERNAL: Automatic reply: Inc rpt

Caution: This email originated from outside of the organization. Please take care when clicking links or opening attachments. When in doubt, contact your IT Department

Thank you for your submission. If we have any follow up questions, we will let you know.



Date

May 24, 2024

Memo To

Board of Public Works

Memo From

Laura Kolo, Utility Services Manager

Subject

Wastewater Utility Monthly Report of Operations

for the month of April, 2024

Wastewater MRO Highlights

Parameter	Monthly Avg	Permit Limit
Suspended Solids mg/L	6	30
cBOD5 mg/L	3.	25
Phosphorus mg/L	0.48	1.0
Ammonia mg/L	0.19	4.4 (Dec-Apr) 4.2 (May-Nov)
Avg Daily Flow MGD	16.21	Design - 20
Total Monthly Flow MGD	486	Report

Incident Reports Filed

Date	Location	Volume (gal)	Cause
04/19/24	MH @ Edgewater Park	955,700	SCADA Failure during rain event
04/28/24	MH @ Edgewater Park	320,500	SCADA Failure during rain event

Wet Weather Overflows

Number of Events	Total Overlfow Volume (MG)
5 .	. 8.8203

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Signing Process Confirmation - CDX Activity ID: _58419327-aeb7-45e2-adc7-c5563565596a

Your DMRs are undergoing the Signing Process

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IN0025674 ELKHART WWTP 005	005-C	CSO- ARCH/BAR, NW OF INTERSECTION	04/30/24	05/28/24
IN0025674 ELKHART WWTP 006	D-900	CSO- JACKSON, N OF BRIDGE, W OF ELKHART RIVER	04/30/24	05/28/24
IN0025674 ELKHART WWTP 007	007-C	CSO- JACKSON, N OF BRIDGE, E OF ELKHART RIVER	04/30/24	05/28/24
IN0025674 ELKHART WWTP 008	D-800	CSO- HUG/EAST BLVD	04/30/24	05/28/24
IN0025674 ELKHART WWTP 009	J-600	CSO- NIBCO PRKWY - FKA JR. ACHIEVEMENT (Y DR N)	04/30/24	05/28/24
IN0025674 ELKHART WWTP 011	011-C	CSO- ELKHART/FRANKLIN	04/30/24	05/28/24
IN0025674 ELKHART WWTP 012	012-C	CSO- CASSOPOLIS/BEARDSLEY	04/30/24	05/28/24
IN0025674 ELKHART WWTP 013	013-C	CSO- JOHNSON/BEARDSLEY	04/30/24	05/28/24
IN0025674 ELKHART WWTP 014	014-C	CSO- DAM AT CONE/ERWIN	04/30/24	05/28/24
IN0025674 ELKHART WWTP 015	015-C	CSO- MICHIGAN/FULTON	04/30/24	05/28/24
IN0025674 ELKHART WWTP 016	016-C	CSO- DAN @ GOSHEN/SUPERIOR	04/30/24	05/28/24
IN0025674 ELKHART WWTP 017	017-C	CSO- W. BOULEVARD/MCNAUGHTON	04/30/24	05/28/24
IN0025674 ELKHART WWTP 018	018-C	CSO- MCNAUGHTON PARK WEST	04/30/24	05/28/24
IN0025674 ELKHART WWTP 019	019-C	CSO-MICHIGAN @ RVR, S. OF LEX.	04/30/24	05/28/24
IN0025674 ELKHART WWTP 020	020-C	CSO- BRIDGE AND HUDSON	04/30/24	05/28/24
IN0025674 ELKHART WWTP 023	023-C	CSO- FRANKLIN/8TH	04/30/24	05/28/24
IN0025674 ELKHART WWTP 024	-024-C	CSO- INDIANA/FRANKLIN	04/30/24	05/28/24
IN0025674 ELKHART WWTP 025	025-C	CSO- POTTAWATOMI/SECOND	04/30/24	05/28/24
IN0025674 ELKHART WWTP 026	026-C	CSO- MAIN/POTTAWATOMI	04/30/24	05/28/24
IN0025674 ELKHART WWTP 027	027-C	CSO- EDGEWATER/NAVAJO	04/30/24	05/28/24
IN0025674 ELKHART WWTP 028	028-C	CSO- WASHINGTON AT RIVER	04/30/24	05/28/24
IN0025674 ELKHART WWTP 029	029-C	CSO- JEFFERSON AT THE RIVER	04/30/24	05/28/24
IN0025674 ELKHART WWTP 031	031-C	CSO- ELIZABETH/LUSHER	04/30/24	05/28/24
IN0025674 ELKHART WWTP 032	032-C	CSO- EDGEWATER/OKEMA	04/30/24	05/28/24
IN0025674 ELKHART WWTP 033	033-C	CSO- EVANS/GRACE	04/30/24	05/28/24
IN0025674 ELKHART WWTP 034	034-C	CSO- LEXINGTON/6TH	04/30/24	05/28/24
IN0025674 ELKHART WWTP 035	035-A	20 MGD CLASS IV ACTIVATED SLUDGE - TO ST JOSEPH RIVER	04/30/24	05/28/24
IN0025674 ELKHART WWTP 037	037-C	CSO- FRANKLIN/KRAU	04/30/24	05/28/24
IN0025674 ELKHART WWTP 039	039-C	CSO- WEST HIGH AT RIVER	04/30/24	05/28/24
IN0025674 ELKHART WWTP 040	040-C	CSO- MCNAUGHTON PARK SOUTH	04/30/24	05/28/24
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Form Approved OMB No. 2040-0004 expires on 07/31/2026

Permit

IN0025674 Permit ID: Permittee:

ELKHART WWTP

Permittee Address:

Major:

ELKHART WWTP

Facility:

035 - External Outfall

Discharge:

Facility Location:

1201 S NAPPANEE ST ELKHART, IN46516 229 SOUTH 2ND ST ELKHART, IN46516

035-A - 20 MGD CLASS IV ACTIVATED SLUDGE - TO ST JOSEPH RIVER

05/28/24

DMR Due Date:

Report Dates & Status Monitoring Period:

Permitted Feature:

From 04/01/24 to 04/30/24

NetDMR Validated

Status:

Considerations for Form Completion

THE FLOW METER(S) SHALL BE CALIBRATED AT LEAST ONCE EVERY TWELVE MONTHS. REPORT QUARTERLY PARAMETERS ON 035-AQ NETDMR. MUNICIPAL MAJOR ELKHART COUNTY

Principal Executive Officer

Laura First Name: Utility Services Manager

574-293-2572 Telephone:

Kolo

Last Name:

No Data Indicator (NODI)

Title:

Form NODI:

Code Name	i ·	Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units	of Ex.	Analysis	Туре
00300 Oxygen, dissolved [DO] 1 - Effluent Gross	Smpl.			II	£.6.9			19 - mg/L	0	01/01 - Daily	3R - 3GR24H
Season: 0	Req.				>=4.0 DLYAVMIN		The state of matters of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the sta	19 - mg/L		01/01 - Daily	3R - 3GR24H
NODI: -	NODI				and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s						
00400 pH 1 - Effluent Gross	Smpl.			11	=7.0		=7.8	12 - SU	0	01/01 - Daily	GR - GRAB
	Req.				>=6.0 DAILY MN		<=9.0 DAILY MX	12 - SU		01/01 - Daily	GR - GRAB
NODI: -	NODI										
00530 Solids, total suspended 1 - Effluent Gross	Smpl.	=857.0	=1114.0	26 - lb/d		=6.0	=8.0	19 - mg/L	0	01/01 - Daily	24 - COMP24
Season: 0 NODI: -	Req.	<=7511.0 MO AVG	<=11266.0 MX WK AV	26 - Ib/d		<=30.0 MO AVG	<=45.0 MX WK AV	19 - mg/L		01/01 - Daily	24 - COMP24
00600 Nitrogen, total [as N]	Smo!	=2821.0		26 - lb/d		=15.7		19 - ma/L	0		24 -
1 - Effluent Gross								À	,	Monthly	COMP24
Season: 0	Req.	Req Mon MO AVG		26 - Ib/d		Req Mon MO AVG		F		01/30 - Monthly	24 - COMP24
NODI: -	NODI										
00610 Nitrogen, ammonia total [as N] 1 - Effluent Gross	Smpl.	=29.4	· :	26 - lb/d		=0.19	=1.94	19 - mg/L	0	01/01 - Daily	24 - COMP24
Season: 2	Req.	<=1102.0 MO AVG	<=2554.0 DAILY MX	26 - lb/d		<=4.4 MO AVG	<=10.2 DAILY MX	19 - mg/L		01/01 - Daily	24 - COMP24
NODI: -	NODI								/		
00665 Phosphorus, total [as P] 1 - Effluent Gross	Smpl.	=66.0		26 - Ib/d		=0.48		19 - mg/L	0	01/01 - Daily	24 - COMP24
Season: 0	Req.	Req Mon MO AVG		26 - Ib/d		<=1.0 MO AVG		19 - mg/L		01/01 - Daily	24 - COMP24
NODI: -	NODI										
01079 Silver total recoverable 1 - Fffluent Gross	Smpl.	<0.027	<0.029	26 - Ib/d		<0.0002	<0.0002	19 - mg/L	0	01/07 - Weekly	24 - COMP24

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Code Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units	ž č	Allelysis	a Abe
Season: 0	Req.	<=0.063 MO AVG	<=0.13 DAILY MX	26 - lb/d		<=0.00038 MO AVG	<=0.00077 DAILY MX	19 - mg/L		01/07 - Weekly	24 - COMP24
NODI: -	NODI	4 F									
01079 Silver total recoverable G - Raw Sewage Influent	Smpl.				·	<=0.0003	=0.0003	19 - mg/L	0	02/30 - Twice Per Month	24 - COMP24
Season: 0	Req.					Req Mon MO AVG	Reg Mon DAILY MX	19 - mg/L		02/30 - Twice Per Month	24 - COMP24
NODI: -	NODI										
50050 Flow, in conduit or thru treatment plant	Smpl.	=16.21		03 - MGD					0	01/01 - Daily	TM - TOTALZ
1 - Effluent Gross											- 1
Season: 0	Req.	Req Mon MO AVG		03 - MGD						01/01 - Daily	TM - TOTALZ
NODI: -	NODI										
51041 E. coli, colony forming units [CFU] 1 - Effluent Gross	Smpl.					=29.0	=142.0	3Z - CFU/100mL	0	01/01 - Daily	GR - GRAB
Season: 1	Req.					<=125.0 MO GEO	<=235.0 DAILY MX	32 - CFU/100mL		01/01 - Daily	GR - GRAB
NODI: -	NODI										
71901 Mercury, total recoverable 1 - Effluent Gross	Smpl.					=1.45	=1.03	3M - ng/L	0	01/60 - Once Every 2 Months	GR - GRAB
Season: 0	Req.					<=1.6 AN	Req Mon DAILY MX	3M - ng/L		01/60 - Once Every 2 Months	GR - GRAB
NODI: -	NODI										
71901 Mercury, total recoverable G - Raw Sewage Influent	Smpl.						=19.6	3M - ng/L	0	01/60 - Once Every 2 Months	GR - GRAB
Season: 0	Req.						Req Mon DAILY MX	3M - ng/L		01/60 - Once Every 2 Months	GR - GRAB
NODI: -	NODI										

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Code	Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units	∑ ¥	Ex.	
80082 BOD, carbonae [5 day, 2]	BOD, carbonaceous [5 day, 20 C]	Smpl.	Smpl. =448.0	=681.0	26 - lb/d		=3.0	=5.0	19 - mg/L	0	01/01 - Daily	24 - COMP24
Season: 0 NODI: -		Req.	<=6259.0 MO AVG	<=10014.0 MX WK AV	26 - lb/d		<=25.0 MO AVG	<=40.0 MX WK AV 19 - mg/L	19 - mg/L		01/01 - Dally	24 - COMP24
81012 Phosphoru total perce removal K - Percent Removal	Phosphorus, total percent removal ent Removal	Smpl.			II	=83.3			23 - %	0	01/30 - Monthly	CA - CALCTD
Season: 0		Req.			^	>=75.0 MO AV MN			23 - %	:	01/30 - Monthly	CA - CALCTD
82220 Flow, total 1 - Effluent Gross	ow, total Gross	Smpl.		=486.0	80 - Mgal/mo					0	01/30 - Monthly	RT - RCOTOT
Season: 0		Req.		Req Mon MO TOTAL	80 - Mgal/mo						01/30 - Monthly	RT - RCOTOT

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

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	Type	Size
IN0025674_035a_MRO_2024_04.pdf	Jpd	914755.0
	1388616.0	1388616.0
	pdf	129360.0
2.pdf	pdf	

Report Last Saved By

ELKHART WWTP

Payton88 User:

Laura Kolo

laura.kolo@coei.org

2024-05-24 08:54 (Time Zone:-04:00)

Report Last Signed By

Date/Time:

E-Mail:

Name:

Payton88

Laura Kolo

laura.kolo@coei.org

2024-05-24 08:55 (Time Zone:-04:00)

Date/Time:

Name: E-Mail:

User:

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State Form 10829 (R4 / 01-20)

Name of Facility			Permit Nun	nber		
Elkhart			IN00256	674		
Month	Year	Plant Des	ign Flow	Telephone	e Number	
April	2024	20.00	mgd	5	74/293	-2572
E-mail address:	laura.kolo@c	oei.org			035	Α
Certified Operator: N	lame	Class	Certificate	Number	Expl	ration Date
Laura F. Kolo		l IV	150)94	06/	30/2024

										Laura E. I	Kolo			IV	150	94	06/3	30/2024
				Total≔			CH	HEMICAL	_S									
				4.18				USED					RAW	SEWA	GE			
Of Month	Day of Week	Man-Hours at Plant (Plants less than 1 MGD only)	Air Temperature (optional)	Precipitation - Inches	Bypass At Plant Site("x" If Occurred)	Sanitary Sewer Overflow("x" If Occurred)	ay	Ferrous Chloride Lbs/Day or Gal./Day	Lbs/Day or Gal./Day) te			,	. I/g	Susp. Solids - Ibs/day	l/6		
Ž	3	ours a	E E	Ē	ant	S	Ď,	rid 1.7	0	- B B		_	day	Ę	유	Ē	mg/I	
ď	, p	ss	rati	<u> </u>	At Plant S Occurred)	K, fa	, P	H Ga	Jay	≥ 2		ng/	/sq	· ဗို	Sg	- SI	٤	
Day)a)	두 S	l be	aţic	Αğο	ani ow(n)	s C or]/s	F 5				Solids - mg/l	ij	_ ը	<u>.</u> <u>e</u>	
"	-	Mar	Ē	ig.	ass	SE	ij	no.	크	ent		ğ	Ď	o,	\ \frac{1}{3}	효	ē	
		ا ﴿ قَ	[-) <u>6</u>	3yp	ارّ	Chlorine - Lbs/day	en -		Influent Flow Rate (if metered) MGD	I I	CBOD5 - mg/l	CBOD5 - lbs/day	Susp.	sn	Phosphorus - mg/l	Ammonia -	
1	 		- Q	1.03	Н —		<u> </u>	216		15.675	<u> </u>	68	8,890	ഗ 118	15,426	2.75	10,48	
2	Mon			0.15	ļ			228		15.258	7.2	87	11,071	104	13,234	2,55	14.28	
3				0.20	-			224		13.458	7.8	79	8,867	140	15,714	3,36	14.64	
4				0.06	-		<i>i</i>	213		13.842	2.5	111	12,814	140	16,162	3.69	20.40	
5			[0.00				213		13.475	7.3	79	8,878	99	11,126	3.42	19.16	
6				-	 			258		12.891	7.5	63	6,773	114	12,256	2.56	14.80	
7	Sun	:		0.18	<u> </u>		***************************************	228		12.383	7.5	78	8,055	84	8,675	2.64	12.44	
8								220		13.067	7.6	67	7,302	126	13,731	3.17	14.32	
9								228		13.150	7.6	92	10,090	94	10,309	2.93	15.64	
10								200		13.000	7.3	111	12,035	118	12,794	3.60	16.40	
11	Thu			0.79				228		19.783	7.6	115	18,974	100	16,499	3.34	13.72	
12	Fri			0.01						14.027	7.2	121	14,155	102	11,932	2.78	15.84	
13								200		13.483	7.3	86	9,671	64	7,197	2.58	14.40	
14								216		13.192	7.2	74	8,142	76	8,362	2.24	12.04	
15	Mon			0.01				225		14.192	7.2	85	10,061	114	13,493	3.18	16.92	
16	Tue							228		14.258	7.2	95	11,297	132	15,696	2,69	17.08	
17	Wed			0.09				213		13.975	7.2	97	11,305	108	12,588	3.28	17.72	
18				0.25				200		13.550	7.4	110	12,431	104	11,753	3.35	18.64	
19				0.56		Х		234		17.942	7.2	93	13,916	222	33,219	2.38	12.28	
20				-				200		13.100	7.6	83	9,068	110	12,018	2.28	15.96	
21	Sun				ļ			228		12.016	7.1	65	6,514	68	6,815	2.28	12.40 15.32	
22				0.00				228		13.825	7.2	92	10,608	114	13,144 14,228	3.08 2.49	15.64	
23				0.09				225 200		13.758	7.2 7.3	105 104	12,048 12,317	124 102	12,080	3.06	18.92	
24				0.01				200		14.200 13.475	7.6	124	13,935	90	10,114	2.88	17.92	
25				0.12	-			219		13.473	7.0	93	10,477	118	13,293	3.29	19.40	
26 27				0.12				200		13.027	7.3	97	10,477	122	13,255	2.31	16.56	
28	Sat Sun			0.55	<u> </u>	x		189	····	17.800	7.0	106	15,736	178	26,424	2.25	9,28	
29		 		0.01	_	^		176		14.133	7.2	105	12,376	150	17,680	3.14	11.76	
	Tue			10.01	 			5		13.717	7.2	83	9,495	120	13,728		17.08	
31										1			-1					
Ave				0.25				216		14.105		92	10,928	115	13,765	2.90	15.38	
	imum			1.03				258		19.783	7.8	124	18,974	222	33,219		20.40	
	mum			0.01				176		12.016	2.5	63	6514	64	6815	2.24	9.28	
# of	Data		C	17	0	2	0	28	0	30	30	30	30	30	30	30	30	0
,, 51	l cer	tify under	penalty	of law t	hat this	s docu	ment and	all attach	nments				n of (Certifie		•		onth, day,	year)
1	were	prepared :	under r	ny direct	tion or	superv	rision in a	ccordanc	e with a	ı ·						l .		

were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting falso information, including the possibility of fine and submitting false information, including the possibility of fine and imprisonment for knowing violations.

Laura Kolo

Signature of principal executive officer or authorized agent

Date (month, day, year)

(or attested by NetDMR subscriber agreement)

5/24/24

5/24/24

State Form 10829 (R4 / 01-20)			
Name of Facility	Permit Number	Month	Year
Elkhart	IN0025674	April	2024

LIMIGI				11400230	717		111	2.0	41									
	PRIMAF	DV	Τ		٨Е	RATIO	N			SECON	DARV							
	EFFLUE		MIXED LI	IQUOR		NATIO	N	RETURN S	LUDGE	EFFLUE			i	FINAL	EFFLUE	ENT		
			in 30		//gm	mg/I						. Final	- 9	00 ml	le)	رsel	- mg/l	g/l)
Of Month	mg/I	Susp. Solids - mg/l	Settleable Solids % minutes	Susp. Solids - mg/l	Sludge Vol. Index - ml/gm	Dissolved Oxygen - mg/l	ature - F	- MG	Susp. Solids - mg/l	CBOD5 - mg/l	Solids - mg/l	Residual Chlorine - Final	Residual Chlorine Contact Tank	Coli - colony/100 ml	pH - daily low (or single sample)	pH - daily high (if multiple samples)	Dissolved Oxygen - mg/l	Oil & Grease (mg/l)
Day Of	CBOD5			Susp. 9	Sludge		Temperature	Volume - MG		CBOD(Susp. 8	Resid	Re	ui		i (if n		liO
1	53	64	126	4,392	29	8.7	12	6.487	3,760					3	7.4		10.4	
2	64	44	142	2,948	48	5.7	12	6.487	5,600					20	7.1	···	9.9	
3	60	68	110	2,796	39	5.6	12	6.487	6,380					27	7.4		10.5	
4	80	92 _	130	5,200	25	5.8	13	6.487	5,920					11	7.0		10.2	
5	63	52	122	3,632	34	6.5	13	6.487	5,160					29	7.0		10.5	
6	45	55	127	3,020	42	7.1	13	6.316	6,040				ļ	33	7.6		10.8	
7	53	49	132	4,316	31	6.6	13	6.487	6,620					30	7.7		11.0	
8	46	51	136	3,372	40	6,6	13	6,474	5,660					45	7.0		11.5	
9	59	′55	124	3,420	36	5.1	14	6.487	6,260					36	7.6		10.1	
10	75	64	145	2,852	51	5.4	14	6.438	6,020					93	7.4		10.2	
11	88	70	142	2,764	51	5.4	13	6.487	7,420		ļ		ļ	142	7.0		9,9	
12	82	48	148	2,816	53	6.0	13	6.487	5,720					88 118	7.0		10.5 10.6	
13	58	47	153	2,916	52	6.5	14	6.487	5,720					67	7.0		10.8	
14	61	49 56	156 156	2,888	54 58	6.4 5.7	14 14	6.487 6.487	6,120 5,340					32	7.6		9.7	
15	66 63	52	118	2,708 3,696	32	5.7	14	6.487	5,440					64	7.5		9.9	
16 17	73	52	143	2,656	54	5.6	14	6.487	5,820					27	7.0		9.8	
18	105	82	108	3,700	29	5.0	14	6.487	5,120					44	7.0		10.3	
19	88	124	145	2,596	56	6.2	14	6.487	5,440	<u> </u>				54	7.2		10.6	
20	55	57	146	2,860	51	6.6	17	6.487	6,060					18	7.0		10.6	
21	54	39	128	2,932	44	6.5	14	6.487	5,960				1	23	7,5		10.9	
22	97	75	127	2,912	44	6,6	14	6,487	6,140					12	7.6		10.4	
23	83	79	118	3,552	33	5.7	14	6.487	5,800					25	7.6		10.1	
24	77	56	145	2,840	51	5,3	14	6.487	5,600					22	7.0		9.3	
25	117	52	132	3,368	39	5.7	14	6.487	6,160					13	7.8		10.8	
26	70	52	141	2,896	49	6.1	14	6.487	5,320					8	7.6		10.2	
27	59	49	143	2,880	50	6.5	14	6,424	5,700					19	7.0		10.0	
28	63	63	130	2,940	44	7.3	15	6.487	5,900					18	7.2		10.1	
29	66	64	116	3,692	31	7.2	15	6.487	5,360					16	7.5		10.7	
30	63	69	140	2,792	50	5.2	15	6.397	5,680					29	7.4		9.9	
31																		
Avg.	70	61	134	3,212	43	6.2	14	6.474	5,775					39			10.3	
Max	117	124	156	5,200	58	8.7	15	6.487	7,420					142		7.8	11.5	
Min.	45	39	108	2596	25	5.0	12	6.316	3760					3		7.00	9.3	
Daily														142				
		ove 235		T = -				r		_				0	0.01	اہ		
Data	30	30	30	30	30	30	29	30	30	0	0	1	0	30	30	0	30	0

Comments for the Month (major repairs, breakdowns, process upsets and their causes, inplant treatment process bypass, etc.): ferric chloride is being used for po4 removal, not ferrous chloride

State Form 10829 (R4 / 01-20)			
Name of Facility	Permit Number	Month	Year
Elkhart	IN0025674	April	2024

-							FI	NAL EFF	LUENT								
		Flow		BOD				Total Su			;	Ammon	ia			Phosph	orus
Day Of Month	Day of Week	Effluent Flow Rate (MGD)	Effluent Flow Weekly Average	CBOD5 - mg/l	CBOD5 - mg/l Weekly Average	CBOD5 - lbs/day	CBOD5 - lbs/day Weekly Average	Susp. Solids - mg/l	Susp. Solids - mg/l Weekly Average	Susp. Solids - lbs/day	Susp. Solids - lbs/day Weekly Average	Ammonia - mg/l	Ammonia - mg/l Weekly Average	Ammonia - Ibs/day	Ammonia - Ibs/day Weekly Average	Phosphorus - mg/l	Phosphorus - lbs/day
	Mon	21.546		5		898		9		1,689		1.94		348.6		0.77	138
2		17.567		9		1,319		12		1,714		1.57		230.0		0.72	105
	Wed	15.846		4		529		8		1,018		0.13		17.2		0.58	77
		14.746		4		492		7		836		0.33		40.6		0.66	81
	Fri	14.404		4		481		6		721		0,06		7.2		0,54	65
6	Sat	13.888	16.005	3	5.00	347	681	7	8.17	811	1,114	0.03	0.59	3.5	94	0.55	64
7	Sun	15.581		3		390		8		1,014		0.02		2.6		0.48	62
8	Mon	14.411		3		361		5		649		0.05		6.0		0.49	59
9	Tue	14.683		3		367		5		637		0.06		7.3		0.55	67
10	Wed	14.705		3	,	368		6		724		0.08		9.8		0.48	59
11	Thu	22.293		3		558		7		1,376		0.31		57.6		0.55	102
12	Fri	15.281		3		382		7		841		0.12		15.3		0.36	46
13	Sat	14.306	15.894	3	3.00	358	398	5	6.24	644	841	0.05	0.10	6.0	15	0.47	56
14	Sun	.13,997		2		233		4		467	www.	0.05		5.8		0.43	50
15	Mon	14.846		3		371		4		483		0.08		9.9		0.44	54
16	Tue	14.841		3		371		5		594		0.07		8.7		0.44	54
17	Wed	14.652		2		244		4		489		0.06		7.3		0.50	61
18	Thu	14.740		2		246		4		529		0.06		7.4		0.47	58
19	Fri	17.982		3		450		5		780		0.05		7.5		0.37	55
20		14.117	15.025	2	2.43	235	307	5	4.41	553	556	0.05	0.06	5.9	7	0.35	41
21	Sun	14.095		2		235	*****	4		482		0.04		4.7		0.31	36
22	Mon	14.969		3		375		5		599		0.06		7.5		0.38	47
23	Tue	16.231		3		406		6		785		0.07		9.5		0.38	51
24	Wed	16.687		3		418		5		682		0.06	****	8.4		0.41	57
25	Thu	17.094		3		428		5		741		0.07		10.0		0.42	60
26	Fri	17.074		2		285		7		940	700	0.05	0.00	7.1		0.41	58
27	Sat	16.228	16.054	3	2.71	406	365	6	5.40	866	728	0.05	0.06	6.8	8	0.51	69
28	Sun	24.349		5		1,015		7		1,503		0.05		10.2		0.54	110
29	Mon	18.406		3		461		10		1,504		0.05		7.7		0.46	71 67
	Tue	16.747		3		419		7		1,034		0.05		7.0		0.48	/٥
31			F 81% 111 6674 (1128/7			1.15	September 1		2000 P. H. H. H. H. H.	0.57		0.40	#29#15#E55	20.4		0.40	
Avg		16.210		3		448	061	6	0.47	857	4 44 4	0.19	0.50	29.4	94	0.48	66 138
Max		24.349	16.054	9		1,319	681	12	8,17	1,714	1,114	1.94	0.59	348.6	7	0.8	138 36
Min		13.888	15.025	2	2.43	233	307	4	4.41	467	556	0.02	0.06	2.6		0.3	JU
					141					-				Γ -	Γ	_	
Data	a	30	4	30	4	30	4	30	4	30	4	30	4	30	4	30	30

	MONTHLY RE	MOVAL SUM	MARY		Total Monthly Flo	w:
Percent Removal	BOD5	S.S.	Ammonia	Phosphorus	(million gallons)	486
Primary Treatment	24.64	47.1	Superior Marin			
1	NA	NA			Percent Capacity	
Secondary Treatment	95.3	89.9			(actual flow/design)	81%
Overall Treatment	96.50	94.6	98,8	83.3		
Phosphorus limit would be	70	% removal.	(compliance	achieved)		

Page 3 of 6

State Form 10829 (F	R4 / 01-20)		
Name of Facility	Permit Number	Month	Year
Elkhart	IN0025674	April	2024

LINIUIT		INOUZUC	, , ,	Αþ		20,	_ •							
	SLUDG	E TO	·			DIG	STER	OPERAT	ION	,				
	DIGEST		Angero	bic Only		Didi	_O I Lit	JI LIGAT	1014					
Day Of Month	Primary SludgeGal. x 100	Waste Act. Sludge Gal. x 1000	Hd	Gas Production Cubic Ft. x 1000	Temperature - F	Supernatant Withdrawn hrs. or Gal. x 1000	Supernatant BOD5 mg/l or NH3-N mg/l	Total Solids in Incoming Sludge - %	ত Total Solids in Digested ই Sludge - %	Volatile Solids in Incoming Sludge - %	Volatile Solids in Digested Sludge - %	Digested Sludge Withdrawn hrs. or Gal. x 1000		
1	31.42	216.00	7.1		85			4.04		78.98	61.11	114.37		
2	18.40	216.00	7.2		88	17.685			2.13		59.57	114.41	İ	
3	30.00	216.00	7.2		90	10.611	*		2.12		60,81	134.30		
4	37.20	216,00	7.1		85				2.21		58.27	118.97		
5	30,32	216.00	7.2		85	7.074			2,45		61.29			
6	29.66	216,00	6.8		83	3.537		2.54	2.54	71.43	61.35			
7	24.62	216,00	6.8		82				2,60		60.56			
8	43.99	216.00	6.8		80				2.61		61.40			
9	33.00	216.00	6.8		70	7.074			3,97		69.03	227,48		
10	25.55	216.00	7.0		78	35.370		1.61	2.61	77.06	63,58	99.08		
11	10.26	216.00	7.0		79	3.537		4.83	1.24	74.29	60.00	259.66		
12	59.35	241.92	7.2		75				1.21		63.74	53.43		
13	40.16	249.12	7.0		74			5.47	2.18	74.83	62.73			
14	18.25	249.12	7.0		77			6.33	2.36	77.78	58.89			
15		249.12	7.2		77				2.70		58.05	250.19		
16		249.12	7.2		79				2.70		59,80			
17	9.08	249.12	6.9		76				3.02		60.15	51.12		
18		249.12	6.8		74				2.36		51.80	109.55	ĺ	
19	119.09	249,12	7.0		74	3.537			2.02		59.59	37,70		
20	169.08	249.12			70			3.48		78.29				
21	17.56	249.12	6.5		63				1.88		60.94			
22	59.46	249.12	6.6		75	10.611		3,34	2.42	85.96	64.29			
23	34.72	249.12	6.5		70			4.23	2.21	77.31	63.46	103.04		
24	63.52	249.12	6.4		71	3.537		4.45	2.28	75.27	63.37	114.47		
25	46.72	249.12	6.5		73			3.61	2.22	73.43	62.58	93.45		
26	77.67	249.12	6.5 ·		76	10.611		1.93	2.20	76.34	63.75	68.58		
27	63,60	249.12	6.6	1	80	7.074		3.65	2.08	77.68	64.50			
28	67.60	249.12	6.7		81			2.94	2.07	73.53	63.87			
29	53.82	249.12	6.8		82			3.49	2.01	75.34	62.34	100.39		
30	35.42	249.12	6.9		84			1.48	1.99	75.24	61.02	120.60		
31														
Avg.	46.28	236.74			78	10.022		3,59	2.30	76.42	61.44	120.60		
Max.	169,08	249.12	7.2		90	35.370		6.33	3.97	85.96	69.03	259.66		
Min.	9.08	216.00	6.4		63	3.537		1.48	1.21	71.43	51.80	37.70		
	il Left		1.5											
Data	27	30	29	0	30	12	0	16	29	16	29	18	0	0
									-					

Once completed, this form should be converted to a pdf document, named appropriately & attached to the corresponding netDMR for submittal

State For Name of F	m 10829 (R acility	4 / 01-20) Permit Numb	BL	Month		Year										
≘lkhart		IN00256	574	Ар	ril	202	24									
				State Form												
		Final	Effluent													
	Chlo	ride	Total N	litrogen										1		
Day Of Month	Chloride - mg/l	Chloride - lbs/day	Total Nitrogen- mg/l	Total Nitrogen- lbs/day	Ag - Influent mg/I	Ag - Effluent mg/L	Cd - Influent mg/L	Cd - Effluent mg/L	CN - Influent mg/L	CN - Effluent mg/L	0.00 Cr - Influent mg/L	Cr - Effluent mg/L	0.00 0.00 - Influent mg/L 0.00	Cu - Effluent mg/L	Hg - Influent ng/L	Hg - Effluent ng/L
1			15.70	2,821	0.0003	0.0000	0.0003	0.0002			0.0041	0,0020	0.0004	0.0139		
2				-		0.0002		0.0002	0.0142	0.0132		0,0020		0.0108		
3 4		 							0.0142	0.0102						
4 5	····															
6																
7					1											
8			`													
9					0.0002	0.0002										
10																
11																
12																
13																
14																
15					0.0002											
16						0.0002										
17		04.055					,									
18	203	24,955		-	 			1								
19																
20 21					 											
22		 			-											
23		<u> </u>		-	0.0003	0.0002										
24					1											
25																
26																
27																
28																
29		ļ		-												<u> </u>
30					0.0003	0.0002				-		-				-
31	000	04.055	45.70	0.004	0.0000	0.0002	0.0003	0.0003	0.0442	0.0133	0.0044	0.0020	0.0304	0.0130		
Avg.	203	24,955		2,821		0.0002			0.0142	0.0132	0.0041	0.0020	0.0304	0.0139		
Max.	203 203	24,955 24,955		2821	0,0003	0.0002	0.0003	0.0002	0.0142	0.0132	0.0041	0.0020	0.0304	0.0139		
Min.	203	24,900	13.70	2021	10,0002	10.0002	0.0000	0,0002	3,0172	13,0102	1 5,00 11	1 5,5520	3,2001	1 100	- 13	1
		T	T	1	.1 -	T -	1		1	T 4		1 4] al	0	
Data	1	1	1		5	5	1	1	1	1	1	1	1	1	U	L

WASTEWATER TREATMENT PLANT

Name	Form 10829 of Facility	(R4 / 01-20 Permit Numb) per	Month		Year]							
Elkha	rt	IN00256	374	Δ.	pril	20	24								
			stitute for			2.0	L -T								
Day Of Month	0.00 16 Ni - Influent mg/L	Ni - Effluent mg/L	0.00 Pb - Influent mg/L	Pb - Effluent mg/L	0.0 99 Zn - Influent mg/L	Zn - Effluent mg/L									
2		0.0055		0.0010	0.0400	0.0201									
3		0.0000		0.0010		0.0201	,					1			
4					 									,	-
5										 	<u> </u>				+
6			1								 				
7															
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18 19				-											
20				 								-		-	
21				 								-			
22														f	
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24														t	
25															
26															
27														Į	
28														ļ	
29															
30														1	
31	0.0101	0.0055	0.0045	0.0045	0.0100	0.0004	***************************************								
Avg.	0.0191	0.0055	0.0043	0.0010	0.0460	0.0201									
Max	0.0191	0.0055	0.0043	0.0010	0.0460	0.0201						ļ			
Min.	0.0191	0.0055	0.0043	0.0010	0.0460	U.U2U1			<u> </u>		<u> </u>				
Data	1	1	1	1	1	1	0	0	0	0	0	0	0		C



National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	Elkhart		EPARTMENT							Page '	1 of	9		F	erm	iit Number	: IN	0025574	
Facility:	Elkhart P	ublic Worl	ks & Utilities	5								Public No	tific	ation Requ	iren	nents Met?	Υ		
Monitor	ing Period	l :	April	2024							E	nter "x" i	fno	CSO disch	arg	e occurred	for	the month:	
Design l	Peak Hour	ly Flow (N	(GD):	44	Design Av	erage Flow	(MGD):	20		Measured/	Met	ered (M) o	or E	stimated (E) m	ust be spe	cifie	d	
WWTF	nfluent '	Data		Pro	cipitation E	Data			С	SO Outfall	No.	005			С	SO Outfall	No.	006	
Day of Month	Average Daily Flow (MGD)	Peak Hourly Flow (MGD)	Time Precip. Began (am/pm)	Precip. Duration (Hours)	Total Dally Precip. (Inches)	Peak Intensity (Inch/hr)	Measureme nt Interval (hr, 30 m, 15 m)	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharg e (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1	15,68	24.00	12:04 AM	23,03	1.03	0,88	15 min							6:08 PM	М	0.17	М	0,0106	М
2	15.26	17.00	12:16 AM	18.63	0.15	0.16	15 min												
3	13.46	20,50	2:51 AM	20,38	0.20	0.08	15 min												
4	13.84	16.00	2:36 AM	13,33	0.06	0.08	15 min												
5	13.48	14.50					15 min												
6	12.89	15.00					15 min												
7	12.38	20.00	5:59 PM	5.95	0.18	0.32	15 min			·									T
8	13.07	15.10					15 min									L.			Ι
9	13,15	15,20					15 min									·			
10	13,00	17.50					15 min												
11	19.78	27.90	1:14 AM	22.58	0.79	0.32	15 min												
12	14.03	16.10	7:11 AM	1.25	0.01	0.04	15 min												
13	13.48	16.00					15 min										Τ		
14	13.19	16.00					15 min												
15	14.19	15.30	10:16 AM	80.0	0.01	0,04	15 min												
16	14.26	18.10					15 min												
17	13.98	16.20	12:16 AM	12.17	0,09	0.12	15 min												
18	13.55	15.20	11:21 PM	0.72	0.25	0.56	15 min												
19	17.94	33.70	12:01 AM	5.83	0.56	0.48	15 min												
20	13.10	14.50					15 min												
21	12.02	15.00					15 min												
22	13.83	16,40					15 min												
23	13,76	18,10	11:14 AM	11.25	0.09	80.0	15 min												
24	14.20	15.60	3:26 AM	0.08	0.01	0.04	15 min												
25	13.48	15.40		-			15 min												
26	13.51	17.30	5:26 PM	3.22	0.12	0.16	15 min												
27	13.03	13.80	2:26 AM	7.17	0.07	0,16	15 min												
28	17.80	34.80	2:54 AM	19.70	0.55	0.64	15 min												
29	14.13	17.10	3:26 PM	0.22	0.01	0.04	15 min										Γ		
30	13.72	19.00					15 mln												
Totals:	423.16			165,59	4.18			0	Da ys	0,00		0		1	Da ys	0.17		0.0106	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R4 / 9-15)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	Elkhart by Elkhart Public Works & Utilities														9			Pern	nit Number:	: IN	10025574			
Facility	Elkhart P	ubli	c Works	& L	Itilities									ı	Public No	tific	ation Requ	ilrer	nents Met?	Υ				
Monitor	ing Period:		LEI,	4pril	2024										Er	iter	"x" if no	csc	discharg	e o	ccurred f	or th	ne month	
Design	Peak Flow	(Hot	ırly) (MG	D):	44	m 202	Design Fl	ow	(MGD):		20	reminent.	Measured/	Met	ered (M)	or E	stimated (E) m	ust be spec	cifie	od			
		CS	O Outfall	No.	007			cs	O Outfall	No.	008			cs	O Outfall	No.	009			C	SO Outfal	l No.	011	
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	М or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Discharge	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R4 / 9-15)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT City: Elkhart Page 3 of 9 Permit Number: IN0025574 Public Notification Requirements Met? Y Facility: Elkhart Public Works & Utilities Monitoring Period: Apri Enter "x" if no CSO discharge occurred for the month: Design Peak Flow (Hourly) (MGD): Design Flow (MGD): Measured/Metered (M) or Estimated (E) must be specified CSO Outfall No. CSO Outfall No. CSO Outfall No. 14B CSO Outfall No. 012 013 M Time or Discharge E Begger Event Duration Event M Duration or (Hours) E Event Discharge (MG) M Event or Duration E (Hours) М Event Discharge M M or E Time Time Event Event Event Day of Discharge Month Began or Duration E (Hours) Discharge Discharge Discharge or E Duration M Discharge (MG) Began Began (Hours) М M 7:57 PM M 6:22 PM M 1.08 0.0304 0.17 M 0.0150 6:25 PM M 0.0959 M 1.58 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 12:32 AM M | 1.17 | M | 0.0227 12:35 AM M 1.50 M 0.1197 M 20 21 22 23 24 25 26 27

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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R4 / 9-15)
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

	DEPARTME	NTC	F ENVIRO	NME	NTAL MAN	IAG	EMENT) i					1				
City:	Elkhart												Page 4	4 of	9	1999		err	nit Number:	IN	0025574			100
Facility	Elkhart P	ubli	c Works	& L	Itilities		1					Hysias		F	ublic No	lifica	ation Requ	ilrer	nents Met?	Y				
Monito	ring Period			April	2024						1				Ent	er"	x" if no C	so	discharge	9 00	curred fo	or th	e month:	
Design	Peak Flow	(Hou	urly) (MGI	D):	44	4655	Design F	ow	(MGD):		20	prosini	Measured/	Met	ered (M)	or E	stimated (E) n	iust be spe	cifie	ed			
		cs	O Outfall	No.	016			CS	O Outfall	No.	017			cs	O Outfall	No.	018			C	SO Outfal	l No.	019	
Day of Month	Time Discharge Began	M M	Event Duration (Hours)	M	Event Discharge (MG)	M or E	Discharge	M	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E		M or E	Duration		Event Discharge (MG)	M or E	Time Discharge Began	M or E	Duration		Event Discharge (MG)	A or
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) Slate Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

		NIC	F ENVIRC	NME	NTAL MAN	IAG	EMENI													3				
City:	Elkhart												Page	5 of	9			Pern	nit Number	: IN	0025574	92326	5:550:50	Service .
Facility:	Elkhart P	ubli	c Works	& L	Itilities			sealise	Sara Colonias	048888	SÁLSE STORES			P	ublic No	lfica	ation Requ	iirer	nents Met?	Υ				
Monitor	ing Period:			April	2024	_									Ent	er'	x" if no C	so	discharge	9 00	curred f	or th	e month	il mentan
Design	Peak Flow	(Ηοι	ırly) (MG	D):	44	1500-01	Design Fi	ow	(MGD):		20	1000000	Measured/	Met	ered (M)	or E	stimated (E) n	ust be spe	cifi	ed			
		CS	O Outfall	No,	020			cs	O Outfall	No.	023			cs	O Outfall	No.	024			C	SO Outfal	l No.	025	
Day of Month	Time Discharge Began		Event Duration (Hours)		Event Discharge (MG)	M or E			Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began		Event Duration (Hours)	M or E	Event Discharge (MG)	M or E					Event Discharge (MG)	e M
1	6:00 PM	м	1.25	м	0.0655	М	6:02 PM	м	0.75	М	0.0138	м	6:30 PM	м	2.58	м	0.3093	м	2:36 AM	м	1.17	м	0.0608	М
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R4 / 9-15)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Page 6 of 9 City: Elkhart Permit Number: IN0025574 Public Notification Requirements Met? Y Facility Elkhart Public Works & Utilities Monitoring Period: April Enter "x" if no CSO discharge occurred for the month: 2024 Design Peak Flow (Hourly) (MGD): Design Flow (MGD): Measured/Metered (M) or Estimated (E) must be specified 20 CSO Outfall No. CSO Outfall No. 026 CSO Outfall No. 027 028 CSO Outfall No. Time Event Event Time Event Event Event Event Event Event Time Time or Duration E (Hours) Discharge (MG) Discharge (MG) Day of Discharge Duration Discharge Discharge or E Duration Discharge Discharge Discharge or E Duration М Began (Hours) (MG) Began (Hours) Began (MG) Began (Hours) Month or E 1 5:56 PM M 0.0111 M 0.50 м 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 1:16 AM M 0.08 M 0,0006 M 20 21 22 23 24 25 26 27 28 80.0 М 0.0006 M 7:01 AM M 29 30 Da ys 0,0000 0,66 0.0123 0.00 0.0000 0.0000 Totals:



National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) Slale Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

	DEPARTME	IV I	DF ENVIRC	INNE	ENTAL MAI	VAG	EMENI												nit Number	1	10005574	-		
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	Elkhart P													F					nents Met?					
	ing Period:			Apri															discharge			or th	e month:	
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Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	X 6 E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E		M or E	Discharge	M or E	Discharge	M oi E	Duration			M
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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sign Pe	eak Flow	(Hot	ırly) (MG	D):	44		Design F	low	(MGD):		20		Measured/	Met	ered (M)	or E	stimated (E) n	nust be spe	cifi	ed			
		cs	O Outfall	No.	037			cs	O Outfall	No.	039			cs	O Outfall	No.	040			С	SO Outfal	l No.		
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Signature of Principal Executive Officer or Authorized Agent

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acility: Elkhart Public Works & Utilities	Public No	otification Requirements Met? Y
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ped or Printed Name and Title of Principal Executive Officer or Authorized Agent		Telephone
Laura E. Kolo, Utilities Services Manag	jer	574-293-2572
ERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WEI	RE PREPARED UNDER MY DI	RECTION OR SUPERVISION IN ACCORDANCE
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QUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY F JBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND C		

Date (mm/dd/yy)

05/24/24

BYPASS / OVERFLOW INCIDENT REPORT

State Form 48373 (R7 / 4-16) Indiana Department of Environmental Management Office of Water Quality

☐ Follow-up to Bypass report
previously sent on:

INSTRUCTIONS:

Complete all parts of this form and email signed copies to <a href="www.www.email.com/www.email.com/www.email.com/www.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.email.com/ww.emai

To report a spill or if the release is resulting in a fish kill or other severe environmental damage, immediately report the release to the Emergency Response Section spill response line at: (317) 233-7745 or toll free within Indiana at (888) 233-7745.

Response Se	ction spill response lin	e at: (317)	233-7745 or to	II free with	in Indiana at (888)	233-7745.					
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Laura Kolo		(574) 293-2572	laura	ı.kolo@coei.or	g	04/20/24	app	x 11:55 am	ı [□PM

Kolo, Laura

From: postmaster@state.in.us

Sent: Saturday, April 20, 2024 11:55 AM

To: Kolo, Laura

Subject:EXTERNAL: Relayed: IN0025674_INC_RPT_04_01Attachments:EXTERNAL: Relayed: IN0025674_INC_RPT_04_01

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BYPASS / OVERFLOW INCIDENT REPORT

State Form 48373 (R7 / 4-16) Indiana Department of Environmental Management Office of Water Quality Follow-up to Bypass report Up 130/24 previously sent on: 07/10/23

INSTRUCTIONS:

Complete all parts of this form and email signed copies to www.eports@idem.IN.gov. Submittal of this report will satisfy the Office of Water Quality (OWQ) telephone and written bypass/overflow reporting requirements of your NPDES permit. Please use and the second page of this form as necessary to identify separate locations caused by the same event. If you have any questions while filling out the report form, please contact Renee Repar at (317) 232-6770 or rrepar@idem.in.gov.

To report a spill or if the release is resulting in a fish kill or other severe environmental damage, immediately report the release to the Emergency Response Section spill response line at: (317) 233-7745 or toll free within Indiana at (888) 233-7745.

GENERAL INFORMATION											
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Elkhart Ρι	ıblic Works		1201 S. I	Nappan	ee Street		El	khart		IN0002	:5674
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(5) Outfall Number	(6) Date <i>(mm/dd/yy)</i> Release Began		(7) Date (mm/dd/yy) Release Stopped		(8) Location of Manhole, Lift S	Release (streets Station, Force Ma	s address or ain etc.)		_atitude g <i>Min Sec)</i>	(9) Longit (Deg Min	
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Laura Kolo	A Lebour (human)		74) 293-2572		i.kolo@coei	i.org	04/29/24			., , , , , , , , , , , , , , , , , , ,	☐ AM ☐ PM

Kolo, Laura

From:

postmaster@state.in.us

Sent:

Monday, April 29, 2024 3:42 PM

To:

Kolo, Laura

Subject:

EXTERNAL: Relayed: IN0025674_INC_RPT_2024_04_02

Attachments:

EXTERNAL: Relayed: IN0025674_INC_RPT_2024_04_02

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Figuring Process Confirmation - CDX Activity ID: _82b80a38-812d-42d9-bdf0-dbe2452ab32d

Your DMRs are undergoing the Signing Process

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second second second second second secon	
IN0025674 ELKHART WWTP 005	005-C	CSO- ARCH/BAR, NW OF INTERSECTION	05/31/24	06/28/24
IN0025674 ELKHART WWTP 006	D-900	CSO- JACKSON, N OF BRIDGE, W OF ELKHART RIVER	05/31/24	06/28/24
IN0025674 ELKHART WWTP 007	007-C	CSO- JACKSON, N OF BRIDGE, E OF ELKHART RIVER	05/31/24	06/28/24
IN0025674 ELKHART WWTP 008	008-C	CSO- HUG/EAST BLVD	05/31/24	06/28/24
IN0025674 ELKHART WWTP 009	D-600	CSO- NIBCO PRKWY - FKA JR. ACHIEVEMENT (Y DR N)	05/31/24	06/28/24
IN0025674 ELKHART WWTP 011	011-C	CSO- ELKHART/FRANKLIN	05/31/24	06/28/24
IN0025674 ELKHART WWTP 012	012-C	CSO- CASSOPOLIS/BEARDSLEY	05/31/24	06/28/24
IN0025674 ELKHART WWTP 013	013-C	CSO- JOHNSON/BEARDSLEY	05/31/24	06/28/24
IN0025674 ELKHART WWTP 014	014-C	CSO- DAM AT CONE/ERWIN	05/31/24	06/28/24
IN0025674 ELKHART WWTP 015	015-C	CSO- MICHIGAN/FULTON	05/31/24	06/28/24
IN0025674 ELKHART WWTP 016	016-C	CSO- DAN @ GOSHEN/SUPERIOR	05/31/24	06/28/24
IN0025674 ELKHART WWTP 017	017-C	CSO- W. BOULEVARD/MCNAUGHTON	05/31/24	06/28/24
IN0025674 ELKHART WWTP 018	018-C	CSO- MCNAUGHTON PARK WEST	05/31/24	06/28/24
IN0025674 ELKHART WWTP 019	019-C	CSO-MICHIGAN @ RVR, S. OF LEX.	05/31/24	06/28/24
IN0025674 ELKHART WWTP 020	020-C	CSO- BRIDGE AND HUDSON	05/31/24	06/28/24
IN0025674 ELKHART WWTP 023	023-C	CSO- FRANKLIN/8TH	05/31/24	06/28/24
IN0025674 ELKHART WWTP 024	024-C	CSO- INDIANA/FRANKLIN	05/31/24	06/28/24
IN0025674 ELKHART WWTP 025	025-C	CSO- POTTAWATOMI/SECOND	05/31/24	06/28/24
IN0025674 ELKHART WWTP 026	026-C	CSO- MAIN/POTTAWATOMI	05/31/24	06/28/24
IN0025674 ELKHART WWTP 027	027-C	CSO- EDGEWATER/NAVAJO	05/31/24	06/28/24
IN0025674 ELKHART WWTP 028	028-C	CSO- WASHINGTON AT RIVER	05/31/24	06/28/24
IN0025674 ELKHART WWTP 029	029-C	CSO- JEFFERSON AT THE RIVER	05/31/24	06/28/24
IN0025674 ELKHART WWTP 031	031-C	CSO- ELIZABETH/LUSHER	05/31/24	06/28/24
IN0025674 ELKHART WWTP 032	032-C	CSO- EDGEWATER/OKEMA	05/31/24	06/28/24
IN0025674 ELKHART WWTP 033	033-C	CSO- EVANS/GRACE	05/31/24	06/28/24
IN0025674 ELKHART WWTP 034	034-C	CSO- LEXINGTON/6TH	05/31/24	06/28/24
IN0025674 ELKHART WWTP 035	035-A	20 MGD CLASS IV ACTIVATED SLUDGE - TO ST JOSEPH RIVER	05/31/24	06/28/24
IN0025674 ELKHART WWTP 037	037-C	CSO- FRANKLIN/KRAU	05/31/24	06/28/24
IN0025674 ELKHART WWTP 039	D-6E0	CSO- WEST HIGH AT RIVER	05/31/24	06/28/24
IN0025674 ELKHART WWTP 040	040-C	CSO- MCNAUGHTON PARK SOUTH	05/31/24	06/28/24

NPDES eReporting Help Desk: NPDESeReporting@epa.gov | 877-227-8965 (9:00am - 8:00pm EST) Contact Us to ask a question, provide feedback, or report a problem.

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Form Approved OMB No. 2040-0004 expires on 07/31/2026

Permit

Permittee Address: Major: ELKHART WWTP IN0025674 Permit ID: Permittee: 1201 S NAPPANEE ST ELKHART , IN46516 Facility Location: **ELKHART WWTP** Facility:

229 SOUTH 2ND ST ELKHART , IN46516

035-A - 20 MGD CLASS IV ACTIVATED SLUDGE - TO ST JOSEPH RIVER Discharge: 035 - External Outfall Permitted Feature:

Report Dates & Status

06/28/24 DMR Due Date: From 05/01/24 to 05/31/24 Monitoring Period:

NetDMR Validated Status:

Considerations for Form Completion

THE FLOW METER(S) SHALL BE CALIBRATED AT LEAST ONCE EVERY TWELVE MONTHS. REPORT QUARTERLY PARAMETERS ON 035-AQ NETDMR. MUNICIPAL MAJOR ELKHART COUNTY

Principal Executive Officer

X S S Last Name: Laura First Name:

574-293-2572 Telephone: Utility Services Manager

No Data Indicator (NODI)

Title:

Form NODI:

	ı	;	:			•	:		4	City Car	. i
Code Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units	5 ₩	Sisking	2
00300 Oxygen, dissolved [DO]	Smpl.			=8,4				19 - mg/L	0	01/01 - Daily	3R - 3GR24H
1 - Effluent Gross										0	٠ ، ،
Season: 0	Req.			>= 4 .	>=4.0 DLYAVMIN			19 - mg/L		UI/UI - Daily	3K - 3GR24H
NODI: -	NODI			:							
00400 pH 1 - Effluent Gross	Smpl.			=7.0			=7.6	12 - SU	0	01/01 - Daily	GR - GRAB
Season: 0	Req.			\ \ 	>=6.0 DAILY MN		<=9.0 DAILY MX	12 - SU		01/01 - Daily	GR - GRAB
NODI: -	NODI					:			\$		
Solids, total suspended	Smpl.	=713.0	=1205.0	26 - Ib/d		=5.0	=8:0	19 - mg/L	0	01/01 - Daily	24 - COMP24
	Req.	<=7511.0 MO AVG	<=11266.0 MX WK AV	26 - Ib/d		<=30.0 MO AVG	<=45.0 MX WK AV	19 - mg/L		01/01 - Daily	24 - COMP24
NODI: -	MODI										
00600 Nitrogen, total [as N] 1 - Effluent Gross	Smpl.	=2174.0		26 - Ib/d	÷	=15.6		19 - mg/L	0	01/30 - Monthly	24 - COMP24
Season: 0	Req.	Req Mon MO AVG		26 - lb/d		Req Mon MO AVG		19 - mg/L		01/30 - Monthly	24 - COMP24
NODI: -	NODI										
00610 Nitrogen, ammonia total [as N] 1 - Effluent Gross	Smpl.	=22.0	=251.8	26 - lb/d		=0.16	=1.28	19 - mg/L	0	01/01 - Daily	24 - COMP24
Season: 1	Req.	<=1051.0 MO AVG	<=2478.0 DAILY MX	26 - Ib/d		<=4.2 MO AVG	<=9.9 DAILY MX	19 - mg/L		01/01 - Daily	24 - COMP24
NODI: -	NODI										
00665 Phosphorus, total [as P] 1 - Effluent Gross	Smpl.	=86.0		26 - lb/d		=0.58		19 - mg/L	0	01/01 - Daily	24 - COMP24
Season: 0	Req.	Req Mon MO AVG		26 - lb/d		<=1.0 MO AVG		19 - mg/L		01/01 - Daily	24 - COMP24
NODI: -	NODI			·							
01079 Silver total recoverable 1 - Fffluent Gross	Smpl.	<0.033	<0.035	26 - lb/d		<0.0002	<0.0002	19 - mg/L	0	01/07 - Weekiy	24 - COMP24

	ı		•								
Code Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units	E		, ,
Season: 0	Req.	<=0.063 MO AVG	<=0.13 DAILY MX	26 - lb/d		<=0.00038 MO AVG	<=0.00077 DAILY MX	19 - mg/L	01/07 - Weekiy		24 - COMP24
NODI: -	NODI								:	-	
01079 Silver total recoverable G - Raw Sewage Influent	Smpl.					<0.0003	=0.00054	19 - mg/L 0	01/07 - Weekly	-	24 - COMP24
Season: 0	Req.					Reg Mon MO AVG	Req Mon DAILY MX	19 - mg/L	02/3 Twice Mont	02/30 - 2 Twice Per C	24 - COMP24
NODI: -	NODI	:									
50050 Flow, in conduit or thru treatment plant	Smpl.	=17.807		03 - MGD				0	01/01 Daily		TM - TOTALZ
1 - Effluent Gross											
Season: 0	Req.	Req Mon MO AVG		03 - MGD				•	01/01 · Daily		TM - TOTALZ
NODI: -	NODI										
51041 E. coli, colony forming units [CFU]	Smpl.					=10.0	=29.0	32 - CFU/100mL ⁰	01/01 Daily	ı	GR - GRAB
1 - Effluent Gross											
Season: 1	Req.					<=125.0 MO GEO	<=235.0 DAILY MX	3Z - CFU/100mL	01/01 Daily		GR - GRAB
NODI: -	NODI									,	
80082 BOD, carbonaceous [5 day, 20 C]	Smpl.	=334.0	=493.0	26 - lb/d		=2.0	=3.0	19 - mg/L 0	01/01 Daily	1	24 - COMP24
1 - Effluent Gross											
Season: 0	Req.	<=6259.0 MO AVG	<=10014.0 MX WK AV	26 - Ib/d		<=25.0 MO AVG	<=40.0 MX WK AV	19 - mg/L	01/01 Daily		24 - COMP24
NODI: -	NODI								-		
81012 Phosphorus, total percent removal	Smpl.			=80.3).3			23 - % 0	01/30 - Monthly		CA - CALCTD
K - Percent Removal	**************************************										
Season: 0	Req.) 	>=75.0 MO AV MN			23 - %	01/30 - Monthly		CA - CALCTD
NODI: -	NODI									:	
82220 Flow, total	Smpl.		=552.0	80 - Mgal/mo				J	0 01/30 - Monthly		RT - RCOTOT

TVD		RT - RCOTOT	
Analysis Type		01/30 - F Monthly F	
ų	Ä		
	Units		
1	Value 3		
	Value 2		
	Value 1		
	Units	80 - Mgal/mo	
•	Value 2	Reg Mon MO TOTAL	
•	Value 1		
ı		Req.	NODI
1	Name	0	
	Code	Season: 0	NODI: -

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

Name	Type	Size
IN0025674_035a_MRO_2024_05.pdf	pdf	1021827.0
IN0025674_CSO_MRO_2024_05.pdf	pdf	1122524.0
IN0025674_INC_RPT_2024_05_1.pdf	pdf	262298.0
IN0025674_INC_RPT_2024_05_2.pdf	pdf	529493.0
IN0025674_INC_RPT_2024_05_3.pdf	pdf	127464.0
IN0025674_INC_RPT_2024_05_4.pdf	pdf	117377.0
IN0025674_INC_RPT_2024_05_5.pdf	pdf	684808.0
IN0025674_INC_RPT_2024_05_6.pdf	pdf	740960.0

Report Last Saved By

ELKHART WWTP

Laura Kolo Payton88 Name: User:

2024-06-28 09:26 (Time Zone:-04:00) laura.kolo@coei.org

Report Last Signed By

Date/Time:

E-Mail:

Laura Kolo

Payton88

2024-06-28 09:44 (Time Zone:-04:00) laura.kolo@coei.org

Date/Time:

E-Mail: Name: User:



MONTHLY REPORT OF OPERATION ACTIVATED SLUDGE TYPE WASTEWATER TREATMENT PLANT

State Form 10829 (R4 / 01-20)

Name of Facility			Permit Nur	nber				
Elkhart			IN0025	674				
Month	Year	Plant Desi	gn Flow	Telephone	Number			
Мау	2024	20.00	mgd	2572				
E-mail address:	laura.kolo@c	oei.org			035 A			
Certified Operator. N	lame	Class	Certificate	Number	Expiration Date			
Laura E Kolo		1 1/2	150	0/2027				

·		,								Laura E.	Kolo			IV	150	94	06/3	30/2027
				Total=			CH	IEMICA	LS									
				6.19				USED					RAW	SEWA	GE			
Day Of Month	Day of Week	Man-Hours at Plant (Plants less than 1 MGD only)	Air Temperature (optional)	Precipitation - Inches	Bypass At Plant Site("x" If Occurred)	Sanitary Sewer Overflow("x" If Occurred)	Chlorine - Lbs/day	Ferric Chloride Lbs/Day or Gal./Day	Lbs/Day or Gal./Day	Influent Flow Rate (if metered) MGD	Hd	CBOD5 - mg/l	CBOD5 - lbs/day	Susp. Solids - mg/l	Susp. Solids - Ibs/day	Phosphorus - mg/l	Ammonia - mg/l	
1	Wed							228		12.967	7.3	99	10,706	104	11,247	3.29	18.68	
2				0.04				200		12.975	7.5	121	13,094	106	11,470	3.21	18.84	
3	Fri			0.31		Х		240		15.967	7.1	111	14,781	214	28,497	3.62	17.84	
4				0.70				225		13.208	7.3	84	9,253	102	11,236	2.70	16.40	
5	Sun			0.30				228		17.141	7.3	86	12,294	100	14,296	2.18	10.92	
6								228		13.358	7.2	96	10,695	114	12,700	2.65	15.32	
7	Tue			0.51		Х		180		15.558	7.3	101	13,105	96	12,456	3.48	17.40	
8				0.04				213		13.167	7.2	95	10,432	104	11,421	2.87	19.44	
9				0.65				220		19.242	7.5	114	18,295	160	25,677	3.40	19.04	
10				0.01		х		222		14.658	7.3	74	9,046	104	12,714	3.26	23.68	
11	Sat			0.17				220		13.400	7.3	81	9,052	72	8,046	2,50	15.12	
12	Sun						•	198		12.650	7.2	84	8,862	64	6,752	2.09	13.32	
13				0.18				228		15.467	7.2	130	16,769	206	26,573	2.88	17.32	
14				0.68				228		15.642	7.2	97	12,654	128	16,698	2.37	20.52	
15				0.17				182		15.908	7.3	105	13,931	126	16,717	2.46	15.24	
16				0.13				212		14.542	7.4	112	13,583	120	14,554	3.01	18.80	
17	Fri			0.01				234		14.325	7.0	134	16,009	116	13,859	2.86	22.48	
18				1				200		13.325	7.3	91	10,113	90	10,002	2.79	16,20	
19				1				228		13.183	7.2	83	9,126	102	11,215	1.91	12.56	
20				0.32				334		13.700	7.2	166	18,967	226	25,822	3.98	16.40	
21	Tue			0.01				001		14.683	7.4	131	16,042	186	22,777	3.51	18.60	
22	Wed			0.01				223		13.192	7.3	79	8,692	118	12,983	2.34	19.50	
23	Thu							200		13.433	7.4	127	14,228	150	16,805	3.43	19.60	
24	Fri			0.03				200		13.492	7.6	118	13,278	116	13,053	3.75	19.10	
25				1 0.00				220		13.708	7.3	88	10,061	108	12,347	2.91	15.70	
26				0.50				202		15.683	7.4	86	11,248	102	13,341	3.09	10.50	
27				0.69				200		17.383	7.2	57	8,264	100	14,497	3.02	9.72	
28	Mon			0.38				202		14.717	7.1	88	10,801	126	15,465	2.69	15.10	
29				0.36				213		17.875	7.8	109	16,249	168	25,045	2.80	10.70	
30	Thu			0,00				213		14.417	7.8	95	11,423	106	12,745			
21	Fri						<u>-</u>	213		14.583	7.0	77	9,365	100	12,405	3.01	14.00	
		l		0.29				218		14.631	7.0		12,272	124	15,271		-	
Ave				0.29				334			70	101 166				2.95	16.51	
	imum			0.70				180		19.242 12.650	7.8 7.0	57	18,967 8264	226 64	28,497 6752	3.98 1.91		
IVIIN	mum			1 0.01				100		12,000	7.0	<i>υι</i>	0204	04	0/02	1.91	9.72	
								10										
# of			C		0		0	30	0	31	31	31	31	31	31	31	31	0
		tify under prepared								Prepared by	or under	the directio	n of (Certifie	d Operato		Date (mo	onth, day,	year)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

6/28/2

Signature of principal executive officer or authorized agent (or attested by NetDMR subscriber agreement)

Date (month, day, year)

6/28/24

MONTHLY REPORT OF OPERATION ACTIVATED SLUDGE TYPE WASTEWATER TREATMENT PLANT

State Form 10829 (R4 / 01-20)			
Name of Facility	Permit Number	Month	Year
		World	1041
I			
Elkhart	IN0025674	Mav	l 2024

						,												
	PRIMA				AE	RATIO	V	r		SECON			F	INAL E	FFLUE	ENT		
	EFFLUE	ENT	MIXED LI	QUOR				RETURN S	LUDGE	EFFLUE	ENT		-					
Day Of Month	CBOD5 - mg/l	Susp. Solids - mg/l	Settleable Solids % in 30 minutes	Susp. Solids - mg/l	Sludge Vol. Index - ml/gm	Dissolved Oxygen - mg/l	Temperature - F	Volume - MG	Susp. Solids - mg/l	CBOD5 - mg/l	Susp. Solids - mg/l	Residual Chlorine - Final	Residual Chlorine - Contact Tank	E. Coli - colony/100 ml	pH - daily low (or single sample)	pH - daily high (if multiple samples)	Dissolved Oxygen - mg/l	Oil & Grease (mg/l)
1	74	53	126	3,284	38	5.4	15	6.487	5,420					17	7.0		9,5	
2	86	57	118	3,560	33	5.4	16	6.487	5,940					16	7.0		9.6	
3	74	80	138	2,532	55	5.8	16	6.478	5,800					14	7.3		9.5	
4	60	61	143	2,692	53	6.0	16	6.478	5,580					29	7.0		9.6	
5	57	53	146	2,804	52	5.9	16	6.478	5,920					25	7.3		9,5	
6	73	79	135	2,728	49	6.0	16	6.487	5,820					20 14	7.6 7.6		9.9 9.5	
7	69 65	69 53	147	2,648	56	5.5 5.8	16 16	6.487	6,040 6,020					15	7.0		9.5	
8	77	72	136 132	3,204 3,256	42 41	5.8	15	6.487 6.478	6,880					10	7.0		10.1	
10	57	58	149	2,568	58	5.6	16	6.487	6,580					8	7.3		9.6	
11	57	41	150	2,620	57	6.6	15	6.487	6,180					8	7.0		9,8	
12	58	39	138	2,780	50	6.3	16	6.487	6,360					5	7.5		10.6	
13	69	82	141	2,732	52	5.9	16	6.487	6,920					10	7.5		9.4	
14	56	60	122	3,424	36	5.4	16	6.478	6,400					8	7.4		9.3	
15	74	63	151	2,624	58	5.3	16	6.536	6,460					12	7.3		9.6	
16	78	59	156	2,688	58	5.0	16	6.379	6,320					8	7.0		9.5	
17	83	61	150	2,792	54	5.7	16	6.478	6,720					8	7.4		9.6	
18	64	48	158	2,656	59	6.4	16	6.483	6,300	·····				6	7.0		9.7	
19	53	37	158	2,824	56	5.0	16	6.487	5,980					4	7,5		9.2	
20	77	68	156	2,872	54	4.8	17	6.487	5,640					5	7.3		9.0	
21	77	86	148	2,352	63	4.0	17	6.487	5,600					18	7.4		8.4	
22	60	51	140	3,392	41	3.8	18	6.487	6,380					8	7.0		8.8	
23	83	73	142	3,796	37	3.5	17	6.478	5,140					11	7.0		8.8	
24	81	56 52	170 171	2,840	60	4.1	17 17	6.478 6.474	5,320					10 6	7.0 7.0		8.6 8.8	
25 26	60 56	52	164	3,052 2,980	56 55	4.6 3.8	16	6.487	6,560 6,800					8	7.5		8.8	
27	42	57	130	3,004	43	4.6	17	6.487	6,900					15	7.1		8.5	
28	68	61	160	2,936	54	3.6	17	6.487	6,080					7	7.5		8.5	
29	68	80	151	2,544	59	4.4	17	6.487	7,520					8	7.2		8.4	
30		55	165	3,028	55	4.2	17	6.487	6,180					10	7.0		8.8	
31	59	55	168	2,796	60	4.60	17	6.487	5,740					12	7.3		8.7	
Avg.	68	60	147	2,903	51	5.1	16	6.482	6,177					11	75.00		9.3	
Max		86	171	3,796	63	6.6	18	6.536	7,520					29		7.6	10.6	
Min.	42	37	118	2352	33	3.5	15	6.379	5140					4		7.00	8.4	
	/ Max													29				
# of	Days ab	ove 235		100										0				
Data	31	31	31	31	31	31	31	31	31	0	0	1	0	31	31	0	31	0

Comments for the Month (major repairs, breakdowns, process upsets and their causes, inplant treatment process bypass, etc.): ferric chloride is being used for po4 removal, not ferrous chloride

MONTHLY REPORT OF OPERATION ACTIVATED SLUDGE TYPE WASTEWATER TREATMENT PLANT

State Form 10829 (R4 / 01-20)			
Name of Facility	Permit Number	Month	Year
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Elkhart	1110005074		0004
Cikilait	IN0025674	May	2024

	1	<u> </u>					Е	INAL EFI	EL LIENIT								
		Flow		BOD			F			d Solids	•	Ammon	ia			Phosph	OTHE
				סטט				Total St	isheiine	u Sonus	.	Aitiiiioii	ııa			riiospi	orus
Day Of Month	Day of Week	Effluent Flow Rate (MGD)	Effluent Flow Weekly Average	CBOD5 - mg/l	CBOD5 - mg/l Weekly Average	CBOD5 - lbs/day	CBOD5 - lbs/day Weekly Average	Susp. Solids - mg/l	Susp. Solids - mg/l Weekly Average	Susp. Solids - Ibs/day	Susp. Solids - Ibs/day Weekly Average	Ammonia - mg/l	Ammonia - mg/l Weekly Average	Ammonia - Ibs/day	Ammonia - Ibs/day Weekly Average	Phosphorus - mg/l	Phosphorus - Ibs/day
1	_	15.852		3		397		5		687		0.05		6.6		0.62	82
2	Thu	16.267		3		407		8		1,140		0.07		9.5		0.64	87
3	3 Fri	19.674		3		492		10		1,674		0.06		9.8		0.72	118
4	Sat	15.808	18.158	2	3.14	264	493	7	7.89	897	1,205	0.05	0.05	6.6	8	0.53	70
5	Sun	20.024		4		668		12		2,004	• • • • • • • • • • • • • • • • • • • •	0.06		10.0		0.51	85
6	Mon	16.710		2		279		4		502		0.05		7.0		0.40	56
7	Tue	20.472		3		512		5		871		0.14		23.9		0.44	75
8	Wed	16.124		2		269		4		471		0.07		9.4		0.42	56
5		23.585		3		590		5		1,023		1.28		251.8		0.63	124
10) _{Fri}	17.138		2		286		4		529		0.08		11.4		0.49	70
11		16.180	18.605	2	2,57	270	411	4	5.24	486	841	0.05	0.25	6.7	46	0.59	80
12		15.438		2		258		2		283	***************************************	0.04		5.2		0.58	75
13		17.877		2		298		4		611	*	0.07		10.4		0.54	81
14		21.140		2		353		4		705		0.10		17.6		0.37	65
15		17.627		2		294		4		515		0.11		16.2		0.38	56
16	Thu	18.068		2		301		3		497		0.06		9.0		0.41	62
17	Fri	16,199		2		270		4	- 11 -	540		0.06		8.1		0.46	62
18		15.362	17.387	2	2.00	256	290	4	3,53	461	516	0.05	0.07	6.4	10	0.48	61
19		14.998		2		250	***************************************	3		413		0.04		5.0		0.57	71
20		19.227		2		321	-	4		561		0.05		8.0		0.51	82
21	141011	16.906		2		282		4		564		0.30		42.3		0.56	79
22		15.989		2		267		3		453		0.29		38.7		0.67	89
	3 Thu	15.391		2		257		4		552		0.22		28.2		0.61	78
24		15,924		2		266		4		584		0.14		18.6		0.72	96
25	+	14.498	16,133	2	2.00	242	269	4	3.87	508	519	0.07	0.16	8.5	21	0.94	114
	Sun	18.228		2		304		4		623		0.14		21.3		0.91	138
27	Mon	23.033		2		384		6		1,133		0.07		13.4		0.76	146
28		20.741		2		346		4		761		0.14		24.2		0.67	116
	Wed	23.223		2		387		4		852		0.16		31.0		0.59	114
	Thu	17.363		2		290		4		623		0.09		13.0		0.62	90
	Fri	16.949	19.767	2	2.00	283	330	4	4.59	565	763	0.68	0.10	5.7	16	0.68	96
Avg		17.807		2		334		5		713		0.16		22.0		0.58	86
Max		23.585	19.767	4		668	493	12	7.89	2,004	1,205	1.28	0.25	251.8	46	0.9	146
Min		14.498	16.133	2	2.00	242	269	2	3.53	283	516	0.04	0.05	5.0	8	0.4	56
						0.4		24		04		94	i i i i i i i i i i i i i i i i i i i		,		
Dat	a	31	5	31	5	31	5	31	5	31	5	31	5	31	5	31	31

	MONTHLY	REMOVAL SUMI	WARY		Total Monthly Flov	v:
Percent Removal	BOD5	S.S.	Ammonia	Phosphorus	(million gallons)	552
Primary Treatment	32.64	51.2				
	NA	NA			Percent Capacity	
Secondary Treatment	96.7	92.3			(actual flow/design)	89%
Overall Treatment	97.79	96.2	99.1	80.3		
Phosphorus limit would be		70 % removal.	(compliance	achieved)		

Page 3 of 6

MONTHLY REPORT OF OPERATION ACTIVATED SLUDGE TYPE WASTEWATER TREATMENT PLANT

State Form 10829 (F	R4 / 01-20)		
Name of Facility	Permit Number	Month	Year
Elkhart	IN0025674	May	2024

Likilait		11400236	//	IVIE	ау	20.	<u> </u>								
	SLUDG	E TO				DIG	STED (OPERAT	ION						
	DIGEST		Angoro	bic Only		اقاط	JOILK	JELNAI	IOIV	İ		T		T	
			Milaelo		L	awn	mg/l	jing	ited	ming	ssted	ıdrawn			
Day Of Month	Primary SludgeGal. x 100	Waste Act. Sludge Gal. x 1000	Hd	Gas Production Cubic Ft. x 1000	Temperature ~ F	Supernatant Withdrawn hrs. or Gal. x 1000	Supernatant BOD5 mg/l or NH3-N mg/l	Total Solids in Incoming Sludge - %	Total Solids in Digested Sludge - %	Volatile Solids in Incoming Sludge - %	Volatile Solids in Digested Sludge - %	Digested Sludge Withdrawn hrs. or Gal. x 1000			
1	41.35	249.12	7.0		84	10.611		3.47	2.02	75.00	59.48	118.93		<u> </u>	
2	46.30	249.12	7.1		85	7.074		1.22	2.05	76.70	58.44	123.71		<u> </u>	
3	56.34	249.12	7.1		86			3.62	2.02	73.66	60.53	80.27		ļ	
4	66.31	249.12	7.2		87	0.000		3.39	2.02	72.15	61.03			ļ	
5	57.84	249.12	7.1		87	3.537		5.19	2.04	72.26	59.15	111		<u> </u>	
6	45.61	249.12	7.1		87			3.38	2.16	76.26	60.12	111.25		<u> </u>	
7	56.56	249.12	7.2		89	3.537		4.34	2,11	75.31	58.49	407.00		ļ	
8	51.00	249.12	7.1		88	7.074		6.02	2.15	71.50	58.67	107.88		₩	
9	43.22	249.12	7.2		87	7.074		4.38	2.15	73.92	58.29	99.55		ļ	
10	78.09	249.12	7.3		88			3.30	2.10	73.63	58.24	36.44		ļ	
11	50.04	249.12	7.1		90	7.074		3.84	2.21	75.72	61.48			ļ	
12	15.94	249.12	7.0		92	17.685		3.32	2.09	79.31	58.64	100.10		<u> </u>	
13	32.85	249.12	7.0		90	35.370		5.05	1.89	80.83	58.46	122.48			
14	47.55	247.68	7.1		91	7.074		3.32	2.01	78.81	57.22	121.44			
15	52.91	249.12	7.0		91	21.222		5.34	1.97	73.28	59.17	127.97			
16	47.66	247.68	7.2		89	14.148		1.98	1.98	75.00	58.33	124.14		-	
17	55.77	249.12	7.2		92	10.611		5.81	1.97	76.52	56.92	68.77		ļ	
18	46.39	223.20	7.2		93	35.370		5.08	1.97	74.41	57.43			ļ	
19	48.61	216.00	7.3		94	38.907		3.01	2.06	79.15	59.22	400.04			
20	39.04	216.00	7.3		94	31.833		2.45	2.02	77.78	58.28	129.84			
21	46.98	216.00	7.3		94	14.148		3.40	1.94	76.73	58.27	129.54		ļ	
22	52.61	216.00	7.2		94	21,222		3.55	1.94	73.52	57.14	125.40		ļ	
23	40.95	216.00	7.3		94	40.044		4.49	1.88	75.93	57.66	130.19		 	
24	39.27	216.00	7.2		95	10.611		2.41	1.96	78.26 77.12	56.92	69.50			
25	32.60	216.00	7.2		95	10,611		4.66	1.89	75.64	58.03				
26	23.45	216.00	7.3 7.3		95 95	17.685		3.19	1.98		59.09 57.43	0.00		 	
27	28.63 28.37	216.00 216.00	7.3			0.000 10.611		6.69 5.51	2.00 1.94	69.72 71.14	55.10	128.42		 	
28 29		216.00	7.2		95 95	110,01		4.35	2.00	78.82	57.79	74.30			
					95	24 750		6.25		75.56	57.45			 	
30	30.45 40.84	216.00 216.00	7.2 7.0		95	24.759 14.148		5.81	1.95 2.02	74.35	58.02	130.33 65.05		 	
	44.41	234,30	<i>1</i> .U		91	14.148		4.12	2.02	75.42	58.40	101.15		 	
Avg.	78.09	249.12	7.3		95	38.907		6.69	2.02	80.83	61.48	130.33		 	
Max.	15,94	216.00	7.0		84	0.000		1.22	1.88	69.72	55.10	0.00			
Min.	10,54	210,00	7.0		04	0.000		1.22	1,00	03.12	55,10	0.00			
		,													
Data	31	31	31	0	31	26	0	31	31	31	31	22	0	<u></u>	0

Once completed, this form should be converted to a pdf document, named appropriately & attached to the corresponding netDMR for submittal

MONTHLY REPORT OF OPERATION ACTIVATED SLUDGE TYPE WASTEWATER TREATMENT PLANT

State For Name of F	m 10829 (F acility	R4 / 01-20) Permit Numb	er	Month		Year										
Elkhart		 IN00256	574 .	Ma	av	20	24									
				State Form												
		Final	Effluent													
	Chlo	ride	Total N	litrogen	and an arrange of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of	,										
Day Of Month	Chloride - mg/l	Chloride - Ibs/day	Total Nitrogen- mg/l	Total Nitrogen- lbs/day	Ag - Influent mg/l	Ag - Effluent mg/L	Cd - Influent mg/L	Cd - Effluent mg/L	CN - Influent mg/L	CN - Effluent mg/L	Cr - Influent mg/L	Cr - Effluent mg/L	Cu - Influent mg/L	Cu - Effluent mg/L	Hg - Influent ng/L	Hg - Effluent ng/L
2																
3																
4																
5 6			15.60	2,174										<u> </u>	13.3000	0 9700
7			13.00	2,174	0.0002	0.0002	0.0002	0.0002			0.0035	0.0020	0.0415	0.0079	13.3000	0.3700
8					0.0002	0,0002	0.0002	0.0002			0.0000	0.0020	0.0110	10.0010		
9																
10																
11																
12														ļ		
13 14					0.0005	0.0002										
15					0.0000	0.0002										
16																
17																
18																
19 20					0.0003											
21	180	25,379			0.0003	0.0002										
22						0.000										
23																
24																
25																
26 27														-		
28					0.0002	0.0002										
29																
30																
31								0.000					0011=		10.5	
Avg.	180	25,379	15.60	2,174		0.0002 0.0002								0.0079	13,3000 13,3000	
Max. Min.	180 180	25,379 25,379	15,60	2174		0.0002								0.0079		
IVIII I.	100	20,013	10,00	4117	10.0002	0.0002	3,0002	0.0002	L		10.0000	0.0020	10.0410	10,0070	15,5550	0.0700
									30							
Data	1	1	1	1	4	4	1	1	0	0	1	1	1	1	1	1

WASTEWATER TREATMENT PLANT

Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Substitute for State Form 30530 Subs	State I Name of		Permit Numb		Month		Year	
Substitute for State Form 30530	Elkhar	t	IN00256	574	М	ау	20	24
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	Elkhart									Page	1 of	9		P	erm	iit Number:	INC	025574	
Facility:	Elkhart P	ublic Wor	ks & Utilitie:	s							F	oublic No	tific	ation Requi	rem	ents Met?	Υ		
Monitor	ing Period		May	2024							E	nter "x" i	f no	CSO disch	arg	e occurred	for	he month:	
Design	Peak Hour	ly Flow (N	/IGD):	44	Design Av	erage Flow	(MGD):	20		Measured/	Met	ered (M) o	or E	stimated (E) mı	ust be spec	ifie	j	
WWT	Influent	Data		Pre	ecipitation [Data			С	SO Outfall	No.	005			С	SO Outfall	No.	006	
Day of Month	Average Dally Flow (MGD)	Peak Hourly Flow (MGD)	Time Precip. Began (am/pm)	Precip. Duration (Hours)	Total Daily Precip. (Inches)	Peak Intensity (Inch/hr)	Measureme nt Interval (hr, 30 m, 15 m)	Time Discharge Began	M or E	Event Duration (Hours)	M or E		M or E	Discharge	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1	15.85	25.51					15 min												
2	16.27	26.45	5:06 PM	0.63	0.04	0.12	15 min												
3	19.67	37.83	12:51 AM	7.55	0.31	0.60	15 min												
4	15.81	41.93	11:36 PM	0.47	0.70	2.60	15 min				Γ			11:52 PM	м	0.17	м	0,0292	м
5	20.02	46,60	12:01 AM	1.72	0,30	0.40	15 min							12:02 AM	м	0.25	м	0,0396	М
-6	16.71	26,08					15 min												1
7	20,47	42.72	10:44 AM	13.03	0,51	0,08	15 min												
8	16,12	21.68	12:01 AM	3,08	0.04	0.04	15 min												
9	23.59	50,09	5:56 AM	15.97	0.65	0,36	15 min												
10	17.14	22.91	3:26 AM	0.08	0.01	0.04	15 min												
11	16,18	26.06	2:51 AM	3.58	0.17	0,20	15 min												1
12	15.44	18,30					15 min				Ī							~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1
13	17.88	32.66	3:06 PM	4.75	0,18	0,32	15 min												1
14	21.14	42.99	3:11 AM	20,80	0,68	0,08	15 min							2:52 PM	м	0,08	м	0.004	М
15	17,63	29,06	12:01 AM	8,50	0.17	0.04	15 min												
16	18.07	35,26	6:11 PM	1.80	0.13	0.12	15 min												
- 17	16.20	18.95	6:21 AM	4.83	0,01	0.04	15 min				<u> </u>								
18	15.36	18.72				712.1	15 min												
19	15.00	17.76					15 min												
20	19.23	38,85	7;31 PM	4.50	0.32	0,36	15 min												
21	16,91	22,79	12:31 AM	6.92	0.01	0.04	15 min												
22	15,99	19.12					15 min				1								
23	15.39	20.67					15 min												
24	15.92	25,13	8:44 PM	0.37	0.03	0,08	15 min						П						
25	14,50	17.92					15 min						П						T
26	18.23		2;36 PM	2,17	0,50	0.32	15 min				Г			2:57 PM	м	0.08	м	0	М
27	23.03	47.28	12:19 AM	20.37	0.69	0,96	15 min				Γ			2:02 AM		0,67	м	0,206	М
28	20.74	47.58	12:16 AM	22.05	0,38	0,32	15 min				Π		П						
29	23.22	46.88	12:56 AM	10.75	0,36	0,28	15 min		П		Г		П						
30	17.36	22.47					15 min												
31	16,95	19.30					15 min				Γ								Ī
Totals:	552,02			153,92	6,19			0	Da ys	0.00		0		5	Da ys	1,25		0.2788	



National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

	DEPARTME Elkhart	141 C	JE ENVIRC	MAINT	INTAL MAN	VAGI	EMENT		•				Page 2	2 of	9			ern	nit Number:	IN	0025574			
(elession	Elkhart P	ubli	c Works	& L	Itilities											tific	d Made Strike		nents Met?	3				
	ring Period:			May) discharge	100	curred f	or th	ne month	3
	Peak Flow				44		Design Fl	ow	(MGD):		20		Measured/	Met					ust be spec					
			O Outfall		007				O Outfall	No.	008				O Outfall	1000	}				SO Outfal	l No.	011	
Day of	Time Discharge	M	Event	м	Event Discharge	M	Time Discharge	М	Event Duration	М	Event	M	Time Discharge	м	Event	м	Event Discharge	M	Time Discharge	М	Event		Event Discharge	e M
Month	Began		(Hours)		(MG)	Ε			(Hours)		(MG)	E	Began		(Hours)			E	Began		(Hours)	or E	(MG)	or
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5	12:11 AM	М	0.58	М	0.0899	М	12:04 AM	М	80,0	М	0.0010	М	12:20 AM	М	0.42	М	0.0181	М	12:00 AM	M	0.25	М	0.0222	M
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Γotals:	2	Da ys	2.00		0,3250		3	Da ys	0,41		0.0178		2	Da ys	1.49		0,0651		3	Da ys	0.83		0.0791	



National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-16) DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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	Elkhart	la I !	\A/ule	0 1	IATITAL								rage.							9	0020014			
	Elkhart P	(CH2)		May										PL					nents Met? discharge		ourod f	or th	a month:	1
	Peak Flow				44		Design Fl	0141	(MGD):		20	1,01	Moscuradi	RAGE					nust be sp			O, II	e monta.	
Design					012	150	STATE OF STREET		O Outfall	N-			988486888		Outfall	grafia.	14B	<u>-, , , , , , , , , , , , , , , , , , , </u>	nust be spi		SO Outfal	LNA	015	1000
			Outfall	NO.	012			Lo	J Outran	NO.	013) Outrain	NO.	140			Ī	SO Outrai	I NO.	010	T
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)		Event Discharge (MG)	M or E	Discharge	M or E			Discharge	M or E	Discharge	М 67 Е	Event Duration (Hours)	M or E	Discharge	M or E	Discharge	M or E	Duration			N o E
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7	5:17 PM	м	0.33	М	0.0102	М							<u> </u>						5:25 PM	М	0.42	М	0.0068	М
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) ENT OF ENVIRONMENTAL MANAGEMENT

City:	Elkhart												Page 4	1 of	9		η	ern	nit Number:	IN	0025574			
acility:	Elkhart P	ublic	Works	& U	tilities									P	ublic Not	ifice	ition Requ	iren	nents Met?	Υ				
Monitor	ing Period:			May	2024										Ent	er"	x" if no C	so	discharge	ОС	curred fe	or th	e month	1
Design	Peak Flow	(Hou	ırly) (MGI	D):	44		Design Fl	ow	(MGD):		20		Measured/	Met	ered (M) o	or E	stimated (E) m	ust be spec	ifie	d			
		CS	Outfall	No.	016			cs	O Outfall	No.	017			cs	O Outfall	No.	018			CS	O Outfal	l No.	019	100 A
Day of Month	Time Discharge		Event Duration (Hours)		Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)		Event Discharge (MG)	M or E	Time Discharge Began		Event Duration (Hours)		Event Discharge (MG)	M or E	Time Discharge Began	M or E			Event Discharg (MG)	e N
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) NT OF ENVIRONMENTAL MANAGEMENT

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City:	Elkhart												Page 8	of	9	3400	1	ern	nit Number:	IN	0025574 	A ISI	ing Paga Saki	ANGS
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) NT OF ENVIRONMENTAL MANAGEMENT

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City:	Elkhart												Page 6	3 of	9			ern	nit Number:	IN	0025574	1,1,1,1,11,1	alla sa sa sa sa sa sa sa sa sa sa sa sa sa	v 2 1
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15)

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acility	Elkhart P	ubli	c Works	& L	Itilities									P	ublic Not	ifica	ıtion Requ	iirer	nents Met?	Υ				
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Design	Peak Flow	(Hot	ırly) (MGI	D):	44		Design Fl	ow	(MGD):		20		Measured/	Met	ered (M) o	or E	stimated (E) n	nust be spe	cific	be			
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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BYPASS / OVERFLOW INCIDENT REPORT

State Form 48373 (R7 / 4-16) Indiana Department of Environmental Management Office of Water Quality

previously sent on: 05/03/24

INSTRUCTIONS: Complete all parts of this form and email signed copies to wwreports@idem.IN.gov. Submittal of this report will satisfy the Office of Water Quality (OWQ) telephone and written bypass/overflow reporting requirements of your NPDES permit. Please use and the second page of this form as necessary to identify separate locations caused by the same event. If you have any questions while filling out the report form, please contact Renee Repar at (317) 232-6770 or repar@idem.in.gov.

To report a spill or if the release is resulting in a fish kill or other severe environmental damage, immediately report the release to the Emergency Response Section spill response line at: (317) 233-7745 or toll free within Indiana at (888) 233-7745.

YEAR STANKING				GENERA	L INFORMAT	TON.				
(1) Facility Na	me (Organization)		(2) Mailing A		porting organ		(3) C	ounty	(4) NPDE	S Permit
Elkhart Pu	ıblic Works		1201 S. I	Nappar	ee Street		Elk	hart	IN000	
			RELE	ASE INFO	RMATION (L	₋ocation 1)				
(5) Outfall Number	(6) Date <i>(mm/dd/yy)</i> Release Began	*** *********************************	(7) Date (mm/dd/yy) Release Stopped	·		f Release (street Station, Force M		(9) Latitude (Deg Min Sec)	(9) Longi (Deg Min	
	05/03/24 10:10	AM PM	05/03/24 11:10	AM PM	1704 Stev			85 57 41 W		17 N
(10) Amount of Check one:	of Flow Released	<i>(A.</i> l Actual	lways provide a volu 100	<i>ime.)</i> Gallons		(11) WWTP FI	low During Relea	44.0 MG		Flow Rate
(13) Overflow T	pe (Select one.) ewer Overflow Bypass (at waste) Combined Sewer (er Combined Sewer (sewer System Rel or Bypass / Overflor	vater plan Overflow er Overflov ease	t) v			to aquatic life o				
Construction		Power Fa	ailure 🔲 Équipme		□ Unknov	wn 🗌 Exce	eded Max Car	acity 🗌 Precipita	ation	Inches
(16) System C (Select one or Manhole House Late Pipe Failur Pump Stati Treatment Other Influent Str Air Relief V Sewer Clea Describe Othesewer main p	component(s) more.) eral e e ion Failure Bypassed ucture /alve n Out er: (in the box below lugged - grease I organizations noti rgency Response aken to Prevent, M more of the follow.	(17 ori	Additional Descrip ginally incorrecity su ill came in at 10:10 a ws returned to norm cillity, if necessary (S th Dept. Mitigate Damage i	tion of the abmitted a am. Crew al at 11:10 Select one DNR Fis noluding Cation.)	Bypass / Ove s 1704 Sterlin s removed plu) am or more.) sh and Wildlife	erflow Event: g ug of grease ar	(18) D (Chec Affi Ba. Oc. Re Re Re Re Remenda	escription of the Alek all that apply.) ected Private Propsement Backup curred at Treatmer ached Public Land ached Receiving V of Receiving Wate	rea Impaci erty nt Plant Vater er Impacted	ed
(21) Resolutio educate resid	n: Actions Taken o ents in basin of pro	r Planned per greas	to Prevent Recurrei e disposal	nce	end into a					
(22)										
I certify under designed to as manage the sy belief, true, ac imprisonment SIGNATURE:	sure that qualified vstem, or those per	personne sons directe. I am a ns. (Th	ment and all attachm I properly gather and otly responsible for g aware that there are e area below is for a	nents were d evaluate athering the significan a handwrit Contact	the information the information to the information to the information to the information to the information to the information to the information the information to the information to the information the information the information to the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the	der my directio on submitted. in the informati submitting fals or an electroni	Based on my i on submitted is se information, ic substitute the DA Date (month, c	nquiry of the perso s, to the best of my including the poss en fax or scan to P TE (month, day, yo lay, year) / Time IDEN	n or person knowledge sibility of find DF for em (ear): 05/0	ns who le and ne and ailing.)
Laura Kolo	,		574) 293-2572		.kolo@coe	i.org	05/06/24 a		, , , , , , , , , , , , , , , , , , , ,	□ PM

Kolo, Laura

From:

postmaster@state.in.us

Sent:

Monday, May 6, 2024 2:25 PM

To:

Kolo, Laura

Subject:

EXTERNAL: Relayed: IN0025674_INC_RPT_2024_05_04

Attachments:

EXTERNAL: Relayed: IN0025674_INC_RPT_2024_05_04

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BYPASS / OVERFLOW INCIDENT REPORT

State Form 48373 (R7 / 4-16) Indiana Department of Environmental Management Office of Water Quality

☐ Follow-up to Bypass repor
previously sent on:

INSTRUCTIONS:

Complete all parts of this form and email signed copies to www.eports@idem.IN.gov. Submittal of this report will satisfy the Office of Water Quality (OWQ) telephone and written bypass/overflow reporting requirements of your NPDES permit. Please use and the second page of this form as necessary to identify separate locations caused by the same event. If you have any questions while filling out the report form, please contact Renee Repar at (317) 232-6770 or rrepar@idem.in.gov.

To report a spill or if the release is resulting in a fish kill or other severe environmental damage, immediately report the release to the Emergency Response Section spill response line at: (317) 233-7745 or toll free within Indiana at (888) 233-7745.

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(4) Facility No	me (Organization)		(2) Mailing A		L INFORMATI porting organi		(2)	County	(4)	\ NIDDE(S Permit
	,		1 ' '			zauon)		-	1	•	
Elknart Pt	ublic Works			• • •	ee Street		Ell	khart	11	10002	3674
(5) Outfall	(6) Date (mm/dd/vv) a	and Time (7)	RELE Date (mm/dd/yy)		RMATION (L	ocation 1) Release <i>(street</i>	o addraga or	(0) 1	atitude (9	9) Longitu	ıdo
Number	Release Began		lease Stopped	and Time		Station, Force Ma				Deg Min S	
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(10) Amount o	of Flow Released	(Alway	s provide a volu			(11) WWTP FI	ow During Rel		(12) WWTP Peak	k Design i	Flow Rate
Check one:		Actual		Gallons		MGI			44.0 MGD		
☐ Sanitary S☐ Treatment☐ Prohibited☐ Dry Weath☐ Combined	ype (Select one.) ewer Overflow Bypass (at wastew Combined Sewer O er Combined Sewer Sewer System Rele or Bypass / Overflov	verflow Overflow ase	na/) Describe	any damage t	o aquatic life o	or receiving s	tream:			
Construction	on Related 🔲	Power Failure	e 🔲 Équipme	ent Failure	Unknow	/n 🔲 Exce	eded Max Ca	apacity	☐ Precipitatio	n	Inches
(16) System C (Select one or Manhole House Late Pipe Failur Pump State Treatment Other Influent Str Air Relief \ Sewer Clea Describe Other sewer main p	Component(s) r more.) eral e ion Failure Bypassed ructure /alve in Out er: (in the box below, lugged	remain	ditional Descripting Information	otion of the to be subr	Bypass / Ove mitted on May or more.)	6, 2024) (Che	eck all tr ffected asemer ccurred eached eached e of Re	tion of the Area hat apply.) Private Property It Backup I at Treatment P Public Land Receiving Water Ir	y Plant er mpacted	
∐ IDEM Eme	ergency Response	☐ Health D	ept. L	_I DNR Fis	sh and Wildlife	∐ Local E	mergency Ma	anagem	nent 🗌 Other:	:	n/a
(Select one of Removed	<u> </u>	ng, then add a aired Pipe	n written descrip ☐ Repaired P	otion.) Pump Stati	_	reatment of Al	_	n-Up D	ebris		
	n: Actions Taken or tine cleaning and tel	Planned to P evising sched	revent Recurre lule	nce							
(22)			8 19 4 (0.5 <u>86.982)</u>		of design in species and			e (30 s. 150 s.		(1881.I.SP)	
designed to a manage the s belief, true, ac	penalty of law that t ssure that qualified p ystem, or those pers curate, and complet for knowing violation	personnel pro sons directly r se. I am awar	and all attachn perly gather and esponsible for g e that there are	nents were d evaluate gathering t e significan	the information he information t penalties for	ler my direction on submitted. I , the information submitting fals	Based on my on submitted se information c substitute t	inquiry is, to th n, include hen fax	of the person one best of my kr	or persor nowledge lity of fin for ema	ns who e and e and ailing.)
Individual Makin	g Report (printed)	Teleph	one Number		t Email		Date (month,	day, ye.	ar) / Time IDEM N	lotified	□ам
Laura Kolo		(574)	293-2572	laura	a.kolo@coei	i.org	05/03/24	аррх	12:45		□ PM

Kolo, Laura

From:

postmaster@state.in.us

Sent:

Friday, May 3, 2024 12:48 PM

To:

Kolo, Laura

Subject:

EXTERNAL: Relayed: IN0025674_INC_RPT_2024_05_02

Attachments:

EXTERNAL: Relayed: IN0025674_INC_RPT_2024_05_02

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BYPASS / OVERFLOW INCIDENT REPORT State Form 48373 (R7 / 4-16) Indiana Department of Environmental Management Office of Water Quality

previously sent on: 5/3/24

INSTRUCTIONS:

Complete all parts of this form and email signed copies to www.eports@idem.IN.gov. Submittal of this report will satisfy the Office of Water Quality (OWQ) telephone and written bypass/overflow reporting requirements of your NPDES permit. Please use and the second page of this form as necessary to identify separate locations caused by the same event. If you have any questions while filling out the report form, please contact Renee Repar at (317) 232-6770 or rrepar@idem.in.gov.

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Elknart Pt	ıblic Works				ee Street		E	lkharl		IN0002	25674
(E) Outfall	(0) 5	1.70			RMATION (L			(0)			
(5) Outfall Number	(6) Date <i>(mm/dd/yy)</i> Release Began		(7) Date (mm/dd/yy) Release Stopped	T	(8) Location of Manhole, Lift S	Release (street Station, Force M	ts address or lain etc.)		_atitude g Min Sec)	(9) Longit (Deg Min	tude Sec)
	05/03/24 9:41	AM PM	05/03/24 10:39	AM PM	2126 Haw				5 58 3 W		9 57 N
1 ' '	of Flow Released		ways provide a volu 150	•		(11) WWTP FI 16.2 MG	_	lease	(12) WWTP P 44.0 MG	_	Flow Rate
☐ Sanitary Si☐ Treatment☐ Prohibited☐ Dry Weath☐ Combined	pe (Select one.) ewer Overflow Bypass (at wasteu Combined Sewer C er Combined Sewe Sewer System Rele	Overflow r Overflow ease	(14 na/	Gallons) Describe	any damage t			stream		<u> </u>	
1 <u>-</u>	or Bypass / Overflo	-			6V-6	ase					
Construction (16) System Construction (Select one of Manhole House Late Pipe Failur Pump Stati Treatment Other Influent Str Air Relief Vorther Describe Other Sewer main p	component(s) r more.) eral e lon Failure Bypassed ucture //alve	rem Cal flow	illure ☐ Equipm) Additional Descrip naining information Il came in at 9:41 a vs returned to norm	tion of the to be sub m. Crews	Bypass / Ove mitted on May removed plug	rflow Event: 6, 2024	(18 (C)	Descri neck all Affected Baseme Docurre Reache	r ☐ Precipita ption of the Ar that apply.) I Private Propent Backup dat Treatmen d Public Land d Receiving Wate	ea Impact erty it Plant /ater	
1 ' '	l organizations noti rgency Response	fied by fac ☐ Healt	• • • •	_	<i>or more.)</i> sh and Wildlife	☐ Local E	mergency N	lanage	ment 🔲 Oth	er:	n/a
(20) Actions T	aken to Prevent, M	inimize, or	Mitigate Damage i	ncludina C	lean-up and T	reatment of A	ffected Area	l .			
(Select one or	more of the followi Blockage ☐ Ret I obstruction cleare	ng, then a	dd a written descrip	otion.)		er □ Lime	☐ Cle		Debris		
(21) Resolutio educate resid	n: Actions Taken or dents in basin of pro	r Planned t oper greas	to Prevent Recurre e disposal	nce			d				
(22)			arts serve to a single group of the artists of the								
				and the second of the second of the	ON AND SIGN	<u> </u>					
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SIGNATURE:	<u> </u>	<u>ma</u>	100	···				DATE (month, day, ye	_{ear):} 05/0	6/24
Individual Makin Laura Kolo	g Report (printed)		lephone Number 74) 293-2572	Contac	t Email .kolo@coei	.org	Date (mont 05/06/2		ear) / Time IDEN 〈 2:15	/ Notified	□ AM □ PM



BYPASS / OVERFLOW REPORT (Supplemental Locations)

State Form 48373 (R7 / 4-16) Indiana Department of Environmental Management Office of Water Quality \square Follow-up to Bypass report previously sent on: 5/3/24

(23) Complete all parts of each table for additional discharge locations caused by the same event as on the first page. For any locations identified in the NPDES permit, include the Outfall number for that location from the permit.

			- -	LEAGE IN	FORMATION (Location 2)			
Outfall	Date (mm/dd/yy)	and Time	Date (mm/dd/yy) a		Location of Release (streets address	ss or	Latitude	Longitude
Number	Release Began		Release Stopped		Manhole, Lift Station, Force Main et		(Deg Min Sec)	(Deg Min Sec)
	05/03/24	M AM □ PM	05/03/24	☑ AM □ PM	2123 Hawthorne		appx - see above	appx - see above
	Flow Released		on of the Area Impa		neck all that apply.)	Name	of Receiving Wate	r Impacted for address (GIS is
unknown G	ed 🔲 Actual		ed Private Property hed Public Land		Basement Backup Reached Receiving Water	ł .	ailable)	,0, 4,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
Unknown	allong				-	Tradesta es		
Outfall	Date (mm/dd/yy)	and Time	Date (mm/dd/yy) a		FORMATION (Location 3) Location of Release (streets address	s or	Latitude	Longitude
Number	Release Began		Release Stopped		Manhole, Lift Station, Force Main et		(Deg Min Sec)	(Deg Min Sec)
		☐ AM ☐ PM		☐ AM ☐ PM				
	Flow Released	Descripti	on of the Area Impa		neck all that apply.)	Name	of Receiving Wate	r Impacted
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G	allons	☐ INEac				and the second second		
Outfall	Date (mm/dd/yy)	and Time	REI Date (mm/dd/yy) a		FORMATION (Location 4) Location of Release (streets address	es or	Latitude	Longitude
Number	Release Began	and mine	Release Stopped	and mine	Manhole, Lift Station, Force Main et		(Deg Min Sec)	(Deg Min Sec)
		☐ AM		☐ AM				
Amount of	 Flow Released	☐ PM	on of the Area Impa	PM	eck all that apply.)	Nama	of Receiving Wate	r Imported
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	allons	Read	hed Public Land	□F	Reached Receiving Water			
		and the second	REI	LEASE IN	FORMATION (Location 5)	\$40.5E		
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Number	Release Began	□ АМ	Release Stopped	□ АМ	Manhole, Lift Station, Force Main et	tc.)	(Deg Min Sec)	(Deg Min Sec)
		☐ PM		□ PM				
	Flow Released		on of the Area Impa ed Private Property		neck all that apply.) Basement Backup	Name	of Receiving Wate	r Impacted
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		ang to twi	F(-					
Outfall	Date (mm/dd/yy)	and Time	Date (mm/dd/yy) a		FORMATION (Location 6) Location of Release (streets addres	s or	Latitude	Longitude
Number	Release Began		Release Stopped		Manhole, Lift Station, Force Main et	tc.)	(Deg Min Sec)	(Deg Min Sec)
		☐ AM ☐ PM		☐ AM ☐ PM				
	Flow Released		on of the Area Impa		neck all that apply.)	Name	of Receiving Wate	r Impacted
_	ed □ Actual allons		ed Private Property ned Public Land		Basement Backup Reached Receiving Water			
G	alions				<u> </u>			
Outfall	Date (mm/dd/yy) a	and Time	REI Date (mm/dd/yy) a		FORMATION (Location 7) Location of Release (streets addres	es or	Latitude	Longitude
Number	Release Began		Release Stopped		Manhole, Lift Station, Force Main et		(Deg Min Sec)	(Deg Min Sec)
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	Flow Released	Descripti	on of the Area Impa	acted (Cr	neck all that apply.)	Name	of Receiving Wate	r Impacted
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			(ATTACH	I ADDITIO	NAL SHEETS IF NECESSARY.)			
				EDTIEIOA	TION AND SIGNATURE			
I certify unc	ler penalty of law th	at this doc			ITION AND SIGNATURE ere prepared under my direction or st	upervisi	on in accordance w	vith a system
designed to	assure that qualific	ed personr	nel properly gather	and evalua	ate the information submitted. Based	on my	inquiry of the perso	n or persons who
					g the information, the information sub ant penalties for submitting false info			
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SIGNATUR	:	wy	<u> </u>			DA	ATE (month, day, y	ear): 0/0/24

Kolo, Laura

From: postmaster@state.in.us

Sent: Monday, May 6, 2024 2:24 PM

To: Kolo, Laura

Subject: EXTERNAL: Relayed: IN0025674_INC_RPT_2024_005_03

Attachments: EXTERNAL: Relayed: IN0025674_INC_RPT_2024_005_03

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CSUERLA INSORMATION (2) Mailing Address (reporting organization) (3) County (4) NFDES Permit (1) Facility Name (Organization) (2) Mailing Address (reporting organization) (3) County (4) NFDES Permit (1) Number (3) County (4) NFDES Permit (1) Number (3) County (4) NFDES Permit (1) Number (3) County (4) NFDES Permit (1) Number (3) County (4) NFDES Permit (1) Number (3) County (4) NFDES Permit (1) Number (3) County (4) NFDES Permit (1) Number (4) Described part of the Release Stepped (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Described Permit (4) Des	Response Section spill response line at: (317) 233-7745 or toll free within Indiana at (888) 233-7745.											
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Imprisonment for knowing violations. (The area below is for a handwritten signature of an electronic substitute trief fax of scan to PDF for entailing.)												
SIGNATURE: DATE (month, day, year): 05/03/24				a Kel				DA	TE (t	month, day, ye	_{ear):} 05/03	
Individual Making Report (printed) Telephone Number (574) 293-2572 Contact Email laura.kolo@coei.org Date (month, day, year) / Time IDEM Notified laura.kolo@coei.org ☐ AM 05/03/24 appx 12:45		g Keport (printed)					.ora				A Notified	AM



BYPASS / OVERFLOW REPORT (Supplemental Locations)

State Form 48373 (R7 / 4-16) Indiana Department of Environmental Management Office of Water Quality

☐ Follow-up to Bypass report
previously sent on:

(23) Complete all parts of each table for additional discharge locations caused by the same event as on the first page. For any locations identified in the NPDES permit, include the Outfall number for that location from the permit.

For ar	ny locations identifie	d in the N	PDES permit, include	the Out	tfall number for that location from the	permit.			
RELEASE INFORMATION (Location 2)									
Outfall Number	Date (mm/dd/yy) a Release Began		Date (mm/dd/yy) an Release Stopped		Location of Release (streets address Manhole, Lift Station, Force Main et	Latitude (Deg Min Sec)	Longitude (Deg Min Sec)		
	05/03/24	✓ AM □ PM	05/03/24	☑ AM □ PM	2123 Hawthorne				
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					FORMATION (Location 3)				
Outfall Number	Date (mm/dd/yy) a Release Began		Date <i>(mm/dd/yy)</i> an Release Stopped		Location of Release (streets address Manhole, Lift Station, Force Main et	Latitude (Deg Min Sec)	Longitude (Deg Min Sec)		
		□ AM □ PM		☐ AM ☐ PM					
☐ Estimated ☐ Actual ☐ Affect			on of the Area Impacted <i>(Check all that apply.)</i> ed Private Property Basement Backup ned Public Land Reached Receiving Water			Name of Receiving Water Impacted			
			RELE	ASE IN	FORMATION (Location 4)				
Outfall Number	Date (mm/dd/yy) a Release Began	and Time	Date (mm/dd/yy) an Release Stopped	d Time	Location of Release (streets address Manhole, Lift Station, Force Main et		Latitude (Deg Min Sec)	Longitude (Deg Min Sec)	
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					FORMATION (Location 5)				
Outfall Number	Date (mm/dd/yy) a Release Began	and Time	Date <i>(mm/dd/yy)</i> an Release Stopped	d Time	Location of Release (streets address Manhole, Lift Station, Force Main et		Latitude (Deg Min Sec)	Longitude (Deg Min Sec)	
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	I Flow_Released	Descripti	on of the Area Impac	ted (Cl	neck all that apply.)	Name	of Receiving Wate	r Impacted	
			ed Private Property ned Public Land	Basement Backup Reached Recelving Water					
(ATTACH ADDITIONAL SHEETS IF NECESSARY.)									
CERTIFICATION AND SIGNATURE									
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.									
SIGNATUR	SIGNATURE: DATE (month, day, year): 050324								

From:

postmaster@state.in.us

Sent: Friday, May 3, 2024 12:47 PM

To: Kolo, Laura

Subject: EXTERNAL: Relayed: IN0025674_INC_RPT_2024_05_01

Attachments: EXTERNAL: Relayed: IN0025674_INC_RPT_2024_05_01

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BYPASS / OVERFLOW INCIDENT REPORT

State Form 48373 (R7 / 4-16) Indiana Department of Environmental Management Office of Water Quality

☐ Follow-up to Bypass report
previously sent on:

INSTRUCTIONS:

Complete all parts of this form and email signed copies to www.eports@idem.IN.gov. Submittal of this report will satisfy the Office of Water Quality (OWQ) telephone and written bypass/overflow reporting requirements of your NPDES permit. Please use and the second page of this form as necessary to identify separate locations caused by the same event. If you have any questions while filling out the report form, please contact Renee Repar at (317) 232-6770 or rrepar@idem.in.gov.

To report a spill or if the release is resulting in a fish kill or other severe environmental damage, immediately report the release to the Emergency Response Section spill response line at: (317) 233-7745 or toll free within Indiana at (888) 233-7745.

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(5) Outfall Number	(6) Date (mm/dd/yy) Release Began	Ė	7) Date <i>(mm/dd/yy)</i> Release Stopped			Release (street Station, Force M			atitude g Min Sec)	(9) Longit (Deg Min	
	05/06/24 10:15	AM PM	05/06/24 10:40	AM PM	1626 El R	eno		85	5 59 53 W	41 40	20 N
(10) Amount of	of Flow Released	(Alwa	ys provide a volu	ime.)		l '. / _	ow During Rele	ase	(12) WWTP P		Flow Rate
Check one:		Actual		Gallons		14.0 мд			44.0 MG	D	
☐ Sanitary S ☐ Treatment ☐ Prohibited ☐ Dry Weath ☐ Combined	ype (Select one.) ewer Overflow Bypass (at wastew Combined Sewer C er Combined Sewe Sewer System Rele	Overflow r Overflow ease	'na/	Describe	any damage to	o aquatic life c	or recelving st	ream:			
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Individual Makin Laura Kolo	g Report (printed)		hone Number 4) 293-2572		t Email 1.kolo@coei	.org	Date (month, 05/06/24	day, ye	e <i>ar) </i> Time IDEN	/ Notified	□ AM □ PM

From:

postmaster@state.in.us

Sent:

Monday, May 6, 2024 2:26 PM

To:

Kolo, Laura

Subject:

EXTERNAL: Relayed: IN0025674_INC_RPT_2024_05_05

Attachments: EXTERNA

EXTERNAL: Relayed: IN0025674_INC_RPT_2024_05_05

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BYPASS / OVERFLOW INCIDENT REPORT

State Form 48373 (R7 / 4-16) Indiana Department of Environmental Management Office of Water Quality

☐ Follow-up to Bypass repo	rt
previously sent on:	

Date (month, day, year) / Time IDEM Notified 05/08/24 appx 1:25

☐ AM ☐ PM

INSTRUCTIONS:

Laura Kolo

Individual Making Report (printed)

Telephone Number

(574) 293-2572

Complete all parts of this form and email signed copies to www.eports@idem.IN.gov. Submittal of this report will satisfy the Office of Water Quality (OWQ) telephone and written bypass/overflow reporting requirements of your NPDES permit. Please use and the second page of this form as necessary to identify separate locations caused by the same event. If you have any questions while filling out the report form, please contact Renee Repar at (317) 232-6770 or repar@idem.in.gov.

To report a spill or if the release is resulting in a fish kill or other severe environmental damage, immediately report the release to the Emergency

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Contact Email

laura.kolo@coei.org

From:

postmaster@state.in.us

Sent:

Wednesday, May 8, 2024 1:26 PM

To:

Kolo, Laura

Subject:

EXTERNAL: Relayed: IN0025674_IN_RPT_2024_05_06

Attachments:

EXTERNAL: Relayed: IN0025674_IN_RPT_2024_05_06

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BYPASS / OVERFLOW INCIDENT REPORT State Form 48373 (R7 / 4-16) Indiana Department of Environmental Management Office of Water Quality

previously sent on: 05/10/24

MA 🗔

ЁРМ

5/13/24 appx 8:00

INSTRUCTIONS:

Laura Kolo

(574) 293-2572

Complete all parts of this form and email signed copies to www.eports@idem.IN.gov. Submittal of this report will satisfy the Office of Water Quality (OWQ) telephone and written bypass/overflow reporting requirements of your NPDES permit. Please use and the second page of this form as necessary to identify separate locations caused by the same event. If you have any questions while filling out the report form, please contact Renee Repar at (317) 232-6770 or rrepar@idem.in.gov.

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Response Se	ction spill response line at: ((317) 233-7745 or	toll free with	in Indiana at (888) 233-7745.		,		
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☐ IDEM Eme		ılth Dept.	☐ DNR Fi	sh and Wildlife		•	nager	ment 🗌 Oth	ner:
(Select one of ☐ Removed	aken to Prevent, Minimize, or more of the following, then a Blockage ☐ Repaired Pips "off". Investigation is on-go	add a written desc pe ⊟ Repairec	<i>ription.)</i> d Pump Stati	on 😡 Oth		led Area □ Clean	-Up [Debris	
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SIGNATURE: Individual Makir	ig Report (printed) T	Gelephone Number	Contac	ot Email	Da	te (month, e	ATE (i day, ye	<i>month, day, y</i> ear) / Time IDE/	ear): 05/13/24 M Notified

laura.kolo@coei.org

From:

postmaster@state.in.us

Sent: Monday, May 13, 2024 8:01 AM

To: Kolo, Laura

Subject: EXTERNAL: Relayed: follow-up to incident report submitted on 051024

Attachments: EXTERNAL: Relayed: follow-up to incident report submitted on 051024

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(103 Concord Mall Dr)

BYPASS / OVERFLOW INCIDENT REPORT State Form 48373 (R7 / 4-16) Indiana Department of Environmental Management Office of Water Quality

☐ Follow-up to Bypass report
previously sent on:

INSTRUCTIONS:

Complete all parts of this form and email signed copies to <a href="www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailto:www.emailt

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Response Se	ction spili response iin	e at: (317)	233-7745 or to	ii tree with	in indiana at (388) 233-77	45.					
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(5) Outfall	(6) Date (mm/dd/yy) and	Time (7)	Date (mm/dd/yy)		(8) Location of		eets address	or	(9) L	atitude	(9) Longi	tude
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Individual Making Laura Kolo	g Report <i>(printed)</i>		ne Number 293-2572	Contac	t Email kolo@coe	.org	Date (m	onth, d	ay, ye	ar)/Time IDEI トニュー	M Notified	☐ AM ☑ PM

From:

Kolo, Laura

Sent:

Monday, May 13, 2024 12:00 PM

To:

Kolo, Laura

Subject:

FW: EXTERNAL: IN0025674 inc rpt

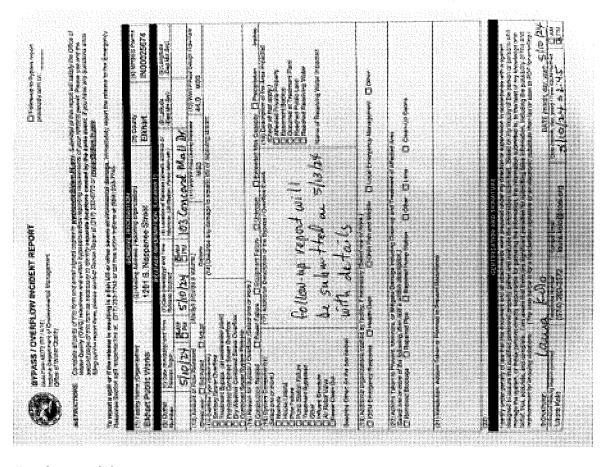
From: Laura Kolo < laura.kolo@yahoo.com>

Sent: Friday, May 10, 2024 2:42 PM

To: wwreports@idem.in.gov

Cc: Kolo, Laura <Laura.Kolo@coei.org> **Subject:** EXTERNAL: IN0025674 inc rpt

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Sent from my iPhone

BYPASS / OVERFLOW INCIDENT REPORT State Form 48373 (R7 / 4-16) Indiana Department of Environmental Management Office of Water Quality

 \square Follow-up to Bypass report previously sent on: 05/10/24

INSTRUCTIONS:

Complete all parts of this form and email signed copies to www.ports@idem.IN.gov. Submittal of this report will satisfy the Office of Water Quality (OWQ) telephone and written bypass/overflow reporting requirements of your NPDES permit. Please use and the second page of this form as necessary to identify separate locations caused by the same event. If you have any questions while filling out the report form, please contact Renee Repar at (317) 232-6770 or repar@idem.in.gov.

To report a spill or if the release is resulting in a fish kill or other severe environmental damage, immediately report the release to the Emergency Response Section spill response line at: (317) 233-7745 or toll free within Indiana at (888) 233-7745.

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Elkhart Ρι	ıblic Works		1201 S. I	Nappan	ee Street		Elkl	hart	1	IN00025	5674	
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Individual Makin Laura Kolo	g Report (printed)		one Number 293-2572	Contac	t Email ı.kolo@coei		ate <i>(month, c</i> 5/13/24 :		ear) / Time IDEN X 8:00	1 Notified	☐ AM ☐ PM	

From:

postmaster@state.in.us

Sent:

Monday, May 13, 2024 8:00 AM

To:

Kolo, Laura

Subject:

EXTERNAL: Relayed: voiding incident report submitted on 051024

(315 Plum)

Attachments:

EXTERNAL: Relayed: voiding incident report submitted on 051024

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BYPASS / OVERFLOW INCIDENT REPORT

State Form 48373 (R7 / 4-16) Indiana Department of Environmental Management Office of Water Quality

☐ Follow-up to Bypass report
previously sent on:

INSTRUCTIONS: Complete all parts of this form and email signed copies to www.eports@idem.IN.gov. Submittal of this report will satisfy the Office of Water Quality (OWQ) telephone and written bypass/overflow reporting requirements of your NPDES permit. Please use and the second page of this form as necessary to identify separate locations caused by the same event. If you have any questions while filling out the report form, please contact Renee Repar at (317) 232-6770 or repar@idem.in.gov.

To report a spill or if the release is resulting in a fish kill or other severe environmental damage, immediately report the release to the Emergency

Response Se	ction spill response line	at: (317)	233-7745 OF 10	ii tree with	in indiana at (8	188) 233-7745).				
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(1) Facility Na	me (Organization)		(2) Mailing A		porting organiz		(3)	County	/	(4) NPDE	S Permit
Elkhart Pu	ıblic Works		1201 S. I	Nappan	ee Street		E	khart		IN0002	25674
					RMATION (Le	ocation 1)	and make	y sylv			
(5) Outfall Number	(6) Date <i>(mm/dd/yy)</i> and Release Began	Rel	Date <i>(mm/dd/yy)</i> ease Stopped		(8) Location of	Release (street Station, Force M	ts address or ain etc.)		_atitude g Min Sec)	(9) Longi (Deg Min	
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1 '	or Bypass / Overflow (S				C Halenau	🗂 =	a da d May C		. 🖂 D	1-11-u	la abaa
□ Construction Related □ Power Failure □ Equipment Failure □ Unknown □ Exceeded Max Capacity □ Precipitation Inches (16) System Component(s) (Select one or more.) □ Manhole □ House Lateral □ Pipe Failure □ Pump Station Failure □ Treatment Bypassed □ Other □ Influent Structure □ Air Relief Valve □ Sewer Clean Out, Describe Other: (In the box below) (17) Additional Description of the Bypass / Overflow Event: (18) Description of the Area Impacted (Check all that apply.) □ Affected Private Property □ Basement Backup □ Occurred at Treatment Plant □ Reached Public Land □ Reached Receiving Water Name of Receiving Water Impacted:											
1 <u></u> '	l organizations notified rgency Response ☐	by facility, Health De			or more.) sh and Wildlife	☐ Local E	mergency M	lanage	ment 🗌 O	ther:	
	aken to Prevent, Minim more of the following, Blockage ☐ Repain	then add a		otion.)		reatment of A r □ Lime	ffected Area		Debris		
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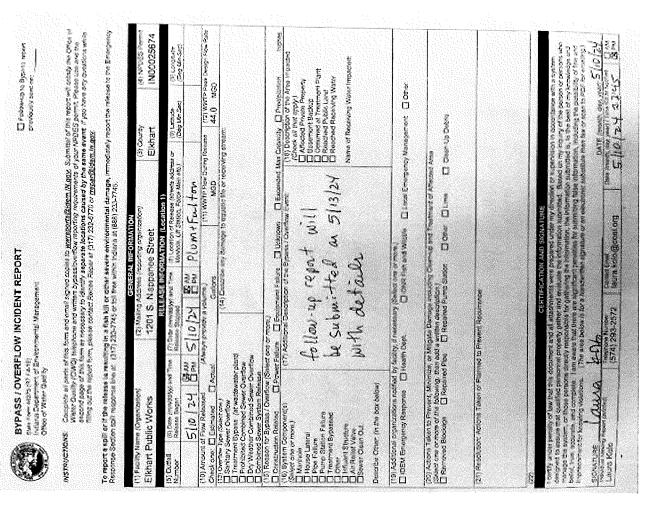
From: Laura Kolo <laura.kolo@yahoo.com>
Sent: Friday, May 10, 2024 2:43 PM

To: wwreports@idem.in.gov

Cc: Kolo, Laura

Subject: EXTERNAL: IN0025674 inc rpt

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Sent from my iPhone

From: Kolo, Laura

Sent: Friday, June 28, 2024 10:06 AM wwreports@idem.in.gov To:

Cc: Cress, Bryan

NPDES IN0025674 POST TRE 1/3 Subject: **Attachments:** Elkhart 5.24 Report Final.pdf

Please note this is "POST" TRE 1/3

Laura Kolo Director of Utilities

1201 South Nappanee St. Elkhart, IN 46516 (574) 293-2572 ext.2283 **ASPIRE** to Aspire Elkhart. Public Works & Utilities

"Tomorrow's Elkhart Starting Today" Public Works - Street & Utility Infrastructure

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From: Kolo, Laura

Sent: Friday, June 28, 2024 10:04 AM

To: wwreports@idem.in.gov

Cc: Cress, Bryan

hryan.cress@coei.org> Subject: NPDES IN0025674 TRE 1/3

Elkhart is pleased to report NPDES IN0025674 TRE 1/3 has passed. Per a conversation with Michelle Denny on 062824 at 9:55 am, 1/3 TRE report is being emailed only to wwreports@idem.in.gov.

Laura Kolo Director of Utilities



1201 South Nappanee St. Elkhart, IN 46516

City of Elkhart (574) 293-2572 ext.2283 **ASP**

"Tomorrow's Elkhart Starting Today" Public Works - Street & Utility Infrastructure

R E to Aspire Elkhart.

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From:

postmaster@state.in.us

Sent:

Friday, June 28, 2024 10:07 AM

To:

Kolo, Laura

Subject:

EXTERNAL: Relayed: NPDES IN0025674 POST TRE 1/3

Attachments:

EXTERNAL: Relayed: NPDES IN0025674 POST TRE 1/3

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Biomonitor

Permittee/Location Elkhart WWTP Elkhart, IN	Permit N IN002567			Outfall Number: 035					
Laboratory Name and Contact: Biomonitor Michael Britton			Report D	<u>oue</u> Date:		Report Date: May 2024			
WETT Reporting Frequency or Type: (mark one)	Monthly	Quarterly	Semi- annual X	Annual	TRE	Post TRE	First (per Reporting Frequency)		

Test Organism	Test	Endpoint [1]	Units	Result	Compliance Value in TUs	Pass/Fail	Reporting	
Ceriodaphnia	7-day Survival		%	100				
dubia	and Reproduction	NOEC Survival	TU。	1				
	Definitive	NOTOR I II	%	100				
	Static-Renewal	NOEC Reproduction	TU,	1				
		ICOE P	%	100			Laboratory Report	
		IC25 Reproduction	TUε	1				
			%	>100				
		48 hr. LC50	TUa	<1				
		Toxicity (acute)	TUa	<1	1.0 Pass		Laboratory Report <u>and</u> NetDMR (Parameter Code 61425)	
		Toxicity (chronic)	TUc	1	8.0	Pass	Laboratory Report <u>and</u> NetDMR (Parameter Code 61426)	
Pimephales	7-day Larval		0/	T 25	To a see a service de la constante		A-P-1	
promelas	Survival and	NOEC Survival	%	25				
,	Growth		TU₀	4				
	Definitive Static-Renewal	NOEC Growth	%	25				
	Static-Kenewai		TU₀	4			Laboratory Report	
		IC25 Growth	%	41.7				
			TU₀	2.4				
		96 hr. LC50	1 %	>100				
			TUa	<1				
		Toxicity (acute)	TU₃	1	1.0	Pass	Laboratory Report <u>and</u> NetDMR (Parameter Code 61427)	
		Toxicity (chronic)	TU _c	4	8.0	Pass	Laboratory Report <u>and</u> NetDMR (Parameter Code 61428)	

Biomonitor 8802 West Washington Street Indianapolis, IN 46231 (317) 297-7713

Whole Effluent Toxicity Test

ELKHART WASTEWATER TREATMENT PLANT

IN0025674

Elkhart, Indiana

May 2024

GLP (Good Laboratory Practices) COMPLIANCE STATEMENT

Project Name: Elkhart Wastewater Treatment Plant

Project Date: April/May 2024

This project has been conducted under GLP standards, as stated in 40 CFR Part 160, with the following exceptions:

Quality Assurance Officer

Greg R. Bright

Date: 5/15/24

Michael Britten

Project Director Date: 5/15/24

Other Participating Personnel:

Mukang'andu Ng'andwe Arizona Fox

Copies of the raw data and final report are maintained in the archives of Biomonitor for five years from the date of completion.

Section 1
Executive Summary

Biomonitor conducted whole effluent toxicity testing for the Elkhart, IN Wastewater Treatment Plant during April/May 2024. The purpose of the testing was to fulfill the biomonitoring requirement for the NPDES permit.

Three samples were collected April 28 – May 2, 2024. The water flea, *Ceriodaphnia dubia*, and Fathead minnow, *Pimephales promelas*, were used as the test organisms.

A total of seven toxicity endpoints were measured. The following results were obtained:

Ceriodaphnia dubia test

48-hr LC ₅₀	>	100% effluent	TU _a <	1.0
NOEL for survival	=	100% effluent	TU _c =	1.0
NOEL for reproduction	=	100% effluent	TU _c =	1.0

Pimephales promelas test

48-hr LC ₅₀	>	100% effluent	TU _a <	1.0
NOEL for survival	=	25% effluent	TU _c =	4.0
NOEL for growth	=	25% effluent	TU _c =	4.0
IC ₂₅ for growth	=	41.7% effluent	TU _c =	2.4

The acute toxicity limits in the NPDES permit require the 48 and/or 96-hr LC_{50} to be greater than 100% effluent (a TU_a not to exceed 1.0). The effluent samples passed the acute toxicity limits during this testing period for *Ceriodaphnia dubia* but not *Pimephales promelas*.

The chronic toxicity limits in the NPDES permit require a NOEL (No Observable Effect Level) of 12.5% effluent (a TU_c not to exceed 8.0). According to the NPDES permit, there was not a "Demonstration of Toxicity" during this sampling period.

Section 2 Introductory Information

<u>Table I</u> General

Permit number: IN0025674

Toxicity testing requirements: Fathead minnow larval survival and growth test

Ceriodaphnia survival and reproduction test

Plant location: Elkhart Wastewater Treatment Plant

1201 Nappanee St. Elkhart, Indiana 46516

Name of receiving water body: St. Joseph River

Name of WET testing laboratory: Biomonitor

8802 West Washington St. Indianapolis, IN 46231

(317) 297-7713

vlay 2024. **4**

<u>Table II</u> Plant Operations

Type of discharger: Publicly owned treatment works

Wastewater consists of treated sanitary and industrial wastes

Type of waste treatment: Class IV. Activated sludge

Design flow: 20 – MGD

Volume of wastewater flow during the sampling period: April 28, 2024 -MGD

April 30, 2024 -MGD

May 2, 2024 -MGD

May 2024. 5

<u>Table III</u> Source of effluent and dilution water

I. Effluent samples

Sampling point:

Outfall 035

Collection dates and times:

April 28, 2024

11:00 p.m.

April 30, 2024

11:00 p.m.

May 2, 2024

11:00 p.m.

Sample collection:

24-hour composite samples

Physical and chemical data:

See Tables 9 and 15

II. Dilution water samples

Source:

Moderately Hard Synthetic Water (MHSW)

Collection date and time:

N/A

Pretreatment:

None

Physical and chemical data:

See Tables 9 and 15

/ 2024

Section 3
Test Methods and Results

CERIODAPHNIA SURVIVAL AND REPRODUCTION TEST

May 2024 7

Table IV METHODOLOGY Ceriodaphnia Survival and Reproduction Test

Toxicity test method used:

Ceriodaphnia survival and reproduction test

Endpoints of test:

Survival and reproduction

(LC₅₀, NOEL, and LOEL)

Reference method:

EPA-821-R-02-013

Deviations from method:

Test was completed in six days because control animals produced an average of greater than 15

young per female by day six.

Date and time test initiated:

April 30, 2024

10:00 a.m.

Date and time test terminated

May 6, 2024

11:50 a.m.

Type of test chambers:

Polyethylene

30 ml

Volume of solution used per chamber:

15 ml

Number of organisms per chamber:

1

Number of replicate chambers per

treatment:

10

Test temperature range:

25°C (no deviations)

Yay 2024

Table V ORGANISMS USED Ceriodaphnia Survival and Reproduction Test

Scientific name: Ceriodaphnia dubia

Age: <24 hours

<u>Life stage:</u> neonates

Mean length and weight: Not applicable

Source Laboratory culture in moderately hard reconstituted

water

Diseases and treatment Not applicable

May 2024. 9

Table VI RESULTS Ceriodaphnia Survival and Reproduction Test

Raw Data:

See Table 8

LC₅₀ or NOEL obtained:

48-hr LC_{50} = greater than 100% effluent

NOEL for survival = 100% effluent

NOEL for reproduction = 100% effluent

Control survival was 100% after six days. Control reproduction averaged greater than 15 per surviving

female.

Methods used to calculate endpoints:

Fisher's Exact Test for the survival endpoint.

Dunnett's Test for the reproduction endpoint.

No calculations necessary for the acute endpoint.

Table VII QUALITY ASSURANCE Ceriodaphnia Survival and Reproduction Test

Reference Toxicant used and source:

Copper chloride, reagent grade, from Carolina

Biological

Date and time of most recent test:

April 23-30, 2024

Dilution water used in test:

Moderately hard synthetic water

Results:

 $48-hr\ LC_{50} = 80\ \mu g/L\ as\ Cu$

NOEL (reproduction) = $40 \mu g/L$ as Cu

LOEL (reproduction) = $80 \mu g/L$ as Cu

Comparison to recommended range:

Within the laboratory control range for both acute

and chronic endpoints (see attachment)

May 2024 **11**

Table VIII TEST DATA Ceriodaphnia Survival and Reproduction Test

Effluent	Day		ſ	Numl	oer o				ducec	ł		Young	Total Live	
Concentration	No.		,			Repl		,	,			Per	Breeders	
Concentration	1101	Α	В	С	D	E	F	G	Н	ı	J	Female	D, CCCC.5	
												.		
	1	0	0	0	0	0	0	0	0	0	0		10	
	2	0	0	0	0	0	0	0	0	0	0		10	
	3	2	2	2	2	4	4	4	0	0	0		10	
Control	4	7	6	8	8	7	7	6	7	5	7	18.6	10	
	5	0	8	0	0	10	7	6	10	12	5		10	
	6	0	0	0	10	0	0	0	12	10	0		10	
	1	0	0	0	0	0	0	0	0	0	0		10	
	2	0	0	0	0	0	0	0	0	0	0		10	
	3	4	2	2	0	4	4	3	0	0	0		10	
6.25%	4	6	5	7	0	9	6	7	6	3	0	15.2	10	
	5	5	7	0	2	8	6	8	8	4	0		10	
	6	0	0	8	0	0	0	0	12	10	6		10	
				I						L		·	1	
	1	0	0	0	0	0	0	0	0	0	0		10	
	2	0	0	0	0	0	0	0	0	0	0		10	
	3	2	3	2	0	4	4	2	0	0	0		10	
12.5%	4	6	6	5	2	8	9	5	8	3	4	14.3	10	
	5	4	9	8	0	4	0	7	8	6	0		10	
	6	0	8	0	6	0	0	0	10	0	0		10	
				-					-			1		

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Table VIII (cont.) TEST DATA Ceriodaphnia Survival and Reproduction Test

Effluent	Day		1	Numl	oer o	f You	ng R	epro	duced	k		Young	Total Live			
Concentration	No.					Repl	icate					Per	Breeders			
Concentration	NO.	Α	В	С	D	Е	F	G	Н	I	J	Female	Di ceuei s			
	1	0	0	0	0	0	0	0	0	0	0		10			
	2	0	0	0	0	0	0	0	0	0	0		10			
	3	3	3	0	2	4	4	3	0	0	0		10			
25%	4	7	6	6	8	6	9	6	9	9	0	19.2	10			
	5	2	9	0	0	3	7	6	5	12	3		10			
	6	0	8	10	10	0	0	0	14	14	4		10			
												_				
	1	0	0	0	0	0	0	0	0	0	0		10			
	2	0	0	0	0	0	0	0	0	0	0		10			
	3	3	3	0	2	5	5	4	0	0	0		10			
50%	4	5	6	0	0	7	6	6	7	6	0	15.1	10			
	5	7	8	0	4	4	0	6	10	4	5		10			
	6	0	0	6	6	0	0	0	10	10	6		10			
			-	1			r			1						
	1	0	0	0	0	0	0	0	0	0	0		10			
	2	0	0	0	0	0	0	0	0	0	0		10			
	3	3	3	2	0	4	4	3	0	0	0		10			
100%	4	6	0	5	0	5	3	8	7	4	-	13.9	9			
	5	0	4	0	7	9	3	8	10	4	-		9			
	6	0	6	1	10	0	0	0	10	10	-		9			

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Table IX WATER CHEMISTRY Ceriodaphnia Survival and Reproduction Test

Effluent Concentration	D.O. <u>Range</u> mg/L	Temp. Range °C	pH <u>Range</u> S.U.	Alk. Range CaCO ₃	Hardness Range CaCO ₃	Cond. <u>Range</u> μS
CONTROL	7.3 – 8.2	25	7.6 – 7.8	30-40	100-110	300-340
6.25%	7.3 – 8.3	25	7.6 – 7.8			330-340
25%	7.4 – 8.5	25	7.6 – 7.8			400-420
100%	7.4 – 9.0	25	7.4 – 8.0	90-110	225-275	610-790

		17.																

FATHEAD MINNOW LARVAL SURVIVAL AND GROWTH TEST

Table X METHODOLOGY Fathead Minnow Larval Survival and Growth Test

Toxicity test method used: 7-day fathead minnow larval survival and growth

test

Endpoints of test: 96-hr LC₅₀ and no observable effect level (NOEL) for

survival and growth. TUc for survival and growth.

Reference method: EPA-821-R-02-013

Deviations from method:No Deviations

Date and time test initiated: April 30, 2024 10:00 a.m.

Date and time test terminated May 7, 2024 10:00 a.m.

Type of test chambers: Polyethylene 300 ml

Volume of solution used per chamber: 250 ml

Number of organisms per chamber: ten

Number of replicate chambers per

treatment:

four

Test temperature range: 25°C (no deviations)

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Table XI ORGANISMS USED Fathead Minnow Survival and Growth Test

Scientific name:

Pimephales promelas

Age:

<24 hours

Life stage:

larvae

Mean length and weight:

Not applicable

<u>Source</u>

Biomonitor Lab Cultures

IMIGNA 2002

Diseases and treatment

Not applicable

Table XII RESULTS Fathead Minnow Larval Survival and Growth Test

Raw Data:

See Table 14

LC₅₀ or NOEL obtained:

96-hr $LC_{50} = >100\%$ effluent

NOEL for survival = 25% effluent

NOEL for growth = 25% effluent

 IC_{25} for growth = 41.7% effluent

Control survival and growth fell within the acceptable

range

Methods used to calculate

endpoints:

Steel's Many-One Rank Test was required for the survival

and growth endpoints because the homogeneity of

variance assumptions could not be met.

ICPIN for the IC₂₅ growth endpoint.

No calculations necessary for the acute endpoint.

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Table XIII QUALITY ASSURANCE Fathead Minnow Larval Survival and Growth Test

Reference Toxicant used and source:

Potassium chloride, reagent grade,

from Sigma-Aldrich

Date and time of most recent test:

April 23-30, 2024

Dilution water used in test:

Moderately Hard Synthetic Water

Results:

96-hr $LC_{50} = 1189 \text{ mg/L as KCl}$

NOEL (growth) = 1000 mg/L as KCl

LOEL (growth) = 2000 mg/L as KCl

Comparison to recommended range:

Within the laboratory control range for both acute

and chronic endpoints (see attachment)

Table XIV
TEST DATA
Fathead Minnow Larval Survival and Growth Test

Effluent Concentration	<u>% Sı</u>	ırvival in I	Each Repli	<u>cate</u>	<u>Average Dry Weight (μg) in Each</u> <u>Replicate</u>								
Concentration	Α	В	С	D	Α	В	С	D					
Control	100	100	100	100	370	380	430	370					
6.25%	100	30	100	100	390	60	390	410					
12.5%	100	100	100	100	300	330	380	370					
25%	90	100	100	90	300	370	390	250					
50%	60	80	70	70	190	360	230	310					
100%	0	0	0	0	0	0	0	0					

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Table XV WATER CHEMISTRY Fathead Minnow Larval Survival and Growth Test

Effluent Concentration	D.O. <u>Range</u> mg/L	Temp. Range °C	pH <u>Range</u> S.U.	Alk. <u>Range</u> CaCO₃	Hardness Range CaCO ₃	Cond. <u>Range</u> μS
CONTROL	5.5 – 8.2	25	7.4 – 7.9	30-40	100-110	300-330
6.25%	5.5 – 8.3	25	7.4 – 7.8			330-340
25%	5.7 – 8.5	25	7.4 – 7.7			400-440
100%	5.7 – 9.4	25	7.4 – 7.7	90-110	225-275	610-790

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SAMPLE SUMMARY AND CHAIN OF CUSTODY

CLIENT NAME:	Elkhart WWTP		
PURPOSE OF SAMPLE:	Whole Effluent Toxicity	Mon.	April 202
SAMPLE IDENTIFICATION	N: Elkhart - 8 1	Contay	
DESCRIPTION: Outfall			
DATE SAMPLE COLLECT	ED: Start Date 4-22	8-2024 Start Tim	12:00 gm
	End Date $4 - 2$	8-2024 End Time	e 12:00 gm
NAME OF PERSON COLLE	ECTING SAMPLE: Open	ations	<u>.</u>
SAMPLE VOLUME:	8 Liters		
NUMBER OF CONTAINER	S: Two, HDPE		
SAMPLE STORAGE:	Refrigerated/iced		
PRESERVATIVES:	none		
Relinquished by: Dav	of Well		
Date: 4/29/0	2024	Time: /2:02	
Received by:	-71		
Date:	29/24	Time: 12:02	١
Relinquished by:		· · · · · · · · · · · · · · · · · · ·	
Date:		Time:	
Received by:			
Date:		Time:	
TEMP: \bigcirc ° C			

COMMENTS:

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SAMPLE SUMMARY AND CHAIN OF CUSTODY

CLIENT NAME: E	lkhart WWTP		
PURPOSE OF SAMPLE: W	Vhole Effluent Toxicity		
SAMPLE IDENTIFICATION:	Elkhart - 2	Wednesday	May 2024
DESCRIPTION: Outfall			
DATE SAMPLE COLLECTEI	D: Start Date	1/30/2024 Start Time_	12:00 am
	End Date 4		11:00 pm
NAME OF PERSON COLLEC			
SAMPLE VOLUME:	8 Liters	•	
NUMBER OF CONTAINERS	: Two, HDPE		
SAMPLE STORAGE:	Refrigerated/iced	l	
PRESERVATIVES:	none		
Relinquished by: Bow	Well		L. T. T. T. T. T. T. T. T. T. T. T. T. T.
Date: 5 (203	4	Time:	
Received by:	7	\(\sigma	
Date: VS[[124	Time: 1230 =	
Relinquished by:			
Date:		Time:	
Received by:			
Date:		Time:	
TEMP: $\frac{1}{2}$ ° C			

COMMENTS:

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SAMPLE SUMMARY AND CHAIN OF CUSTODY

CLIENT NAME:	Elkhart WWTP			
PURPOSE OF SAMPLE:	Whole Effluent Toxi	city		
SAMPLE IDENTIFICATION	N: Elkhart - 3	Frid	ay	May 2024
DESCRIPTION: Outfall	I			
DATE SAMPLE COLLECT	ED: Start Date	5-2-2024	Start Time_	12 pm
	End Date	5-2-2024	_ End Time	11 pm
NAME OF PERSON COLLI	ECTING SAMPLE: (perations		•
SAMPLE VOLUME:	8 Liters	•		
NUMBER OF CONTAINER	RS: Two, HDPE			
SAMPLE STORAGE:	Refrigerated/	'iced		
PRESERVATIVES:	none			
Relinquished by: Just	DO SO			
Date: <u>05 03 2</u> 0	24	Time: 11:5	52am	
Received by:	/			
Date: 5/3/202	બ	Time: 10	:529	
Relinquished by:				
Date:		Time:		
Received by:				
Date:		Time:		
темр: <u></u>				

COMMENTS:

Ceriodaphnia dubia

Reference Toxicant - Copper sulfate/chloride as Cu

Dilution Water - Moderately Hard Reconstituted Water

Date	LC ₅₀	NOEL	LOEL	1C ₂₅
mm/yy	48-hr μg/L	μg/L (repro.)	μg/L (repro.)	μg/L (repro.)
				•
07/21	98	40	80	S0 23
08/21	87	40	80	49
09/21	92	40	80	52
10/21	73	40	80	52 59
11/21	113	40	160	48
12/21	75	40	80	46 54
2/22	105	40	80	51
3/22	75	40	80	57
4/22	113	40	80	30
5/22	95	40	80	41
6/22	113	40	80	33
7/22	75	40	80	30
8/22	86	40	40	30
9/22	80	40	80	40
11/22	70	40	80	48
12/22	77	40	80	48
1/23	75	40	80	52
2/23	86	40	80	37
4/23	80	40	80	39
5/23	80	40	80	59
06/23	113	40	160	55
07/23	75	40	80	15
09/23	80	40	80	58
10/23	113	40	80	50
11/23	86	40	80	30
01/24	99	40	40	48
02/24	86	40	80 80	48
03/24	80	40		51
04/24	80	40	80	
Average	88	Mode 40	80	44
St. Dev.	14			11
Upper Limit	116	80	160	67
Lower Limit	60	20	40	22

Pimephales promelas

Reference Toxicant - Potassium chloride

Dilution Water - Moderately Hard Reconstituted Water

Date	LC ₅₀	NOEL		LOEL	IC ₂₅
mm/yy	96-hr mg/L	mg/L (grwt	h)	mg/L (grwth)	mg/L (grwth)
44/24	1129		1000	2000	939
11/21	1129		500	1000	810
12/21	812		500	1000	612
02/22 03/22	946		500	1000	707
04/22	917		500	1000	703
04/22	1110		1000	2000	1223
06/22	856		500	1000	710
	1130		500	1000	736
07/22 08/22	1093		500	1000	925
09/22	1278		1000	2000	950
	1035		500	1000	684
11/22	1053		1000	2000	805
12/22 01/23	795		500	1000	664
01/23	1091		500	1000	741
04/23	1231		1000	2000	1121
05/23	1189		1000	2000	1110
06/23	951		500	1000	669
07/23	1091		500	1000	1091
09/23	1000		500	1000	702
10/23	1124		500	1000	768
11/23	1253		500	1000	849
01/24	1128		500	1000	699
02/24	952		1000	2000	798
03/24	1189		500	1000	908
04/24	1189		1000	2000	1037
04/24	1200				
Average	1067	<u>Mode</u>	500	1000	838
Average	131				166
St. Dev.	1328		1000	2000	1171
Upper Limit Lower Limit	806		250	500	506
COTTON DIVINS					

Client:	Elkhart WWTP					
Project #						
Analysts:	ММВ	, MN, AF, MMK				
	Start Date:	4/30/2024				
Test Dates	Start Time:	1000				
Test	End Date:	5/6/24				
	End Time:	1150				
Template #	E	3				
Comments:						

0 = Number of Live Young / = Test Organism Dead y = Male M = Lost or Missing

Row 9 Row 10	, keg	1 2 3 4 5 6 7 1 2 3 4 5 6 7	0 0 0 0 0 0 0 0 0 0 0 17 10	0 0 0 8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 / / / / / / 0 0 0 0 3 1 1	0 0 0 0 5 9	0 0 0 4 0 0 0 0 0 3 9
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Row 7	Day	1 2 3 4 5 6 7	0 0 3 0	0 0 1 5 7	0 0 0 4 0 0 0	0 0 4	0 0 3	0 0 3 8 8
Row 6	Day	1 2 3 4 5 6 7	0 0 5 9 0	0 0 4 9 7 0	OCAMA	0 0 14 7+2 0	0 0 2 0 0	0 0 11 7 7 7
Row 5	Day	1 2 3 4 5 6 7	о о ч 5 9 О	0 0 4 7 10 0	0 0 4 9 8	0 0 4 9 3 0	0 0 5 7 1 1	0 0 7 8 7 0

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	1000	1150
MN, AF		
MMB, MN, AF	4/30/24	5/6/24
Analyst:	Test Start- Date/Time:	Test Stop- Date/Time:
Elkhart WWTP	Elkhart, IN	4/28, 4/30, 5/2
Discharger:	Location:	Date Sample Collected:

Young ner	Adult	0.0	0.0	2.0	6.8	5.8	4.0	18.6
No. of	Adults	10	10	10	10	10	10	10
No. of	ğ	0	0	20	89	58	40	186
	2	0	0	0	7	2	8	70
	ō	0	0	0	5	12	10	27
	«	0	0	0	7	10	12	29
	7	0	0	4	9	9	0	16
icate	9	0	0	4	7	7	0	18
Repl	2	0	0	4	7	10	0	21
	4	0	0	2	8	0	10	70
	3	0	0	2	8	0	0	10
	2	0	0	2	9	8	0	16
	1	0	0	2	7	0	0	6
	Day	1	2	3	4	5.	9	Total
	Conc.	e s			Control	}	- .	

Young per	Adult	0.0	0.0	1.9	4.9	4.8	3.6		15.2
No. of	Adults	10	10	10	10	10	10		10
No. of	Young	0	0	19	49	48	36		152
	10	0	0	0	0	0	9		9
	6	0	0	0	3	4	10		17
	8	0	0	0	9	8	12		56
	7	0	0	3	7	8	0		18
Replicate	9	0	0	4	9	9	0		16
Repl	2	0	0	4	6	∞	0		77
	4	0	0	0	0	7	0		7
	8	0	0	2	7	0	8		17
	2	0	0	2	2	7	0		14
	Ţ	0	0	4	9	2	0		15
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2		3	2	0	4	4	7	0	0	0	17	10	1.7
9	- 1	9	5	2	8	6	2	8	3	4	56	10	5.6
4		6	8	0	4	0	7	8	9	0	46	10	4.6
0		8	0	9	0	0	0	10	0	0	24	10	2.4
12		56	15	∞	16	13	14	56	6	4	143	10	14.3

_								 				-																	
Young per	Adult	0.0	0.0	1.9	9.9	4.7	6.0	19.2		Young per	Adult	0.0	0.0	2.2	4.3	4.8	3.8		15.1		Young per	Adult	0.0	0.0	1.9	3.8	4.5	3.7	13.9
No. of	Adults	10	10	10	10	10	10	10		No. of	Adults	10	10	10	10	10	10		10	ΙF	No. of	Adults	10	10	10	6	6	6	6
No. of	Young	0	0	1.9	99	47	9	192		No. of	Young	0	0	22	43	48	38		151		No. of	Young	0	0	19	38	45	37	139
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	7	0	0	3	9	6	8	56			2	0	0	3	9	8	0		17			2	0	0	3	0	4	9	13
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File: ceriorep Transform: NO TRANSFORMATION

Chi-square test for normality: actual and expected frequencies

INTERVAL	<-1.5	-1.5 to <-0.5	-0.5 to 0.5	>0.5 to 1.5	>1.5
	-				
EXPECTED OBSERVED	4.020 3	14.520 15	22.920 27	14.520 8	4.020 7

Calculated Chi-Square goodness of fit test statistic = 6.1377
Table Chi-Square value (alpha = 0.01) = 13.277

Data PASS normality test. Continue analysis.

Elkhart 5.24

File: ceriorep Transform: NO TRANSFORMATION

Hartley test for homogeneity of variance

Calculated H statistic (max Var/min Var) = 2.16 Closest, conservative, Table H statistic = 12.1 (alpha = 0.01)

Used for Table H ==> R (# groups) = 6, df (# reps-1) = 9 Actual values ==> R (# groups) = 6, df (# avg reps-1) = 9.00

Data PASS homogeneity test. Continue analysis.

NOTE: This test requires equal replicate sizes. If they are unequal but do not differ greatly, the Hartley test may still be used as an approximate test (average df are used).

SUMMARY OF FISHERS EXACT TESTS

GROUP	IDENTIFICATION	NUMBER EXPOSED	NUMBER DEAD	SIG (P=.05)
	CONTROL	10	0	
1	6 રે	10	0	
2	12 %	10	0 ·	
3	25%	10	0	
4	50 €	10	0	
5	100 કે	10	1	

File: ceriorep Transform: NO TRANSFORMATION

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 1 of 2

GRP	IDENTIFICATION	N	MIN	MAX	MEAN
1 2	control 6.25%	10 10	9.000	29.000	18,600
3	12.5%	10	4.000	26.000 26.000	15.200 14.300
4 5	25% 50%	10 10	7.000 6.000	35.000 27.000	19.200 15.100
6	100%	10	0.000	27.000	13.900

Elkhart 5.24

File: ceriorep Transform: NO TRANSFORMATION

SUMMARY STATISTICS CN TRANSFORMED DATA TABLE 2 of 2

GRP	IDENTIFICATION	VARIANCE	SD	SEM
1	control	40.933	6.398	2.023
2	6.25%	47.289	6.877	2.175
3	12.5%	50.900	7.134	2.256
4	25%	71.289	8.443	2.670
5	50%	32.989	5.744	1.816
6	100%	56.544	7.520	2.378

Elkhart 5.24

File: ceriorep Transform: NO TRANSFORMATION

ANOVA TABLE

SOURCE	DF	SS	MS	F
Between	5	257.350	51.470	1.030
Within (Error)	54	2699.500	49.991	
Total	59	2956.850		

Critical F value = 2.45 (0.05,5,40) Since F < Critical F FAIL TO REJECT Ho:All groups equal

File: ceriorep Transform: NO TRANSFORMATION

DUNNETTS TEST - TABLE 1 OF 2 Ho:Control<Treatment

GROUP	IDENTIFICATION	TRANSFORMED MEAN	MEAN CALCULATED IN ORIGINAL UNITS	T STAT	SIG
1.	control	18,600	18.600		
2	6.25%	15.200	15,200	1.075	
3	12.5%	14.300	14.300	1.360	
4	25%	19.200	19,200	-0.190	
5	50%	15.100	15.100	1.107	
6	100%	13.900	13.900	1.486	

Dunnett table value = 2.31 (1 Tailed Value, P=0.05, df=40,5)

Elkhart 5.24

File: ceriorep Transform: NO TRANSFORMATION

	DUNNETTS TEST -	TABLE 2 OF	2 Ho:	Control <t< th=""><th>reatment</th></t<>	reatment
GROUP	IDENTIFICATION	NUM OF REPS	Minimum Sig Diff (IN ORIG. UNITS)	% of CONTROL	DIFFERENCE FROM CONTROL
1	control	10			
2	6.25%	10	7.304	39.3	3,400
3	12.5%	10	7.304	39.3	4.300
4	25%	10	7.304	39.3	-0.600
5	50%	10	7.304	39.3	3.500
6	100%	10	7.304	39.3	4.700

Discharger:	Elkhart WWTP	Test Dates:	4/30/24 - 5/6/24
Location:	Elkhart, IN	Analysts:	MMB, MN, AF, MMK

		1		Day	. 51 1 1 mm		.1.	1
Conc: Control	1	2	3	4	5	6	7	Remarks
Temp.	25	25	25	25	25	25	25	
Temp. D.O. Initial	8.2	תר	7.8	8.1	7.9	8.1	i	Template B
Final	7.3	7.6	0.8	8.0	8.0	8,0		
pH Initial	ጉ. ሄ	7.8	7.8	7.7	716	7.6		
Final	7.7	7.8	7.6	177	78	7.8		
Alkalinity	30	6.7 (1.7 (1.7 (1.7 (1.7 (1.7 (1.7 (1.7 (1	40		45	1 15 A 14	1 150 U.S.	
Hardness	110		100	18.50 F 19.50	110	å 'S		
Conductivity	300	d b	330		340			
Chlorine					<u> </u>			

	- 4 T	32 14 32 14	7	Day	1909 4(8)		14 1921.	
Conc: 6.25%	1	2	3	4	5	6	7	Remarks
Temp.	25	25	25	25	25	25	25	24 C 25 March 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
D.O. Initial	4.3	רגר	7.8	8.1	8.0	8.1		
Final	٦.১	7.6	8.0	8.0	8.0	8.0		
pH Initial	7.4	8.7	7.8	7.6	7.6	7.6		
Final	٦.٦	7.8	7.6	1 4.5	79	7.8		
Alkalinity				1945 (1945)			3	
Hardness		Pro Carlo		1987		1, 24 1, 24 1, 34 3	of the second	
Conductivity	330		330	110000	340	7 10.	7 - 4	
Chlorine		1 1 2 2			- 010	<u> </u>		

					Day				
Conc:	12.5%	1	2	3	4	5	6	7	Remarks
Temp.		25	25	25	25	25	25	25	
D.O.	Initial	8.4	רגד	7.8	8.1	9.8	8.1		
	Final	7.4	7.6	8.0	7,9	8.0	8.0		
рH	Initial	7,7	7.8	7.8	7.6	7.6	7.6		
	Final	ר.ר	7.8	7.7	7.7	7.7	7.8		
Alkalin	ity		7		1,111				
Hardne					87,847.71				
Conduc	tivity	350		360		360			
Chlorin	e .				1.				

Discharger:	Elkhart WWTP	Test Dates:	4/30/24 - 5/6/24
Location:	Elkhart, IN	Analysts:	MMB, MN, AF, MMK
		-	

				Day		<u> </u>	,	
Conc: 25%	1	2	3	4	5	6	7	Remarks
Temp.	25	25	25	25	25	25	25	
D.O. Initial	4.5	7.7	7.8	8.1	8.1	8.2		
Final	7.4	7.7	8.0	7.8	7.9	8-0		
pH Initial	7.7	7.7	7.8	7.6	7.6	7.6		
Final	7.7	7.7	7.7		7.7	7.8		
Alkalinity								
Hardness		9, 1					1.00	
Conductivity	400		410		420			
Chlorine		7.11						

					Day		100	*	
Conc:	50%	1	2	3	4	5	6	7	Remarks
Temp.	3.	25	25	25	25	25	25	25	
Temp. D.O.	Initial	8,6	הר	7.9	8.3	8.2	8.3		
	Final	ı T	7.6	7.9	7.8	7.8	8.0		
рН	Initial	7.6	הר	7.7	7,5	7,5	7.5		
	Final	7.7	7.7	7.7		7.7	7.7		
Alkalini	ity								
Hardne	SS				<i>'</i>				
Conduc	tivity	480		530		540	· ·	X }	
Chlorin									

					Day				
Conc: 1	00%	1	2	3	4	5	6	7	Remarks
Temp.		25	25	25	25_	25	25	25	
D.O.	Initial	9,0	1.8	0.8	8.9	8.8	9.0		
	Final	7.4	7.0	7.9	7.8	7.8	8.0		
рН	Initial	7,5	7.6	7.6	74	7.5	7.5		
•	Final	7.7	7.8	7,9	9.0	7.9	٦.٧	L	
Alkalinity		90		110		100			
Hardness		250		225	1.14	775			- M. M. W.
Conductiv	ity	610		&700		790			
Chlorine		4.6		N.D.		N.D.			
Ammonia		0.5		ND		N.D			

Discharger: Elkhart WWTP **Test Dates** 4/30/24 -5/7/24 Location: Elkhart, IN Analysts: MMB, MN, AF, MMK

建 原 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 /	\$77. * \$1. # a.	F. 1244	No.	Survi	ving	Organi	sms	1 1	
23		ag 6 juli			Day		7	(4)	・ 1975年 - 日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日
Conc:	Rep. #	1	2	3	4	5	6	7	Remarks
100	Α	0	10	10	10	ιo	10	10	
Control	В	10	10	_ 0	10	10	10	10	
100	C	10	10	10	_10	10	IO	10	
A. 人名伊莱	D	10	10	0	-10	lo.	10	10	
	A	10	10	16	0	10	10	10	
6.25%	В	10	10	10	10	6	4	3	
		10	_10_	10	10	10	<u>m</u>	10	
\$700 L	D	10	10		10	10	10	10	
	A	10	10	10	10	10	10	0	
12.5%	B		$\neg D$	10	10	10	10	10	
	C	10	10	[0	10	10	10	10	
	D	10	10	10	10	10	10	10	
	A	10	10	10	10	٩	٦	9	
25%	В	10	10		10	_lo_	<u> </u>	10	
	C	10	10	10	10	10	10	10	
1.00	D	.10	10	ļ^	10	10	10		
	A	_10	a	<u></u>	12	<u>6</u>	6	6	
50%	В	10	10	10	10		9	4	
	<u>c</u>	10	10		12	8	8		
	D	10	10	10	<u>10</u> 5	<u>8</u> Z.	8		
	<u>A</u>	<u> 10</u>	10	8	- 2 -			0	
100%	В <i>С</i>	_ 	10	A		7	9	0	
		10		a	6	2		0	
	0	10	10		٩	5	0	U	

Comments: Start Time:

1000

FHM Source: Biomonitor Lab Cultures

File: fhmsurv Transform: ARC SINE(SQUARE ROOT(Y))

Shapiro Wilks test for normality

D = 0.571

W = 0.664

Critical W (P = 0.05) (n = 24) = 0.916Critical W (P = 0.01) (n = 24) = 0.884

Data FAIL normality test. Try another transformation.

Warning - The two homogeneity tests are sensitive to non-normal data and should not be performed.

Elkhart 5.24

File: fhmsurv Transform: ARC SINE(SQUARE ROOT(Y))

Hartley test for homogeneity of variance Bartletts test for homogeneity of variance

These two tests can not be performed because at least one group has zero variance.

Data FAIL to meet homogeneity of variance assumption. Additional transformations are useless.

Elkhart 5.24 File: fhmsurv

Transform: ARC SINE(SQUARE ROOT(Y))

Critical values use k = 5, are 1 tailed, and alpha = 0.05

4/30-5/7/24 5/8/24 Test Date(s):
Weighing Date: Elkhart, IN MMB, MN, AF Elkhart WWTP Discharge: Location: Analyst:

9

Remarks

Elkhart 5.24 File: fhm grow

Transform: NO TRANSFORMATION

Chi-square test for normality: actual and expected frequencies

INTERVAL	<-1.5	-1.5 to <-0.5	-0.5 to 0.5	>0.5 to 1.5	>1.5
EXPECTED OBSERVED	1.608 0	5.808 7	9.168 10	5.808 7	1.608 0

Calculated Chi-Square goodness of fit test statistic = 3.7808
Table Chi-Square value (alpha = 0.01) = 13.277

Data PASS normality test. Continue analysis.

Elkhart 5.24

File: fhm grow Transform: NO TRANSFORMATION

Hartley test for homogeneity of variance
Bartletts test for homogeneity of variance

These two tests can not be performed because at least one group has zero variance.

Data FAIL to meet homogeneity of variance assumption. Additional transformations are useless.

Elkhart 5.24 File: fhm grow

Transform: NO TRANSFORMATION

SUMMARY STATISTICS CN TRANSFORMED DATA TABLE 1 of 2

GRP	IDENTIFICATION	N	MIN	MAX	MEAN
1	control	4	0.370	0.430	0.388
2	6.25%	4	0.060	0.410	0.313
3	12.5%	4	0.300	0.380	0.345
4	25%	4	0.250	0.390	0.327
5	50%	4	0.190	0.360	0.273
6	100%	4	0.000	0.000	0.000

Elkhart 5.24

File: fhm_grow Transform: NO TRANSFORMATION

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 2 of 2

GRP	IDENTIFICATION	VARIANCE	SD	SEM
1	control	0.301	0.029	0.014
2	6.25%	0.028	0.169	0.084
3	12.5%	0.001	0.037	0.018
4	25%	C.004	0.064	0.032
5	50%	0.006	0.077	0.038
6	100%	0.000	0.000	0.000

Elkhart 5.24

File: fhm grow Transform: NO TRANSFORMATION

STEEL	S MAN	Y-ONE	RANK	TEST	-	Ho:Cont	rol <tr< th=""><th>∍atment</th></tr<>	∍atment

GROUP	IDENTIFICATION	TRANSFORMED MEAN	RANK SUM	CRIT. VALUE	df 	SIG
1	control	0.388				
2	6.25%	0.313	19.00	10.00	4.00	
3	12.5%	0.345	13.50	10.00	4.00	
4	25%	0.327	14.00	10.00	4.00	
5	50%	0.273	10.00	10.00	4.00	*
6	100%	0.000	10.00	10.00	4.00	*

Critical values use k = 5, are 1 tailed, and alpha = 0.05

*** Inhibition Concentration Percentage Estimate ***

Toxicant/Effluent: Elkhart WWTP

Test Start Date: 4.30.24 Test Ending Date: 5.7.24

Test Species: Pimephales promelas Test Duration: 7 days

DATA FILE:

Conc.	Number Replicates	Concentration %	Response Means	Std. Dev.	Pooled Response Means
1 2	4	0.000 6.000	0.388 0.313	0.029	0.388 0.329
3	4	12.000	0.345	0.037	0.329
4	4	25.000	0.327	0.064	0.327
5	4	50.000	0.273	0.077	0.273
6	4	100,000	0.000	0.000	0.000

The Linear Interpolation Estimate: 41.7614 Entered P Value: 25 _______

Number of Resamplings: 80 80 Resamples Generated
The Bootstrap Estimates Mean: 37.1289 Standard Deviation: 13.9476
Original Confidence Limits: Lower: 4.7893 Upper: 53.9370
Expanded Confidence Limits: Lower: -17.3940 Upper: 61.2424
Resampling time in Seconds: 0.00 Random_Seed: -692525855

Discharger:	Elkhart WWTP	Test Dates:	4/30/24 -5/7/24
Location:	Elkhart, IN	Analysts:	MMB, MN, AF, MMK

			3 1984 3	Day	31	5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.00 6.50	
Conc : Control	1	2	3	4	5	6	7	Remarks
Temp.	25	25	25	25	25	25	25	
D.O. <u>Initial</u>	8.2	7.9	7-8	8.1	8.2	7.9	7.8	
Final	69	6.7	6.3	6.8	6.7	5.5	6.7	
pH Initial	7.8	7.7	7.7	7.6	7.8	7.9	7.7	
Final	7.4	7.5	7.5	77	7.7	7.4	7.5	
Alkalinity	30	5 - 1 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7	40	Linguista Linguista Linguista	40			
Hardness	110		100	2 E C	110	are to the second		
Conductivity	360	6	310	34/11/28/28/	330	Mark 184		
Chlorine		(1) (1) (2)				C april		

				Day	. រូមី ។	. 14 1 1 1	र प्रशेष	
Conc: 6.25%	1	2	3	4	5	6	7	Remarks
Temp. D.O. Initia	25	25	25	25	25	25	25	- 11. E
D.O. Initia	1 8.3	8.0	7.9	8.1	8.7	7.9	7.8	
Fina	4.9	Cell	6.2	6.7	4.7	5.5	6.7	
pH Initia	31 7.8		הר	7.6	7.8	7.8	7.7	
Fina	7.4	7.5	7.5	7.7	7.7	7.4	7.5	
Alkalinity	"	Mar 1 2-72		200			1150,75	
Hardness				- 13/7 - 1				
Conductivity	330	1	330		340		1870.	
Chlorine						7.		

				<u> </u>	Day	11.11.1		11 11 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
	2.5%	1	2	3	4	-5	6	7	Remarks
Temp.		25	25	25	25	25	25	25	2015 M. 12 May 1
D.O.	Initial	8.4	8.2	7.9	1.8	8.2	8.0	7.8	
	Final	6.8	6.7	6.0	65	6.6	5.4	6.6	
рH	Initial	7.7	7.7	7.6	7.6	7.7	7.8	7.6	
	Final	7.4	7.6	7.4	7.7	7.6	7.6	7.5	
Alkalinity								1	
Hardness									
Conductivi	ty	350		360		370			
Chlorine					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			(1.15	

Discharger:	Elkhart WWTP	Test Dates:	4/30/24 -5/7/24
Location:	Elkhart, IN	Analysts:	MMB, MN, AF, MMK

				Day				
Conc: 25%	1	2	3	4	5	6	7	Remarks
Temp.	25	25	25	25	25	25	25	
D.O. Initial	8.5	4.8	۲.۲	8.2	8.2	8.3	7.9	
Final	6.8	4.5	6.0	6.5	۵,5	5.7	6.6	
pH Initial	7.7	7.6	7.6	7,5	7.7	7.7	7.6	
Final	7.4	7.6	7.4	7.6	7.0	7.6	7.4	
Alkalinity				14 NEW ST. 1				
Hardness		W. J. 1		Profession of		1	A - 35 PA	
Conductivity	400		420	50 A 578	440			
Chlorine		- 1 · · ·		2.77.275				

		Walder A.	14.4	Day	(1 <u>-</u> 541)@[1-5	ŭ. 11. († 17.	y ya ara	
Conc: 50%	1	2	3	4	5	6	7	Remarks = =
Temp.	25	25	25	25	25	25	25	
D.O. Initial	8.6	8.7	8.4	8.6	8.2	8,5	7.9	
Final	6.7	6.4	5.9	6.5	6.4	5.7	66	
pH Initial	7.6	7.6	7.6	7.5	<u>ئ</u> ت	7.6	7.6	
Final	r. r	7.6	7.4	7.6	ر. ا	7.6	7.4	
Alkalinity		18						
Hardness		4		i i i i i i i i i i i i i i i i i i i			Property Co	
Conductivity	480	1	520	19 July 10	570	ar desi	F 10 F 16	
Chlorine				n markety n k kalendar				

					Day				
Conc:	100%	1	2	3	4	5	6	7	Remarks
Temp.		25	25	25	25	25	25	25	
D.O.	ें Initial	9.0	8.8	8.6	9,4	8.6	94	9.2	
a file grant	Final	6.6	6.0	5.9	6.4	6-1	5.7	6.6	
pH	Initial	7.5	7.4	7,4	7.4	7.5	7.5	7.4	
17. 17.	Final	7.6	הר	7.6	7.	۲	הר	7.4	
Alkalinit	y r:	90		.110	41,000	100			
Hardness	5	250		275	() ()	275		149	
Conducti		610		740		790			
Chlorine	1	N.D.		N.D		N.A.			
Ammoni	а	0.5		N.D.		N.D.			



Date

Jul 31, 2024

Memo To

Board of Public Works

Memo From

Laura Kolo, Utility Services Manager

Subject

Wastewater Utility Monthly Report of Operations

for the month of June, 2024

Wastewater MRO Highlights

Parameter	Monthly Avg	Permit Limit
Suspended Solids mg/L	5	30
cBOD5 mg/L	2	25
Phosphorus mg/L	0.79	1.0
Ammonia mg/L	0.19	4.4 (Dec-Apr) 4.2 (May-Nov)
Avg Daily Flow MGD	16.39	Design - 20
Total Monthly Flow MGD	492	Report

Incident Reports Filed

Date	Location	Volume (gal)	Cause
06/02/24	MH 140-20	226,150	SCADA programming
06/03/24	MH 140-20	90,460	out of service

Wet Weather Overflows

Number of Events	Total Overlfow Volume (MG)
6	14.4567

Biomonitoring TRE 2/3 (June) passed and was submitted

Submission Completed and DMR Attachments	,				TOP I THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX THE TAX			
.	IN0025674	ELICHART WWTP	033	035-A	20 MED CLASS IV ACTIVATED SLUDGE - TO ST JOSEPH RIVER	06/30/24	07/28/24	NetDMR Validated
	Attachments							
ď			ue.N	Ϋ́	Name Type Size	Type		Size
i	IND025574 0358	10025574 0358 MRO 2024 05.cdf				ğ	1025023.0	
	INDOCESTA COSS MED	IND022674 035h HRO 2024 06 revent				JPd	455179.0	
	TW0025674 CSO	TW0025674 CSO WRO 2024 06.pdf				ğ		

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Process Confirmation - CDX Activity ID: _612c13c6-6109-4969-8c32-841b5fcba214

Your DMRs are undergoing the Signing Process

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Permit ID Facility	V0025674 ELKHART WWTP
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State Form 10829 (R4 / 01-20)

Name of Facility			Permit Nun			
Elkhart			IN00256	674		
Month	Year	Plant Des	lgn Flow	Telephone	e Number	
June	2024	20.00	mgd	5	-2572	
E-mail address:	laura.kolo@	coei.org			035	Α
Certified Operator: N	lame	Class	Certificate	Number	Expl	ration Date
Laura E Kolo		11/	150	194	06/	30/2027

		·					r			Laura E.	KOIO		1	IV	150		00/	30/2027
				Total=			СН	IEMICAL	_S				D 618		0 E			
				4.64	-			USED					RAW	SEWA	(GE		I	
_ 	~	Man-Hours at Plant (Plants less than 1 MGD only)	Air Temperature (optional)	 %	Bypass At Plant Site("x" If Occurred)	Sanitary Sewer Overflow("x" If Occurred)	Chlorine - Lbs/day	Ferric Chloride Lbs/Day or Gal./Day	Gal./Day						lay			:
Day Of Month	Day of Week	at F	0	Precipitation - Inches	ğ Ö	O §	/sq	loride Lb Gal./Day	Gal	o ge			>	mg/l	Solids - lbs/day	g/I		
Ξ	₹	ours a ss tha only)	n ere	<u>=</u>	At Plant S Occurred)	S =	7	- jg	or (Influent Flow Rate (if metered) MGD	ŀ	_	- lbs/day	1	유	Phosphorus - mg/l	Ammonia - mg/l	
Ó	0	Man-Hours lants less th only	iat	5	교정	ţa [×	e E	들 않		86		E B	bs/	Solids	gp	Ś	_ T	
ay	, D	구 s	эф	aţi	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	an	<u> </u>	Ö b	Lbs/Day	∐ e		-	-	Ö	l io	וסנ	jë.	
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				<u> </u>	χρ	Š		Ee Ee	コ	f m	Hd	CBOD5 - mg/l	СВОD5	Susp.	Susp.	ğ	TE	
1			٩	0.34	Ш	-	rav.	212		15.825	7.4	85	11,218	94	12,406	2.92	17.20	,,
2	Sat			0.03		×	731	212		13.320	7.3	67	7,443	60	6,665	2.01	11.20	
3	Sun			0.03			(1131)	215		14.042	7.6	100	11,711	200	23,422	3,30	14.30	
4	Mon		<u> </u>					200		14.167	6.9	114	13,469	172	20,322	3.52	15.70	
5	Tue			0.22				220		14.875	7.1	96	11,910	112	13,894	2.16	16.40	
6	Wed			0.22				220		14.026	7.5	106	12,400	100	11,698	3,62	15.30	
7	Thu		-					220		13.700	6.9	88	10,055	108	12,340	3.38	18.60	,
8	Fri			0.10				220		13,125	7.1	67	7,334	96	10,508	2.88	14.10	
9	Sat			0,10				213		13.000	7.0	72	7,806	108	11,709	2.31	13.60	
10	Sun							202		12.700	7.1	125	13,240	100	10,592	2.98	16,20	
11	Mon							202		12.455	7.0	137	14,231	134	13,919	3.53	16.80	
12	Tue							200		13.100	7.2	143	15,623	226	24,691	3.34	18.50	
13	Wed			0.27				228		13.625	7.1	118	13,409	136	15,454	4.24	16.70	
14	Thu			0.27				213		13.242	7.0	90	9,939	98	10,823	4.00	14.00	
15	Fri			0.01				200		11.950	7.1	98	9,767	90	8,970	3.02	13.40	
16	Sat			0.08				200		11.842	7.4	86	8,494	82	8,099	3.10	13.20	
17	Sun			0.46				200		14.917	7.2	122	15,178	118	14,680	6,56	14.50	
18	Mon			0.01				245		12.377	7.4	114	11,768	252	26,012	5.92	19.80	
19	Tue			0.01	 			259		12.133	7.1	117	11,839	186	18,821	4.76	18.40	
20	Wed			1	 			200	***	12.667	7.0	89	9,402	126	13,311	3,83	17.60	
21	Thu			ļ	1			200		11.783	7.1	116	11,399	176	17,296	6.32	18,50	
22	Fri		 		ļ			200		12.392	7.3	114	11,782	126	13,022	3.62	16.00	
23	Sat		<u> </u>	0.97				243		16,000	7.4	132	17,614	196	26,154	2.92	13.50	
24	Sun			0.07				234		11.692	7.2	97	9,459	238	23,208	4.44	16,70	
25	Mon			1,60				225		19.442	6.9	97	15,728	190	30,808	2.38	10.70	
26	Tue			1,00				200		13.867	7.2	86	9,946	136	15,729	3.12	16.20	
27	Wed			 	 	 		200		12,600	7.4	128	13,451	144	15,132	3.75	16.90	
28	Thu Fri			0.16	 	-		237		12,358	7.0	98	10,100	108	11,131	3.41	16.50	
29			ļ	0.39	 	-		210		14.733	7.2	98	12,042	90	11,059	2.75	13.80	
	Sat Sun			10.00	 	1		202		12,291	7.1	87	8,918	76	7,791		14.00	
31	oun			 	 					,,	, , ,	-,	-,		.,	, -	15	
Ave	rano	L		0.36				214		13.475	W. 1	103	11,556	136	15,322	3.63	15.61	
	age imum			1.60				259		19.442	7.6	143	17,614	252	30,808		19.80	
	mum			0.01				200		11.692	6.9	67	7334	60	6665	2.01	10.70	
17(1) 11	muni			1 0.01		451		200		71.002	0.0	٥,	, 55 ,		_ 5555_		, , 5., 0	
										10.00								
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7 01		tify under	L							Prepared by	······································						onth, day,	· · · · · · · · · · · · · · · · · · ·
i		,								r repared by	or undel	uje ujietili	ii oi (oeitiile	u Operall		Logic (III)	onui, uay,	Juai)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of principal executive officer or authorized agent (or attested by NetDMR subscriber agreement)

aura Wo

Date (month, day, year)

Individual Making Report (printed)

SIGNATURE:

Laura Kolo

BYPASS / OVERFLOW INCIDENT REPORT

State Form 48373 (R7 / 4-16) Indiana Department of Environmental Management Office of Water Quality

☐ Follow-up to Bypass	report
previously sent on:	

☑ AM □ PM

INSTRUCTIONS:

Complete all parts of this form and email signed copies to www.email.gov. Submittal of this report will satisfy the Office of Water Quality (OWQ) telephone and written bypass/overflow reporting requirements of your NPDES permit. Please use and the second page of this form as necessary to identify separate locations caused by the same event. If you have any questions while filling out the report form, please contact Renee Repar at (317) 232-6770 or repar@idem.in.gov.

To report a s Response Se	pill or if the release ction spill response li	is result ine at: (3	ing in a fish kill o 17) 233-7745 or to	or other se oll free with	vere environn in Indiana at (8	nentai damage, imn 388) 233-7745.	nediately	/ геро	n the release	to the Emergency
				GENERA	L INFORMATI	ON	i.			· .
(1) Facility Na	me (Organization)		(2) Mailing		porting organi:		(3) C	ounty		(4) NPDES Permit
	ublic Works		1 ' '	•	ee Street	,	1 ' '	hart		IN00025674
Likilaiti	ablic vvolks		•		RMATION (L	ocation 1)	LIK	IUIT		1110002001 1
(5) Outfall Number	(6) Date (mm/dd/yy) a Release Began	ind Time	(7) Date (mm/dd/yy Release Stopped		(8) Location of	Release (streets addre Station, Force Main etc.			atitude Min Sec)	(9) Longitude (Deg Min Sec)
	06/02/24 1:25	⊿ AM □ PM	06/02/24 1:50	AM PM	MH 140-2	0 @ Edgewater			40 47 N	85 59 58 W
	of Flow Released	(Alv	vays provide a voi			(11) WWTP Flow Dur	ring Relea	ase		eak Design Flow Rate
Check one: 🕟		Actual	226,150			est 13.8 MGD			44.0 MG	D
Sanitary S ☐ Treatment ☐ Prohibited ☐ Dry Weath ☐ Combined (15) Reason f ☐ Construction (16) System Construction (Select one on one of one one one one one one one one one one	Component(s) r more.) eral ee ion Failure Bypassed ructure /alve an Out	verflow Overflow ase v (Select of Power Fa (17) At a CS nea Upo pov bee Thi res are rea	one or more.) illure	nent Failure iption of the 30 pm on J ast week, it k had overfl was found WWVTP. Ea owing previ ediately cor menting thi and it does St Joe Rive	Unknow Bypass / Ove une 6, during a was realized t both events oc urly warning no ious similar occ rected with the s notification. s not appear the	rflow Event: a routine review of that MH 140-20 the days prior. courred during a stifications that had currences failed. e contractor The site affected	Max Car (18) D (Chec Aff B Oc Re	pacity escrip ck all i ected seme curred ached		rea Impacted erty nt Plant Vater
	il organizations notifi ergency Response	ied by fac ☐ Healt			<i>or more.)</i> sh and Wildlife	☐ Local Emerge	ency Ma	nagen	nent 🗌 Oth	ner: n/a
(20) A -# T	aken to Prevent, Mir	nimizo -:	Mitigata Damasa	including (Mean up and T	Treatment of Affactor	d Δrea			11/4
(Select one of ☐ Removed cause for por	r more of the followin Blockage □ Rep wer failures remain u	ng, then a paired Pipe unconfirm	dd a written descr e □ Repaired ed	<i>iption.)</i> Pump Stati			Clean	-Up C	ebris)	
(21) Resolution investigation entire wastev	on: Actions Taken or is on-going and we water plant	Planned are workii	to Prevent Recurring with local elect	ence rical contra	ctor to plan an	extensive evaluate	of the el	ectric	al systems to	and through the
(22)										
designed to a manage the s belief, true, ad	penalty of law that to ssure that qualified p ystem, or those pers courate, and complet for knowing violation	oersonnel sons direc te. I am a	nent and all attach properly gather a tly responsible for ware that there ar	nments were nd evaluate gathering f re significar	the information the information at penalties for	der my direction or son submitted. Based In the information sub	d on my omitted i ormation	inquir is, to t , inclu	y of the perso he best of my Iding the poss	on or persons who y knowledge and sibility of fine and

Contact Email

laura.kolo@coei.org

Telephone Number

(574) 293-2572



BYPASS / OVERFLOW REPORT (Supplemental Locations)

State Form 48373 (R7 / 4-16) Indiana Department of Environmental Management Office of Water Quality

☐ Follow-up to Bypass	report
previously sent on:	

(23) Complete all parts of each table for additional discharge locations caused by the same event as on the first page.

For any locations identified in the NPDES permit, include the Outfall number for that location from the permit.

For an	For any locations identified in the NPDES permit, include the Outfall number for that location from the permit.										
140 mm (1560 1560			PELEAS	SE INI	FORMATION (Location 2)						
Outfall Number	Date <i>(mm/dd/yy)</i> a Release Began	and Time	Date (mm/dd/yy) and T Release Stopped		Location of Release (streets addres Manhole, Lift Station, Force Main et		Latitude (Deg Min Sec)	Longitude (Deg Min Sec)			
	06/03/24 8:40	☑ AM □ PM	06/03/24 8:50		MH 140-20 @ Edgewater		41 40 47 N	85 59 58 W			
	Flow Released ed	☐ Affect	on of the Area Impacted ed Private Property hed Public Land	□ B □ R	asement Backup eached Receiving Water	Name n/a	of Receiving Water	r Impacted			
					FORMATION (Location 3)						
Outfall Number	Date (mm/dd/yy) a Release Began		Date (mm/dd/yy) and T Release Stopped		Location of Release (streets addres Manhole, Lift Station, Force Main et	s or c.)	Latitude (Deg Min Sec)	Longitude (Deg Min Sec)			
_		☐ AM ☐ PM		AM PM							
🖵 Estimate	Flow Released ed	☐ Affect	on of the Area Impacted ted Private Property hed Public Land	□В	eck all that apply.) asement Backup leached Receiving Water	Name	of Receiving Water	rimpacted			
			RELEAS	SE IN	FORMATION (Location 4)						
Outfall Number	Date (mm/dd/yy) : Release Began		Date (mm/dd/yy) and T Release Stopped	Time	Location of Release (streets address Manhole, Lift Station, Force Main et		Latitude (Deg Min Sec)	Longitude (Deg Min Sec)			
		☐ AM ☐ PM		AM PM							
☐ Estimate	Flow Released ed	☐ Affect	on of the Area Impacted ted Private Property hed Public Land	□В	neck all that apply.) Lasement Backup Leached Receiving Water	Name	of Receiving Water	r Impacted			
			RELEAS	SE IN	FORMATION (Location 5)						
Outfall Number	Date (mm/dd/yy) Release Began	and Time	Date (mm/dd/yy) and T Release Stopped	Time	Location of Release (streets address Manhole, Lift Station, Force Main et		Latitude (Deg Min Sec)	Longitude (Deg Min Sec)			
		AM □ PM		AM PM							
Amount of Flow Released Description of the Area Impacted (Check all that apply.) Estimated Actual Affected Private Property Basement Backup Gallons Reached Public Land Reached Receiving Water											
					FORMATION (Location 6)						
Outfall Number	Date <i>(mm/dd/yy)</i> Release Began		Date (mm/dd/yy) and T Release Stopped		Location of Release (streets addres Manhole, Lift Station, Force Main et		Latitude (Deg Min Sec)	Longitude (Deg Min Sec)			
		☐ AM ☐ PM		AM PM							
Amount of Flow Released								r Impacted			
					FORMATION (Location 7)						
Outfall Number	Date <i>(mm/dd/yy)</i> Release Began	and Time	Date (mm/dd/yy) and T Release Stopped		Location of Release (streets addres Manhole, Lift Station, Force Main e		Latitude (Deg Min Sec)	Longitude (Deg Min Sec)			
		☐ AM ☐ PM		AM PM							
☐ Estimate	Flow Released ed	☐ Affect	ion of the Area Impacted ted Private Property hed Public Land		neck all that apply.) Basement Backup Reached Receiving Water	Name	of Receiving Wate	r Impacted			
			(ATTACH ADI	DITIO	NAL SHEETS IF NECESSARY.)						
			CERT	IFICA	TION AND SIGNATURE						
I certify und designed to	der penalty of law the assure that qualifi	at this doo	cument and all attachme	ents w	ere prepared under my direction or state the information submitted. Based	uperviși on my	on in accordance w inquiry of the perso	ith a system n or persons who			

CERTIFICATION AND SIGNATURE
certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system
designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who
manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and
pelief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and
mprisonment for knowing violations.
DATE (month, day, year): 06/07/24
DATE (month, day, year): 06/07/24

Kolo, Laura

From:

postmaster@state.in.us

Sent:

Friday, June 7, 2024 6:43 AM

To:

Kolo, Laura

Subject:

EXTERNAL: Relayed: IN0025674_INC_RPT_2024_06_01

Attachments:

EXTERNAL: Relayed: IN0025674_INC_RPT_2024_06_01

Caution: This email originated from outside of the organization. Please take care when clicking links or opening attachments. When in doubt, contact your IT Department

State Form 10829 (R4 / 01-20)			
Name of Facility	Permit Number	Month	Year
Elkhart	IN0025674	June	2024

	PRIMAR				AEI	RATIO	1			SECON			F	INAL E	FFLUE	ENT		
	EFFLUE	ENT	MIXED LI	QUOR	т			RETURN S	LUDGE	EFFLUE	NT		1					
Day Of Month	CBOD5 - mg/l	Susp. Solids - mg/l	Settleable Solids % in 30 minutes	Susp. Solids - mg/l	Sludge Vol. Index - ml/gm	Dissolved Oxygen - mg/l	Temperature - F	Volume - MG	Susp. Solids - mg/l	CBOD5 - mg/l	Susp. Solids - mg/l	Residual Chlorine - Final	Residual Chlorine - Contact Tank	E. Coli - colony/100 ml	pH - daily low (or single sample)	pH - daily high (if multiple samples)	Dissolved Oxygen - mg/l	Oil & Grease (mg/l)
1	62	45	170	2,872	59	4.3	17	6.262	6,500					6	7.0		8.8	
2	53	48	158	3,376	47	4.5	17	6.478	3,420					13	7.0		8.4	
3	50	55	166	3,500	47	4.7	17	5.010	5,660					8	7.0		8.6	
4	61	64	156	2,860	55	3.9	18	6.217	5,880					12	7,5		8.9	
5	60	54	167	2,648	63	4.4	18	6.487	6,160					6	7.0		8.8	
6	71	55	162	2,688	60	4.5	17	6.379	5,840					10	7.0		8.7	
7	61	70	164	2,648	62	4.3	18	6.487	5,920					16	7.0		8.8	
8	53	48	150	2,752	55	4.7	17	6.487	5,820					10	7.0		8.4	ļ
9	50	52	146	3,200	46	5.0	17	6.487	6,300					5	7.5		8.4	
10	61	64	145	4,776	30	4.8	17	6.433	6,080					26	7.4		8.6	
11	88	55	144	2,332	62	4.0	17	6.442	4,260	1				26	7.2		8.5	
12	75	67	148	2,536	58	4.2	17	6.487	6,020					19	7.0		8.3	
13	86	61	144	2,736	53	4.1	18	6.487	5,080					20	7.0		8.2	
14	73	48	151	2,396	63	4.4	18	6.487	4,860					17	7.1		7.9 8.5	
15	69	52	149	2,560	58	4.6	18	6.487	4,660					30 23	7.0	,	8.3	
16	64	52	138	2,804	49	4.6	18	6.487	5,000					21	7.0		7,9	
17	71	66	118	4,260	28	3.3	20	6.487	5,300					10	7.0		8.5	
18	66	75	143	2,532	56	3.7	18	6.487	4,860					19	7.4		8.1	
19	76	70	149	2,520	59	4.6	18 19	6.487 6.487	5,300 5,040					15	7.0		8.1	
20	59	43	142	2,380	60	4.3	20		3,720					15	7.0		8.3	
21	92	88	139	2,364 2,476	59 58	4.4 4.4	19	6.523 6.487	4,280					15	7.0		8.1	
22	80 81	59 71	143	2,470	40	4.4	21	6,487	6,520	1				30	7.0		8.1	
23 24	60	52	130	2,864	45	4.2	19	6.487	4,840					11	7.1		8.2	
25	66	88	128	2,364	54	4.5	20	6.469	5,200					13	7.3		8.0	
26	64	58	126	2,432	52	3.4	19	6.474	5,660					3	7.0		8.0	
27	78	64	130	2,344	56	3.4	19	6.487	4,820					10	7.0		8.2	
28	78	46	130	2,588	50	4.7	19	6.487	5,500					17	7.2		8.5	
29	84	55	128	2,368	54	4.4	20	6.487	5,320					20	7.0		8.4	
30		36	124	2,568	48	4.4	19	6.487	5,880					24	7.3		8.4	
31		-	121	1,000	10				-,									
Avg.	69	59	143	2,781	53	4.3	18	6.414	5,323					16		73 - 7 - 7	8.4	
Max		88	170	4,776	63	5.0	21	6.523	6,520					30		7.5		
Min.	50	36	106	2332	28	3.3	17	5.010	3420					3		7.00	7.9	
	y Max				,								31	30				
		ove 235												0				
Data		T		30	30	30	30	30	30	0	0		1 0	30	30	0	30	0
	•																	ì

Comments for the Month (major repairs, breakdowns, process upsets and their causes, inplant treatment process bypass, etc.):
The 06/01/24 the E. Coli sample was collected at 8:13 am and put in the incubator at 8:21 am. On 6/2/24 at 12:24 am the plant lost power for appx 1.5 hours. On 6/2/24 at 6 am, the lab found the incubator temp at 29 degrees and reset the temp. Becuase the sample result read at 8:30 am and then again at 12:20 pm had not changed, our confidence level in the result reported is very high.

State Form 10829 (R4 / 01-20)			
Name of Facility	Permit Number	Month	Year
-			
Elkhart	IN0025674	June	2024
	111002007 1		

	I						EI	NAL EFI	ELLIENT	7							
		Flow		BOD						d Solids	.	Ammon	ia			Phosph	orus
								70141 01	юропис								
Day Of Month	Day of Week	Effluent Flow Rate (MGD)	Effluent Flow Weekly Average	CBOD5 - mg/l	CBOD5 - mg/l Weekly Average	CBOD5 - lbs/day	CBOD5 - Ibs/day Weekly Average	Susp. Solids - mg/l	Susp. Solids - mg/l Weekly Average	Susp. Solids - Ibs/day	Susp. Solids - lbs/day Weekly Average	Ammonia - mg/l	Ammonia - mg/l Weekly Average	Ammonia - Ibs/day	Ammonia - Ibs/day Weekly Average	Phosphorus - mg/l	Phosphorus - lbs/day
1	Sat	18.838		2		314		5		786		0.04		6.3		0.86	135
2	Sun	16.828		2		281		4		547		0.04		5.6		0.78	109
3	Mon	18.542		2		309		3		495		0.35		54.1		0.79	122
4	Tue	16.731		2		279		4		516		0.24		33.5		0.85	119
5	Wed	17.935		2		299		5	***************************************	703		0.45		67.3		0.74	111
6	Thu	16.047		3		401		4		522		0.49		65.6		1.00	134
7	Fri	15.460		2		258		5		683		0.20		25.8		0.83	107
8	Sat	16.211	16.822	2	2.14	270	300	6	4.40	825	613	0.34	0.30	46.0	43	0.98	132
9	Sun	14.590	101022	2		243		6		681		0.09	-	11.0		0.86	105
10	Mon	15.474		2		258		6		710		0.06		7.7		0.79	102
11	111011	15.577		2		260		6		779		0.06		7.8		0.78	101
	Tue Wed	15.992		2	·	267		8		1,040		0.05		6.7		0.80	107
13		16.069		2		268		10		1,313		0.05		6.7		0.70	94
	Thu Fri	14.479		2		242		10		1,159		0.62		74.9		0.70	85
15	Sat	13.863	15.149	3	2,14	347	269	8	7.44	902	941	0.06	0.14	6.9	17	0.70	81
16		14.632	10,140	2	2,17	244	200	6	7,77	708	0,11	0.69	0.11	84.2		0.92	112
17		18.806		3		471	,	6		878		0.07		11.0		0.40	63
18	Mon	14.823		2		247		3		396		0.28		34.6		0.58	72
19	+	14.781		2		247		3		394		0.23		28.4		0.67	83
20	7,00	14.781		2		240		3		396		0.05		6.0		0.70	84
21		14.531		2		242		3		364		0.19		23.0		0.71	86
	Fri	14.331	15,168	2	2.14	237	275	2	3.77	273	487	0.13	0.23	13.1	29	0.96	114
22	Sat	20.455	13,100	3	2,14	512	213	5	3.11	836	407	0.19	0.20	32.4	20	1.21	206
	Sun	14.760		2		246		4		443		0.13		17.2		0.83	102
24	111071	25.927		2		432		4		843		0.14		73.5		0.74	160
25		16.919		2		282		4		494		0.09		12.7		0.74	58
	Wed					397		4		463		0.05		6.6		0.53	70
27		15.865		3								0.03		14.1		0.67	86
28	1	15.357	40.004	2	- 0.00	256	240	3	0 77	435 557	582	0.11	0.14	9.3	24	0.67	141
29		18.542	18.261	2	2.29	309	348	4	3.77		562		0.14		24	1.16	146
	Sun	15.046		2		251		4		439		0.04		5.0		1.16	146
31		10.555		_					1 - 1798 r guit	050		0.40		00.0	Janes Barrier	0.70	400
Avg		16.390	40.554	2	0.66	297	0.40	5	7 11	653	0.44	0.19	0.00	26,6	40	0.79	108
Max		25.927	18.261	3		512	348	10	7.44	1,313	941	0.69	0.30	84.2	43	1.2	206
Min		13,863	15.149	2	2.14	237	269	2	3.77	273	487	0.04	0.14	5.0	17	0.4	58
								34 (1)									
Data	а	30	4	30	4	30	4	30	4	30	4	30	4	30	4	30	30

	MONTHLY RE	MOVAL SUMI	VIARY		Total Monthly Flo	w:
Percent Removal	BOD5	S.S.	Ammonia	Phosphorus	(million gallons)	492
Primary Treatment	33.43	56.8		19.53.05	_	
	NA	NA			Percent Capacity	
Secondary Treatment	96.8	91.6		100000000000000000000000000000000000000	(actual flow/design)	82%
Overall Treatment	97.89	96.4	98.8	78.4		
Phosphorus limit would be	75	% removal.	(compliance	achieved)		

Name of Facility Permit Number Month	
Traine of Custom	Year
Elkhart IN0025674 Jun	e 2024

		I												
	SLUDG	E TO				DIG	STER	DPERAT	ION					
	DIGEST	TER	Anaerol	bic Only										
Day Of Month	Primary SludgeGal. x 100	Waste Act. Sludge Gal. x 1000	Hd	Gas Production Cubic Ft. x 1000	Temperature - F	Supernatant Withdrawn hrs. or Gal. x 1000	Supernatant BOD5 mg/l or NH3-N mg/l	Total Solids in Incoming Sludge - %	Total Solids in Digested Sludge - %	Volatile Solids in Incoming Sludge - %	Volatile Solids in Digested Sludge - %	Digested Sludge Withdrawn hrs. or Gal. x 1000		
1	35.48	216.00	7.1		96	14.148		5.51	1.99	74.19	55.92			
2	31.27	216.00	7.2		96	0.000		4.89	2.02	74.40	57.43			
3	23.01	216.00	7.3		96	0.000		3.59	2.06	79.02	57.14			
4	21.78	216.00	7.4		97	10.611		4.55	2.12	76.36	57.06	130.07		
5	43.70	216.00	7.3		97	17.685		4.97	2.10	74.60	58.66	130.49		
6	39.13	216.00	7.3		96	7.074		4.24	1.96	73.68	56.00	111.59		
7	32.63	234.72	7.2		96			4.56	1.89	75.39	58.97			
8	47.91	239.04	7.0		90			4.61	1.52	76.26	57.00			
9	25.11	239.04	6.9		86			4.46	2.64	78.08	61.80			
10	31.96	237.60	7.0		96	17.685		5.21	2.16	78.90	58.52			
11	24.73	239.04	7.1		96	17.685		4.53	2.14	76.94	56.95	129.86		
12	18.03	239.04	7.2		96	17.685		3.54	2.20	73.71	55.41	92.68		
13	41.37	239.04	7.1		96	17.685		3.62	2.24	72.35	57.25	130.91		
14	41.68	239.04	7.2		96			4.23	2.19	76.42	57.47			
15	40.98	239.04	7.3		96	7.074		4.80	2.18	77.46	58.72			
16	24.39	239.04	7.2		96			3.93	2.30	82.76	57.74			
17	43.07	239.04	7.2		97	21.222		4.66	2.33	67.72	57.39	117.15		
18	36.72	239.04	7.2		97	14.148		4.50	2.31	67.63	57.81	131.92		
19	45.21	239.04	7.3		98	10.611		4.54	2.39	67.02	57.89			
20	40.38	252.00	7.3		98	7.074		3.61	2.37	72.60	56.99	127.74		
21	45.87	254.88	7.2		98	7.074		4.13	2.45	68.20	58.03	70.54		
22	40.97	254.88	7.3		98	14.148		1.87	2.26	67.37	55.04			
23	45.43	254.88	7.3		98	49.518		4.80	2.44	72.54	58.19			
24	29.57	254.88	7.3		98	0.000		4.73	2.50	72.94	57.53	112.30		
25	39.51	257.76	7.4		97	10.611		3.68	2.42	64.22	56.80	48.67		
26	46.81	241.92	7.3		94	14.148		5.40	2.44	63.19	57.39	122.30		
27	38.08	239.04	7.4		98	3.537		4.72	2.39	68.08	56,83	121.44		
28	41.48	234.72	7.3		97			2.74	2.31	67.34	54.71			
29		250.56	7.3		98	3.537		4.47	2.40	71.86	57.56			
30			7.2		97	3.537		4.89	2.35	74.44	56.91			
31														
Avg.	35.80	238.13			96	11.937		4.33	2,24	72,86	57.37	112.69		
Max.	47.91	257.76	7.4		98	49.518		5.51	2.64	82.76	61.80	131.92		
Min.	13.14	216.00	6.9		86	0.000		1.87	1.52	63.19	54.71	48.67		
Data	30	30	30	O	30	24	0	30	30	30	30	14	0	0
Data				<u> </u>								·		

Once completed, this form should be converted to a pdf document, named appropriately & attached to the corresponding netDMR for submittal

Name of F	acility	R4 / 01-20) Permit Numb	981	Month		Year										
Elkhart		IN00256		Ju		202	24									
				State Form	30530									I		
	Chl	Final oride	Effluent	Vitrogen												
	Oili	liue	TOTALL	litogen												
Day Of Month	Chloride - mg/l	Chloride - lbs/day	Total Nitrogen- mg/l	Total Nitrogen- lbs/day	Ag - Influent mg/I	Ag - Effluent mg/L	Cd - Influent mg/L	Cd - Effluent mg/L	CN - Influent mg/L	CN - Effluent mg/L	Cr - Influent mg/L	Cr - Effluent mg/L	Cu - Influent mg/L	Cu - Effluent mg/L	Hg - Influent ng/L	Hg - Effluent ng/L
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3			12.70	1,964	0.0002											
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24	185	22,773			0.0009											
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31	185	22,773	12.70	1,964	0.0005	0.0003										
Avg. Max.	185	22,773		1,504	0.0003											
Min.	185	22,773	12.70	1964		0.0002										
Data	1	1	1	 	4	4	0	0	0	0	0	0	0	0	0	C

WASTEWATER TREATMENT PLANT

State F Name of	orm 10829 Facility	(R4 / 01-20) Permit Numb) per	Month		Year		1								
Elkhart		IN00256	574	Ju	ne	20	24									
			stitute for				<u></u>									
		Jub	Stitute ioi	State I GII	11 30330						<u> </u>					Γ
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£	mg	l E	E,	Ĕ	Ε̈́	Ĕ										
<u>0</u>	Ni - Influent mg/L	Ni - Effluent mg/L	Pb - Influent mg/L	Pb - Effluent mg/L	Zn - Influent mg/L	Zn - Effluent mg/L										
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Day Of Month	<u>=</u>	<u>m</u>	<u> </u>	Щ	<u>-</u>	Щ										
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	Elkhart		DEPARTMENT							Page '	l of	9		P	erm	nit Number:	IN	0025574	
Facility:	Elkhart P	ublic Wor	Public Notification Requirements Met? Y																
Monitor	ing Perioc	ŀ	June	2024							E	nter "x" if	no	CSO disch	arg	e occurred	for	the month:	1
Design	Peak Houi	ly Flow (N	/IGD):	44	Design Average Flow (MGD): 20					Measured/	Met	ered (M) o	or E	stimated (E) m	ust be spec	ifie	d	
WWT	2 Influent	Data		Pro	ecipitation Data			С		SO Outfall No.		005		CSO Outfall		l No. 006			
Day of Month	Average Dally Flow (MGD)	Peak Hourly Flow (MGD)	Time Precip. Began (am/pm)	Precip. Duration (Hours)	Total Daily Precip. (Inches)	Peak Intensity (Inch/hr)	Measureme nt Interval (hr, 30 m, 15 m)	Time Discharge Began	M or E	Event Duration (Hours)	M S S E	Event Discharg e (MG)	M o E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M
1	15.83	24.30	3:16 PM	6,25	0,34	0,32	15 min										Ī		T
2	13.32	14.50	2:31 AM	4.17	0.03	0.04	15 min												T
3	14.04	16.30					15 min												Γ
4	14.17	16,10					15 min												T
5	14.88	20,20	4:26 AM	14.67	0.22	0,48	15 min										T		Γ
6	14.03	17.10					15 min												Π
7	13.70	16.80					15 min												T
8	13.13	16.10	9:26 PM	1.25	0.10	0,16	15 min												
9	13.00	16,50					15 min												
10	12.70	15,00					15 min										Π		Τ
11	12.46	14.20					15 min										Γ		Π
12	13.10	14.80					15 min												
13	13.63	18.10	5:36 PM	1.55	0.27	0.80	15 min												
14	13.24	15.70	4:51 AM	0.08	0.01	0.04	15 min												
15	11.95	13.50					15 min												
16	11.84	13.00	11:31 PM	0.55	0.08	0,20	15 min												
17	14.92	28.00	12:01 AM	2,58	0.46	1.16	15 min							12:18 AM	М	0.17	М	0.0148	М
18	12.38	13.40	11:54 AM	0.20	0.01	0.04	15 min												
19	12,13	15,00					15 min												
20	12.67	15.40					15 min												<u> </u>
21	11.78	13,60					15 min												
22	12.39	15.40					15 min												
23	16,00	35,40	2:16 AM	5.97	0.97	1.24	15 min												
24	11.69	13.20					15 min												
25	19.44	42.30	9:06 AM	3.72	1.60	2.36	15 min							9:33 AM	м	1.00	М	0.957	М
26	13.87	17.00					15 min												
27	12,60	13,90					15 min												
28	12,36	16,10	3:21 PM	8,72	0.16	0,36	15 min												
29	14,73	23,30	12:01 AM	21.08	0.39	0.52	15 min												
30	12.29	14.80					15 min												
Totals:	404,25			70,79	4.64			0	Da ys	0.00		0		2	Da ys	1,17		0.9718	



National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) ENT OF ENVIRONMENTAL MANAGEMENT

	DEPARTME	NT C	OF ENVIRO	ONME	ENTAL MAN	VAG	EMENT														0005574			
	Elkhart		- 1011		1411141								Page 2						nit Number:	1	0025574			
	Elkhart P				j											SET/A			nents Met?	846.5				(Challe S
MARKET !	ing Period:			ine	2024							000000							discharge			or tr	e montn:	
Design	Peak Flow				44	W	Design Fl				20		Measured/					<u>:) m</u>	ust be spec					ì
		CS	O Outfall	No.	007			cs	O Outfall	No.	800			cs	O Outfall	No.	009			C	SO Outfal	l No.	011	
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Discharge	M or E		M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Discharge	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E		M or E	Event Discharge (MG)	M
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17	12:27 AM		0.59	М	0.1013	1,		Н		-			12:41 AM	M	0.42	M	0.0101	NA.	12:19 AM	<u></u>	0.17	L.	0.0147	
18	12.27 AW	IVI	0.58	IVI	0.1013	101		Н		 			12.41 AIVI	IVI	0.42	IVI	0,0161	101	12.19 AW	IVI	0.17	IVI	0.0147	IVI
19		Н		H		Н				_					•			_		<u> </u>		<u> </u>		
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23		П		<u> </u>		П		П												T				
24		П		T	T			П												<u> </u>		-		
25	9:37 AM	М	2.25	м	0.3879	М	9:30 AM	м	0.57	М	0.0752	м	9:46 AM	м	2.08	м	0.0903	м	9:29 AM	м	0.92	м	0.0862	м
26	0.077111	m		1	5.5070	1.4,	0,0071111	,,,,	5,01	ļ <u>.</u>	0.5,52	<u> </u>	5, 157 1171	.,,	2,00		2,2000		2,207,1171		5,02	·	5,5002	
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	C	Da ys	0.00		0.4800		1	Da ys	0.57		0.0750		2	Da ys	2.50		0.4004		2	Da ys	4.00		0.4000	
Totals:	2	ys	2.83	10208	0.4892	1800	restree lessons	ys	0.57	480000	0.0752	1.000	<u> </u>	ys	2,50	55,60	0.1084	10,650	<u> </u>	(ys	1.09	l segment	0,1009	Paris



National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

INDIANA	DEPARTME	NT C	F ENVIRO	NM	ENTAL MAN	VAG	EMENT																	
City:	Elkhart												Page 3	3 of	9		P.	ern	nit Number:	IN	0025574			15150
Facility	Elkhart P	ubli	c Works	& l	Jtilities		T		6 50-160 000	TOWNS.		10144		Pı	ıblic Noti	fica	ıtlon Requi	ren	rents Met?	Y				
Monitor	ing Period:		Ju	ne	2024										Ente	er'	'x" if no C	SC	discharge	9 00	curred f	or th	e month:	
Design	Peak Flow	(Ho	ırly) (MG	D): ˈ	44	12552	Design F	ow	(MGD):		20	ristic.	Measured/	Met	ered (M)	or E	stimated (E) i	nust be spe	ecifi	ed			
		CSC	Outfall	No.	012			cs	O Outfall	No.	013			CS	Outfall	No.	14B			C	SO Outfal	I No.	015	
Day of Month	Time Discharge Began	M 07 E	Event Duration (Hours)	_ કે હ	Event Discharge (MG)	M or E	Discharge	M or E		M or E		M or E	Discharge	M or E	Duration		Discharge	M or E	Discharge	M or E			Event Discharge (MG)	M oi E
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17	2:27 AM	м	0.17	м	0,0028	м													2:35 AM	м	0.17	М	0,0009	м
18						1.																		
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20																								
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22												Ĺ												
23	2:42 AM	М	0,33	М	0.0097	М													2:56 AM	М	0.50	М	0.0172	М
24																								
25	9:42 AM	М	1.00	м	0.1059	м	9;32 AM	м	1.00	М	0.1481	М							9:36 AM	М	1.92	М	0.5966	М
26																								
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) NT OF ENVIRONMENTAL MANAGEMENT

	DEPARTME	NT O	F ENVIRO	NME	NTAL MAN	AGE	MENT													1				
	Elkhart												Page 4					144 A	nit Number:	ė.	00255/4			
Facility:	Elkhart P	<u>ublic</u>	Works	& U						4000				P				15,755	nents Met?					
Monitori	ing Period:		Ju	ne	2024						1							i (fiz.ii)	discharge			or th	e month	
Design i	Peak Flow	(Hou	irly) (MGI	D):	44	316	Design Fl	to the			20		Measured/					<u>E) m</u>	ust be spe					MAR.
		CS	Outfall	No.	016			CS	O Outfall	No.	017			CS	O Outfall	No.	018			C:	SO Outfa	l No.	019	T
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Discharge		Event Duration (Hours)			M or E						e M
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Totals:	1	Da ys	0.92		0.1524		1	Da ys	1,67		0.3974		3	Da ys	5,31		0.1729		1	Da ys	1.33		0.0761	



National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) Stale Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

	Elkhart	.141 C	LIVING	NAINE	NTAL MAN	AG	- MEIAI						Page !	of	9		p)ern	nit Number:	INI	0025574			
	Elkhart P	uhli	n Works	æ I	Itilities								, age			ifica			nents Met?					
	ing Period:			ine	2024														discharge		curred fe	or th	e month:	
	Peak Flow				44		Design Fl	ow	(MGD):		20		Measured/	Met					ust be sper					
	100 m		O Outfall		020				O Outfall	No.	023				O Outfall	161100					O Outfal	l No.	025	
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: Elkhari Facility: Elkhari Monitoring Perio Design Peak Flo Day of Month Day of Month Day of Month Discharia Begar 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	eriod; Flow (Hou CSC M	Ju rly) (MGi) Outfall Event	ne D): No. M	2024 44 026	M or E	Time Discharge	CS M or	O Outfall Event Duration	м	20 027		Page (P Mete	ublic Noti Ente	er ''	tion Requ	iren SO	It Number: ents Met? discharge ust be spec	Y oc	curred fo	or the	e month:	
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Day of Month Dischar Begar 1	arge	or	Duration	or	Discharge	or	Discharge	ог	Duration		Event				O Outfall	No.	028			CS	O Outfall	No.	029	Test
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) NT OF ENVIRONMENTAL MANAGEMENT

	DEPARTME Elkhart	NT C	OF ENVIRO	NME	NTAL MAN	IAG	EMENT						Page 7	' of	9			ern	it Number:	IN	0025574			
	Elkhart P	ubli	c Works	. ዴ !	Itilities											ifica			ents Met?	1				
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Day of Month	Time Discharge Began	M or E	Eyent Duration (Hours)	M or E	Discharge	M or E	Discharge	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Discharge	M or E	Event Duration (Hours)	M or E		M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) Slate Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

INDIANA	DEPARTME	NT C	F ENVIRO	ONME	NTAL MAN	IAG	EMENT											NAME:		1				
City:	Elkhart												Page 8	3 of	9	Japan Sa		ern	it Number:	IN	0025574	desta de		5454561
Facility	Elkhart P	ubli	c Works	& L	Itilities	_	Barris and the Barris	de servi	na manana ana an	war i S	reconstructive distances	V45.955		Р	ublic Not	ifica	ition Requ	iren	ents Met?	Υ				
Monitor	ing Period		Ju	ne	2024										Ent	er"	x" if no C	so	discharge	9 00	curred fo	or th	e month:	2000000
Design	Peak Flow	(Hoı	ırly) (MG	D):	44		Design Fl	ow	(MGD):		20		Measured/	Met	ered (M) o	or E	stimated (E) n	ust be spe	cifie	od			
		cs	O Outfall	No,	037			cs	O Outfall	No.	039	i i		cs	O Outfall	No.	040			Ç	SO Outfal	No.		
Day of							Discharge			M or			Discharge				Event Discharge		Time Discharge	M or	Event Duration	M		
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	Elkhart			Page: 9 of 9	Permit Number: IN0025574
Facility	Elkhart Public Works & Utilities			Public Notific	cation Requirements Met? Y
Monito	ring Period; June 2024			Enter "x" if no	o CSO discharge occurred for the month:
Deslgn	Peak Hourly Flow (MGD): 44	Design Average Flow (MGD):	20		
Day of					
Month 1	Comments (further explanation as	s to why each CSO event occurred)			
2	precipitation				
3	precipitation				and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th
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ICERT				REPARED UNDER MY DIREC	CTION OR SUPERVISION IN ACCORDANCE
	SYSTEM DESIGNED TO ASSURE THAT				
INQUIR	Y OF THE PERSONS WHO MANAGE THE	SYSTEM OR THOSE PERSONS DIREC	CTLY RESP	ONSIBLE FOR GATHERING	THE INFORMATION; THE INFORMATION
					THERE ARE SIGNIFICANT PENALTIES FOR
	TTING FALSE INFORMATION, INCLUDING		GSONMENT	FOR KNOWING VIOLATION	~
Signatu	re of Principal Executive Officer or Auth	D-			Date (mm/dd/yy)
	Leura Ke	ρο			7/2607/26/24

Kolo, Laura

From: postmaster@state.in.us

Sent: Friday, July 26, 2024 9:49 AM

To: Kolo, Laura

Subject:EXTERNAL: Relayed: IN0025674 POST TRE 2/3Attachments:EXTERNAL: Relayed: IN0025674 POST TRE 2/3

Caution: This email originated from outside of the organization. Please take care when clicking links or opening attachments. When in doubt, contact your IT Department

Permittee/Location Elkhart WWTP Elkhart, IN			Permit N IN002567			Outfall 035	Number:
Laboratory Name and Conta Biomonitor Michael Britton	ct:		Report D	ue Date:		Report June	Date: 2024
WETT Reporting Frequency or Type:	Monthly	Quarterly	Semi- annual	Annual	TRE	Post TRE	Second (per Reporting Frequency)
(mark one)]		Х				

Test Organism	Test	Endpoint [1]	Units	Result	Compliance Value in TUs	Pass/Fail	Reporting
Ceriodaphnia	7-day Survival	NOSCC 1	%	100			
dubia	and Reproduction	NOEC Survival	TU₀	1			
	Definitive	NOTOR I II	%	100			
	Static-Renewal	NOEC Reproduction	TUc	1			
			%	100			Laboratory Report
		IC25 Reproduction	TU₀	1			
			%	>100			
		48 hr. LC50	TUa	<1			
		Toxicity (acute)	TUa	<1	1.0	Pass	Laboratory Report <u>and</u> NetDMR (Parameter Code 61425)
		Toxicity (chronic)	TUc	1	8.0	Pass	Laboratory Report <u>and</u> NetDMR (Parameter Code 61426)
Pimephales	7-day Larval		%	100		gagas S	
promelas	Survival and	NOEC Survival	TU _c	100			
	Growth		%	100			
	Definitive Static-Renewal	NOEC Growth	ΤU _c	100			
	Static Helicwal		10 _c	100			Laboratory Report
		IC25 Growth		100			
			TU _c	>100			
		96 hr. LC50	-				
			TUa	<1		12 13 14 14 14 14 14 14 14 14 14 14 14 14 14	
		Toxicity (acute)	TUa	1	1.0	Pass	Laboratory Report <u>and</u> NetDMR (Parameter Code 61427)
		Toxicity (chronic)	TU _c	1	8.0	Pass	Laboratory Report <u>and</u> NetDMR (Parameter Code 61428)

Biomonitor 8802 West Washington Street Indianapolis, IN 46231 (317) 297-7713

Whole Effluent Toxicity Test

ELKHART WASTEWATER TREATMENT PLANT

IN0025674

Elkhart, Indiana

June 2024

GLP (Good Laboratory Practices) COMPLIANCE STATEMENT

Project Name: Elkhart Wastewater Treatment Plant

Project Date: June 2024

This project has been conducted under GLP standards, as stated in 40 CFR Part 160, with the following exceptions:

Quality Assurance Officer

Greg R. Bright

Date: 6/20/24

Michael Britton

Project Director Date: 6/20/24

Other Participating Personnel:

Mukang'andu Ng'andwe Arizona Fox Melody Myers-Kinzie

Copies of the raw data and final report are maintained in the archives of Biomonitor for five years from the date of completion.

Section 1
Executive Summary

Biomonitor conducted whole effluent toxicity testing for the Elkhart, IN Wastewater Treatment Plant during June 2024. The purpose of the testing was to fulfill the biomonitoring requirement for the NPDES permit.

Three samples were collected June 2-6, 2024. The water flea, *Ceriodaphnia dubia*, and Fathead minnow, *Pimephales promelas*, were used as the test organisms.

A total of six toxicity endpoints were measured. The following results were obtained:

Ceriodaphnia dubia test

48-hr LC ₅₀	>	100% effluent	TU _a <	1.0
NOEL for survival	=	100% effluent	TU _c =	1.0
NOEL for reproduction	=	100% effluent	TU _c =	1.0

Pimephales promelas test

48-hr LC ₅₀	:	>	100% effluent	TUa	<	1.0
NOEL for survival	=	=	100% effluent	TUc	=	1.0
NOEL for growth	=	=	100% effluent	TUc	=	1.0

The acute toxicity limits in the NPDES permit require the 48 and/or 96-hr LC_{50} to be greater than 100% effluent (a TU_a not to exceed 1.0). The effluent samples passed the acute toxicity limits during this testing period for *Ceriodaphnia dubia* but not *Pimephales promelas*.

The chronic toxicity limits in the NPDES permit require a NOEL (No Observable Effect Level) of 12.5% effluent (a TU_c not to exceed 8.0). According to the NPDES permit, there was not a "Demonstration of Toxicity" during this sampling period.

Section 2 Introductory Information

<u>Table I</u> General

Permit number:

IN0025674

Toxicity testing requirements:

Fathead minnow larval survival and growth test

Ceriodaphnia survival and reproduction test

Plant location:

Elkhart Wastewater Treatment Plant

1201 Nappanee St. Elkhart, Indiana 46516

Name of receiving water body:

St. Joseph River

Name of WET testing laboratory:

Biomonitor

8802 West Washington St. Indianapolis, IN 46231

(317) 297-7713

<u>Table II</u> Plant Operations

Type of discharger:

Publicly owned treatment works

Wastewater consists of treated sanitary and industrial wastes

Type of waste treatment:

Class IV. Activated sludge

Design flow:

20 - MGD

Volume of wastewater flow during the sampling period:

June 2, 2024 -M

-MGD

June 4, 2024 June 6, 2024 -MGD -MGD

June 2024 5

<u>Table III</u> Source of effluent and dilution water

I. Effluent samples

Sampling point:

Outfall 035

Collection dates and times:

June 2, 2024

11:00 p.m.

June 4, 2024

11:00 p.m.

June 6, 2024

11:00 p.m.

Sample collection:

24-hour composite samples

Physical and chemical data:

See Tables 9 and 15

II. Dilution water samples

Source:

Moderately Hard Synthetic Water (MHSW)

Collection date and time:

N/A

Pretreatment:

None

Physical and chemical data:

See Tables 9 and 15

ELIGHART WASTEWATER TREATMENT PLANT

Section 3
Test Methods and Results

CERIODAPHNIA SURVIVAL AND REPRODUCTION TEST

Table IV METHODOLOGY Ceriodaphnia Survival and Reproduction Test

Toxicity test method used:

Ceriodaphnia survival and reproduction test

Endpoints of test:

Survival and reproduction (LC₅₀, NOEL, and LOEL)

Reference method:

EPA-821-R-02-013

Deviations from method:

Test was completed in eight days because control animals did not produce an average of greater than

15 young per female until day eight.

Date and time test initiated:

June 4, 2024

10:20 a.m.

Date and time test terminated

June 12, 2024

2:00 p.m.

Type of test chambers:

Polyethylene

30 ml

Volume of solution used per chamber:

15 ml

Number of organisms per chamber:

Number of replicate chambers per

10

1

treatment:

Test temperature range:

25°C (no deviations)

Table V ORGANISMS USED Ceriodaphnia Survival and Reproduction Test

Scientific name:

Ceriodaphnia dubia

Age:

<24 hours

Life stage:

neonates

Mean length and weight:

Not applicable

<u>Source</u>

Laboratory culture in moderately hard reconstituted

water

Diseases and treatment

Not applicable

Table VI RESULTS Ceriodaphnia Survival and Reproduction Test

Raw Data:

See Table 8

LC₅₀ or NOEL obtained:

48-hr LC_{50} = greater than 100% effluent

NOEL for survival = 100% effluent

NOEL for reproduction = 100% effluent

Control survival was 100% after eight days. Control reproduction averaged greater than 15 per surviving

female.

Methods used to calculate endpoints:

Fisher's Exact Test for the survival endpoint.

Dunnett's Test for the reproduction endpoint.

No calculations necessary for the acute endpoint.

Table VII QUALITY ASSURANCE Ceriodaphnia Survival and Reproduction Test

Reference Toxicant used and source: Copper chloride, reagent

Copper chloride, reagent grade, from Carolina

Biological

Date and time of most recent test: Ma

May 28 – June 3, 2024

Dilution water used in test:

Moderately hard synthetic water

Results:

48-hr $LC_{50} = 87 \mu g/L$ as Cu

NOEL (reproduction) = $20 \mu g/L$ as Cu

LOEL (reproduction) = $40 \mu g/L$ as Cu

Comparison to recommended range:

Within the laboratory control range for both acute

and chronic endpoints (see attachment)

Table VIII TEST DATA Ceriodaphnia Survival and Reproduction Test

Effluent	Day		ļ	Numl	oer o				duce	t		Young	Total Live
Concentration	No.					Repl	icate					Per	Breeders
Concentration	110.	Α	В	С	D	Е	F	G	Н	ı	J	Female	Diccucis
	1	0	0	0	0	0	0	0	0	0	0		10
	2	0	0	0	0	0	0	0	0	0	0		10
	3	0	0	0	0	0	0	0	0	0	0		10
Control	4	2	0	0	0	0	0	0	0	0	0	15.7	10
Control	5	2	2	3	2	0	2	2	2	0	2	13.7	10
	6	4	2	3	2	3	3	2	4	2	3		10
	7	0	4	0	0	6	5	5	9	5	0		10
	8	8	12	9	7	9	10	7	5	0	9		10
	•	•	•										
	1	0	0	0	0	0	0	0	0	0	0		10
	2	0	0	0	0	0	0	0	0	0	0	18.4	10
	3	0	0	0	0	0	0	0	0	0	0		10
6.25%	4	0	2	0	0	0	0	0	0	0	0		10
6.25%	5	2	0	2	0	0	0	0	0	2	2		10
	6	4	4	2	2	4	4	2	4	4	4		10
	7	5	8	0	4	6	6	6	9	5	0]	10
	8	9	9	7	7	9	9	9	11	9	12]	10
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	1	0	0	0	0	0	0	0	0.	0	0		10
	2	0	0	0	0	0	0	0	0	0	0		10
	3	0	0	0	0	0	0	0	0	0	0		10
13.50/	4	1	0	0	0	0	0	0	0	0	0	18.6	10
12.5%	5	0	3	2	0	0	0	0	2	2	2	19.0	10
	6	2	0	0	2	4	2	4	0	4	4		10
	7	4	8	7	4	6	6	7	8	7	8		10
	9	6	10	10	6	7	7	10	11	10	10		10

unic 2024 12

Table VIII (cont.) TEST DATA Ceriodaphnia Survival and Reproduction Test

Effluent	D			Numl	ber o	f You	ng R	epro	duced	k		Young	Total Live
Concentration	Day No.					Repl	icate					Per	Breeders
Concentration	NO.	Α	В	С	D	Е	F	G	Н	ı	J	Female	Breeders
										•			
	1	0	0	0	0	0	0	0	0	0	0		10
	2	0	0	0	0	0	0	0	0	0	0		10
	3	0	0	0	0	0	0	0	0	0	0		10
25%	4	2	0	0	0	0	2	0	0	0	0	16.0	10
25%	5	0	0	2	0	2	0	0	3	0	2	10.0	10
	6	5	0	2	2	3	4	5	0	3	4		10
	7	0	8	7	3	5	9	6	4	4	6		10
	8	7	9	10	6	9	0	9	8	0	9		10
	1	0	0	0	0	0	0	0	0	0	0	17.2	10
	2	0	0	0	0	0	0	0	0	0	0		10
	3	0	0	0	0	0	0	0	0	0	0		10
ron/	4	1	0	0	0	0	0	0	2	0	0		10
50%	5	2	2	2	4	0	2	0	0	2	2	17.2	10
	6	7	6	4	0	2	4	2	3	4	4	ĺ	10
	7	0	7	0	5	4	8	5	0	6	0		10
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~~~	1	0	0	0	0	0	0	0	0	0	0		10
	2	0	0	0	0	0	0	0	0	0	0		10
	3	0	0	0	0	0	0	0	0	0	0		10
1000/	4	0	0	0	0	0	2	0	0	0	0	17.0	10
100%	5	2	2	2	2	0	0	0	2	0	2	17.0	10
	6	0	2	0	4	5	3	0	2	4	0		10
	7	11	5	7	0	10	8	5	5	5	11		10
	8	12	3	11	8	12	0	0	13	10	0		10

June 2024 13

## Table IX WATER CHEMISTRY Ceriodaphnia Survival and Reproduction Test

Effluent Concentration	D.O. <u>Range</u> mg/L	Temp. Range °C	pH <u>Range</u> S.U.	Alk. <u>Range</u> CaCO ₃	Hardness Range CaCO ₃	Cond. <u>Range</u> µS
CONTROL	7.6 – 8.8	25	7.5 – 8.1	30-40	100-110	310-350
6.25%	7.6 – 8.8	25	7.4 – 8.1			320-370
25%	7.7 – 8.7	25	7.4 –8.1			390-470
100%	7.7 – 9.7	25	7.4 – 8.2	90-100	225-	660-830

																	1 7		

**FATHEAD MINNOW LARVAL SURVIVAL AND GROWTH TEST** 

## Table X METHODOLOGY Fathead Minnow Larval Survival and Growth Test

**Toxicity test method used:** 

7-day fathead minnow larval survival and growth

test

**Endpoints of test:** 

96-hr LC₅₀ and no observable effect level (NOEL) for

survival and growth. TUc for survival and growth.

Reference method:

EPA-821-R-02-013

**Deviations from method:** 

No Deviations

Date and time test initiated:

June 4, 2024

10:30 a.m.

Date and time test terminated

June 11, 2024

10:30 a.m.

Type of test chambers:

Polyethylene

300 ml

Volume of solution used per chamber:

250 ml

Number of organisms per chamber:

ten

Number of replicate chambers per

four

treatment:

Test temperature range:

25°C (no deviations)

## Table XI ORGANISMS USED Fathead Minnow Survival and Growth Test

Scientific name:

Pimephales promelas

Age:

<24 hours

Life stage:

larvae

Mean length and weight:

Not applicable

**Source** 

**Biomonitor Lab Cultures** 

**Diseases and treatment** 

Not applicable

## Table XII RESULTS Fathead Minnow Larval Survival and Growth Test

Raw Data:

See Table 14

LC₅₀ or NOEL obtained:

96-hr LC₅₀ = >100% effluent

NOEL for survival = 100% effluent

NOEL for growth = 100% effluent

Control survival and growth fell within the acceptable

range

Methods used to calculate

endpoints:

Steel's Many-One Rank Test was required for the survival

endpoint because the homogeneity of variance

assumptions could not be met.

Dunnett's Test for the growth endpoint.

No calculations necessary for the acute endpoint.

June 2024. 18

## Table XIII QUALITY ASSURANCE Fathead Minnow Larval Survival and Growth Test

**Reference Toxicant used and source:** Potassium chloride, reagent grade,

from Sigma-Aldrich

<u>Date and time of most recent test:</u> May 28 – June 4, 2024

<u>Dilution water used in test:</u> Moderately Hard Synthetic Water

**Results:** 96-hr  $LC_{50} = 1169 \text{ mg /L as KCl}$ 

NOEL (growth) = 500 mg/L as KCl

LOEL (growth) = 1000 mg/L as KCl

<u>Comparison to recommended range:</u> Within the laboratory control range for both acute

and chronic endpoints (see attachment)

Table XIV
TEST DATA
Fathead Minnow Larval Survival and Growth Test

Effluent Concentration	<u>% Su</u>	ırvival in I	Each Repli	<u>cate</u>	Average Dry Weight (µg) in Each Replicate						
Concentration	Α	В	С	D	Α	В	С	D			
Control	100	100	100	100	390	390	440	450			
6.25%	100	100	100	100	330	290	430	460			
12.5%	100	100	100	100	420	520	450	420			
25%	100	100	100	100	460	460	400	510			
50%	100	100	100	100	400	420	460	430			
100%	100	90	100	70	450	410	450	440			

## Table XV WATER CHEMISTRY Fathead Minnow Larval Survival and Growth Test

Effluent Concentration	D.O. <u>Range</u> mg/L	Temp. Range °C	pH <u>Range</u> S.U.	Alk. <u>Range</u> CaCO₃	Hardness <u>Range</u> CaCO₃	Cond. <u>Range</u> μS
CONTROL	6.2 – 8.5	25	7.4 – 8.0	30-40	100-110	320-330
6.25%	6.1 – 8.6	25	7.4 – 7.9			320-340
25%	5.8 – 8.9	25	7.4 – 7.9			390-450
100%	5.8 – 9.8	25	7.4 – 7.8	90-100	225-	670-770

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### SAMPLE SUMMARY AND CHAIN OF CUSTODY

CLIENT NAME:	Elkhart WWTP		
PURPOSE OF SAMPLE:	Whole Effluent Toxicity		
SAMPLE IDENTIFICATION	N: Elkhart - 1	Monday	June 2024
DESCRIPTION: Outfall		<i>i</i> 1	
DATE SAMPLE COLLECTI	ED: Start Date	2 2024 Start Time_	lam
	End Date Le	2 2024 End Time	Ilpm
NAME OF PERSON COLLE	ECTING SAMPLE: $\bigcirc \downarrow$	Derations 20	1
SAMPLE VOLUME:	8 Liters		1
NUMBER OF CONTAINER	S: Two, HDPE		
SAMPLE STORAGE:	Refrigerated/iced		
PRESERVATIVES:	none		
Relinquished by: Dan	Jellell		
Date: $(l-3-2l)$	524	Time: 1,25 pm	
Received by:	- FC		
Date: 6	324	Time: [-25p-	
Relinquished by:	,	·	at day.
Date:		Time:	
Received by:			
Date:		Time:	
TEMP: OC			
COMMENTS:			

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#### SAMPLE SUMMARY AND CHAIN OF CUSTODY

CLIENT NAME:	Elkhart WWTP		
PURPOSE OF SAMPLE:	Whole Effluent Toxicity		
SAMPLE IDENTIFICATION	N: Elkhart - 2	Wednesay	June 2024
DESCRIPTION: Outfall			
DATE SAMPLE COLLECTI	ED: Start Date	-4-2024 Start Time_	lam
	End Date	4-2024 End Time_	llom
NAME OF PERSON COLLE	ecting sample: $\underline{S\ell}$	c Ops	
SAMPLE VOLUME:	8 Liters	2024-0447	
NUMBER OF CONTAINER	S: Two, HDPE		
SAMPLE STORAGE:	Refrigerated/iced		
PRESERVATIVES: Relinquished by:	none		
Date: 6-5-20 Received by:	-71 -71	Time: 1:33 pm	1
Date:	15/24	Time: 1:32 p-	
Relinquished by:		•	
Date:		Time:	
Received by:			
Date:		Time:	
$_{\text{TEMP}}$ $8.5$ °C			
COMMENTS:			

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#### SAMPLE SUMMARY AND CHAIN OF CUSTODY

CLIENT NAME:	Elkhart WWTP		
PURPOSE OF SAMPLE:	Whole Effluent Toxicity		
SAMPLE IDENTIFICATION	N: Elkhart - 3	Friday	June 2024
DESCRIPTION: Outfall	· , ,	. 1 .	
DATE SAMPLE COLLECT	ED: Start Date	624 Start Time	lam
	End Date	6 24 End Time	11 pm
NAME OF PERSON COLLE	ECTING SAMPLE: $(\mathcal{D})$	erations (sed	
SAMPLE VOLUME:	8 Liters		
NUMBER OF CONTAINER	S: Two, HDPE		
SAMPLE STORAGE:	Refrigerated/iced		
PRESERVATIVES:	none		
Relinquished by:	THE M		
Date: 10-7-202	254	Time: 1:28pm	
Received by:	1 RL		
Date:	7 [24	Time: 1328	<del></del>
Relinquished by:			
Date:		Time:	
Received by:			
Date:		Time:	
TEMP: ° C			
COMMENTS:			

#### Ceriodaphnia dubia

Reference Toxicant - Copper sulfate/chloride as Cu

Dilution Water - Moderately Hard Reconstituted Water

Date	LC ₅₀	NOEL	LOEL	IC ₂₅
mm/yy	48-hr μg/L	μg/L (repro.)	μg/L (repro.)	μg/L (repro.)
08/21	87	40	80	23
09/21	92	40	80	49
10/21	73	40	80	52
11/21	113	40	160	59
12/21	75	40	80	48
2/22	105	` 40	80	54
3/22	75	40	80	51
4/22	113	40	80	57
5/22	95	40	80	30
6/22	113	40	80	41
7/22	75	40	80	33
8/22	86	20	40	30
9/22	80	40	80	32
11/22	70	40	80	40
12/22	77	40	80	48
1/23	75	40	80	48
2/23	86	40	80	52
4/23	80	40	80	37
5/23	80	40	80	39
06/23	113	40	160	59
07/23	75	40	80	55
09/23	80	40	80	15
10/23	113	40	80	58
11/23	86	40	80	50
01/24	99	20	40	30
02/24	86	40	80	48
03/24	80	40	80	48
04/24	80	40	80	51
06/24	87	20	40	32
verage	88	Mode 40	80	44
t. Dev.	14			11
Ipper Umit	115	80	160	67
ower Umit	60	20	40	21

#### Pimephales promelas

Reference Toxicant - Potassium chloride

Dilution Water - Moderately Hard Reconstituted Water

Date	LC ₅₀	NOEL	LOEL	IC ₂₅
mm/yy	96-hr mg/L	mg/L (grwth)	mg/L (grwth)	mg/L (grwth)
11/21	1129	1000	2000	939
12/21	1129	500	1000	810
02/22	812	500	1000	612
03/22	946	500	1000	707
04/22	917	500	1000	703
05/22	1110	1000	2000	1223
06/22	856	500	1000	710
07/22	1130	500	1000	736
08/22	1093	500	1000	925
09/22	1278	1000	2000	950
11/22	1035	500	1000	684
12/22	1053	1000	2000	805
01/23	795	\$00	1000	664
02/23	1091	500	1000	741
04/23	1231	1000	2000	1121
05/23	1189	1000	2000	1110
06/23	951	500	1000	669
07/23	1091	500	1000	1091
09/23	1000	500	1000	702
10/23	1124	500	1000	768
11/23	1253	500	1000	849
01/24	1128	500	1000	699
02/24	952	1000	2000	798
03/24	1189	500	1000	908
04/24	1189	1000	2000	1037
06/24	1169	500	1000	899
Average	1071	Mode 500	1000	841
St. Dev.	130			164
Upper Limit	1330	1000	2000	1168
Lower Umit	812	250	500	514

Client:	Elki	hart WWTP
Project #		
Analysts:	ММВ	, MN, AF, MMK
	Start Date:	6/4/2024
ates	Start Time:	1220
Test Dates	End Date:	6/12/2024
	End Time:	1400
Template #	E	3
Comments:		

0 = Number of Live Young / = Test Organism Dead y = Male M = Lost or Missing

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9		6 7 1	0 0	7 7 0 0	7570	2 5 0	0	0 5 0
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	λeΩ	1 2 3 4 5 6	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	257 0 0 0 0 2 0 3	250000	0 0 0 0	0 0 0 0 0 2 3 5
	Day	1 2 3 4 5 6 7	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	770000 0000000000000000000000000000000	257 0 0 0 0 2 0 3	2 5 9 0 0 0 0 0 0 0 1 4	D6 F00000	0 5 0 0 0 0 0 0 2 3 5
		1 2 3 4 5 6 7	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	770000 0000000000000000000000000000000	257 0 0 0 0 2 0 3	2 5 9 0 0 0 0 0 0 0	D6 F00000	0 5 0 0 0 0 0 0 2 3 5
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Row		1 2 3 4 5 6 7	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	257 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 5 9 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0 5 0 0 0 0 0 0 2 3 5
Row		1 2 3 4 5 6 7 1 2 3 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	257 0 0 0 0 2 0 3	2 5 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00 00 00 00 00 00 00 00 00 00 00 00 00	0 5 0 0 0 0 0 0 2 3 5
		1 2 3 4 5 6 7 1 2 3 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	25 0 0 0 2 0 3 8 0 0 0 0 0	2 5 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0 5 0 0 0 0 0 0 2 3 5 10
Row		1 2 3 4 5 6 7 1 2 3 4	0 0 0 0 0 0 0 0 0 0 0 5	0 0 0 0 0 0 0 0 0 0	257 0 0 0 0 2 0 3	2 5 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Row		1 2 3 4 5 6 7	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	25 0 0 0 2 0 3 8 0 0 0 0 0	2 5 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0 5 0 0 0 0 0 0 2 3 5 10

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4		3	10	0	0	0	0	10
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		7_	3+1	0	14	3	0	5
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		2 3	0	0	0	0		0
		3	0	0	0	0	0	0
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&	<b>Ö</b>	5	2	2	0	2	0	2
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MMB, MN, MMK		
MMB, n	6/4/24	6/12/24
Analyst:	Test Start- Date/Time:	Test Stop- Date/Time:
Elkhart WWTP	Elkhart, IN	6/2,4,6/24
Discharger:	Location:	Date Sample Collected:

						Replicate	cate			F 1.00		No. of	No. of	Young per
Conc.	Day	ı	2	m	4	<u>ب</u>	9	7	<b>∞</b>	6	10	Young	Adults	Adult
	1	0	0	0	0	0	0	0	0	0	0	0	10	0.0
	2	0	0	0	0	0	0	0	0	0	0	0	10	0.0
	3	0	0	0	0	0	0	0	0	0	0	0	10	0.0
	4	2	0	0	0	0	0	0	0	0	0	2	10	0.2
Control	2	2	7	3	2	0	2	2	2	0	2		10	1.7
	9	4	2	3	7	3	3	2	4	2	3	78	10	2.8
	7	0	4	0	0	9	2	5	6	5	0	34	10	3.4
	8	8	12	6	7	6	10	7	5	0	6	26	10	7.6
	Total	16	20	15	11	18	20	16	20	7	14	157	10	15.7

	Conc.					%9				
Laine.	Day	1	2	3	4	5	9	7	8	Total
	-	0	0	0	0	2	4	5	6	20
	7	0	0	0	2	0	4	8	6	23
	m	0	0	0	0	2	7	0	7	11
	4	0	0	0	0	0	2	4	7	13
Replicate	'n	0	0	0	0	0	4	9	6	19
cate	9	0	0	0	0	0	4	9	6	19
	7	0	0	0	0	0	2	9	6	17
	œ	0	0	0	0	0	4	6	11	24
200	6	0	0	0	0	2	4	5	6	20
ا ،	10	0	0	0	0	2	4	0	12	18
No. of	Young	0	0	0	2	8	34	49	91	184
No. of	Adults	10	10	10	10	10	10	10	10	10
Young per	Adult	0.0	0.0	0.0	0.2	8.0	3.4	4,9	9.1	18.4

						Repl	icate					No. of	No. of	Young per
Conc.	Day	T	7	æ	4	5	9	7	<b>00</b>	6	10	Young	- Adults	Adult
1 4 2 4 3 4 4 5 4 6 5 6 6 7	. 1	0	0	0	0	0	0	0	0	0	0	0	10	0.0
	2	0	0	0	0	0	0	0	0	0	0	0	10	0.0
	3	0	0	0	0	0	0	0	0	0	0	0	10	0.0
	4	1	0	0	0	0	0	0	0	0	0	T	10	0.1
.12%	5	0	3	2	0	0	0	0	7	7	2	11	10	1.1
	9	2	0	0	2	4	2	4	0	7	4	22	10	2.2
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	7	4	8	7	4	9	9	7	8	7	8	65	10	6.5
	8 ∂	9	10	10	9	7	7	10	11	10	10	87	10	8.7
	Total	13	21	19	12	17	15	21	21	23	24	186	10	18.6

						1000						JO ON	1 40 VIA	Vounar
						Kepi	Keplicate					<u>.</u>	5	וישק פווויסו
Conc.	Day	1	2	æ	4	2	9		8	6	10	Young	Adults	Adult
	1	0	0	0	0	0	0	0	0	0	0	0	10	0.0
	2	0	0	0	0	0	0	0	0	0	0	0	10	0.0
	æ	0	0	0	0	0	0	0	0	0	0	0	10	0.0
	4	2	0	0	0	0	2	0	0	0	0	4	10	0.4
72%	2	0	0	2	0	2	0	0	3	0	2	6	10	6.0
	9	5	0	2	2	3	4	52	0	m	4	28	10	2.8
	7	0	∞	7	3	5	6	9	4	4	9	52	10	5.2
	∞	7	6	10	9	6	0	6	8	0	6	29	10	6.7
	Total	14	17	21	11	19	15	20	15	7	21	160	10	16.0
						Rep	Replicate					No. of	No. of	Young per
Conc.	Day	1	2	3	4	5	6	7	8	9	10	Young	Adults	Adult
	1	0	0	0	0	0	0	0	0	0	0	0	10	0.0
	2	0	0	0	0	0	0	0	0	0	0	0	10	0.0
	m	0	0	0	0	0	0	0	0	0	0	0	10	0.0
	4	1	0	0	0	0	0	0	2	0	0	3	10	0.3
20%	Ŋ	2	2	2	4	0	2	0	0	2	2	16	10	1.6
	9	7	9	4	0	7	4	2	3	4	4	36	10	3.6
	7	0	7	0	2	4	8	2	0	9	0	35	10	3.5
	80	8	0	11	13	9	7	6	13	5	10	82	10	8.2
	Total	18	15	17	22	12	21	16	18	17	16	172	10	17.2
						Rep	Replicate					No. of	No. of	Young per
Conc.	Day	1	7	m	4	2	9	7.	8	6	10	Young	Adults	Adult
	1	0	0	0	0	0	0	0	0	0	0	0	10	0.0
	2	0	0	0	0	0	0	0	0	0	0	0	10	0.0
	က	0	0	0	0	0	0	0	0	0	0	0	10	0.0
	4	0	0	0	0	0	2	0	0	0	0	2	10	0.2
100%	5	2	7	2	2	0	0	0	2	0	2	12	10	1.2
	9	0	2	0	4	2	3	0	2	4	0	20	10	2.0
	7	11	2	7	0	10	8	5	5	2	11	67	10	6.7
	8	12	3	11	8	77	0	0	13	10	0	69	10	6.9
	Total	25	12	20	14	27	13	5	22	19	13	170	10	17.0

File: ceriorep Transform: NO TRANSFORMATION

Chi-square test for normality: actual and expected frequencies

INTERVAL	<-1.5	-1.5 to <-0.5	-0.5 to 0.5	>0.5 to 1.5	>1.5
				<u> </u>	
EXPECTED OBSERVED	4.020 6	14.520 9	22.920 25	14.520 19	4.020 1

Calculated Chi-Square goodness of fit test statistic = 6.9135 Table Chi-Square value (alpha = 0.01) = 13.277

Data PASS normality test. Continue analysis.

Elkhart 6.24

File: ceriorep Transform: NO TRANSFORMATION

Hartley test for homogeneity of variance

Calculated H statistic (max Var/min Var) = 5.60 Closest, conservative, Table H statistic = 12.1 (alpha = 0.01)

Used for Table H  $\Longrightarrow$  R (# groups) = 6, df (# reps-1) = 9 Actual values  $\Longrightarrow$  R (# groups) = 6, df (# avg reps-1) = 9.00

Data PASS homogeneity test. Continue analysis.

NOTE: This test requires equal replicate sizes. If they are unequal but do not differ greatly, the Hartley test may still be used as an approximate test (average df are used).

SUMMARY OF FISHERS EXACT TESTS

GROUP	IDENTIFICATION	NUMBER EXPOSED	NUMBER DEAD	SIG (P=.05)
	CONTROL	10	0	
1	6%	10	0	
2	12%	10	0	
3	25%	10	0	
4	50%	10	0	
5	100%	1.0	0	

Elkhart 6.24

File: ceriorep Transform: NO TRANSFORMATION

### SUMMARY STATISTICS CN TRANSFORMED DATA TABLE 1 of 2

GRP IDENTIFICATION N MIN MAX MEAN
1 control 10 7.000 20.000 15.700 2 6.25% 10 11.000 24.000 18.400 3 12.5% 10 12.000 24.000 18.600 4 25% 10 7.000 21.000 16.000 5 50% 10 12.000 22.000 17.200 6 100% 10 5.000 27.000 17.000

Elkhart 6.24

File: ceriorep Transform: NO TRANSFORMATION

### SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 2 of 2

GRP	IDENTIFICATION	VARIANCE	SD	SEM
1	control	18.011	4.244	1.342
2	6.25%	16.044	4.006	1.267
3	12.5%	17.378	4.169	1.318
4	25%	20.889	4.570	1.445
5	50%	8.178	2.860	0.904
6	100%	45.778	6.766	2.140

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File: ceriorep Transform: NO TRANSFORMATION

### ANOVA TABLE

SOURCE	DF	SS	MS	F
Between	5	71,150	14.230	0.676
Within (Error)	54	1136.500	21.046	
Total	59	1207.650	<del></del>	

Critical F value = 2.45 (0.05,5,40) Since F < Critical F FAIL TO REJECT Ho:All groups equal

Elkhart 6.24

File: ceriorep Transform: NO TRANSFORMATION

	OUNNETTS TEST - TA	BLE 1 OF 2	Ho:Control <tr< th=""><th>eatment</th><th></th></tr<>	eatment	
GROUP	IDENTIFICATION	TRANSFORMED MEAN	MEAN CALCULATED IN ORIGINAL UNITS	T STAT	SIG
1 2 3 4 5	control 6.25% 12.5% 25% 50% 100%	15.700 18.400 18.600 16.000 17.200 17.000	15.700 18.400 18.600 16.000 17.200 17.000	-1.316 -1.414 -0.146 -0.731 -0.634	

Dunnett table value = 2.31 (1 Tailed Value, P=0.05, df=40,5)

Elkhart 6.24

File: ceriorep Transform: NO TRANSFORMATION

	DUNNETTS TEST -	TABLE 2 OF	2 но:	Control <t< th=""><th>reatment</th></t<>	reatment
GROUP	IDENTIFICATION	NUM OF REPS	Minimum Sig Diff (IN ORIG. UNITS)	% of CONTROL	DIFFERENCE FROM CONTROL
1		10			
Τ.	control	10			
2	6.25%	10	4.739	30.2	-2.700
3	12.5%	10	4.739	30.2	-2,900
4	25%	10	4.739	30.2	-0.300
5	50%	10	4.739	30.2	-1.500
6	100%	10	4.739	30.2	-1.300

Discharger:	Elkhart WWTP	Test Dates:	6/4/24 - 6/\2 /24
Location:	Elkhart, IN	Analysts:	MMB, MN, AF, MMK

	(農) 4. (18年)	Style Pysika o	25. 36 ·	Day		2000 2000 2000 2000 2000 2000 2000 200		
Conc := Control	1	2	3	4	<b></b> 5	6	7	Remarks
Temp.	25	25	25	25	25	25	25	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
D.O. Initial Final	8,3	184	84	8,8	8.8	8.7	8.0	Template B
Final	8.4	8.2	84	812	80	7.6	8 1	
p <b>H</b> Initial Final	8-1	7.5	7.7	79	7.6	17,7	8.0	
Final Final	7.6	79	79	7.9	7.9	78	78	
Alkalinity	30		40	<b>《</b> 经验验》	40	2014 - 250		
Hardness	110	2.	100	""。"理题	lib	1,234,235		
Conductivity	310	"接	350	(多种原	33b			
Chlorine				<b>建筑</b>	*		表示 (1500) S	

	r Milliann	. 4. 5						
Conc: 6.25%	1	2	3	4	表列表 <b>5</b>	6	7	Remarks
Temp.	25	25	25	25	25	25	25	A STATE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PAR
D.O. Initial	84	84	84	8-8	8.8	8/1	8.1	
Final	8.4	813	831	8.3	8.1	7.6	8.0	
pH Initial	8-1	7.4	7.6	7.8	7.6	7,6	7.9	
Final	7.6	79	8.0	8.0	80	79	78	
Alkalinity							(2) (2) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	
Hardness		[pr] - 接近 n		orregiska. Volgan		7		
Conductivity	<b>320</b>	v Militia	370	200	350	7		
Chlorine				1000		(4.8) (#30)		

			100	Day		and the second second	Separate PR Separate	1
Conc: 12.5%	1	2	3	4	5	6	7	Remarks
Temp.	25	25	25	25	25	25	25	- 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10 mm - 10
D.O. Initial	8,4	8.4	8.4	8.8	8,7	807	8.1	
Final	8.4	1.8	8,5	8.4	84)	7.6	79	
pH Initial	8-1	7.4	7.6	7.8	7.6	7.6	7.8	
Final	7.6	8.0	871	8.0	840	8.0	7.7	
Alkalinity				(f (40 (q 2 ) -4 (q ) (-	- V			
Hardness				14 (1 Logis - 1) 14 (1 Logis - 1)				
Conductivity	3410		410	1000	388		142	
Chlorine	j _y			To the second	,	179.18	4.7	

Discharger:	Elkhart WWTP	Test Dates:	6/4/24 - 6/12/24
Location:	Elkhart, IN	Analysts:	MMB, MN, AF, MMK

	. ( 155 2.51.015 / 1249.57		SEASON IN- SEASON IN-	Day	2000年1月2日 146年2月1日		自然に以供離	
Conc: 25%	1	2	3	4	- 5	6	7	Remarks
Temp.	25	25	25	25	25	25	25	
D.O. Initial	8.5	8.5	8-5	8.7	8.6	8.6	8.2	
Final	8.3	8.5	84	<b>8</b> X	8,2	7.7	7.9	
PH Initial Final	8,0	1.4	7.6	7.7	7	7,6	7.8	
Final	7.6	80	8-1	81	81	1.8	7.8	
Alkalinity		A State of Con-				<b>建</b> 电影 医乳腺		
Hardness		"是是"				The Articipal	- 清陰調整	
Conductivity	390	RT6- 30537	470		448	0.011255 0.012555 0.01255		
Chlorine				<b>表现的</b>		15. 法统制	1. 推動的對	

	Ďŧ.		and the second second	Day	Wales Are		51 (1465), 134 11 (1570), 1576 11 (1570), 1576	1
Conc: 50%	1	2	3	4	5	6	7	Remarks
Temp	25	25	25	25	25	25	25	
D.O. Initial	8.6	8.7	9,6	8.7	8.6	8.6	8.2	
Final	8.2	86	8.19	8.5	812	הר	7.8	
pH Initial	7-8	7.4	7.5	7.6	7.5	7.5	7.8	
Initial Final	7.6	8.0	812	118	811	1.8	7.9	
Alkalinity						1.75	g green	
Hardness				から1000000 5 15500 co 7 14500 co		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	700000	
Conductivity	490		590	673886.857.15 20199.65	558	14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2725 pp. 1	
Chlorine		2 1				version and the	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	

	14 3 c	नेत्राह्यस्य विकास	10.34%	Day	6月時被擊擊	ger i je		1
Conc: 100%	1	2	3	4	5	6	7	Remarks
Temp.	25	25	25	25	25	25	25	
D.O. Initial	9,2	9.7	9.1	87	8.8	8,9	8.3	
Final	8,2	8.7	8-7	8.6	813	7.7	7.7	
<b>pH</b> Initial	7.7	7,4	7.4	7.5	7.4	7.4	היר	
Final	7,9	7.9	8,2	841	811	8.17	1.8	
Alkalinity	90		100	/-	100		1.00	
Hardness	212	The Arms Server Specific	225	1. Share from 18	725	1.00		
Conductivity	660	114.1	830	17.指数日数	760		. Land tellin telli	
Chlorine	ND		N.D.		NIN			
Ammonia	ND	2000	4.10		0.25	5 3 183	Tempy Tempy Tempy Tempy	

Discharger: Elkhart WWTP Test Dates 6/4/24 -6/11/24
Location: Elkhart, IN Analysts: MMB, MN, AF, MMK

No. Surviving Organisms												
		설립 경기 기독 3 기술 기술 기독 기독 3		A GASASCAY	Day							
Conc:	Rep.#	1	2	3	4	5	6	7	Remarks			
	Α	_10_	10	10	10	۵;	10	10				
Control	В	10	19	15	10	10	10	I				
	C	10	10	10	10	10	10	10				
	D	10	19	19	10	lo	10	10	2			
	A	01	10	10	10	10	10	10_				
6,25%	- B	.10	10	lo	10	10	10	10				
	C	10	10	0	10	10	10					
更的理解	D	10	19	10	10	10	10	10				
	A	10	10	10	10	10	10	10				
12.5%	В	10	19	10	10	10	10	10				
	C	10	Gl	10	10	10	0	10	4,44,410			
	D	10	σl	10	(D	13	10	10				
1. 海损水	<u>A</u>	10	10	10	10	19	10	10				
25%	B	ص ا	10	10	_10	10	10	10				
特特的。	C	10	10	ि	10	10	0	10				
kt opdalige af	<b>D</b>	10	10	10	10	10	0	10				
	_ A	10	10		10	()	Q	10				
50%	В	10	10	12	TO.	10	10	10				
r var vij de vitokalika	C	10	10	[S	10	19	10	10				
<b>公司基础</b>	<b>D</b>	10	107	10	10	19	10	ĺρ				
and the second	_ A_	10	10	ि	10	10	10	10				
100%	<u>B</u>	10	10	10	٩	9	1	9				
Section 1	C	10	ા	10	10	19	10	10				
Y. BERT	D	10	(0	a		7	7	٦				

**Comments:** Start Time: \030

FHM Source: Biomonitor Lab Cultures

File: fhmsurv Transform: ARC SINE(SQUARE ROOT(Y))

Shapiro Wilks test for normality

D = 0.118

W = 0.485

Critical W (P = 0.05) (n = 24) = 0.916Critical W (P = 0.01) (n = 24) = 0.884

Data FAIL normality test. Try another transformation.

Warning - The two homogeneity tests are sensitive to non-normal data and should not be performed.

Elkhart 6.24

File: fhmsurv Transform: ARC SINE(SQUARE ROOT(Y))

Hartley test for homogeneity of variance Bartletts test for homogeneity of variance

Those two tests can get be preferred because of 1

These two tests can not be performed because at least one group has zero variance.

Data FAIL to meet homogeneity of variance assumption. Additional transformations are useless.

File: fhmsurv Transform: ARC SINE(SQUARE ROOT(Y))

	STEELS MANY-ONE RAI	NK TEST -	Ho:Control <treatment< th=""></treatment<>									
GROUP	IDENTIFICATION	TRANSFORMED MEAN	RANK SUM	CRIT. VALUE	df	SIG						
1 2 3 4 5	control 6.25% 12.5% 25% 50% 100%	1.412 1.412 1.412 1.412 1.412 1.412 1.266	18.00 18.00 18.00 18.00	10.00 10.00 10.00 10.00 10.00	4.00 4.00 4.00 4.00 4.00							

Critical values use k = 5, are 1 tailed, and alpha = 0.05

Elkhart WWTP Discharge: Location: Analyst:

Eikhart, IN MMB, MN, AF, MMK

Test Date(s):
Weighing Date:

6/4-11/24 6/12/24

9

Remarks																								
Meandry wgr of Tarvae (g)	0.390	0.390	0.440	0.450	0:330	0.290	0.430	0.460	0.420	0.520	0.450	0.420	0.460	0.460	0.400	0.510	0.400	0.420	0.460	0.430	0.450	0.410	0.450	0.440
No. of larvae	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	6	10	7
Total drywet of larvae (mg)	3.90	3.90	4.40	4.50	3.30	2.90	4.30	4.60	4.20	5.20	4.50	4.20	4.60	4.60	4.00	5.10	4.00	4.20	4.60	4.30	4.50	4.10	4.50	4.40
Drywgt: foil and larvae (g)	0.92520	0.91990	0.92420	0.92870	0.93130	0.92570	0.92810	0.92480	0.92750	0.92160	0.91660	0.93240	0.93130	0.92330	0.92200	0.93410	0.92900	0.92550	0.92820	0.92530	0.93180	0.92970	0.92350	0.92510
Wgt. of boat (g)	0.92130	0.91600	0.91980	0.92420	0.92800	0.92280	0.92380	0.92020	0.92330	0.91640	0.91210	0.92820	0.92670	0.91870	0.91800	0.92900	0.92500	0.92130	0.92360	0.92100	0.92730	0.92560	0.91900	0.92070
P. S. H.	A	8	ပ	6	4	80	J	٥	¥	8	J	۵	A	8	U	٥	4	8	C	٥	A	8	U	۵
<b>Supplement</b>		Postero	5			Conc:	6.25%			Сопс	12.5%			:Jug	25%		10000000000000000000000000000000000000	Conc	20%			Concr	700%	

File: fhm_grow Transform: NO TRANSFORMATION

Chi-square test for normality: actual and expected frequencies

INTERVAL	<-1.5	-1.5 to <-0.5	-0.5 to 0.5	>0.5 to 1.5	>1.5
				***	
EXPECTED OBSERVED	1.608	5.808 9	9.168 6	5.808 9	1.608 0

Calculated Chi-Square goodness of fit test statistic = 7.8193
Table Chi-Square value (alpha = 0.01) = 13.277

Data PASS normality test. Continue analysis.

Elkhart 6.24

File: fhm_grow Transform: NO TRANSFORMATION

Hartley test for homogeneity of variance

Calculated H statistic (max Var/min Var) = 18.12 Closest, conservative, Table H statistic = 184.0 (alpha = 0.01)

Used for Table H ==> R (# groups) = 6, df (# reps-1) = 3 Actual values ==> R (# groups) = 6, df (# avg reps-1) = 3.00

Data PASS homogeneity test. Continue analysis.

NOTE: This test requires equal replicate sizes. If they are unequal but do not differ greatly, the Hartley test may still be used as an approximate test (average df are used).

Elkhart 6.24

File: fhm_grow Transform: NO TRANSFORMATION

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 1 of 2

GRP	IDENTIFICATION	N	MIN	MAX	MEAN
1	control	4	0,390	0.450	0.418
2	6.25%	4	0.290	0.460	0.378
3	12.5%	4	0.420	0.520	0.453
4	25%	4	0.400	0.510	0.457
5	50%	4	0.400	0.460	0.428
6	100%	4	0.410	0.450	0.438

Elkhart 6.24

File: fhm_grow Transform: NO TRANSFORMATION

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 2 of 2

GRP	IDENTIFICATION	VARIANCE	SD	SEM
1	control 6.25%	0.001 0.006	0.032 0.081	0.016
3	12.5%	0.002	0.047	0.024
4 5	25% 50%	0.002 0.001	0.045 0.025	0.023 0.012
6 	100%	0.000	0.019	0.009

Elkhart 6.24

File: fhm_grow Transform: NO TRANSFORMATION

### ANOVA TABLE

SOURCE	DF	SS	МS	F
Between	5	0.017	0.003	1.500
Within (Error)	18	0.038	0.002	
Total	23	0.055		

______

Critical F value = 2.77 (0.05,5,18) Since F < Critical F FAIL TO REJECT Ho:All groups equal

File: fhm_grow Transform: NO TRANSFORMATION

	DUNNETTS TEST - TA	ABLE 1 OF 2	Ho:Control <tr< th=""><th>eatment</th><th></th></tr<>	eatment	
GROUP	IDENTIFICATION	TRANSFORMED MEAN	MEAN CALCULATED IN ORIGINAL UNITS	T STAT	SIG
1 2 3 4 5 6	control 6.25% 12.5% 25% 50% 100%	0.418 0.378 0.453 0.457 0.428 0.438	0.418 0.378 0.453 0.457 0.428 0.438	1.265 -1.107 -1.265 -0.316 -0.632	Man may pur
Dunnet	t table value = 2.41	(1 Tailed V	alue, P=0.05, df=18,	 5)	

Elkhart 6.24

File: fhm_grow Transform: NO TRANSFORMATION

	DUNNETTS TEST - 7	PABLE 2 OF	2 Ho:	Control <t< th=""><th>reatment</th></t<>	reatment
GROUP	IDENTIFICATION	NUM OF REPS	Minimum Sig Diff (IN ORIG. UNITS)	% of CONTROL	DIFFERENCE FROM CONTROL
1	control	4			
2	6.25%	4	0.076	18.3	0.040
3	12.5%	4	0.076	18.3	-0.035
4	25%	4	0.076	18.3	-0.040
5	50%	4	0.076	18.3	-0.010
6 	100%	<u> </u>	0.076	18.3	-0.020

Discharger:	Elkhart WWTP	Test Dates:	6/4/24 -6/11/24
Location:	Elkhart, IN	Analysts:	MMB, MN, AF, MMK

	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Day		1,40 m		
Conc: Control	1	2	3	4	<b>5</b>	6	7	Remarks
Temp.	25	25	25	25	25	25	25	
D.O. Initial	1.8	8.3	85	8.3	8.2	8,1	8.4	
Final	7.3	7.3	6.9	6,4	65	L 62	1,4	
pH Initial	8.0	7.7	7.9	7.9	7.6	7.8	7.8	
Final	7.4	7.6	7,6	7.8	7.6	7.5	7,5	
Alkalinity	30	1835 AND 183	40	33475675554	40		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
Hardness	110	1988 PM 1885 PM	100	11年數學院	110	1. 化电路管 2. 服务	<b>崇</b> 明。27年	
Conductivity	320	17 88748	330		320	Pillar GS HESSE Tagric A concessor Tagric A concessor	Sparkers (1977) The Total Constitution of the	
Chlorine				A PROPERTY OF THE			STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE	

	Const.			Day	(新型数4g)	1		
Conc: 6.25%	1	2	3	4(12)	5	6	. 7	Remarks
Temp.	25	25	25	25	25	25	25	
D.O. Initial	P.8	8.3	8.6	8,2	8.7	8-1	8.4	
Final	7.1	7.3	6,8	6.3	6.5	6.	7.3	
pH Initial	7.9	7.6	7-8	7.8	7.7	7.7	7.7	
Final	7.4	7.5	7.6	7.7	7.5	7.4	7.5	
Alkalinity		0.55		100 Harris 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		7 P. C.	the and the property	
Hardness		A.M.CaN Strike		はいる。 のない対象である。 ではないないない。 ではないないない。 ではないないない。				
Conductivity	320	13.775 Mar	340	特可称智慧	340	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	488	
Chlorine		Selfer Control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the		<b>学习是实现的</b>		名字 的复数	William I	

	N	order to	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	Day			Prewer- 7 74 8772	
Conc: 12.5%	1	2	3	4	5	6	7	Remarks
Temp.	25	25	25	25	25	25	25	
D.O. Initial	7.7	8.4	8.5	8,2	8,1	80	8.4	
Final	6.9	7.2	6,6	66	6.5	6.0	6.	
pH Initial	7.9	T7.7	7.7	7.7	177	17	7.7	
Final	7.5	7.5	7.5	7.6	7.5	7.4	7.5	
Alkalinity		* *		**************************************			in the Afgerra	
Hardness				- 19 ( M 9)				
Conductivity	350		370	·西蒙舞士 [8	380		N	
Chlorine								

Discharger:	Elkhart WWTP	Test Dates:	6/4/24 -6/11/24	
Location:	Elkhart, IN	Analysts:	MMB, MN, AF, MMK	

	ing s substitution of the		S. Gran	Day	\$.E. 35 15	ે જેમ લોક	"强"的最高	
Conc: 25%	1	2	3	4	5	6	7	Remarks
Temp.	25	25	25	25	25	25	25	· · · · · · · · · · · · · · · · · · ·
D.O. Initial Final	8.9	8.5	8>1	8,1	80	80	7.4	
上。 善 Final —	4.9	7.0	6.5	64	65	58	6.7	
p# Initial Final	7.7	7.8	7.7	7.7	7.6	7.6	71	
<b>Final</b> Final F	7.5	7.5	7.5	7.6	7.4	194	1.5	
Alkalinity		100 mm		# # # # # # # # # # # # # # # # # # #			沙撒 (清)	
Hardness		1 (200 A)		1.00		[17] · · · · · · · · · · · · · · · · · · ·	5. W.C. () 書覧 た W.C. () 書覧 た 放せを調査	
Conductivity	390	\$28 Arm	430	<b>**</b>	450	(100 A) (100 A) (100 A) (100 A) (100 A) (100 A) (100 A) (100 A) (100 A) (100 A) (100 A) (100 A) (100 A) (100 A)	一字小型	
Chlorine				1957 1957		W. A. B	7 1.4 47 44 1.56	

	and the arms			Day	. <i> </i>	AF SE	. fa si	1
Conc: 50%	1	2	3	4	-5	6	7	Remarks
Temp.	25	25	25	25	25	25	25	
D.O. Initial	9.1	8.8	84	8.2	8.0	80	8.5	
Final Final	6.9	6.8	65	6,3	63	58	6.8	
<b>ਨਮ</b>	7.8	7.7	7.6	7.6	7.5	75	7.5	
🚁 Final	7.6	7.5	7.5	7.6	7.4	178	7.6	
alinity		The first of			<u>.</u>	7 2 3 3 3 3	te garge	
Hardness		* 1		· 柳春		351	124	
Conductivity	490		730		550	13 (1975)		
Chlorine		St. Africans		4 水痘	<u> </u>			-

	,	je i 1984 - 20	्रामधीय ही	Day			el i	1
Conc: 100%	1	2	3	4	5	6	7	Remarks
Temp.	25	25	25	25	25	25	25	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
D.O. Initial	9.8	9.4	8.8	8.5	<b>8</b> ,3	8.4	8.6	
Final	6.8	6.7	6,3	6.1	61	5.8	6.8	
pH Initial	7.6	7.5	7.5	7.5	7.4	7. 9	15	
PH Initial Final	7.8	7.7	7.7	7.7	76	7.7	9.7	
Alkalinity	90	<b>操作的事件</b>	100		100	序.		
Hardness	225		225	1.4 唐明明	225	* 等級機	5. B. 1977	
Conductivity	670	16 (17)	760		770		· 操	
Chlorine -	Vis	19 T 20 19 19 19 19 19 19 19 19 19 19 19 19 19	ND		N.D			
Ammonia	28		N.A		0.25			

🗐 View All Copies of Submissions | 🖳 DMR/COR Search Results 🖭 View DMR Signing Status

Process Confirmation - CDX Activity ID: _61ce519f-fd03-4eff-8e51-2c4a3658dc77

Your DMRs are undergoing the Signing Process

		Withdraw Williams	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	
IN0025674 ELKHART WWTP 005	005-C	CSO- ARCH/BAR, NW OF INTERSECTION	06/30/24	07/28/24
IN0025674 ELKHART WWTP 006	D-900	CSO- JACKSON, N OF BRIDGE, W OF ELKHART RIVER	06/30/24	07/28/24
IN0025674 ELKHART WWTP 007	007-C	CSO- JACKSON, N OF BRIDGE, E OF ELKHART RIVER	06/30/24	07/28/24
IN0025674 ELKHART WWTP 008	D-800	CSO- HUG/EAST BLVD	06/30/24	07/28/24
IN0025674 ELKHART WWTP 009	D-600	CSO- NIBCO PRKWY - FKA JR. ACHIEVEMENT (Y DR N)	06/30/24	07/28/24
IN0025674 ELKHART WWTP 011	011-C	CSO- ELKHART/FRANKLIN	06/30/24	07/28/24
IN0025674 ELKHART WWTP 012	012-C	CSO- CASSOPOLIS/BEARDSLEY	06/30/24	07/28/24
IN0025674 ELKHART WWTP 013	013-C	CSO- JOHNSON/BEARDSLEY	06/30/24	07/28/24
IN0025674 ELKHART WWTP 014	014-C	CSO- DAM AT CONE/ERWIN	06/30/24	07/28/24
IN0025674 ELKHART WWTP 015	015-C	CSO- MICHIGAN/FULTON	06/30/24	07/28/24
IN0025674 ELKHART WWTP 016	016-C	CSO- DAN @ GOSHEN/SUPERIOR	06/30/24	07/28/24
IN0025674 ELKHART WWTP 017	017-C	CSO- W. BOULEVARD/MCNAUGHTON	06/30/24	07/28/24
IN0025674 ELKHART WWTP 018	018-C	CSO- MCNAUGHTON PARK WEST	06/30/24	07/28/24
IN0025674 ELKHART WWTP 019	019-C	CSO-MICHIGAN @ RVR, S. OF LEX.	06/30/24	07/28/24
IN0025674 ELKHART WWTP 020	020-C	CSO- BRIDGE AND HUDSON	06/30/24	07/28/24
IN0025674 ELKHART WWTP 023	023-C	CSO- FRANKLIN/8TH	06/30/24	07/28/24
IN0025674 ELKHART WWTP 024	024-C	CSO- INDIANA/FRANKLIN	06/30/24	07/28/24
IN0025674 ELKHART WWTP 025	025-C	CSO- POTTAWATOMI/SECOND	06/30/24	07/28/24
IN0025674 ELKHART WWTP 026	026-C	CSO- MAIN/POTTAWATOMI	06/30/24	07/28/24
IN0025674 ELKHART WWTP 027	027-C	CSO- EDGEWATER/NAVAJO	06/30/24	07/28/24
IN0025674 ELKHART WWTP 028	028-C	CSO- WASHINGTON AT RIVER	06/30/24	07/28/24
IN0025674 ELKHART WWTP 029	079-C	CSO- JEFFERSON AT THE RIVER	06/30/24	07/28/24
IN0025674 ELKHART WWTP 031	031-C	CSO- ELIZABETH/LUSHER	06/30/24	07/28/24
IN0025674 ELKHART WWTP 032	032-C	CSO- EDGEWATER/OKEMA	06/30/24	07/28/24
IN0025674 ELKHART WWTP 033	033-C	CSO- EVANS/GRACE	06/30/24	07/28/24
IN0025674 ELKHART WWTP 034	034-C	CSO- LEXINGTON/6TH	06/30/24	07/28/24
IN0025674 ELKHART WWTP 035	035-A	20 MGD CLASS IV ACTIVATED SLUDGE - TO ST JOSEPH RIVER	06/30/24	07/28/24
IN0025674 ELKHART WWTP 035	035-AQ	QUARTERLY REPORTING	06/30/24	07/28/24
IN0025674 ELKHART WWTP 037	037-C	CSO- FRANKLIN/KRAU	06/30/24	07/28/24
IN0025674 ELKHART WWTP 039	039-C	CSO- WEST HIGH AT RIVER	06/30/24	07/28/24
IN0025674 ELKHART WWTP 040	040-C	CSO- MCNAUGHTON PARK SOUTH	06/30/24	07/28/24

Permit

**Permit ID:** IN0025674

Permittee: ELKHART WWTP
Facility: ELKHART WWTP

Facility:ELKHART WWTPFacility Location:Permitted Feature:035 - External OutfallDischarge:

035-A - 20 MGD CLASS IV ACTIVATED SLUDGE - TO ST JOSEPH RIVER

1201 S NAPPANEE ST ELKHART , IN46516

229 SOUTH 2ND ST ELKHART , IN46516

Permittee Address:

Major:

Report Dates & Status

Monitoring Period: From 06/01/24 to 06/30/24 DMR Due Date:

Considerations for Form Completion

**NetDMR Validated** 

Status:

THE FLOW METER(S) SHALL BE CALIBRATED AT LEAST ONCE EVERY TWELVE MONTHS. REPORT QUARTERLY PARAMETERS ON 035-AQ NETDMR. MUNICIPAL MAJOR ELKHART COUNTY

07/28/24

Principal Executive Officer

First Name:LauraLast Name:Title:Utility Services ManagerTelephone:

574-293-2572

Kolo

No Data Indicator (NODI)

Form NODI:

	1	;	•			1				. 4
Code Name		Value 1	Value 2	Units Value 1	Value 2	Value 3	Units	<u>K</u> 5	Anaiysis	ad A
00300 Oxygen, dissolved [DO] 1 - Effluent Gross	Smpl.			=7.9			19 - mg/L	0	01/01 - Daily	3R - 3GR24H
Season: 0	Req.			>=4.0 DLYAVMIN	**************************************		19 - mg/L		01/01 - Daily	3R - 3GR24H
NODI: -	NODI				· man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man · i a man	The second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th				
00400 <b>pH</b> 1 - Effluent Gross	Smpl.			=7.0		=7.5	12 - SU	0	01/01 - Daily	GR - GRAB
Season: 0	Req.	TO COMPANY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE PARTY THE P		>=6.0 DAILY MN		<=9.0 DAILY MX	12 - SU		01/01 - Daily	GR - GRAB
NODI: -	NODI									
00530 <b>Solids, total</b> suspended 1 - Effluent Gross	Smpl.	=653.0	=941.0	26 - lb/d	=5.0	=7.0	19 - mg/L	0	01/01 - Daily	24 - COMP24
	Req.	<=7511.0 MO AVG	<=11266.0 MX WK AV	26 - lb/d	<=30.0 MO AVG	<=45.0 MX WK AV	19 - mg/L		01/01 - Daily	24 - COMP24
NODI: -	MODI									
00600 <b>Nitrogen, total</b> [as N] 1 - Effluent Gross	Smpl.	=1964.0		26 - lb/d	=12.7		19 - mg/L	0	01/30 - Monthly	24 - COMP24
Season: 0	Req.	Req Mon MO AVG		26 - lb/d	Req Mon MO AVG		19 - mg/L	1	01/30 - Monthly	24 - COMP24
NODI: -	NODI									
00610 Nitrogen, ammonia total [as N] 1 - Effluent Gross	Smpl.	=26.6	=84.2	26 - lb/d	=0.19	=0.69	19 - mg/L	0	01/01 - Daily	24 - COMP24
Season: 1	Req.	<=1051.0 MO AVG	<=2478.0 DAILY MX	26 - Ib/d	<=4.2 MO AVG	<=9.9 DAILY MX	19 - mg/L		01/01 - Daily	24 - COMP24
NODI: -	NODI									
00665 Phosphorus, total [as P] 1 - Effluent Gross	Smpl.	=108.0		26 - lb/d	=0.79	2000	19 - mg/L	0	01/01 - Daily	24 - COMP24
Season: 0	Req.	Req Mon MO AVG		26 - Ib/d	<=1.0 MO AVG		19 - mg/L		01/01 - Daily	24 - COMP24
NODI: -	NODI			The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s						
01079 Silver total recoverable	Smpl.	< 0.03	<0.043	26 - Ib/d	<0.0002	<0.0002	19 - mg/L	0	01/07 - Weekly	24 - COMP24

	,	;	•			•	1		ų	Analycia	Type
Code Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units	Z X		) L
Season: 0	Req.	<=0.063 MO AVG	<=0.13 DAILY MX	26 - lb/d		<=0.00038 MO AVG	<=0.00077 DAILY MX	19 - mg/L		01/07 - Weekly	24 - COMP24
NODI: -	NODI										
01079 Silver total recoverable	Smpl.			·		<=0.0005	=0.000=	19 - mg/L	0	02/30 - Twice Per Month	24 - COMP24
Season: 0	Req.					Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L		02/30 - Twice Per Month	24 - COMP24
NODI: -	NODI	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;									
50050 Flow, in conduit or thru treatment plant	Smpl.	=16.39		03 - MGD					0	01/01 - Daily	TM - TOTALZ
1 - Effluent Gross Season: O		D/A OM god		03 -	:					01/01 -	Σ Ε
NODI: -	NODI		And a second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec	MGD			Employed the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control		7	Dally	OIAL
51041 E. coli, colony forming units [CFU]	Smpl.					=14.0	=30.0	3Z - CFU/100mL	0	01/01 - Daily	GR - GRAB
Season: 1 NODI: -	Req.					<=125.0 MO GEO	<=235.0 DAILY MX	32 - CFU/100mL		01/01 - Daily	GR - GRAB
71901 Mercury, total recoverable 1 - Effluent Gross	Smpl.					=1.37	=0.97	3M - ng/L	0	01/60 - Once Every 2 Months	GR - GRAB
Season: 0	Reg.					<=1.6 ANNL AVG	Reg Mon DAILY MX	3M - ng/L		01/60 - Once Every 2 Months	GR - GRAB
NODI: -	NODI										
71901 Mercury, total recoverable G - Raw Sewage Influent	Smpl.			·			=13.3	3M - ng/L	0	01/60 - Once Every 2 Months	GR - GRAB
Season: 0	Req.						Reg Mon DAILY MX	3M - ng/L		01/60 - Once Every 2 Months	GR - GRAB
NODI: -	NODI							delice of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se		The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	

•	1	1	;	:				1		4	0.00	, F
Code	Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units	ž Ž	or Aildiysis iype Ex.	1 y pe
80082 BOD, carbo	BOD, carbonaceous [5 day, 20 C]	Smpl.	<b>Smpl.</b> =297.0	=348.0	26 - Ib/d		=2.0	=2.0	19 - mg/L	0	01/01 - Daily	24 - COMP24
1 - Efflue	1 - Effluent Gross	:								1		
Season: 0	0	Req.	<=6259.0 MO AVG	<=10014.0 MX WK AV	26 - Ib/d		<=25.0 MO AVG	<=40.0 MX WK AV 19 - mg/L	19 - mg/L		01/01 - Daily	24 - COMP24
NODI: -		NODI										
81012	81012 Phosphorus, total percent removal	Smpl.			. 11	=78,4			23 - %	0	01/30 - Monthly	CA - CALCTD
K - Perce	K - Percent Removal											:
Season: 0	0	Req.			۸	>=75.0 MO AV MN	7		23 - %		01/30 - Monthly	CA - CALCTD
NODI: -		NODI										
82220 1 - Efflue	82220 Flow, total 1 - Effluent Gross	Smpl.		=492.0	80 - Mgal/mo					0	01/30 - Monthly	RT - RCOTOT
Season: 0		Req.		Req Mon MO TOTAL	80 - Mgal/mo						01/30 - Monthly	RT - RCOTOT
NODI: -		NODI										

### Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

## Edit Check Errors

No errors.

### Comments

### Attachments

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# Report Last Saved By

### ELKHART WWTP

Laura Kolo Payton88 Name: User:

laura.kolo@coei.org

2024-07-26 09:39 (Time Zone:-04:00) Date/Time: E-Mail:

Report Last Signed By

Payton88

2024-07-26 09:39 (Time Zone:-04:00)

Date/Time:

Name: E-Mail:

User:

laura.kolo@coei.org

Laura Kolo

NPDES eReporting Help Desk: NPDESeReporting@epa.gov | 877-227-8965 (9:00am - 8:00pm EST) Contact Us to ask a question, provide feedback, or report a problem.

1201 S NAPPANEE ST ELKHART , IN46516 229 SOUTH 2ND ST ELKHART, IN46516 Permittee Address: Major: ELKHART WWTP IN0025674 Permit ID: Permittee: Permit

Facility Location: **DMR** Due Date: Discharge: From 04/01/24 to 06/30/24 035 - External Outfall **NetDMR Validated ELKHART WWTP** Considerations for Form Completion Report Dates & Status Permitted Feature: Monitoring Period: Facility: Status:

035-AQ - QUARTERLY REPORTING

07/28/24

Last Name: Telephone: REPORT MONTHLY SAMPLING ON THE 001-A NETDMR. MUNICIPAL MAJOR ELKHART COUNTY Utility Services Manager Laura Principal Executive Officer First Name: Title:

No Data Indicator (NODI)

Form NODI:

Kolo 574-293-2572

Code Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Ex. Units	Analysis	Type
00717 <b>Cyanide, free</b> [as free] 1 - Effluent Gross	Smpl.		=1.7445	26 - 1b/d			=0.0132	19 - mg/L	01/90 - Quarterly	GR - GRAB
Season: 0 NODI:-	Req.		Req Mon DAILY MX	26 - 1b/d			Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	GR - GRAB
00717 Cyanide, free [as free] G - Raw Sewage Influent	Smpl.						=0.0142	19 - mg/L	01/90 - Quarterly	GR - GRAB
Season: 0 NODI: -	Req.						Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	GR - GRAB
01074 Nickel, total recoverable 1 - Effluent Gross	Smpl.		=0.854	26 - Ib/d			=0.0055	19 - mg/L	02/90 - Twice Every Quarter	24 - COMP24
Season: 0	Req.	; ; ; ; ;	Reg Mon DAILY MX	26 - Ib/d			Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	24 - COMP24
01074 Nickel, total recoverable G - Raw Sewage Influent	Smpl.						=0.0191	19 - mg/L	02/90 - Twice Every Quarter	24 - COMP24
Season: 0 NODI: -	Req.						Req Mon DAILY MX	19 <b>-</b> mg/L	01/90 - Quarterly	24 - COMP24
01094 Zinc, total recoverable 1 - Effluent Gross	Smpl.		=3.568	26 - Ib/d			=0.0209	19 - mg/L	02/90 - Twice Every Quarter	24 - COMP24
Season: 0 NODI: -	Req.		Req Mon DAILY MX	26 - lb/d			Reg Mon DAILY MX	19 - mg/L	01/90 - Quarterly	24 - COMP24
01094 Zinc, total recoverable G - Raw Sewage Influent	Smpl.	*					=0.0539	19 - mg/L	02/90 - Twice Every Quarter	24 - COMP24
Season: 0 NODI: -	Req.						Reg Mon DAILY MX	19 - mg/L	01/90 - Quarterly	24 - COMP24
01113 Cadmium, total recoverable 1 - Effluent Gross	Smpl.		=0.054	26 - 1b/d			<=0.0002	19 - mg/L	02/90 - Twice Every Quarter	24 - COMP24

. !	:		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	:				Ē.	Analysis	Type
Code	managaraga pimpa o o o orosa sagan	Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units	4	
Season: 0	Req.		Req Mon DAILY MX	26 - Ib/d			Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	24 - COMP24
NODI: -	NODI									
01113 Cadmium, total recoverable G - Raw Sewage Influent	Smpl.						=0.0003	19 - mg/L	02/90 - Twice Every Quarter	24 - COMP24
Season: 0	Req.						Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	24 - COMP24
NODI: -	NODI									
, <b>5</b> i	Smpl.	1	<=0.171	26 - Ib/d	; ; ;		<0.001	19 - mg/L	02/90 - Twice Every Quarter	24 - COMP24
	Req.		Req Mon DAILY MX	26 - Ib/d			Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	24 - COMP24
NODI: -	NODI									
01114 Lead, total recoverable G - Raw Sewage Influent	Smpl.						=0.0043	19 - mg/L	02/90 - Twice Every Quarter	24 - COMP24
Season: 0	Req.						Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	24 - COMP24
NODI: -	NODI									
01118 Chromium, total recoverable 1 - Effluent Gross	Smpl.		<0.341	26 - 1b/d			<0.002	19 - mg/L	02/90 - Twice Every Quarter	24 - COMP24
Season: 0	Req.		Req Mon DAILY MX	26 - Ib/d			Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	24 - COMP24
NODI: -	NODI									
01118 Chromium, total recoverable G - Raw Sewage Influent	Smpl.						=0.0041	19 - mg/L	02/90 - Twice Every Quarter	24 - COMP24
Season: 0	Req.						Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	24 - COMP24
NODI: -	NODI	- 1								
01119 Copper, total recoverable 1 - Effluent Gross	Smpl.		=2.0365	26 - Ib/d			=0.0139	19 - mg/L	02/90 - Twice Every Quarter	24 - COMP24
Season: 0	Req.		Req Mon DAILY MX	26 - Ib/d			Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	24 - COMP24
NODI: -	NODI									

									4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-
Code Name		Value 1	Value 2	Units	Value 1	Value 2	Value 2 Value 3 Units	Units	Anaiysis	ıype
01119 Copper, total recoverable	Smpl.						=0.0415	19 -	02/90 - Twice 24 -	24 - CGMO2
G - Raw Sewage Influent								ng/ L	-	+ Z-1-1-2-1
Season: 0 Req.							Req Mon DAILY MX 19 - mg/L	× 19 - mg/L	01/90 - Quarterly	24 - COMP24
NODI: -	NODI		the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s					İ		

## Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

# Edit Check Errors

No errors.

### Comments

### Attachments

No attachments.

# Report Last Saved By

## ELKHART WWTP

User: Payton88 Name: Laura Kolo

# E-Mail:

2024-07-26 09:15 (Time Zone:-04:00)

laura.kolo@coei.org

# Report Last Signed By

Date/Time:

Payton88 Laura Kolo

laura.kolo@coei.org

2024-07-26 09:39 (Time Zone:-04:00)

Date/Time:

E-Mail:

Name:

User:

NPDES eReporting Help Desk: NPDESeReporting@epa.gov | 877-227-8965 (9:00am - 8:00pm EST) Contact Us to ask a question, provide feedback, or report a problem.



Public Works and Utilities

Date

Sep 10, 2024

Memo To

Board of Public Works

Memo From

Laura Kolo, Utility Services Manager 싿

Subject

Wastewater Utility Monthly Report of Operations

REUISED

for the month of July, 2024

09/12/24

### Wastewater MRO Highlights

Parameter	Monthly Avg	Permit Limit
Suspended Solids mg/L	4	30
cBOD5 mg/L	2	25
Phosphorus mg/L	0.69	1.0
Ammonia mg/L	0.14	4.4 (Dec-Apr) 4.2 (May-Nov)
Avg Daily Flow MGD	21.73	Design - 20
Total Monthly Flow MGD	674	Report

### Incident Reports Filed

Location	Volume (gal)	Cause
1200 S. Main	44	grease
MH -1630	547,800	pumps not programmed
1626 ElReno	1159	grease and roots
	1200 S. Main MH -1630	1200 S. Main 44  MH -1630 547,800

Javisal Aliolad

### Wet Weather Overflows

Number of Events	Total Overlfow Volume (MG)
11	23.9775



### MONTHLY REPORT OF OPERATION **ACTIVATED SLUDGE TYPE** WASTEWATER TREATMENT PLANT

State Form 10829 (R4 / 01-20)

Name of Facility		Permit N	Permit Number						
Elkhart		IN002	IN0025674						
Month	Year	Plant Design Flow	Plant Design Flow Telephone						
July	2024	20.00 mgd	20.00 mgd						
E-mall address:	laura.kolo@	coei.org		035	Α				
Certifled Operator: Name		Class Certific	ate Number	Expiration Date					
Laura E. Kolo		1 1/1 4	KNQ4	nga   ng/3n/3					

										Laura E.	Kolo			IV	150	94	06/3	30/2027
				Total≍			CF	IEMICAI	L,S		•		5.11		-			
	7.26 USED					RAW SEWAGE					(GE							
Day Of Month	Day of Week	Man-Hours at Plant (Plants less than 1 MGD only)	Air Temperature (optional)	Precipitation - Inches	Bypass At Plant Site("x" If Occurred)	Sanitary Sewer Overflow("x" If Occurred)	Chlorine - Lbs/day	Ferric Chloride Lbs/Day or Gal./Day	Lbs/Day or Gal./Day	Influent Flow Rate (if metered) MGD	Hd	CBOD5 - mg/l	CBOD5 - lbs/day	Susp. Solids - mg/l	Susp. Solids - lbs/day	Phosphorus - mg/l	Ammonia - mg/l	
1	Mon					Х		228		11.925	7.1	108	10,741	244	24,267	3,15	17.20	
2	Tue							198		11.983	7.2	105	10,494	116	11,593	3.19	16.90	
3	Wed							243		12.164	7.0	102	10,348	216	21,913	4.00	19,60	
4	Thu			0.91				236		14.042	7.3	99	11,594	114	13,351	2.98	15.40	
5				0.07				252		12.158	7.0	75	7,605	92	9,329	2.67	13.20	
6	Sat							249		11.683	7.1	78	7,600	76	7,405	2.79	15,50	
7	Sun							271		11.100	7.2	145	13,423	82	7,591	2.54	15.70	
8	Mon							243		11.883	7.2	99	9,811	138	13,676	2,92	18.30	
9				2.19				243		14.683	7.0	118	14,450	174	21,307	3.59	15.70	
10	Wed			1.29				250		25.716	7.2	58	12,439	98	21,018	1.82	9.24	~···
11	Thu			0.27				228		19,483	7.2	72	11,699	110	17,874	2.46	13.90	
12	Fri			0.01				140		20.341	7.0	79	13,402	90	15,268	2.49	9.93	
13	Sat							228		17.258	7.1	63	9,068	56	8,060	2.17	11.90	
14	Sun			0.79		Х		225		18.859	7.0	82	12,897	124	19,503	1.87	8.55	
15	Mon			0.54				225		20.483	7.5	72	12,300	162	27,674	2.91	11.00	
16	Tue			0.23				234		20.525	7.1	67	11,469	116	19,857	2.52	11.90	
17	Węd							228		20.333	7.1	88	14,923	172	29,167	3.89	13.20	
18	Thu							252		18.725	7.1	78	12,181	132	20,614	3.79	12.70	
19	Fri					Х		231		16.833	7,0	65	9,125	80	11,231	2.78	12,30	*******
20	Sat							225		16.042	7.4	73	9,767	50	6,690	2.41	12.30	
21	Sun			- 10				205		15.633	7.0	69	8,996	72	9,387	1.97	11.00	
22	Mon			0.10				221		17.191	7.3	66	9,463	108	15,484	2,22	12.80	
23	Tue			0.06				203		15.817	7.1	101	13,323	162	21,370 26,701	2.51 2.66	13.10 12.30	
24	Wed			0.38				200		18.400	7.2	98	15,039	174 144		3.38	13,70	
25	Thu			-				200 144		15,208 14,317	7.2 7.3	71 71	9,005 8,478	98	18,264 11,702	2.83	13.20	
26	Fri			-				200	****	14.317	7.2	88	10,556	102	12,235	2,48	12.70	
27	Sat							167		14.375	7.2	80	9,591	64	7,673	2.46	12.10	
28	Sun			0.40				197		16,341	1.1	95	12,947	136	18,535	2.76	13.10	
29	Mon			0.40				143		14.933	7.2	102	12,703	156	19,428			
	Tue			0.01				235		14.933	7.2	104	12,703	126	15,474	2.61	15.30	
31				0.52	Effective Sign	्युक्तियी, हिन		218		16.050	1.4	86	11,233	122	16,246	2.78	13.51	
Ave				2,19				271		25.716	7.5	145	15,039	244	29,167	4.00	19.60	
	imum mum			0.01				140		11.100	7.0	58	7600	50	6690	1.82	8.55	
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were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of principal executive officer or authorized agent (or attested by NetDMR subscriber agreement)

aura Do

Date (month, day, year)

### **BYPASS / OVERFLOW INCIDENT REPORT**

State Form 48373 (R7 / 4-16) Indiana Department of Environmental Management Office of Water Quality Follow-up to Bypass report previously sent on 07/15/23

INSTRUCTIONS:

Complete all parts of this form and email signed copies to <a href="www.www.eports@idem.IN.gov">www.eports@idem.IN.gov</a>. Submittal of this report will satisfy the Office of Water Quality (OWQ) telephone and written bypass/overflow reporting requirements of your NPDES permit. Please use and the second page of this form as necessary to identify separate locations caused by the same event. If you have any questions while filling out the report form, please contact Renee Repar at (317) 232-6770 or <a href="mailto:rrepar@idem.in.gov">rrepar@idem.in.gov</a>.

To report a spill or if the release is resulting in a fish kill or other severe environmental damage, immediately report the release to the Emergency Response Section spill response line at: (317) 233-7745 or toll free within Indiana at (888) 233-7745.

response oc	Mon apin response	mio att (ott	7 200 11 10 01 10		, , , , , , , , , , , , , , , , , , , ,	,					
7		193			L INFORMATI						
	me (Organization)		1	•	porting organiz	zation)	1	County	1	(4) NPDE	
Elkhart Ρι	ıblic Works		1201 S. I	Nappan	ee Street		Elk	hart		IN0002	25674
	RELEASE INFORMATION (Location 1)  (5) Outfall (6) Date (mm/dd/vv) and Time (7) Date (mm/dd/vv) and Time (8) Location of Release (streets address or (9) Latitude										1 200
(5) Outfall Number	(6) Date (mm/dd/yy) Release Began	i	(7) Date <i>(mm/dd/yy)</i> Release Stopped	elease Stopped Manhole, Lift			f Release (streets address or Station, Force Main etc.)			(9) Longit (Deg Min	
	07/01/24 10:51	, , ,	07/01/24 12:16	1 124 7				1 .	40 36 N	l	7 50W
	of Flow Released		ays provide a volu			(11) WWTP F 12.1 MG	low During Rele	ase	(12) WWTP P 44,0 MG	_	Flow Rate
☐ Sanitary S ☐ Treatment ☐ Prohibited ☑ Dry Weath ☐ Combined	ype (Select one.) ewer Overflow Bypass (at wasteu Combined Sewer O er Combined Sewer Sewer System Rel	Overflow r Overflow ease	(14) noi	ne	any damage t	o aquatic life o		ream:		D .	
1 ' '	or Bypass / Overflo		ne or more.)	9 T-6	Unknow	П			. 🗆 🗆		Inches
	Component(s) r more.) eral re ition Failure Bypassed ructure /alve	call c	are <u>Li Equiphi</u> Additional Descrip came in at 10:51 a removed and flov	otion of the am, Crew	Bypass / Ove s found line plu	rflow Event: ugged with gre	(18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (18) [ (1	Descri eck all ffected aseme ccurre eache eache	r ☐ Precipite ption of the Ar that apply.) I Private Prope nt Backup d at Treatmer d Public Land d Receiving W eceiving Wate	rea Impact erty nt Plant Vater	ted
grease (19) Additiona	ıl organizations noti	fied by facili	ty if necessary (S	Select one	or more.)		L				
1 ' '	ergency Response	☐ Health			sh and Wildlife	☐ Local E	Emergency Ma	ınager	ment 🗌 Oth	ier:	
											n/a
(Select one of	of grease within 1.5	ing, then add paired Pipe 5 hours of be	d a written descrip	o <i>tion.)</i> 'ump Stati roblem		reatment of A	Affected Area ☐ Clear	ո-Up I	Debris		
(21) Resolution will be sendir	on: Actions Taken o ng fliers of proper g	r Planned to rease dispos	Prevent Recurre sal to residents in	nce area						,	
(22)					neganija na siki a esm <u>ila, k</u>	*	ACTAL 4 (2019) 374	versi se	Ta eks og samegeld	Sangraphic statement	
					ON AND SIGN						
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing, violations. (The area below is for a handwritten signature or an electronic substitute then fax or scan to PDF for emailing.)											
SIGNATURE:		Ma	Kello				D,	ATE (	month, day, ye	ear): 07/0	02/24
Individual Makin Laura Kol	g Report <i>(printed)</i> O		phone Number 4) 293-2572		t Email a.kolo@co	pei.org	Date (month, 07/02/2	^{day,} ye 4 10	ear) / Time IDEN :40	/ Notified	□ AM □ PM

### Kolo, Laura

om:

postmaster@state.in.us

ent:

Tuesday, July 2, 2024 10:46 AM

To:

Kolo, Laura

Subject:

EXTERNAL: Relayed: Inc rpt attached

Attachments:

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### BYPASS / OVERFLOW INCIDENT REPORT State Form 48373 (R7 / 4-16) Indiana Department of Environmental Management Office of Water Quality

☐ Follow-up to Bypass report
previously sent on:

**INSTRUCTIONS:** 

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To report a spill or if the release is resulting in a fish kill or other severe environmental damage, immediately report the release to the Emergency Response Section spill response line at: (317) 233-7745 or toll free within Indiana at (888) 233-7745.

Response Se	ction spill response line a	t: (317) 233-7745 or toll	free with	n Indiana at (888) 233-77	45.				•	
i i i i i i i i i i i i i i i i i i i			SENERA	LINFORMATION		W 59		jaga mener		
(1) Facility Na	me (Organization)		(2) Mailing Address (reporting organization)					(4) NPDE	S Permit	
1	ıblic Works	I ,	1201 S. Nappanee Street					IN0002	5674	
RELEASE INFORMATION (Location 1)							t			
(5) Outfall	(6) Date (mm/dd/yy) and Ti			(8) Location of Release (str	eets address	s or (9)	Latitude	(9) Longit	ude	
Number	Release Began	Release Stopped		Manhole, Lift Station, Force	Main etc.)		eg Min Sec)	(Deg Min		
	07/14/24 4:40 A	M M 07/14/24 5:40	<u>                                    </u>				1 40 45 N	1	2 W	
(10) Amount of Flow Released (Always provide a volume.) (11) WWTP Flow During Release (12) WWTP P								-	Flow Rate	
Check one: ☑ Estimated ☐ Actual 547,800 Gallons 31 MGD 44.0 MGD  (13) Overflow Type (Select one.) (14) Describe any damage to aquatic life or receiving stream:										
☐ Sanitary S☐ Treatment	ewer Overflow Bypass <i>(at wastewater p</i>	plant) none		any damage to aquatic in	e or receivi	ing sirean	I <b>.</b>			
Dry Weath	Combined Sewer Overflo er Combined Sewer Over Sower System Release				·					
(15) Reason f	Sewer System Release or Bypass / Overflow (Se	lect one or more.)	C	sperative ev	OVS					
☐ Construction	• • • • • • • • • • • • • • • • • • • •	er Failure 🔲 Equipme				ax Capaci	y 🗌 Precipita	ation	Inches	
(16) System C	Component(s)	(17) Additional Descripti	on of the	Bypass / Overflow Event	: [	(18) Desc	ription of the A		ed	
(Select one of	more.)			, it was discovered in the			<i>ll that apply.)</i> d Private Prop	ortu		
│'□ Manhole □ House Lat	eral			001630 had backed up ar			ent Backup	ыту	>	
🖢 🔲 Pipe Failui	re			on further investigation, a on between operators at s	hiff ]	Occurr Occurr	ed at Treatmer			
☐ Pump Stat				mizing wet weather flows			ed Public Land			
│	Bypassed			off pumps at the head of the		∐ Keacn	ed Receiving V	vater		
☐ Influent St	ructure	WWTP, at LS 44.		F = F =		Name of F	Receiving Wate	r Impacted	i:	
Air Relief \	/alve					none				
☐Sewer Clea	in Out									
Describe Othe	er: (in the box below)									
	l organizations notified by	/facility, if necessary (Se	lect one	or more.)						
, ,					l Emergend	cy Manage	ement 😡 Oth	ner:		
									n/a	
(0.0) 1 (1	1		-111	Name of Transports	f Affactod (	1			III	
				Clean-up and Treatment o	i Allected A	Nea				
(Select one or more of the following, then add a written description.)										
crews sent to	clean debris surrounding	J MH-0001630								
(0.1) [5]	A () 7 ( D)									
Training is be	n: Actions Taken or Plan Ping scheduled to help Op y make at the WWTP.	ned to Prevent Recurrent perators understand the i	ce mportano	e of comprehensive pass	downs at	shift chan	ge and also the	bigger plo	ture of	
decisions inc	y make at the vvvvii .									
(22)			rgeneral dependan			on the terminal and the contract of	eration in Colorations	sei Sateronive	gggoodgest into prot	
				ON AND SIGNATURE						
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and										
beilef, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and										
imprisonment	· ·	` , ~	nandwrit	ten signature or an electro	ภาเต รนกริโก้					
SIGNATURE:	Laura	¥ -			1=:::	DATE	(month, day, ye	ear): 07/		
Individual Makin Laura Kol	g Report <i>(printed)</i> O	Telephone Number (574) 293-2572	Contac	t Email a.kolo@coei.org			<i>уевт) /</i> Time IDEN Орх 10:20	n Notified	□ AM □ PM	

### Kolo, Laura

om:

postmaster@state.in.us

Sent:

Tuesday, July 16, 2024 10:15 AM

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GENERAL INFORMATION									
(1) Facility Name (Organization) (2) Mailing Address (reporting organization) (3) County (4) NPDE	S Permit								
Elkhart Public Works 1201 S. Nappanee Street Elkhart IN0002	5674								
RELEASE INFORMATION (Location 1)  (5) Outfall (6) Date (mm/dd/yy) and Time (7) Date (mm/dd/yy) and Time (8) Location of Release (streets address or (9) Latitude (9) Longit	udo								
Number Release Began Release Stopped Manhole, Lift Station, Force Main etc.) (Deg Min Sec) (Deg Min									
07/19/24 7:49 ☐ AM	53 W								
(10) Amount of Flow Released (Always provide a volume.) (11) WWTP Flow During Release (12) WWTP Peak Design									
Check one: ☑ Estimated ☐ Actual 1159 Gallons 17.8 MGD 44.0 MGD									
(13) Overflow Type (Select one.)  Sanitary Sewer Overflow Treatment Bypass (at wastewater plant) Prohibited Combined Sewer Overflow Dry Weather Combined Sewer Overflow									
☐ Combined Sewer System Release  (15) Reason for Bypass / Overflow (Select one or more.)  (6) Cease / Voo 13									
☐ Construction Related ☐ Power Failure ☐ Equipment Failure ☐ Unknown ☐ Exceeded Max Capacity ☐ Precipitation	Inches								
Constitution Notation   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constitution   Constituti									
(19) Additional organizations notified by facility, if necessary (Select one or more.)									
☐ IDEM Emergency Response ☐ Health Dept. ☐ DNR Fish and Wildlife ☐ Local Emergency Management ☐ Other:									
	n/a								
Look A. U T. L I. Deve of Milliands Develop including Cloop up and Treatment of Afforded Area	1114								
(20) Actions Taken to Prevent, Minimize, or Mitigate Damage including Clean-up and Treatment of Affected Area (Select one or more of the following, then add a written description.)  ☐ Removed Blockage ☐ Repaired Pipe ☐ Repaired Pump Station ☐ Other ☐ Lime ☐ Clean-Up Debris crews sent to clear obstruction of grease and roots									
(21) Resolution: Actions Taken or Planned to Prevent Recurrence									
Will send information to neighborhood on proper grease disposal .									
(22)	1885 1883 1883 1883								
CERTIFICATION AND SIGNATURE									
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. (The area below is for a handwritten signature or an electronic substitute then fax or scan to PDF for emailing.)									
SIGNATURE: DATE (month, day, year): 07/2	1/24								
Individual Making Report (printed)  Laura Kolo  Telephone Number (574) 293-2572  Contact Email  Laura Kolo@coei.org  Date (month, day, year) / Time IDEM Notified 07/21/24 appx 9:30	☐ AM								

#### Kolo, Laura

om:

postmaster@state.in.us

Sent:

Sunday, July 21, 2024 9:29 AM

To:

Kolo, Laura

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Date

Aug 26, 2024

Memo To

Board of Public Works

Memo From

Laura Kolo, Utility Services Manager

Subject

Wastewater Utility Monthly Report of Operations

for the month of July, 2024

#### Wastewater MRO Highlights

Parameter	Monthly Avg	Permit Limit
Suspended Solids mg/L	4	30
cBOD5 mg/L	2	25
Phosphorus mg/L	0.69	1.0
Ammonia mg/L	0.14	4.4 (Dec-Apr) 4.2 (May-Nov)
Avg Daily Flow MGD	21.73	Design - 20
Total Monthly Flow MGD	674	Report

#### Incident Reports Filed

Date	Location	Volume (gal)	Cause
None			

#### Wet Weather Overflows

Number of Events	Total Overlfow Volume (MG)
11	23.9775

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Process Confirmation - CDX Activity ID: _1fa27173-cb79-4c9a-9535-d5552bd5bc71

Your DMRs are undergoing the Signing Process

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IN0025674 ELKHA. WWTP 005	005-C	CSO- ARCH/BAR, NW OF INTEP SECTION	07/31/24	08/28/24
IN0025674 ELKH. WWTP 006	D-900	CSO- JACKSON, N OF BRIDGE, OF ELKHART RIVER	07/31/24	08/28/24
IN0025674 ELKHART WWTP 007	007-C	CSO- JACKSON, N OF BRIDGE, E OF ELKHART RIVER	07/31/24	08/28/24
IN0025674 ELKHART WWTP 008	008-C	CSO- HUG/EAST BLVD	07/31/24	08/28/24
IN0025674 ELKHART WWTP 009	D-600	CSO- NIBCO PRKWY - FKA JR, ACHIEVEMENT (Y DR N)	07/31/24	08/28/24
IN0025674 ELKHART WWTP 011	011-C	CSO- ELKHART/FRANKLIN	07/31/24	08/28/24
IN0025674 ELKHART WWTP 012	012-C	CSO- CASSOPOLIS/BEARDSLEY	07/31/24	08/28/24
IN0025674 ELKHART WWTP 013	013-C	CSO- JOHNSON/BEARDSLEY	07/31/24	08/28/24
IN0025674 ELKHART WWTP 014	014-C	CSO- DAM AT CONE/ERWIN	07/31/24	08/28/24
IN0025674 ELKHART WWTP 015	015-C	CSO- MICHIGAN/FULTON	07/31/24	08/28/24
IN0025674 ELKHART WWTP 016	016-C	CSO- DAN @ GOSHEN/SUPERIOR	07/31/24	08/28/24
IN0025674 ELKHART WWTP 017	017-C	CSO- W. BOULEVARD/MCNAUGHTON	07/31/24	08/28/24
IN0025674 ELKHART WWTP 018	018-C	CSO- MCNAUGHTON PARK WEST	07/31/24	08/28/24
IN0025674 ELKHART WWTP 019	019-C	CSO-MICHIGAN @ RVR, S. OF LEX.	07/31/24	08/28/24
IN0025674 ELKHART WWTP 020	020-C	CSO- BRIDGE AND HUDSON	07/31/24	08/28/24
IN0025674 ELKHART WWTP 023	023-C	CSO- FRANKLIN/8TH	07/31/24	08/28/24
IN0025674 ELKHART WWTP 024	024-C	CSO- INDIANA/FRANKLIN	07/31/24	08/28/24
IN0025674 ELKHART WWTP 025	025-C	CSO- POTTAWATOMI/SECOND	07/31/24	08/28/24
IN0025674 ELKHART WWTP 026	026-C	CSO- MAIN/POTTAWATOMI	07/31/24	08/28/24
IN0025674 ELKHART WWTP 027	027-C	CSO- EDGEWATER/NAVAJO	07/31/24	08/28/24
IN0025674 ELKHART WWTP 028	028-C	CSO- WASHINGTON AT RIVER	07/31/24	08/28/24
IN0025674 ELKHART WWTP 029	029-C	CSO- JEFFERSON AT THE RIVER	07/31/24	08/28/24
IN0025674 ELKHART WWTP 031	031-C	CSO- ELIZABETH/LUSHER	07/31/24	08/28/24
IN0025674 ELKHART WWTP 032	032-C	CSO- EDGEWATER/OKEMA	07/31/24	08/28/24
IN0025674 ELKHART WWTP 033	033-C	CSO- EVANS/GRACE	07/31/24	08/28/24
IN0025674 ELKHART WWTP 034	034-C	CSO- LEXINGTON/6TH	07/31/24	08/28/24
IN0025674 ELKHART WWTP 035	035-A	20 MGD CLASS IV ACTIVATED SLUDGE - TO ST JOSEPH RIVER	07/31/24	08/28/24
IN0025674 ELKHART WWTP 037	037-C	CSO- FRANKLIN/KRAU	07/31/24	08/28/24
IN0025674 ELKHART WWTP 039	039-C	CSO- WEST HIGH AT RIVER	07/31/24	08/28/24
INO025674 ELKHART WWTP 040	040-C	CSO- MCNAUGHTON PARK SOUTH	07/31/24	08/28/24

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DMR Copy of Submission

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Form Approved OMB No. 2040-0004 expires on 07/31/2026

11

Permit

IN0025674 Permit ID:

Permittee:

**ELKHART WWTP** 

Permittee Address:

Major:

Facility Location:

Discharge:

ELKHART WWTP

Facility:

035 - External Outfall Permitted Feature:

035-A - 20 MGD CLASS IV ACTIVATED SLUDGE - TO ST JOSEPH RIVER

1201 S NAPPANEE ST ELKHART , IN46516 ELKHART, IN46516 229 SOUTH 2ND ST

Report Dates & Status

From 07/01/24 to 07/31/24 Monitoring Period:

**NetDMR Validated** 

Status:

# Considerations for Form Completion

THE FLOW METER(S) SHALL BE CALIBRATED AT LEAST ONCE EVERY TWELVE MONTHS. REPORT QUARTERLY PARAMETERS ON 035-AQ NETDMR. MUNICIPAL MAJOR ELKHART COUNTY

08/28/24

DMR Due Date:

Principal Executive Officer

Last Name: Laura First Name: Telephone: Utility Services Manager Title:

574-293-2572

Kolo

No Data Indicator (NODI)

Form NODI:

	ı	· · · · · · · · · · · · · · · · · · ·	•						ō	Analysis	Type
Code Name		Value 1	Value 2	Units	V21e1	Value 2	Value 3	Units	Ä		
00300 Oxygen, dissolved [DO]	Smpl.				=7.4			19 - mg/L	0	01/01 -	3R -
1 - Effluent Gross										Q	14700
Season: 0	Req.				>=4.0 DLYAVMIN			19 - mg/L		01/01 - Daily	3R - 3GR24H
NODI: -	NODI										
00400 <b>pH</b> 1 - Effluent Gross	Smpl.				e.9=		=7.6	12 - SU	0	01/01 - Daily	GR - GRAB
Season: 0	Req.				>=6.0 DAILY MN		<=9.0 DAILY MX	12 - SU		01/01 - Daily	GR - GRAB
NODI: -	NODI										
00530 <b>Solids, total</b> suspended	Smpl.	=705.0	=859.0	26 - lb/d		=4.0	=4.0	19 - mg/L	0	01/01 - Daily	24 - COMP24
1 - Effluent Gross Season: 0	Req.	<=7511.0 MO AVG	<=11266.0 MX WK AV	26 - Ib/d		<=30.0 MO AVG	<=45.0 MX WK AV	19 - mg/L		01/01 - Daily	24 - COMP24
NODI: -	NODI										
00600 Nitrogen, total [as N] 1 - Effluent Gross	Smpl.	=2166.0		26 - lb/d		=17.6		19 - mg/L	0	01/30 - Monthly	24 - COMP24
Season: 0	Req.	Req Mon MO AVG		26 - lb/d		Req Mon MO AVG		19 - mg/L		01/30 - Monthly	24 - COMP24
NODI: -	NODI										-
00610 Nitrogen, ammonia total [as N] 1 - Effluent Gross	Smpl.	=30.1	=148.5	26 - lb/d	·	=0.16	=0.71	19 - mg/L	0	01/01 - Daily	24 - COMP24
Season: 1 NODI: -	Req.	<=1051.0 MO AVG	<=2478.0 DAILY MX	26 - lb/d		<=4.2 MO AVG	<=9.9 DAILY MX	19 - mg/L		01/01 - Daily	24 - COMP24
00665 Phosphorus, total [as P] 1 - Effluent Gross	Smpl.	=122.0		26 - lb/d		=0.69		19 - mg/L	0	01/01 - Daily	24 - COMP24
Season: 0 NODI: -	Req.	Req Mon MO AVG		26 - lb/d		<=1.0 MO AVG		19 - mg/L		01/01 - Daily	24 - COMP24
01079 Silver total recoverable 1 - Fffluent Gross	Smpl.	<0.025	<0.05	26 - lb/d		<0.0002	<0.0002	19 - mg/L	0	01/07 - Weekly	24 - COMP24

•	1	,	•			•	5				- £
Code Name.		Value 1	Value 2	Units	V21.16 1	Value 2	Value 3	Units	ĭ ĭä	o A	24
Season: 0	Req.	<=0.063 MO AVG	<=0.13 DAILY MX	26 - Ib/d	)	<=0.00038 MO AVG	<=0.00077 DAILY MX	19 - mg/L	05	01, c/- Weekly	24 - COMP24
NODI: -	Nobi								-		
01079 Silver total recoverable G - Raw Sewage Influent	Smpl.					<=0.0004	=0.00076	19 - mg/L C	0 >	01/07 - Weekly	24 - COMP24
Season: 0 NODI: -	Req.					Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L	OFZ	02/30 - Twice Per Month	24 - COMP24
50050 Flow, in conduit or thru treatment plant	Smpl.	=21.732		03 - MGD					00	01/01 - Daily	TM - TOTALZ
1 - Effluent Gross . Season: 0	Req.	Req Mon MO AVG		03 - MGD					ο Δ	01/01 - Daily	TM - TOTALZ
51041 E. coli, colony forming units [CFU]	Smpl.					=19.0	=54.0	3Z - CEI/100mL C		01/01 - Daily	GR - GRAB
1 - Effluent Gross Season: 1	Req.					<=125.0 MO GEO	<=235.0 DAILY MX	3Z - 23Z - 23Z - 23Z - 23Z - 23Z - 23Z - 23Z - 23Z - 23Z - 23Z - 23Z - 23Z - 23Z - 23Z - 23Z - 23Z - 23Z - 23Z	0 (	01/01 -	GR -
NODI: -	NODI										
80082 BOD, carbonaceous [5 day, 20 C] 1 - Effluent Gross	Smpl.	=416.0	=524.0	26 - lb/d		=2.0	=3.0	19 - mg/L (	0	01/01 - Daily	24 - COMP24
Season: 0 NODI: -	Req.	<=6259.0 MO AVG	<=10014.0 MX WK AV	26 - lb/d		<=25.0 MO AVG	<=40.0 MX WK AV	19 - mg/L	<u>о</u> Д	01/01 - Daily	24 - COMP24
81012 Phosphorus, total percent removal	Smpl.			7=	=75.0			23 - %	0 2	01/30 - Monthly	CA - CALCTD
K - Percent Removal Season: 0 NODI: -	Req.			X.	>=75.0 MO AV MN		:	23 - %	02	01/30 - Monthly	CA - CALCTD
82220 Flow, total	Smpl.		=674.0	80 - Mgal/mo					0 2	01/30 - Monthly	RT - RCOTOT

•	1	1	;					1		Time and the second	7	. 6
Code	Name		Value 1	Value 2	Units	V>'''e 1	Value 2	Value 3	Units	EX.	2	<b>7</b>
Season: 0	Ĵ	Req.		Req Mon MO TOTAL	80 - Mgal/mo					01/20 - R Monthly R	RT - RCOTOT	ТОТ(
NODI: -		NODI										

# Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

# No errors.

Comments

# **Attachments**

Size	1157312.0	1017603.0
Туре	. pdf	bdf
Name	IN0025674_CSO_MRO_2024_07.pdf	IN0025674_035a_2024_07.pdf

# Report Last Saved By

# ELKHART WWTP

User:

laura.kolo@coei.org Laura Kolo Date/Time: E-Mail: Name:

Payton88

2024-08-26 15:59 (Time Zone:-04:00)

# Report Last Signed By

Laura Kolo Payton88

2024-08-26 16:00 (Time Zone:-04:00)

Date/Time:

E-Mail:

Name:

User:

laura.kolo@coei.org

NPDES eReporting Help Desk: <u>NPDESeReporting@epa.gov</u> | 877-227-8965 (9:00am - 8:00pm EST) **Contact Us** to ask a question, provide feedback, or report a problem.



#### MONTHLY REPORT OF OPERATION ACTIVATED SLUDGE TYPE WASTEWATER TREATMENT PLANT

State Form 10829 (R4 / 01-20)

Name of Facility			Permit Num	nber		
Elkhart			IN00256	674		
Month	Year	Plant Desi	ign Flow	Telephone	Number	
July	2024	20.00	mgd	5	74/293	-2572
E-mail address:	laura.kolo@coei.	org			035	Α
Certified Operator: N	ame	Class	Certificate	Number	Expi	ration Date
Laura E. Kolo		IV	150	94	06/	30/2027

	•			Total= 7.25			CH	IEMICAL USED	_S				RAW	SEWA	.GE			
Day Of Month	Day of Week	Man-Hours at Plant (Plants less than 1 MGD only)	Air Temperature (optional)	Precipitation - Inches	Bypass At Plant Site("x" If Occurred)	Sanitary Sewer Overflow("x" If Occurred)	Chlorine - Lbs/day	Ferric Chloride Lbs/Day or Gal./Day	Lbs/Day or Gal./Day	Influent Flow Rate (if metered) MGD	Hd	CBOD5 - mg/l	CBOD5 - İbs/day	Susp. Solids - mg/l	Susp. Solids - Ibs/day	Phosphorus - mg/l	Ammonia - mg/l	
1	Mon							228		11.925	7.1	108	10,741	244	24,267	3.15	17.20	
2	Tue							198		11.983	7.2	105	10,494	116	11,593	3.19	16.90	
3	Wed							243		12.164	7.0	102	10,348	216	21,913	4.00	19.60	
4	Thu			0.91				236		14.042	7.3	99	11,594	114	13,351	2.98	15.40	
5	Fri			0.07				252		12.158	7.0	75	7,605	92	9,329	2.67	13.20	
6	Sat							249		11.683	7,1	78	7,600	76	7,405	2.79	15.50	
7	Sun							271		11.100	7.2	145	13,423	82	7,591	2.54	15.70	
8	Mon							243		11.883	7.2	99	9,811	138	13,676	2.92	18.30	
9	Tue			2.19				243		14.683	7.0	118	14,450	174	21,307	3.59	15.70	
10	Wed			1.29				250		25.716	7.2	58	12,439	98	21,018	1.82	9.24	
11	Thu			0.27				228		19.483	7.2	72	11,699	110	17,874	2.46	13.90	
12	Fri			0.01				140		20.341	7.0	79	13,402	90	15,268	2.49	9.93	
13	Sat			0.70				228		17.258	7.1	63	9,068	56	8,060 19,503	2.17 1.87	11.90 8.55	
14	Sun			0.79				225 225		18.859 20.483	7.0 7.5	82 72	12,897 12,300	124 162	27,674	2.91	11.00	
15	Mon			0.54				234		20.463	7.5	67	11,469	116	19,857	2.52	11.90	
16 17	Tue			0.23				228		20.333	7.1	88	14,923	172	29,167	3.89	13.20	
18	Wed							252		18.725	7.1	78	12,181	132	20,614	3.79	12.70	
19	Thu							231		16.833	7.0	65	9,125	80	11,231	2.78	12.30	······································
20	Fri							225		16.042	7.4	73	9,767	50	6,690	2.41	12.30	
21	Sat Sun							205		15.633	7.0	69	8,996	72	9,387	1.97	11.00	
22	Mon			0.10				221		17.191	7.3	66	9,463	108	15,484	2.22	12.80	
23	Tue			0.06				203		15.817	7.1	101	13,323	162	21,370	2.51	13.10	
24	Wed			0.38				200		18.400	7.2	98	15,039	174	26,701	2,66	12.30	
25	Thu							200		15.208	7.2	71	9,005	144	18,264	3.38	13.70	
26	Fri							144		14.317	7,3	71	8,478	98	11,702	2.83	13.20	
27	Sat							200		14.383	7.2	88	10,556	102	12,235	2.48	12.70	
28	Sun							167		14.375	7.1	80	9,591	64	7,673	2.16	12.10	
29	Mon			0.40				197		16.341	7.1	95	12,947	136	18,535	2.76	13.10	
30	Tue			0.01				143		14.933	7.2	102	12,703	156	19,428	3.69	15.20	
***************************************	Wed							235		14.725	7.2	104	12,772	126	15,474	2.61	15.30	
Ave				0.52	-80 Tege	- 10		218		16.050		86	11,233	122	16,246		13.51	
	imum			2.19				271		25.716	7.5	145	15,039	244	29,167	4.00	19.60	
	mum			0.01				140		11.100	7.0	58	7600	50	6690	1.82	8.55	
		141-22														1	1	
# of	Data		0					31	0	31	30	31	31	31	31	31	31	0
	I cer	tify under	penalty	of law t	hat this	s docu	ment and	all attacl	hments	Prepared by	or under	the direction	n of (Certifie	d Operato		Date (mo	onth, day,	year)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

spared by or ariaor the amount of (continue o

Date (month, day, year)

Laurer Di

0/20/27

Signature of principal executive officer or authorized agent (or attested by NetDMR subscriber agreement)

Date (month, day, year)

lama k

0/26/24

### MONTHLY REPORT OF OPERATION ACTIVATED SLUDGE TYPE WASTEWATER TREATMENT PLANT

State Form 10829 (R4 / 01-20)			
Name of Facility	Permit Number	Month	Year
Elkhart	IN0025674	July	2024

Littila				11400230	77 ]	Jui	<u>y</u>		<b>-</b> 1	-								
	PRIMAF	)\/	I		A E	RATION	.1			CECON	DADV							
	EFFLUE		MIXED LI	OLIOR	AL	KAHOI		RETURN S	LUDGE	SECON			F	INAL E	EFFLUE	ENT		
-	CLLFOR	21X I	S MIVED LI	QUOR	E			KETUKNS	LUDGE	EFFLUE	:IN ]	Final		<u>E</u>			l/gr	
Day Of Month	CBOD5 - mg/l	Susp. Solids - mg/l	Settleable Solids % in minutes	Susp. Solids - mg/l	Sludge Vol. Index - ml/gm	Dissolved Oxygen - mg/l	Temperature - F	Volume - MG	Susp. Solids - mg/l	CBOD5 - mg/l	Susp. Solids - mg/l	Residual Chlorine - Fi	Residual Chlorine - Contact Tank	E. Coli - colony/100 ml	pH - daily low (or single sample)	pH - daily high (if multiple samples)	Dissolved Oxygen - mg/l	Oil & Grease (mg/l)
	<u> </u>	<u>ගි</u> 60	118		ග 49	3.9	<u>世</u> 19	> 6.487	<u>ගි</u> 4,800	ਹ	S	1 "		10	7.0		8.3	
1 2	77	60	116	2,428 2,240	52	3.5	19	6.487	4,780			· ·		10	7.0		8.2	
3	59	57	106	2,548	42	4.8	18	6.487	4,620					8	7.0		8.4	
4	58	49	116	2,256	52	4.4	19	6.487	5,640					6	7.6		8.3	
5	53	58	113	2,272	50	4.6	19	6.487	4,980					12	7.0		8.1	
6	58	43	106	2,336	45	4.6	19	6.487	4,540					17	7.2		8.2	
7	58	47	107	2,376	45	4.8	19	6.487	4,960					17	7.1		8.8	
8	81	63	102	2,244	45	4.4	19	6.487	4,620		***************************************			23	7.0		8.1	
9	74	97	106	2,116	50	3.6	19	6.487	2,680					54	7.3		8.4	
10	44	53	96	1,964	488	3.8	20	6.487	6,380					16	7.1		7.6	
11	52	62	115	2,208	52	3.3	20	6.487	5,620					11	7.0		7.6	
12	59	55	105	2,152	49	4.0	20	6.487	6,560					22	7.0		7.5	
13	46	37	121	2,352	52	4.2	19	6.487	6,240					17	7.0		7.8	
14	49	40	122	2,532	48	4.3	20	6.487	6,720					39	7.0		7.8	
15	51	88	134	2,504	54	3.9	20	6.487	6,480					37	7.0		7.6	
16	48	53	129	2,384	54	4.0	20	6.487	7,100					44	7.0		7.5	
17	61	92	126	2,316	55	3.8	20	6.483	6,400					26 21	7.1		7.4 7.6	
18	86	62 49	131 138	2,520	52 52	4.1	19 19	6.487 6.487	6,780 6,720					23	7.0		8.0	
19 20	57 54	35	140	2,684 2,700	52	4.6	19	6.487	6,680					<u></u>	7.0		8.1	
21	51	37	141	2,700	49	4.5	19	6.487	7,340					15	7.3		8.6	
22	45	47	142	2,784	51	4.6	19	6.487	6,820					22	7.0		8.4	
23	53	48	132	2,672	49	4.0	19	6.487	6,260					10	7.0		8.1	
24	60	60	148	2,432	61	6.7	20	6.487	4,220					12	7.0		8.4	
25	50	60	144	2,476	58	3.5	19	6.487	7,020					28	7.0		8.1	
26	58	58	168	2,920	58	4.1	19	6.487	5,780					21	7.0		8.1	
27	63	15	178	2,992	60	4.5	19	7.785	5,320					39	7.0		8.3	
28	56	40	177	3,112	57	4.5	19	7.785	5,540					26	7.2		8.5	
29	50	55	175	3,200	55	3.6	19	7.785	6,300					36	7.1		8.1	
30	70	91	175	2,984	59	3.6	20	7.298	5,760					17	6.9		7.8	
31	62	61	170	2,860	59	4.00	20	6.487	6,180					24	7.0		8.6	
Avg.	58	56	132	2,531	66	4.2	19	6.639	5,801					22			8.1	
Max	86	97	178	3,200	488	6.7	20	7.785	7,340		·			54		7.6	8.8	
Min.	44	15	96	1964	42	3,3	18	6.483	2680					6		6.90	7.4	
	/ Max													54				
		ove 235	0.1		0.41	241			0.4		^			0	0.4		24	
Data	31	31	31	31	31	31	31	31	31	0	0		0	31	31	0	31	0

Comments for the Month (major repairs, breakdowns, process upsets and their causes, inplant treatment process bypass, etc.):

# MONTHLY REPORT OF OPERATION ACTIVATED SLUDGE TYPE WASTEWATER TREATMENT PLANT

State Form 10829 (R4 / 01-20)			
Name of Facility	Permit Number	Month	Year
Elkhart	IN0025674	July	2024

			<del> </del>				F	NAL EF	FLUENT	•							
	Ì	Flow		BOD						d Solids	3	Ammor	ia			Phosph	orus
Day Of Month	Day of Week	Effluent Flow Rate (MGD)	Effluent Flow Weekly Average	CBOD5 - mg/l	CBOD5 - mg/l Weekly Average	CBOD5 - lbs/day	CBOD5 - lbs/day Weekly Average	Susp. Solids - mg/l	Susp. Solids - mg/l Weekly Average	Susp. Solids - Ibs/day	Susp. Solids - Ibs/day Weekly Average	Ammonia - mg/l	Ammonia - mg/l Weekly Average	Ammonia - Ibs/day	Ammonia - Ibs/day Weekly Average	Phosphorus - mg/l	Phosphorus - lbs/day
1	Mon	15.319		2		256		4		447		0.03		3.8		1.11	142
2	Tue	15.180		2		253		4		468		0.04		5.1		0.74	94
3	Wed	14.853		2		248		4		446		0.04		5.0		0.71	88
4	Thu	18.608		2		310		7		1,086		0.10		15.5		1.01	157
5	Fri	15.325		2		256		4		447		0.05		6.4		0.71	91
	Sat	14.213	15.506	2	2.00	237	259	4	4.06	427	537	0.04	0.05	4.7	7	0.75	89
	Sun	14.103		2		235		4		412		0.05		5.9		0.85	100
8	Mon	14.753		2		246		4		529		0.04		4.9		0.73	90
9	Tue	21.466		3		537		4		716		0.11		19.7	***	0.75	134
10	Wed	33.853		3		847		6		1,638		0.21		59.3		0.65	184
11	Thu	30.195		2		504		3		831		0.58		146.1		0.47	118
12	Fri	28.505		3		713		5		1,165		0.19		45.2		0.51	121
13	Sat	23.344	23.746	3	2.57	584	524	4	4.21	720	859	0.05	0.18	9.7	42	0.60	117
14	Sun	27.324		3		684		4		1,003		0.04		9.1		0.65	148
15	Mon	30.436		2		508		4		888		0.16		40.6		0.57	145
16	Tue	30.014		2		501		4		901		0.44		110.1		0.65	163
17	Wed	29.329		2		489		4		905		0.29		70.9		0.59	144
18	Thu	26,583		2		443		4		798		0.09		20.0		0.55	122
19	Fri	23.776		2		397		4		833		0.38		75.4		0.58	115
20	Sat	22.189	27.093	3	2.29	555	511	4	3.80	666	856	0.04	0.21	7.4	48	0.60	111
	Sun	21.452		2		358		4		644		0.03		5.4		0.77	138
22	Mon	23.216		2		387		3		600		0.20		38.7		0.67	130
23	Tue	22.027		2		367		3		606		0.05		9.2		0.59	108
	Wed	25.085		3		628		4		774		0.71		148.5		0.60	126
25		21.284		2		355		6		1,030		0.00		0.0		0.52	92
26	Fri	18.315		2		305		4		565		0.05		7.6		0.64	98
27		18.186	21.366	2	2.14	303	386	3	3.76	470	670	0.04	0.15	6.1	31	0.82	124
28	Sun	17.633		2		294		2		338		0.06		8.8		0.90	132
29	Mon	20.839		2		348		3		469		0.14		24.3		0.83	144
30	Tue	18.321	40.00-	2	0.11	306	~ 4=	3	0.44	474	170	0.07	0.07	10.7	44	0.75	115
31	Wed	17.957	18.086	3	2.14	449	345	4	3.11	554	473	0.67	0.07	9.0	11	0.67	100
Avg		21.732	07.000	2		416	504	4	4.04	705	0.50	0.16	0.01	30.1		0.69	122
Max		33,853	27.093	3		847	524	7	4.21	1,638	859	0.71	0.21	148.5	48	1.1	184
Min		14.103	15.506	2	2,00	235	259	2	3.11	338	473	0.00	0.05	0.0	7	0.5	88
Data	l	31	5	31	5	31	5	31	5	31	5	31	5	31	5	31	31

	MONTHLY RE	MOVAL SUM	MARY		Total Monthly Flow:
Percent Removal	BOD5	S.S.	Ammonia	Phosphorus	(million gallons) 674
Primary Treatment	32.50	54.2			
	NA	NA			Percent Capacity
Secondary Treatment	96.1	92.8			(actual flow/design) 109%
Overall Treatment	97.38	96.7	98,8	75.0	
Phosphorus limit would be	70	% removal.	(compliance	achieved)	

## MONTHLY REPORT OF OPERATION ACTIVATED SLUDGE TYPE WASTEWATER TREATMENT PLANT

| State Form 10829 (R4 / 01-20) | Name of Facility | Permit Number | Month | Year | Elkhart | IN0025674 | July | 2024 |

		111100200	-	- ou	· •	1							
	SLUDG	E TO				DIG	STER	OPERAT	ION				
	DIGEST	ŗER	Anaero	bic Only									
Day Of Month	Primary SludgeGal. x 100	Waste Act. Sludge Gal. x 1000	Hd	Gas Production Cubic Ft. x 1000	Temperature - F	Supernatant Withdrawn hrs. or Gal. x 1000	Supernatant BOD5 mg/l or NH3-N mg/l	Total Solids in Incoming Sludge - %	Total Solids in Digested Sludge - %	Volatile Solids in Incoming Sludge - %	Volatile Solids in Digested Sludge - %	Digested Sludge Withdrawn hrs. or Gal. x 1000	
1	16.28	247.68	7.3		97	14.148		4.31	2.39	77.94	56.54	126.49	
2	17.27	223.20	7.3		99	17.685		4.53	2.37	75.81	55.43	121.75	
3	38.20	217.44	7.3		98			4.93	2.30	75.21	55.76		
4	45.57	218.88	7.3		98			4.11	2.25	73.66	55.37		
5	21.26	214.56	7.3		98	10.611		5.12	2.33	75.11	56.16	75.24	
6	38.76	213.12	7.5		99	10.611		2.30	2.28	76.51	56.55		
7	13.74	211.68	7.4		98			2.73	2.39	81.64	56.55		
8	15.33	211.68	7.4		99	3,537		2.81	2.42	77.07	57.14	61.06	
9	21.72	221.76	7.4		100	7.074		3.80	2.35	78.74	56.47	113.55	
10	39.34	191.52	7.4		99	3.537		4.68	2.32	66.95	55.62		
11	45.54	187.20	7.4		98	10.611		5.29	2.38	72.85	57.40	131.15	
12	37.71	188.64	7.4		99	7.074		4.60	2.34	73.16	56.41	67.15	
13	16.11	188.64	7.4		99			2.51	2.38	71.74	58,06		
14	22.47	190.08	7.4		100	17.685		3.75	2.43	75.46	57.07		
15	37.61	190.08	7.4		69			4.61	2.31	74.65	55,90	105.51	
16	35.40	187.20	7.4		99	10.611		5.31	2.32	69.94	55.41	131.73	
17	31.57	187.20	7.4		99	3.537		4.75	2.35	70.16	57.14	130.64	
18	46.22	188.64	7.4		98			4.94	2.28	68.46	57.23	74.51	
19	57.70	188.64	7.4		99	3.537		4.70	2.34	68.97	56.98		
20	31.93	174.24	7.3		98	0.000		4.61	2.38	69.03	57.89		
21	20.56	169.92	7.3		100	0.000		4.57	2.30	74.60	57.51		
22	14.98	168.48	7.3		100	0.000		3.90	2.38	78.21	56.08		
23	34.69	168.48	7.3		100	3.537		3.76	2.45	72.00	56.54	113.18	
24	44.21	204.48	7.3		100	17.685		5.03	2.40	68.64	57.02	131.36	
25	42.24	133.92	7.3		90	14.148		4.75	2.39	67.57	57.30	130.84	
26	19.82	168.48	7.3		100			4.49	2,35	67.98	55.36		
27	42.18	168.48	7.2		101	3.537		5.05	2.37	67.75	57.89		
28	25.08	168.48	7.3		100	0.000		4.51	2.45	72.45	55.08	1010=	
29	14.89	168.48	7.4		99	3.537		3.67	2.33	77.88	55.87	131.07	
	40.22	168.48	7.4		99	7.074		5.05	2.23	74.21	57.96	130.71	
31	25.86	168.48	7.3		101			4.74	2.28	66.33	55.62	92.73	
Avg.	30.79	190.27			98	7.382		4.32	2.35	72.93	56.56	109.92	
Max.	57.70	247.68	7.5		101	17.685		5.31	2.45	81.64	58.06	131.73	
Min.	13.74	133.92	7.2		69	0.000		2.30	2.23	66.33	55.08	61,06	
	ALC: N												
Data	31	31	31	0	31	23	0	31	31	31	31	17	0

Once completed, this form should be converted to a pdf document, named appropriately & attached to the corresponding netDMR for submittal

#### MONTHLY REPORT OF OPERATION **ACTIVATED SLUDGE TYPE**

#### WASTEWATER TREATMENT PLANT

State Fo	rm 10829 (F Facility	R4 / 01-20) Permit Numb	er	Month		Year										
Elkhart		IN00256	674	Ju	ly	20	24									
		<del> </del>		State Form												
			Effluent													
	Chlo	oride	Total N	litrogen												
					All control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the co											
Day Of Month	Chloride - mg/l	Chloride - Ibs/day	Total Nitrogen- mg/l	Total Nitrogen- lbs/day	Ag - Influent mg/l	Ag - Effluent mg/L	Cd - Influent mg/L	Cd - Effluent mg/L	CN - Influent mg/L	CN - Effluent mg/L	Cr - Influent mg/L	Cr - Effluent mg/L	Cu - Influent mg/L	Cu - Effluent mg/L	Hg - Influent ng/L	Hg - Effluent ng/L
2		<u></u>			0.0005	0.0002	0.0006	0.0002			0.0050	0.0020	0.1020	0.0109		
3					0.0003	0.0002	5.0000	0.0002			0.0000	0.0020	0.1020	0.0109		
4										<u> </u>						
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6																
7																
8			17.60	2,166					0.0020	0.0020						
9					0.0002	0.0002										
10															85.7000	1.0300
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14 15					0.0008											
16					0.0008	0.0002										
17	143	34,978				0.0002										
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Avg.	143	34,978	17.60	2,166	0.0004	0.0002	0.0006	0.0002	0.0020	0.0020	0.0050	0.0020	0.1020	0.0109	85.7000	1,0300
Max.	143	34,978						0.0002							85.7000	
Min.	143	34,978	17.60	2166				0.0002								
		Ray also													)01. 1 7 1 1	
Data	1	1	1	1	5	5	1	1	1	1	1	1	1	1	1	1

#### WASTEWATER TREATMENT PLANT

State F Name o	orm 10829 of Facility	(R4 / 01-20) Permit Numb	) Der	Month		Year										
Elkhari	t	IN00256	674	Jı	ılv	20	24									
		L		State For												
Day Of Month	Ni – Influent mg/L	Ni - Effluent mg/L	Pb - Influent mg/L	Pb - Effluent mg/L	Zn - Influent mg/L	Zn - Effluent mg/L										
	0.0138	0.0048	0.0043	0.0010	0.1790	0.0186										
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29			ļ						-		-					
30																
31	0.0439	0.0048	0.0043	0.0010	0.1700	0.0186					-			-		
AVG.	0,0138	0.0048	0.0043	0.0010	0.1790	0.0186										
Min.		0.0048	0.0043	0.0010	0.1790	0.0186										
IVIIII.	0.0100	0.0040	1 0.0040	10.0010	3,7700	3.0 100						L				L
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Data	1	1	1	1	1	1	0	0	C	0	0	0	0	0	0	



# National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	Elkhart				NMENIAL M					Page	1 of	9		P	erm	iit Number:	INC	0025574	
Facility:	Elkhart P	ublic Worl	ks & Utilitie	s							F	ublic No	tific	ation Requi	rem	nents Met?	Υ		
Monitor	ing Period	l:	July	2024							E	nter "x" i	fno	CSO disch	arg	e occurred	for	the month	() ()
Design	Peak Hour	ly Flow (N	/IGD):	44	Design Av	erage Flow	(MGD):	20		Measured/	Met	ered (M) o	or E	stimated (E	) m	ust be spe	cifie	d	
wwti	⊃ Influent	Data		Pro	ecipitation [	)ata			С	SO Outfall	No.	005			С	SO Outfall	No.	006	
Day of Month	Average Dally Flow (MGD)	Peak Hourly Flow (MGD)	Time Precip. Began (am/pm)	Precip. Duration (Hours)	Total Dally Precip. (inches)	Peak Intensity (Inch/hr)	Measureme nt Interval (hr, 30 m, 15 m)	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharg e (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1	11.93	13.40					15 min										Π		
2	11.98	13.60					15 min												
3	12.16	13,30					15 min												T
4	14.04	32.70	2:06 PM	4.55	0.91	2.64	15 min								ļ				T
5	12.16	13.70	3:11 AM	9,58	0.07	0.24	15 min												
6	11,68	13.00					15 min												Τ
7	11.10	12.80				***************************************	15 min												T
- 8	11.88	13.30					15 min												T
9	14.68	31.60	5:26 PM	6,63	2.19	1.84	15 min							6:43 PM	М	1.17	м	0.6123	М
10	25.72	40.00	12:01 AM	14.00	1.29	0.80	15 min							12:03 AM		2.75	М	1.0857	1
11	19.48	22.60	9:41 PM	0.58	0.27	0.84	15 min				Г						Г		
12	20,34	30,50	1:21 AM	9.42	0.01	0.04	15 min												
13	17.26	19.20					15 min												
14	18.86	31.00	2:36 AM	10.58	0.79	1.24	15 min												
15	20.48	29.00	2:01 AM	20.42	0.54	0.52	15 min												
16	20.53	24.90	12:21 AM	1.83	0.23	0.52	15 min												
17	20.33	22.20					15 min												
18	18.73	23.40					15 min											-	
19	16.83	19.10					15 min												
20	16,04	17.70					15 min												
21	15.63	16.80					15 min												
22	17.19	20.30	6:36 PM	0.97	0.10	0.32	15 min												
23	15.82	17.20	2:51 PM	0.17	0,06	0.24	15 min												
24	18.40	36.10	7:31 AM	0,38	0,38	1.52	15 min							7:43 AM	м	0.25	М	0.0381	М
25	15.21	17.00					15 min												
26	14.32	15.40					15 mln												
27	14.38	16.40					15 min												
28	14.38	15.90					15 min												
29	16.34	27.10	1:36 PM	7.33	0.40	0.88	15 min												
30	14.93	16,80	7:06 AM	0.08	0.01	0.04	15 min										П		
31	14,73	16.60					15 min												
Totals:	497.54			86.52	7.25			0	Da ys	0.00		0		3	Da ys	4.17		1.7361	



#### National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

		INI C	JF ENVIRO	NME	NTAL MAN	IAG	EMENT							Jajaji Jajaji						1.			<del></del>	
City:	Elkhart												Page 2	14.00		Mile	relative fielders (A.	111111	nit Number:	3	002557 <u>4</u>			Vene
Facility:	Elkhart P	ubli	c Works	<u>&amp; L</u>	Itilities				svitalisis sitt	4556		10/140			Public No	tific	ation Requ	iiren	nents Met?	Υ				Mark N
Monitor	ing Period:			July	2024										Er	iter	"x" if no C	csc	discharg	e o	curred f	or th	e month	
Design	Peak Flow	(Ho	urly) (MG	D):	44	11600	Design Fl	ow	(MGD):		20	45500	Measured/	Met	ered (M)	or E	stimated (I	≣) m	ust be spec	cifie	d			
		CS	O Outfall	No.	007			CS	O Outfall	No.	800			cs	O Outfall	No.	009			C	O Outfal	l No.	011	1000
Day of Month	Time Discharge Began	М 65 Е	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)		Event Discharge (MG)	M or I
1																								
2						Ш																		L
3																								
4	3:07 PM	м	0,65	м	0.1158	м							3:15 PM	М	0.67	М	0.0289	м						
5																								
6																								
7		П									,													
8						П																		
9	10:22 PM	м	1.58	м	0.2750	м	11:19 PM	м	0.17	м	0.0066	м	10:30 PM	м	1.42	М	0.0588	м	11:09 PM	Ім	0.50	м	0.0371	м
10	12:02 AM		4.83	М	0.8396	П	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			-			12:01 AM		4.38	м	0.1842	T		1	0.50	м	0.0374	
11	12.02 7 (14)	Ħ	1,00	,,,	0.0000								12.01744	1	1,00	101		<del>                                     </del>	12.20711	T	0,00		0.0071	1
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25	7:57 AM	M	0,33	М	0.0579	М		Н					8:11 AM	M	80,0	М	0,0011	М	7:45 AM	M	0.17	М	0.0012	M
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29	9:12 PM	М	0.33	М	0,0500	М		Щ					9:21 PM	М	0.25	М	0.0049	М		$\vdash$		-		-
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31			100 (marks - 100 mm)		A PROPERTY OF THE			D-	Single-Sherre	100000	100 470 to 100 to 1	157017	- colored to a new con-	D-	Sept. Residence	1000	page of the Arteria	la salar	Street Street			Topiasus Topiasus		l l
Totals:	5	Da ys	7.72		1,3383		1	Da ys	0.17		0,0066		5	Da ys	6,80		0,2779		3	Da ys	1.17		0.0757	



#### National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

INDIANA	DEPARTME	NT C	F ENVIRO	NMI	ENTAL MAI	NAG	EMENT						Indonesia (1869)	Ne in	i i		and a second	Popular Popular						
City:	Elkhart												Page 3	3 of	9	50.54	P	ern	nit Number:	IN	0025574		ns ( Estavol d'Anno	424,254,444
Facility:	Elkhart P	ubli	c Works	& l	<b>Jtilities</b>		F Company				***********			Ρι	ublic Noti	fica	ition Requ	irer	nents Met?	Υ				
Monitor	ing Period:			July	2024						,				Ente	er'	<u>'x" if no C</u>	sc	) discharge	e o	ccurred t	or th	e month:	
Design	Peak Flow	(Hou	ırly) (MG	D):	44	1000	Design Fl	ow	(MGD):		20	10000	Measured/	Mel	tered (M)	or E	Estimated	(E)	must be sp	ecif	ed			
		csc	Outfall	No.	012			cs	O Outfall	No.	013		100	cs	O Outfall	No.	14B			C	SO Outfal	l No.	015	
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)		Event Discharge (MG)	M or E	Discharge	M or E	Event Duration (Hours)	M or E		M or E	Discharge	M or E			Discharge	M or E	Discharge	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
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3						_										L				L				
4	LOSS OF	PO	WER			L										L		L	3:11 PM	м	0.67	м	0.0572	М
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7						L										L				$\perp$				_
8						<u> </u>												ļ.,		_		<u> </u>		ļ
9	11:02 PM	М	0.33	М	0.0194	М	11:17 PM	М	0.50	М	0.0372	М				L			7:11 PM	М	1.58	М	0.2565	М
10 11	12:02 AM	М	0.92	М	0.0431	М	12:27 AM	М	0.67	М	0.0383	М				$\vdash$			12:01 AM	М	3,08	М	0.3842	М
12				T		T		<u> </u>						T										T
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24	7:57 AM	м	0.17	м	0.0015	м						_		L		<u> </u>			7:51 AM	М	0.67	М	0.0458	М
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Totals:	4	Da ys	1.75		0.0717		3	Da ys	1.25		0.0759		0	Da ys	0,00		0.0000		5	Da ys	6.42		0.7566	



#### National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) NT OF ENVIRONMENTAL MANAGEMENT

INDIANA		NT C	OF ENVIRO	NME	ENTAL MAN	VAG	EMENT						I BANGSA STATE	(KER	1		Teaglist seals	jaris).	5.00 Sept. 500 C	7				
City:	Elkhart												Page 4	4 of	9	(Sec.		Pern	nit Number:	IN	0025574 	100 A		Side
Facility	Elkhart P	ubll	c Works	& L	<u>Jtilities</u>		I massilianin	0.4900	Art Missississ	a(0000)		WAS C		F	ublic Not	tifica	ation Requ	ilren	nents Met?	Y				
Monito	ring Period			July	2024										<u>Ent</u>	ter "	'x" if no C	so	discharge	00	curred fo	or th	e month:	
Design	Peak Flow	(Ho	urly) (MG	D):	44	(50.5)	Design Fl	ow	(MGD):		20	paratra (1	Measured/	Met	ered (M)	or E	stimated (	E) n	ust be spe	cifie	ed .			
		CS	O Outfall	No.	016			cs	O Outfall	No.	017			cs	O Outfall	No.	018			С	SO Outfal	l No.	019	1000
Day of Month	Time or Duration or Discharge E (Hours) E (MG)					M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E		M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Duration	M or E	Event Discharge (MG)	e M
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9	11:25 PM	м	0,33	М	0.0052	м	7:14 PM	м	1.17	м	0.2597	м	6:50 PM	м	1.67	м	0,0459	м	10:59 PM	М	1.08	м	0.0486	М
10	12:35 AM	М	0,25	м	1		12:04 AM			М	0.4694	м	12:04 AM	м		М			12:04 AM	T		м	0,0899	
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Totals:	2	Da ys	0.58		0,0087		3	Da ys	4.00		0.7416		8	Da ys	15.50		0.8406		2	Da ys	4.08		0.1385	



#### National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

	DEPARTME	NIC	F ENVIRC	NME	:NIAL MAN	IAG	EMENI													,				
	Elkhart												Page						nit Number		0025574			
	Elkhart P								para na sia	e sauv		934.0		F					nents Met?					
Monitor	ing Period:			July	2024										Ent	er'	x" if no C	cso	discharge	9 00	curred f	or th	e month	
Design	Peak Flow	(Hou	ırly) (MG	D);	44	188	Design Fl	ow	(MGD):		20	Neille	Measured/	Met	ered (M)	or E	stimated (	E) n	ust be spe	clfie	od			
		CS	O Outfall	No.	020			cs	O Outfall	No.	023			CS	O Outfall	No.	024	)		C	SO Outfa	II No.	025	1000
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E			Event Discharge (MG)	M or E	Time Discharge Began	M or E			Event Discharge (MG)	e M or
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4	2:55 PM	м	0,58	М	0.0368	м	2:52 PM	м	0.50	м	0.0140	м	3:15 PM	м	0,58	М	0.0212	М	2:46 PM	м	0.58	м	0.1012	М
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10	12:00 AM			М		П	12:02 AM			М	0.0528		12:00 AM		4.08	М	0.5709	1	12:01 AM	1	1	М	0,3169	
11	10:00 PM			М			9:52 PM			М	0.0016		7=:557			ļ	0,0,00		9:51 PM			м	0.0212	Ì
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#### National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) Slate Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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			Ju	ıly	2024										Ente	ır "	x" if no C	so	discharge	3 00	curred f	or th	e month:	
ui	rly)	) (M	GD)		44		Design F	low	(MGD):		20		Measured/	Met	ered (M) o	r Es	stimated (I	≣) m	iust be spe	cific	ed			
0	0 0	utfa	II N	0.	026			cs	O Outfall	No.	027			cs	O Outfall h	۷o.	028			С	SO Outfal	l No.	029	
	Dur	vent ratio ours	n o	M or E	Event Discharge (MG)	M e oi E	Discharge	M or E	Duration		Discharge	M or E	Discharge	M or E	Duration	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Duration			N or
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#### National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

INDIANA	DEPARTME	:NT C	OF ENVIRO	ONME	NTAL MAR	VAG	EMENT						I HURATAN				460 040 040	4555		-				—
City:	Elkhart												Page 7 of 9 Permit Number: N0025574								Griffia			
Facility	Elkhart P	ubli	c Works	& L	Itilities		Tour a transporter	2.52.044		g=3,500		Starkt.	Public Notification Regulrements Met? Y											
Monito	ing Period	:		July	2024								Enter "x" if no CSO discharge occurred for the month:								il ministrati			
Design	Peak Flow	(Ho	urly) (MG	D):	44	15455	Design Fl	ow	(MGD):		20	tures and	Measured/Metered (M) or Estimated (E)				E) n	) must be specified						
		cs	O Outfall	No.	031			cs	O Outfall	No.	032			cs	O Outfall	No.	033	1888		C	SO Outfall	No.	034	
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	OT M	Event Duration (Hours)		Event Discharge (MG)	M or E
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4							2:54 PM	м	0,08	м	0.0047	м	2:55 PM	м	0,67	М	0,1759	М						
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9	8:11 PM	м	3,83	м	1.0646	м	6:50 PM	м	2.08	М	0.2391	м	8:00 PM	м	1.25	м	0.4314	м						
10	12:01 AM	М	12,25	м	2.0197	м	12:04 AM	м	4.58	М	0.7738	М	12:00 AM	м	1.83	М	0.5696	м						<u> </u>
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Totals:	2	Da ys	16,08		3.0843		5	Da ys	8.07		1.2292		3	Da ys	3.75		1.1769		0	Da ys	0,00		0.0000	



#### National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) ENT OF ENVIRONMENTAL MANAGEMENT

City:	Elkhart												Page 8 of 9 Permit Number: IN0025574											
acility:	Elkhart P	ubli	c Works	& L	Utilities								Public Notification Requirements Met? Y											
Monitor	ing Period:			July	2024								Enter "x" if no CSO discharge occurred for the month								:			
Design	Peak Flow	(Hoı	ırly) (MG	D):	44		Design Fl	ow	(MGD):		20		Measured/	Measured/Metered (M) or Estimated (E) must be specified										
		cs	O Outfall	No.	037			cs	O Outfall	No.	039			cs	O Outfall	No.	040			C	SO Outfal	l No.		
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)		Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)		Event Discharge (MG)	e M
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4	3:07 PM	м	1.17	М	0,2746	М	2:46 PM	м	0,50	М	0.0142	М	2:50 PM	М	1,58	М	0,0775	м						
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10	12:02 AM	М	4.50	М	4.0645	М	12:01 AM	М	1.92	М	0.0546	M	12:00 AM	М	13,92	М	0,7594	М		<u> </u>				╁
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# National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: Elkhart	Page: 9 of 9	Permit Number: IN0025574						
Facility: Elkhart Public Works & Utilities	Public Notification Requirements Met? Y							
Monitoring Period: July 2024	Enter "x" if no CSO discharge occurred for the month:							
Design Peak Hourly Flow (MGD): 44 Design Average Flow (MGD): 20								
Day of Month Comments (further explanation as to why each CSO event occurred)								
1								
2								
3								
4 precipitation 5								
6		-4						
7								
8								
9 precipitation								
10 precipitation								
11 precipitation								
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28   29   precipitation								
30 precipitation								
31								
Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent		Telephone						
Laura E. Kolo, Utilities Services Manager		574-293-2572						
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE I WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER A INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RES SUBMITTED IS. TO THE BEST OF MY KNOWLEDGE AND BELIEF. TRUE. ACCURATE. AND COM	IND EVALUATE THE INFOR PONSIBLE FOR GATHERIN	RMATION SUBMITTED. BASED ON MY NG THE INFORMATION; THE INFORMATION						

SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. TAM AWARE THAT THE SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

Signature of Principal Executive Officer or Authorized Agent

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DECLE Date (mm/dd/yy)

08/26/24

#### **Bio**monitor

Permittee/Location Elkhart WWTP Elkhart, IN		Permit N IN002567			Outfall Number: 035					
Laboratory Name and Conta- Biomonitor Michael Britton	Report D	<u>ue</u> Date:		Report Date: July 2024						
WETT Reporting Frequency or Type: (mark one)	Monthly	Quarterly	Semi- annual	Annual	TRE X	Post TRE	3/3 (per Reporting Frequency)  Consecutive Months			

Test Organism	Test	Endpoint [1]	Units	Result	Compliance Value in TUs	Pass/Fail	Reporting	
Ceriodaphnia	7-day Survival	Nosoo I I	%	100				
dubia	and Reproduction	NOEC Survival	TU₅	1				
	Definitive	NOTO D	%	1.00				
	Static-Renewal	NOEC Reproduction	TU₀	1				
		1005 5	%	100			Laboratory Report	
		IC25 Reproduction	TU₅	1				
			%	>100				
		48 hr. LC50	TUa	<1				
		Toxicity (acute)	TUa	<1	1.0	Pass	Laboratory Report <u>and</u> NetDMR (Parameter Code 61425)	
		Toxicity (chronic)	TUε	1	8.0	Pass	Laboratory Report <u>and</u> NetDMR (Parameter Code 61426)	
Pimephales	7-day Larval		%	100	News transfer	The stage sec.		
promelas	Survival and	NOEC Survival						
	Growth		TU₀	1				
	Definitive Static-Renewal	NOEC Growth	% TH	100				
	Static-Kenewai		TU₅	1			Laborator <b>y</b> Report	
		IC25 Growth	%	100				
			TU _c	1				
		96 hr. LC50	1 %	>100				
			TUa	<1				
		Toxicity (acute)	TUa	1	1.0	Pass	Laboratory Report <u>and</u> NetDMR (Parameter Code 61427)	
		Toxicity (chronic)	TUc	1	8.0 Pass		Laboratory Report <u>and</u> NetDMR (Parameter Code 61428)	

Biomonitor 8802 West Washington Street Indianapolis, IN 46231 (317) 297-7713

Whole Effluent Toxicity Test

## ELKHART WASTEWATER TREATMENT PLANT

IN0025674

Elkhart, Indiana

July 2024

#### GLP (Good Laboratory Practices) COMPLIANCE STATEMENT

Project Name: Elkhart Wastewater Treatment Plant

Project Date: <u>July 2024</u>

This project has been conducted under GLP standards, as stated in 40 CFR Part 160, with the following exceptions:

Quality Assurance Officer

Greg R. Bright

Date: 7/22/24

Michael Britten

Project Director Date: 7/22/24

Other Participating Personnel:

Mukang'andu Ng'andwe Arizona Fox Melody Myers-Kinzie

Copies of the raw data and final report are maintained in the archives of Biomonitor for five years from the date of completion.

Section 1
Executive Summary

Biomonitor conducted whole effluent toxicity testing for the Elkhart, IN Wastewater Treatment Plant during July 2024. The purpose of the testing was to fulfill the biomonitoring requirement for the NPDES permit.

Three samples were collected July 7-11, 2024. The water flea, *Ceriodaphnia dubia*, and Fathead minnow, *Pimephales promelas*, were used as the test organisms.

A total of six toxicity endpoints were measured. The following results were obtained:

#### Ceriodaphnia dubia test

48-hr LC ₅₀	>	100% effluent	TU _a <	1.0
NOEL for survival	=	100% effluent	TU _c =	1.0
NOEL for reproduction	=	100% effluent	TU _c =	1.0

#### Pimephales promelas test

48-hr LC ₅₀	>	100% effluent	TUa	<	1.0
NOEL for survival	=	100% effluent	TUc	=	1.0
NOEL for growth	=	100% effluent	TUc	=	1.0

The acute toxicity limits in the NPDES permit require the 48 and/or 96-hr  $LC_{50}$  to be greater than 100% effluent (a  $TU_a$  not to exceed 1.0). The effluent samples passed the acute toxicity limits during this testing period for *Ceriodaphnia dubia* but not *Pimephales promelas*.

The chronic toxicity limits in the NPDES permit require a NOEL (No Observable Effect Level) of 12.5% effluent (a  $TU_c$  not to exceed 8.0). According to the NPDES permit, there was not a "Demonstration of Toxicity" during this sampling period.

#### Section 2 Introductory Information

#### <u>Table I</u> General

Permit number:

IN0025674

**Toxicity testing requirements:** 

Fathead minnow larval survival and growth test

Ceriodaphnia survival and reproduction test

Plant location:

Elkhart Wastewater Treatment Plant

1201 Nappanee St. Elkhart, Indiana 46516

Name of receiving water body:

St. Joseph River

Name of WET testing laboratory:

Biomonitor

8802 West Washington St. Indianapolis, IN 46231

(317) 297-7713

#### <u>Table II</u> **Plant Operations**

Type of discharger:

Publicly owned treatment works

Wastewater consists of treated sanitary and industrial wastes

Type of waste treatment:

Class IV. Activated sludge

Design flow:

20 - MGD

Volume of wastewater flow during the sampling period:

July 7, 2024 -MGD

July 9, 2024 -MGD

July 11, 2024

-MGD

#### <u>Table III</u> Source of effluent and dilution water

#### I. Effluent samples

Sampling point:

Outfall 035

Collection dates and times:

July 7, 2024

11:00 p.m.

July 9, 2024

11:00 p.m.

July 11, 2024

11:00 p.m.

Sample collection:

24-hour composite samples

Physical and chemical data:

See Tables 9 and 15

#### II. Dilution water samples

Source:

Moderately Hard Synthetic Water (MHSW)

Collection date and time:

N/A

**Pretreatment:** 

None

Physical and chemical data:

See Tables 9 and 15

BUKSIART WASHIWATER HREARMIND PLANT

Section 3
Test Methods and Results

#### **CERIODAPHNIA SURVIVAL AND REPRODUCTION TEST**

#### Table IV **METHODOLOGY** Ceriodaphnia Survival and Reproduction Test

Toxicity test method used:

Ceriodaphnia survival and reproduction test

**Endpoints of test:** 

Survival and reproduction

(LC₅₀, NOEL, and LOEL)

Reference method:

EPA-821-R-02-013

**Deviations from method:** 

Test was completed in six days because control animals produced an average of greater than 15

young per female by day six.

Date and time test initiated:

July 9, 2024

10:45 a.m.

Date and time test terminated

July 15, 2024

10:55 a.m.

Type of test chambers:

Polyethylene

30 ml

Volume of solution used per chamber:

15 ml

Number of organisms per chamber:

1

Number of replicate chambers per

10

Test temperature range:

treatment:

25°C (no deviations)

## Table V ORGANISMS USED Ceriodaphnia Survival and Reproduction Test

Scientific name:

Ceriodaphnia dubia

Age:

<24 hours

Life stage:

neonates

Mean length and weight:

Not applicable

**Source** 

Laboratory culture in moderately hard reconstituted

water

**Diseases and treatment** 

Not applicable

Holly 2002/4

# Table VI RESULTS Ceriodaphnia Survival and Reproduction Test

Raw Data:

See Table 8

LC₅₀ or NOEL obtained:

48-hr  $LC_{50}$  = greater than 100% effluent

NOEL for survival = 100% effluent

NOEL for reproduction = 100% effluent

Control survival was 100% after six days. Control reproduction averaged greater than 15 per surviving

female.

Methods used to calculate endpoints:

Fisher's Exact Test for the survival endpoint.

Dunnett's Test for the reproduction endpoint.

No calculations necessary for the acute endpoint.

### Table VII QUALITY ASSURANCE Ceriodaphnia Survival and Reproduction Test

**Reference Toxicant used and source:** 

Copper chloride, reagent grade, from Carolina

Biological

Date and time of most recent test:

July 16-23, 2024

**Dilution water used in test:** 

Moderately hard synthetic water

**Results:** 

48-hr  $LC_{50} = 99 \mu g/L$  as Cu

NOEL (reproduction) =  $20 \mu g/L$  as Cu

LOEL (reproduction) =  $40 \mu g/L$  as Cu

**Comparison to recommended range:** 

Within the laboratory control range for both acute

and chronic endpoints (see attachment)

# Table VIII TEST DATA Ceriodaphnia Survival and Reproduction Test

Effluent	Day		Γ	Numl	oer o	f You	ng Re	eproc	duced	j		Young	Total Live	
Concentration	No.					Repl	icate					Per	Breeders	
Concentration	IVO.	Α	В	С	D	Е	F	G	Н	ı	J	Female	Dicedera	
		,												
	1	0	0	0	0	0	0	0	0	0	0		10	
	2	0	0	0	0	0	0	0	0	0	0	] .	10	
	3	4	2	2	0	4	4	2	2	3	0		10	
Control	4	7	4	4	0	5	6	0	4	4	6	18.3	10	
	5	0	0	8	8	0	0	10	0	9	6		10	
	6	0	9	9	11	13	12	13	12	0	0		10	
	1	0	0	0	0	0	0	0	0	0	0		10	
	2	0	0	0	0	0	0	0	0	0	0		10	
	3	4	2	0	0	2	4	0	4	4	0		10	
6.25%	4	8	2	5	0	5	7	0	5	2	2	19.0	10	
	5	0	0	9	5	0	0	7	0	7	4		10	
	6	12	13	14	9	11	14	13	16	0	0		10	
	1	0	0	0	0	0	0	0	0	0	0		10	
	2	0	0	0	0	0	0	0	0	0	0		10	
	3	2	2	0	0	0	3	3	0	3	0		10	
12.5%	4	9	0	0	0	5	7	0	5	3	0	17.6	10	
	5	0	0	4	8	0	10	11	0	0	8		10	
	6	16	12	14	12	11	0	14	10	4	0		10	

# Table VIII (cont.) TEST DATA Ceriodaphnia Survival and Reproduction Test

Effluent	Day		Γ	Numl	oer o	f You	ng Re	eproc	ducec	ł		Young	Total Live
Concentration	No.					Repl	icate					Per	Breeders
Concentration	NO.	Α	В	С	D	E	F	G	Н	I	J	Female	Diccacis
	1	0	0	0	0	0	0	0	0	0	0		10
	2	0	0	0	0	0	0	0	0	0	0		10
	3	4	0	0	0	2	2	0	0	0	0		10
25%	4	7	6	4	0	7	3	0	6	0	0	17.1	10
	5	0	0	9	6	0	8	10	0	0	8		10
	6	16	11	15	10	15	0	11	11	0.	0		10
	1	0	0	0	0	0	0	0	0	0	0		10
	2	0	0	0	0	0	0	0	0	0	0		10
	3	0	0	0	0	0	4	0	4	0	1		10
50%	4	7	1	0	0	4	8	0	6	2	6	16.7	10
	5	0	0	7	9	0	10	9	0	5	9		10
	6	13	2	14	0	13	0	15	18	0	0		10
	1	0	0	0	0	0	0	0	0	0	0		10
	2	0	0	0	0	0	0	0	0	0	0		10
	3	1	2	0	0	6	3	0	0	0	0		10
100%	4	8	0	0	9	0	5	0	8	0	9	14.9	10
	5	0	0	8	0	0	0	0	0	0	11		10
	6	18	5	18	14	8	0	0	16	0	0		10

## Table IX WATER CHEMISTRY Ceriodaphnia Survival and Reproduction Test

Effluent Concentration	D.O. <u>Range</u> mg/L	Temp. Range °C	pH <u>Range</u> S.U.	Alk. Range CaCO ₃	Hardness Range CaCO ₃	Cond. <u>Range</u> μS
CONTROL	7.3 – 9.1	25	7.8 – 8.4	40-	100-110	300-360
6.25%	7.3 – 9.1	25	7.8 – 8.3			310-360
25%	7.3 – 9.3	25	7.7 – 8.1			410-420
100%	7.4 – 9.7	25	7.5 – 8.4	90-100	225-275	660-730

FATHEAD MINNOW LARVAL SURVIVAL AND GROWTH TEST

### Table X METHODOLOGY Fathead Minnow Larval Survival and Growth Test

**Toxicity test method used:** 

7-day fathead minnow larval survival and growth

test

**Endpoints of test:** 

96-hr LC₅₀ and no observable effect level (NOEL) for

survival and growth.  $TU_{\text{\tiny C}}$  for survival and growth.

Reference method:

EPA-821-R-02-013

**Deviations from method:** 

No Deviations

Date and time test initiated:

July 9, 2024

10:30 a.m.

Date and time test terminated

July 16, 2024

10:30 a.m.

Type of test chambers:

Polyethylene

300 ml

Volume of solution used per chamber:

250 ml

Number of organisms per chamber:

ten

Number of replicate chambers per

four

treatment:

Test temperature range:

25°C (no deviations)

## Table XI ORGANISMS USED Fathead Minnow Survival and Growth Test

Scientific name:

Pimephales promelas

Age:

<24 hours

Life stage:

larvae

Mean length and weight:

Not applicable

<u>Source</u>

Biomonitor Lab Cultures

**Diseases and treatment** 

Not applicable

## Table XII RESULTS Fathead Minnow Larval Survival and Growth Test

Raw Data:

See Table 14

LC₅₀ or NOEL obtained:

96-hr  $LC_{50} = >100\%$  effluent

NOEL for survival = 100% effluent

NOEL for growth = 100% effluent

Control survival and growth fell within the acceptable

range

Methods used to calculate endpoints:

Steel's Many-One Rank Test was required for the survival

endpoint because the homogeneity of variance

assumptions could not be met.

Dunnett's Test for the growth endpoint.

No calculations necessary for the acute endpoint.

### Table XIII QUALITY ASSURANCE Fathead Minnow Larval Survival and Growth Test

Reference Toxicant used and source:

Potassium chloride, reagent grade,

from Sigma-Aldrich

**Date and time of most recent test:** 

July 16-23, 2024

**Dilution water used in test:** 

Moderately Hard Synthetic Water

**Results:** 

96-hr  $LC_{50} = 1091 \text{ mg/L}$  as KCl

NOEL (growth) = 1000 mg/L as KCl

LOEL (growth) = 2000 mg/L as KCl

Comparison to recommended range:

Within the laboratory control range for both acute

and chronic endpoints (see attachment)

## Table XIV TEST DATA Fathead Minnow Larval Survival and Growth Test

Effluent Concentration	<u>% Sı</u>	ırvival in I	Each Repli	<u>icate</u>	Average Dry Weight (µg) in Each Replicate							
Concentiation	Α	В	С	D	Α	В	С	D				
Control	100	100	100	100	440	390	430	350				
6.25%	100	100	100	100	400	430	550	430				
12.5%	100	100	100	90	350	460	370	390				
25%	90	100	100	90	380	380	400	330				
50%	90	100	90	100	330	420	410	390				
100%	90	90	100	90	330	380	450	370				

## Table XV WATER CHEMISTRY Fathead Minnow Larval Survival and Growth Test

Effluent Concentration	D.O. <u>Range</u> mg/L	Temp. Range °C	pH <u>Range</u> S.U.	Alk. Range CaCO ₃	Hardness Range CaCO ₃	Cond. <u>Range</u> μS
CONTROL	5.8 – 9.3	25	7.5 – 8.1	40-	100-110	310-320
6.25%	5.7 – 9.3	25	7.5 – 8.0			320-340
25%	5.9 – 9.6	25	7.6 – 7.8			400-420
100%	5.6 – 10.1	25	7.5 – 8.1	90-100	225-275	650-740

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### SAMPLE SUMMARY AND CHAIN OF CUSTODY

CLIENT NAME:	Elkhart WWTP			
PURPOSE OF SAMPLE:	Whole Effluent Toxicit	у		
SAMPLE IDENTIFICATION	N: Elkhart - 1	Mon.	July 2024	
DESCRIPTION: Outfall	_			
DATE SAMPLE COLLECTI	ED: Start Date	7-7-24	_ Start Time	Jam
	End Date	-7-24	End Time	11 pm
NAME OF PERSON COLLE	ECTING SAMPLE: $Q$	Derations	AM	
SAMPLE VOLUME:	8 Liters			
NUMBER OF CONTAINER	S: Two, HDPE			
SAMPLE STORAGE:	Refrigerated/ic	ed		
PRESERVATIVES:	none			
Relinquished by:	ylchell			
Date: 7/8/24	<del>2</del>	Time:	2:02	
Received by:				
Date:	(18/24)	Time:	2:02/-	
Relinquished by:				
Date:		Time:		•,
Received by:				
Date:		Time:		
TEMP:°C				

COMMENTS:

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#### SAMPLE SUMMARY AND CHAIN OF CUSTODY

~-			
CLIENT NAME: E	lkhart WWTP		
PURPOSE OF SAMPLE: V	Whole Effluent Toxicity		
SAMPLE IDENTIFICATION:	Elkhart - 2	Wed.	July 2024
DESCRIPTION: Outfall			•
DATE SAMPLE COLLECTER	D: Start Date $\frac{7-9}{2}$	-24	Start Time ) am
	End Date	-24	End Time 11 pm
NAME OF PERSON COLLEC	CTING SAMPLE: Sec	Opera	tons
SAMPLE VOLUME:	8 Liters		
NUMBER OF CONTAINERS	: Two, HDPE		
SAMPLE STORAGE:	Refrigerated/iced		
PRESERVATIVES:	none		
Relinquished by: Barr	z Well		
Date: 7-10-2	4	Time: \\`	50am
Received by:	2,2		
Date:	10/24	Time: 1	:50 =
Relinquished by:			
Date:		Time:	
Received by:			
Date:		Time:	
TEMP CO ° C			

COMMENTS:

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### SAMPLE SUMMARY AND CHAIN OF CUSTODY

CLIENT NAME:	Elkhart WWT	P			
PURPOSE OF SAMPLE:	Whole Effluer	nt Toxicity			
SAMPLE IDENTIFICATION	N: Elkhar	t - 3	Fri.	July 2024	
DESCRIPTION: Outfall		- 1	2201		i
DATE SAMPLE COLLECT				Start Time	
	End D	ate 7-11	-2024	End Time	Ilpm
NAME OF PERSON COLLI	ECTING SAM	PLE: OP	recation	15	
SAMPLE VOLUME:	8 Lite	rs			
NUMBER OF CONTAINER	RS: Two,	HDPE			
SAMPLE STORAGE:	Refrig	erated/iced			
PRESERVATIVES: 1	none	1.1			
Relinquished by:	L 0	Ling			
Date: 7-12-6	2024		Time:	2:06pn	1
Received by:		-			
Date: 7	12/24		Time:	2:061	
Relinquished by:	·				
Date:			Time:		
Received by:					
Date:			Time:		<u>.</u>
TEMP:°C					

COMMENTS:

#### Ceriodaphnia dubia

Reference Toxicant - Copper sulfate/chloride as Cu

Dilution Water - Moderately Hard Reconstituted Water

Date	LC ₅₀	NOEL	LOEL	IC ₂₅
mm/yy	48-hr μg/L	μg/L (repro.)	μg/L (repro.)	μg/L (repro.)
08/21	87	40	80	23
09/21	92	40	80	49
10/21	73	40	80	52
11/21	113	40	160	59
12/21	75	40	80	48
2/22	105	40	80	54
3/22	75	40	80	51
4/22	113	40	80	57
5/22	95	40	80	30
6/22	113	40	80	41
7/22	75	40	80	33
8/22	86	20	40	30
9/22	80	40	80	32
11/22	70	40	80	40
12/22	77	40	80	48
1/23	75	40	80	48
2/23	86	40	80	52
4/23	80	40	80	37
5/23	80	40	80	39
06/23	113	40	160	59
07/23	75	40	80	55
09/23	80	40	80	15
10/23	113	40	80	58
11/23	86	40	80	50
01/24	99	20	40	30
02/24	86	40	80	48
03/24	80	40	80	48
04/24	80	40	80	51
06/24	87	20	40	32
07/24	99	20	40	20
Average	88	Mode 40	80	43
St. Dev.	14			12
Upper Limit	116	80	160	67
Lower Limit	61	20	40	19

#### Pimephales promelas

Reference Toxicant - Potassium chloride

Dilution Water - Moderately Hard Reconstituted Water

Date	LC ₅₀	NOEL	LOEL	1C ₂₅
mm/yy	96-hr mg/L	mg/L (grwth)	mg/L (grwth)	mg/L (grwth)
11/21	1129	1000	2000	939
12/21	1129	500	1000	810
02/22	812	500	1000	612
03/22	946	500	1000	707
04/22	917	500	1000	703
05/22	1110	1000	2000	1223
06/22	856	500	1000	710
07/22	1130	500	1000	736
08/22	1093	500	1000	925
09/22	1278	1000	2000	950
11/22	1035	500	1000	684
12/22	1053	1000	2000	805
01/23	795	500	1000	664
02/23	1091	500	1000	741
04/23	1231	1000	2000	1121
05/23	1189	1000	2000	1110
06/23	951	500	1000	669
07/23	1091	500	1000	1091
09/23	7000	500	1000	702
10/23	1124	500	1000	768
11/23	1253	500	1000	849
01/24	1128	500	1000	699
02/24	952	1000	2000	798
03/24	1189	500	1000	908
04/24	1189	1000	2000	1037
06/24	1169	500	1000	899
07/24	1091	1000	2000	989
<u>Average</u>	1072	Mode 500	1000	846
it. Dev.	127			163
Jpper Limit	1326	1000	2000	1172
ower Limit	817	250	500	520

Client:	Elkhart WWTP							
Project #								
Analysts:	M	MB, MN, AF						
	Start Date:	7/9/2024						
ates	Start Time:	1045						
Test Dates	End Date:	7/15/2024						
	End Time:	1055						
Template #	Е	3						
Comments:								

0 = Number of Live Young / = Test Organism Dead y = Male M = Lost or Missing

1800		1	0	0	0	0	0	0
		2	0	0		0	0	
		3	0	. 0	0	0	1	0000
Row 10		4	1	6	8	9		<u> </u>
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		7	<del></del>		Ŭ			
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対域	第87-	3	3	0	0	4	0	3
Ø.		4	u	<u> </u>		2	0	2
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		<u> </u>	<b> </b>			<u> </u>		
			±	·	·		·	i
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250		2	0	0	0	0	0	0
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-51-07-07	7045	/						LI
3 //6	14 E.C.							
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Row 7	Day	1 2 3 4 5	0 0 0 7	0 3 0	0 2	0	0	0
Row 7	Day	1 2 3 4 5	0	0 3 0	0 2	0	0 0 0	0
Row 7	Day	1 2 3 4 5	0 0 0 7	0 3 0	0	0	0	0
Row 7	Day	1 2 3 4 5 6 7	0 0 0 7	0 3 0	0 2	0	0	0
Row 7	Day	1 2 3 4 5 6 7	0 0 7 13	0 3 0 i1 14	0 2 0 10 13	0 0 0 9 15	0 0	0 0 0 0
Row 7	Day	1 2 3 4 5 6 7	0 0 7 13 0 0	0 3 0 i1 14	0 2 0 18 13	0 0 0 0 0	0 0	0
	Day.	1 2 3 4 5 6 7	0 0 7 13 0 0	0 3 0 i1 14	0 2 0 18 13	0 0 0 9 15	0 0	0 0 0
9		1 2 3 4 5 6 7	0 0 7 13 0 0	0 3 0 11 14	0 2 0 13 0 0 0 3	0 0 0 15	0 0	0 0 0
9	Day Day	1 2 3 4 5 6 7	0 0 7 13 0 0	0 3 0 11 14 0 0 7 3	0 2 0 13 0 0 0 3	0 0 0 15	0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0
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9		1 2 3 4 5 6 7	0 0 7 13 0 0	0 3 0 11 14 0 0 7 3	0 2 0 13 0 0 0 3	0 0 0 15	0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0
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Row 6		1 2 3 4 5 6 7 1 2 3 4 5 6 7	0 0 7 13 0 0 0 4 8 9 0	0 3 0 11 14 0 0 0 7 3 8	0 2 0 18 13 0 0 0 3 5 0 0	0 0 0 9 15 0 0 0 3 7 10 0	0 0 0 1 b 11 0 0 4 7 0 14	0 0 0 0 0 0 0 17 0 0
Row 6	Aca	1 2 3 4 5 6 7 1 2 3 4 5 6 7	0 0 7 13 0 0 0 4 8 9 0	0 3 0 11 14 0 0 0 7 3 8	0 2 0 10 13 0 0 0 3 5 0 0	0 0 0 9 15 0 0 3 7 10 0	0 0 0 1 b 11 0 0 0 14	0 0 0 0 0 0 0 17 0 0
Row 6		1 2 3 4 5 6 7 1 2 3 4 5 6 7	0 0 7 13 0 0 0 4 8 9 0	0 3 0 11 14 0 0 0 7 3 8	0 2 0 10 13 0 0 0 3 5 0 0	0 0 0 9 15 0 0 3 7 10 0	0 0 0 1 b 11 0 0 0 14	0 0 0 0 0 0 0 17 0 0
9	Aca	1 2 3 4 5 6 7 1 2 3 4 5 6 7	0 0 7 13 0 0 0 4 8 0 0	0 3 0 11 14 0 0 7 3	0 2 0 10 13 0 0 0 3 5 0 0	0 0 0 9 15 0 0 0 3 7 10 0	0 0 0 1 b 11 0 0 4 7 0 14	0 0 0 0 0 0 0 17 0
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<b>表现</b> \$75	1	0	0	0	0	0	0
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	7						
謝別 類別	1	0	0	0	0	0	0
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	3	0	0	0		Ò	2
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· · · · · · · · · · · · · · · · · · ·	6	14	14	14	18	15	9
1000 高量	7						
中国   東京							
14.4	1	0	0	0	0	0	0
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	2 3 4 5 6 7 1 2 3	0 0	0 2 0 0 17 0 0	0 1 0 2	0 2 2 2 0 13	0 2 4 0 9 0 0 0 2	0 2 0 5
	2 3 4 5 6 7 1 2 3 4	0 0 0 4 7	0 2 0 0 17 0 0	0 2 2 0 0	0 2 2 2 0 13	0 2 4 0 9	0 1 0 0 0 7
	2 3 4 5 6 7 1 2 3 4 5	0 0 0 4 7	0 2 0 0 17 0 0	0 7	0 2 2 2 0 13	0 2 4 0 9	0 1 0 0 0 7
	2 3 4 5 6 7 1 2 3 4 5	0 0 0 4 7	0 2 0 0 17 0 0	0 2 2 0 0	0 2 2 2 0 13	0 2 4 0 9 0 0 0 2	0 1 0 0 0
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10f2			
		1045	1055
	MMB, MN, AF		
	MMB,	7/9/24	7/15/24
	Analyst:	Test Start- Date/Time:	Test Stop- Date/Time:
	Elkhart WWTP	Elkhart, IN	7/7,9,11/24
7	Discharger:	Location:	Date Sample Collected:

Young per		0.0	0.0	2.0	3.6	3.2	10.2	19.0
No. of	Adults	10	10	10	10	10	10	10
No. of	Young	0	0	20	36	32	102	190
	10	0	0	0	2	4	0	9
	9	0	0	4	2	7	0	13
	<b>8</b>	0	0	4	5	0	16	25
	7	0	0	0	0	7	13	20
Replicate	9	0	0	4	7	0	14	25
Repl	Ŋ	0	0	2	5	0	11	18
	4	0	0	0	0	5	6	14
	m	0	0	0	5	6	14	28
	7	0	0	2	2	0	13	17
	-	0	0	4	8	0	12	24
	Day	1	2	ĸ	4	ις	9	Total
	Conc.				ì	%9		

Young per	Adult	0.0	0.0	1.3	2.9	4.1	6.3		17.6
No. of	Adults	10	10	10	10	10	10		10
No. of	Young	0	0	13	29	41	93		176
	10	0	0	0	0	8	0		8
	6	0	0	3	3	0	4		10
	8	0	0	0	5	0	10		15
i i	7	0	0	3	0	11	14		28
icate	9	0	0	3	7	10	0		20
Repl	ъ	0	0	0	5	0	11		16
	4	0	0	0	0	8	12		70
	m	0	0	0	0	4	14		18
	2	0	0	2	0	0	12		14
	<del>-</del>	0	0	2	6	0	16		27
	Day	1	2	£	4	5	9	4.	Total
	Conc.					% <b>7</b> ;			

Young per	Adult	0.0	0.0	8.0	3.3	4.1	8.9	17.1		Young per	Adult	0.0	0.0	6.0	3.4	4.9	7.5	16.7	Young per	Adult	0.0	0.0	1.2	3.9	1.9	7.9	14.9
No. of	Adults	10	10	10	10	10	10	10		No. of	Adults	10	10	10	10	10	10	10	No. of	Adults	10	10	10	10	10	10	10
No. of	Young	0	0	8	33	41	89	171		No. of	Young	0	0	6	34	49	75	167	No. of	Young	0	0	12	39	19	79	149
(ma), 5,	10	0	0	0	0	8	0	8	-		10	0	0	П	9	6	0	16		27	0	0	0	6	11	0	20
	6	0	0	0	0	0	0	0			6	0	0	0	2	5	0	7		6	0	0	0	0	0	0	0
	8	0	0	0	9	0	11	17		·	8	0	0	4	9	0	18	28		∞	0	0	0	8	0	16	24
	7	0	0	0	0	10	11	21			7	0	0	0	0	6	15	24		7	0	0	0	0	0	0	0
Replicate	9	0	0	2	3	8	0	13		Keplicate	9	0	0	4	8	10	0	22	icate	9	0	0	3	5	0	0	8
Repl	5	0	0	2	7	0	15	24		Kepi	5	0	0	0	4	0	13	17	Replicate	5	0	0	9	0	0	8	14
	4	0	0	0	0	9	10	16			4	0	0	0	0	6	0	6		4	0	0	0	9	0	14	23
	9	0	0	0	4	6	15	28			m	0	0	0	0	7	14	21		3	0	0	0	0	8	18	26
	2	0	0	0	9	0	11	17			2	0	0	0	1	0	2	3		2	0	0	2	0	0	5	7
. ,	н	0	0	4	7	0	16	27			-	0	0	0	7	0	13	20		Ţ	0	0	1	8	0	18	27
	Day	1	2	က	4	2	9	Total			Day	Ţ	2	3	4	5	9	Total		Day	H	2	3	4	5	9	Total
	Conc.		*	i t	25%	2					Conc.			***	20%	8				Conc.		:		100%	200		

File: ceriorep Transform: NO TRANSFORMATION

Chi-square test for normality: actual and expected frequencies

INTERVAL	<-1.5	-1.5 to <-0.5	-0.5 to 0.5	>0.5 to 1.5	>1.5
EXPECTED OBSERVED	4.020 4	14.520 14	22.920 21	14.520 20	4.020 1

Calculated Chi-Square goodness of fit test statistic = 4.5165
Table Chi-Square value (alpha = 0.01) = 13.277

Data PASS normality test. Continue analysis.

Elkhart 7.24

File: ceriorep Transform: NO TRANSFORMATION

Hartley test for homogeneity of variance

Calculated H statistic (max Var/min Var) = 4.89 Closest, conservative, Table H statistic = 12.1 (alpha = 0.01)

Used for Table H  $\Longrightarrow$  R (# groups) = 6, df (# reps-1) = 9 Actual values  $\Longrightarrow$  R (# groups) = 6, df (# avg reps-1) = 9.00

_______

Data PASS homogeneity test. Continue analysis.

NOTE: This test requires equal replicate sizes. If they are unequal but do not differ greatly, the Hartley test may still be used as an approximate test (average df are used).

SUMMARY OF FISHERS EXACT TESTS

GROUP	IDENTIFICATION	NUMBER EXPOSED	NUMBER DEAD	SIG (P=.05)
	CONTROL	10	0	
1	68	10	0	
2	12 ર	10	0	
3	<b>2</b> 5%	10	0	
4	50%	10	0	
5	100%	10	0	

File: ceriorep Transform: NO TRANSFORMATION

#### SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 1 of 2

GRP	IDENTIFICATION	N	MIN	MAX	MEAN
1	control	10	11.000	25.000	18.300
2	6.25%	10	6.000	28.000	19,000
3	12.5%	10	8.000	28.000	17.600
4	25%	10	0.000	28.000	17,100
5	50%	10	3.000	28,000	16.700
6	100%	10	0.000	27.000	14.900

Elkhart 7.24

File: ceriorep Transform: NO TRANSFORMATION

#### SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 2 of 2

GRP	IDENTIFICATION	VARIANCE	SD	SEM
		00 670	4 760	1 506
1	control	22.678	4.762	1.506
2	6.25%	46.000	6.782	2.145
3	12.5%	42.267	6.501	2.056
4	25%	74.767	8.647	2.734
5	50%	64.456	8.028	2.539
6	100%	110.989	10.535	3.331

Elkhart 7.24

File: ceriorep Transform: NO TRANSFORMATION

### ANOVA TABLE

SOURCE	DF	SS	MS	<u> </u>
Between	5	101.333	20.267	0.337
Within (Error)	54	3250.400	60.193	
Total	59	3351.733		

Critical F value = 2.45 (0.05, 5, 40)

Since F < Critical F FAIL TO REJECT Ho: All groups equal

File: ceriorep Transform: NO TRANSFORMATION

1     control     18.300     18.300       2     6.25%     19.000     19.000     -0.202       3     12.5%     17.600     17.600     0.202       4     25%     17.100     17.100     0.346       5     50%     16.700     16.700     0.461		DUNNETTS TEST - TA	BLE 1 OF 2	Ho; Control <treatment< th=""></treatment<>					
2 6.25% 19.000 19.000 -0.202 3 12.5% 17.600 17.600 0.202 4 25% 17.100 17.100 0.346 5 50% 16.700 16.700 0.461	GROUP	IDENTIFICATION			T STAT	SIG			
6 100% 14.900 14.900 0.980	1 2 3 4 5	6.25% 12.5% 25%	19.000 17.600 17.100	19.000 17.600 17.100	0.202				

Dunnett table value = 2.31 (1 Tailed Value, P=0.05, df=40,5)

Elkhart 7.24

File: ceriorep Transform: NO TRANSFORMATION

	DUNNETTS TEST -	TABLE 2 OF	2 Ho:	Control <t< th=""><th>reatment</th></t<>	reatment
GROUP	IDENTIFICATION	NUM OF REPS	Minimum Sig Diff (IN ORIG. UNITS)	% of CONTROL	DIFFERENCE FROM CONTROL
1	control	13			
2	6.25%	10	8.015	43.8	-0.700
3	12.5%	10	8.015	43.8	0.700
4	25%	10	8.015	43.8	1.200
5	50%	10	8.015	43.8	1.600
6	100%	20	8,015	43.8	3.400

Discharger:	Elkhart WWTP	Test Dates:	7/9/24 -7/15/24	
Location:	Elkhart, IN	Analysts:	MMB, MN, AF	_

	yer yang dan s			Day	The Section	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
Conc : Control	1	2	3	4	5	6	7	Remarks
Temp.	25	25	25	25	25	25	25	
D.O. Initial	9.1	8.0	8.0	8.0	8,1	2.5		Template B
Final	8.0	7.6	7.3	7.7	7.9	79		
pH Initial	8.4	7.8	7.8	7.9	79	7.9		
Final	8.0	8.0	8.0	7.9	7.8	7.9		
Alkalinity	40		40	2006 727250	40			
Hardness	100	1 2 2 2	110		110		TENERS	
Conductivity	360		300	中国	330		心理理的	
Chlorine		7.5		- 3.75%		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

			A 45 M	Day	Salvania de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión	10.59446	14,2,315	
Conc: 6.25%	1	2	3	4	5	6	7	Remarks
Temp.	25	25	25	25	25	25	25	
D.O. Initial	9.1	8.8	8.0	820	8.0	8,2		
Final	7.9	7.6	7.3	7.8	7.9	7.9		
рн Initial	4.3	7.8	7.8	7.9	7.8	7.8		
Final	7.9	0.8	8.0	8.0	820	7.9		
Alkalinity		2.1.		38.00		17 (A)		
Hardness				2 Sept. 1		11 11	1 11/2 11/2	
Conductivity	360		310	migration production in the parties of the contract collection of the contract	348	2.1.2	W. W.	
Chlorine				1.04		7.1		

	ſ			Day	Apple No			
Conc: 12.5%	1	2	3	4	5	6	7	Remarks
Temp.	25	25	25	25	25	25	25	
D.O. Initial	9.2	8.0	8.0	8.0	8.0	8,2		
Final	7.8	7.6	7.3	7.8	7.9	8.0		
pH Initial	8.2	7.8	7.8	7.9	7.8	7.7		
Final	7.9	8.0	8.0	820	8.0	7.9		
Alkalinity								
Hardness								
Conductivity	370	1 2	350		360	7 15 Y		
Chlorine							` '	

Discharger:	Elkhart WWTP	Test Dates:	7/9/24 -7/15/24
Location:	Elkhart, IN	Analysts:	MMB, MN, AF

<b>.</b>	1,2000			Day			<b>"国际</b> "。在北上	
Conc: 25%	1	2	3	4	5	6	7	Remarks
Temp.	25	25	25	25	25	25	25	
	9-3	8.0	8.1	811	8 18	84		
D.O. Initial Final	7.7	7.5	7.3	7.8	810	8.0		
pH Initial	8.1	7.8	7.8	0.8	7.7	7.7		
Final /	8.0	8.1	8.1	8.1	811	8.0		
Alkalinity		g wilding		E. S. S. S. S. S. S. S. S. S. S. S. S. S.		10 Sept 1		
Hardness						31   21   23   		
Conductivity	420	12.00	420		410	i Santig	Verial .	
Chlorine							146, 1141 145	

	\$ 740°		ayılığı ve hiliyeti k	Day		or Mills Marking Q		
Conc: 50%	1	2	3	4	5	6	7	Remarks
Temp.	25	25	25	25	25	25	25	
D.O. Initial	9.4	8.2	8.1	8,1	800	8.0		
Final	77	7.5	7.3	7.9	83	8.0		
рн Initial	4.0	7.8	7.8	0.8	7.6	7.6		
Final	8.1	8.2	87	8.2	815	8.1		
Alkalinity		1	<b>,</b>					
Hardness		100		-540 × X				
Conductivity	490		520	等级 为中	490		10	
Chlorine						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

Î				Day			5 0455	
Conc: 100%	1	2	3	4	5	6	7	Remarks
Temp.	25	25	25	25	25	25	25	
D.O. Initial	9.7	8.8	85	8,5	8,3	8,4		
Final	7.6	7.5	7.4	8-1	802	8.0		
рн <u>Initial</u>	7,9	7.9	7.8	0.8	7.6	7.5		
Final	8.3	8.4	8.3	8,2	8,2	8.2		
Alkalinity	100		90		90			
Hardness	225		275	100	275			
Conductivity	680	7	730	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	660	10 mg 10 mg 10 mg 10 mg 10 mg 10 mg 10 mg 10 mg 10 mg 10 mg 10 mg 10 mg 10 mg 10 mg 10 mg 10 mg 10 mg 10 mg 10 Mg 10 mg 10 mg 10 mg 10 mg 10 mg 10 mg 10 mg 10 mg 10 mg 10 mg 10 mg 10 mg 10 mg 10 mg 10 mg 10 mg 10 mg 10 mg		
Chlorine	N.A.		110		0.2	1. 4. 1. 1.4.		
Ammonia	N.D.		NO	1988	1.0			

Discharger: Elkhart WWTP Test Dates 7/9/24-7/16/24

Location: Elkhart, IN Analysts: MMB, MN, AF

	. <i>Ka</i>	nes esta	No.	Survi	ving (	organi	sms		(1) (2) (2) (2) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4
		\$ 15 m		175 - 175 - 175 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175	Day		S. Carlo		新花
	Rep.#	1	2	3	4	5	6	7	Remarks
型。 编、图 2 编》	Α	10	10	10	10	10	10	10	
Control	В	10	10	10	0	10	10	<u>lo</u>	
54.4. CANA	С	10	0	10	10	10	10	10	
類。特別	D	10	10	10	10	10	10	10	
	A	10	10	10	0	10	lo	10	
6.25%	В	10	10	19	10	10	10	10	
F. 18	C	10	ļO	10	10	10	10	10	
	0	10	10	10	10	10	lo	10	
	A	10	10	10	10	10	10	10	
12.5%	B	(0	10	10	10	10	10	10	
	C	10	10	10	10	10	10	10	
	D	10	10	10	10	19	10	9	
	A	10	10	10	10	10	9		
25%	В	10	10	10		10		0	
3 (5.4)	C	ĬΟ	0	10	10	10	10	10	
	D_	(0	<u>    0</u> _	0)	10		9	9	
	A	10	10	10	10	(0		10	
50%	В	<u>lo</u>	10	10	10	10	10	9	
	<u> </u>	10	0	10	15	10	10	10	
	<u> </u>	10	10	10	10	10	9	10	
	A	10	10	10	4	9	9	d	
100%	B	10	10	10		10	10	10	
		10	10	10	10		9	9	
	<u> </u>	10	10	lo		\$ ?			

Comments: Start Time: \030

FHM Source: Biomonitor Lab Cultures

File: fhmsurv Transform: ARC SINE(SQUARE ROOT(Y))

Shapiro Wilks test for normality

D = 0.093

W = 0.949

Critical W (P = 0.05) (n = 24) = 0.916 Critical W (P = 0.01) (n = 24) = 0.884

Data PASS normality test at P=0.01 level. Continue analysis.

Elkhart 7.24

File: fhmsurv Transform: ARC SINE(SQUARE ROOT(Y))

Hartley test for homogeneity of variance Bartletts test for homogeneity of variance

These two tests can not be performed because at least one group has zero variance.

Data FAIL to meet homogeneity of variance assumption. Additional transformations are useless.

File: finmsurv Transform: ARC SINE(SQUARE ROOT(Y))

	STEELS MANY-ONE RAI	NK TEST -	- Но	:Control<	reatmen	t
GROUP	IDENTIFICATION	TRANSFORMED MEAN	RANK SUM	CRIT. VALUE	df	SIG
1 2 3 4 5 6	control 6.25% 12.5% 25% 50% 100%	1.412 1.412 1.371 1.331 1.331	18.00 16.00 14.00 14.00 12.00	10.00 10.00 10.00 10.00 10.00	4.00 4.00 4.00 4.00 4.00	

Critical values use k = 5, are 1 tailed, and alpha = 0.05

MMB, MN, AF, MMK Elkhart WWTP Elkhart, IN Discharge: Location: Analyst:

Test Date(s):
Weighing Date:

7/9-16/24 7/17/24

100

Remarks:																								
Mean dry wgt of	0.440	0.390	0.430	0.350	0.400	0.430	0.550	0.430	0.350	0.460	0.370	0.390	0.380	0.380	0.400	0.330	0.330	0.420	0.410	0.390	0.330	0.380	0.450	0.370
No of	10	10	10	10	10	10	10	10	10	10	10	6	6	10	10	6	6	10	6	10	6	6	10	6
Total dry wgt of larvae (mg)	4.40	3.90	4.30	3.50	4.00	4.30	5.50	4.30	3.50	4.60	3.70	3.90	3.80	3.80	4.00	3.30	3.30	4.20	4.10	3.90	3.30	3.80	4.50	3.70
Dry wgt: foll and larvae (g)	0.92780	0.92910	0.93510	0.92680	0.93100	0.93640	0.92660	0.92150	0.93420	0.93200	0.92580	0.92770	0.92790	0.93120	0.93840	0.92920	0.93040	0.92860	0.92860	0.93600	0.92860	0.92030	0.91560	0.93140
	0.92340	0.92520	0.93080	0.92330	0.92700	0.93210	0.92110	0.91720	0.93070	0.92740	0.92210	0.92380	0.92410	0.92740	0.93440	0.92590	0.92710	0.92440	0.92450	0.93210	0.92530	0.91650	0.91110	0.92770
Rep. No.	A	80	U	۵	A	8	J		A	8	J	۵	4	8	Ju	۵	A	<b>A</b>	J	ALZIA	4	<b>A</b>	ں	٥
Conc			Control		記書を見り出巻す	Conc.:	6.25%		10 10 10 10 10 10 10 10 10 10 10 10 10 1	Sonc:	12.5%			Sonc:	25%		2. 医液质	Conc:	20%			Conc.	700%	が、経過など

File: fhm_grow Transform: NO TRANSFORMATION

Chi-square test for normality: actual and expected frequencies

INTERVAL	<-1.5	-1.5 to <-0.5	-0.5 to 0.5	>0.5 to 1.5	>1.5
			P. T. T. T. T. T. T. T. T. T. T. T. T. T.		
EXPECTED OBSERVED	1.608 0	5.838 6	9.168 10	5.808 8	1.608 0

Calculated Chi-Square goodness of fit test statistic = 4.1251 Table Chi-Square value (alpha = 0.01) = 13.277

Data PASS normality test. Continue analysis.

Elkhart 7.24

File: fhm grow Transform: NO TRANSFORMATION

Hartley test for homogeneity of variance

Calculated H statistic (max Var/min Var) = 4.96 Closest, conservative, Table H statistic = 184.0 (alpha = 0.01)

Used for Table H  $\Longrightarrow$  R (# groups) = 6, df (# reps-1) = 3 Actual values  $\Longrightarrow$  R (# groups) = 6, df (# avg reps-1) = 3.00

Data PASS homogeneity test. Continue analysis.

NOTE: This test requires equal replicate sizes. If they are unequal but do not differ greatly, the Hartley test may still be used as an approximate test (average df are used).

File: fhm grow Transform: NO TRANSFORMATION

#### SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 1 of 2

GRP	IDENTIFICATION	N	MIN	MAX	MEAN
1	control	4	0.350	0.440	0.403
2	6.25%	4	0.400	0.550	0.453
3	12.5%	4	0.350	0.460	0.392
4	25%	4	0.330	0.400	0.372
5	50%	4	0.330	0.420	0.387
6	100%	4	0.330	0.450	0.383

Elkhart 7.24

File: fhm_grow Transform: NO TRANSFORMATION

#### SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 2 of 2

GRP	IDENTIFICATION	VARIANCE	SD	SEM
1	control	0.302	0.041	0.021
2	6.25%	0.004	0.067	0.033
3	12.5%	0.002	0.048	0.024
4	25%	0.001	0.030	0.015
5	50%	0.002	0.040	0.020
6	100%	0.002	0.050	0.025

Elkhart 7.24

File: fhm grow Transform: NO TRANSFORMATION

#### ANOVA TABLE

SOURCE	DF	· SS	MS	F
Between	5	0.016	0.003	1.500
Within (Error)	18	0.040	0.002	
Tota1	23	0.056		

Critical F value = 2.77 (0.05, 5, 18)

Since F < Critical F FAIL TO REJECT Ho: All groups equal

File: fhm_grow Transform: NO TRANSFORMATION

DUNNETTS TEST - TABLE 1 OF 2 Ho:Control<Treatment _______ GROUP IDENTIFICATION MEAN ORIGINAL UNITS T STAT SIG T STAT SIG 

 control
 0.403
 0.403

 6.25%
 0.453
 0.453
 -1.581

 12.5%
 0.392
 0.392
 0.316

 25%
 0.372
 0.372
 0.949

 50%
 0.387
 0.387
 0.474

 100%
 0.383
 0.383
 0.632

 1 2 3 4 5

Dunnett table value = 2.41 (1 Tailed Value, P=0.05, df=18,5)

Elkhart 7.24

File: fhm_grow Transform: NO TRANSFORMATION

	DUNNETTS TEST -	TABLE 2 OF	2 Ho:	Control <t< th=""><th>reatment</th></t<>	reatment
GROUP	IDENTIFICATION	NUM OF REPS	Minimum Sig Diff (IN ORIG. UNITS)	% of CONTROL	DIFFERENCE FROM CONTROL
1	control	4			
2	6.25%	4	0.076	18.9	-0.050
3	12.5%	4	0.076	18.9	0.010
4	25%	4	0.076	18.9	0.030
5	50%	4	0.076	18.9	0.015
6	100%	4	0.076	18.9	0.020

Discharger:	Elkhart WWTP	Test Dates:	7/9/24 -7/16/24
Location:	Elkhart, IN	Analysts:	MMB, MN, AF

		Construct District	1 (a. a. [6 1])	Day		124(3)		1
Conc: Control	1	2	3	400	5	6	<b>7</b>	Remarks
Temp.	25	25	25	25	25	25	25	
D.O. Initial	9.3	7.9	8.2	7.7	801	7.7	76	
Final	69	6.9	6.3	6.3	518	6.5	7.1	
рн Initiai	8.1	7.8	7.8	7.8	7.9	7.8	7.9	
Final	7.7	7.6	7.5	7.7	75	7,7	7.5	
Alkalinity	40	A	40	1478 P. O. S.	40		100 A	
Hardness	100		110		110	To the	6 10 M 3 17 17 17 17 17 17 17 17 17 17 17 17 17	
Conductivity	320		320	2.4.4.4.4.6.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8	310			
Chlorine				151.78.107			京斯蒙·森拉	

	1 1 1			Day			Jan Maringar	
Conc: 6.25%	1	2	3	4	5	6	7	Remarks
Temp	25	25	25	25	25	25	25	
D.O. Initial	9.3	7.9	8.2	7.7	8.1	7.7	J. J	
Final	6.8	6.9	6.3	6.2	5.7	4.5	7.1	
pH Initial	8.0	7.8	7.8	7.8	7.8	7.8	7.8	
Final	7.7	7.6	7.5	7.6	75	7.7	75	
Alkalinity					•			· · ·
Hardness								
Conductivity	340		340		320			
Chlorine				3.43.53		15		

		ārgant, a	List Starker	į garting ir tir	Day		= 1,5°		
Conc:	12.5%	1	2	3	4	5	6	7	Remarks
Temp.		25	25	25	25	25	25	25	
D.O.	Initial	9,4	7.8	8.2	7.8	826	7.6	7.8	
1000000	Final	6.7	6.9	6.2	6-1	5.8	6.4	6.8	
pН	Initial	7.9	7.8	7.8	77	77	7.7	7,8	
	Final	7.7	7.7	7.6	7-6	7.5	7,4	7.5	
Alkalinit	<b>y</b>				3,423 V				
Hardnes	S		:				and the street		
Conduct	ivity	380		370	42.000	350			
Chlorine					學院學生所				

Discharger:	Elkhart WWTP	Test Dates:	7/9/24 -7/16/24	
Location:	Elkhart, IN	Analysts:	MMB, MN, AF	

	(80.8			Day	577 J. S. 1887 L.		: 建锅气 : (超5	
Conc: 25%	1	2	3	4	5	6		Remarks
Temp.	25	25	25	25	25	25	25	
D.O. Initial	9.6	8.0	8.3	7.9	7.8	7.6	7.9	
Final	6.7	6.9	0.	5.9	6.0	6.3	6,7	
pH Initial	7.8	7.8	7.7	7.7	7,7	7.7	7.7	
Final	7.8	7.8	7.7	7,6	7.6	7.8	7.6	,
Alkalinity		1.442		· 特別提供		81	<b>对于</b> 分传	
Hardness							1 霍儿二	
Conductivity	420		420		400	A STATE	All Series	
Chlorine				· 原籍			range range. Second Second	

	ter in in	1777		Day	and the second	3	a was	
Conc: 50%	1	2	3	4	5	6	7	Remarks
Temp.	25	25	25	25	25	25	25	to provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a provide a pro
D.O. Initial	9.8	8.1	8.4	8.1	7.7	7.6	80	
Final	6.7	6.9	5.9	5.9	6.0	6.2	6.6	· · · · · · · · · · · · · · · · · · ·
pH Initial Final	8.7	7.8	7.7	7.7	7.5	7.6	7-6	,
Final	7.9	7.9	7.7	7.6	7.6	7.9	7.6	
Alkalinity				1914: 144 1921: 144 1931: 144				
Hardness		4					1.35	
Conductivity	530		550		490	1.11.19 25.55		
Chlorine				21.742-04.20 7.742-04.20		Ta The Tub		

		200	- ,	Day	Day			
Conc: 100%	1	2	3	4	5	6	7	Remarks
Temp.	25	25	25	25	25	25	25	
D.O. init	ial 10.1	8.7	89	8.1	8,2	8-1	8.2	
Fina	al 6.7	6.9	5.60	6.2	5,8	5.9	6.5	
pH Init	ial 7.8	7.8	7.6	7.6	7.5	7.5	7.5	
Fina	al 8.1	8.1	7.7	8.8	7.8	7,9	77	
Alkalinity	100	2.装装	90	South Contract	50			
Hardness	725		275	THE PROPERTY.	275			
Conductivity	720		740	不 图 沙霉素	650		110	
<b>Chlorine</b>	NA	. 17	NO		0.2			
Ammonia	1.1	1 , 10	NO	14.44 Table 18.8	1-0	V 15 (3.4)	经数件的	

Permittee/Location Elkhart WWTP Elkhart, IN	Permit N IN002567			Outfall Number: 035				
Laboratory Name and Contact: Biomonitor Michael Britton			Report <u>Due</u> Date:			Report Date: July 2024		
WETT Reporting Frequency or Type: (mark one)	Monthly	Quarterly	Semi- annual	Annual	TRE X	Post TRE	3/3 (per Reporting Frequency)  Consecutive Months	

Test Organism	Test	Endpoint [1]	Units	Result	Compliance Value in TUs	Pass/Fail	Reporting
Ceriodaphnia	7-day Survival	NOTEC	%	100			Laboratory Report
dubia	and Reproduction Definitive Static-Renewal	NOEC Survival	TU₀	1			
		NOTES I	%	100			
1		NOEC Reproduction	TUc	1			
		, ICOE Barrer Investiga	%	100			
		IC25 Reproduction	TU₅	1			
		40   1650	%	>100			
		48 hr. LC50	TUa	<1			
·		Toxicity (acute)	TU _a	<1	1.0	Pass	Laboratory Report <u>and</u> NetDMR (Parameter Code 61425)
		Toxicity (chronic)	TUc	1	8.0	Pass	Laboratory Report <u>and</u> NetDMR (Parameter Code 61426)
Pimephales	7-day Larval		%	100			<u> </u>
promelas Suryiv Grow Defini	Suryival and Growth Definitive Static-Renewal	NOEC Survival	TU₅	100			Laboratory Report
			%	100			
		NOEC Growth	TU _c	1			
			%	100			
		IC25 Growth	TU₀	1			
		96 hr. LC50	1 %	>100			
			TUa	<1			
		Toxicity (acute)	TUa	1	1.0	Pass	Laboratory Report <u>and</u> <b>NetDMR</b> (Parameter Code 61427)
		Toxicity (chronic)	TUc	1	8.0	Pass	Laboratory Report <u>and</u> NetDMR (Parameter Code 61428)

Biomonitor 8802 West Washington Street Indianapolis, IN 46231 (317) 297-7713

Whole Effluent Toxicity Test

## ELKHART WASTEWATER TREATMENT PLANT

IN0025674

Elkhart, Indiana

July 2024

### GLP (Good Laboratory Practices) COMPLIANCE STATEMENT

Project Name: Elkhart Wastewater Treatment Plant

Project Date: July 2024

This project has been conducted under GLP standards, as stated in 40 CFR Part 160, with the following exceptions:

Quality Assurance Officer

Greg R. Bright

Date: 7/22/24

Michæl Britten

Project Director Date: 7/22/24

Other Participating Personnel:

Mukang'andu Ng'andwe Arizona Fox Melody Myers-Kinzie

Copies of the raw data and final report are maintained in the archives of Biomonitor for five years from the date of completion.

Section 1
Executive Summary

Biomonitor conducted whole effluent toxicity testing for the Elkhart, IN Wastewater Treatment Plant during July 2024. The purpose of the testing was to fulfill the biomonitoring requirement for the NPDES permit.

Three samples were collected July 7-11, 2024. The water flea, *Ceriodaphnia dubia*, and Fathead minnow, *Pimephales promelas*, were used as the test organisms.

A total of six toxicity endpoints were measured. The following results were obtained:

#### Ceriodaphnia dubia test

48-hr LC ₅₀	>	100% effluent	TUa	<	1.0
NOEL for survival	=	100% effluent	TUc	=	1.0
NOEL for reproduction	=	100% effluent	TUc	=	1.0

#### Pimephales promelas test

48-hr LC ₅₀	>	100% effluent	TU _a < 1.0
NOEL for survival	=	100% effluent	$TU_c = 1.0$
NOEL for growth	=	100% effluent	$TU_c = 1.0$

The acute toxicity limits in the NPDES permit require the 48 and/or 96-hr  $LC_{50}$  to be greater than 100% effluent (a  $TU_a$  not to exceed 1.0). The effluent samples passed the acute toxicity limits during this testing period for *Ceriodaphnia dubia* but not *Pimephales promelas*.

The chronic toxicity limits in the NPDES permit require a NOEL (No Observable Effect Level) of 12.5% effluent (a  $TU_c$  not to exceed 8.0). According to the NPDES permit, there was not a "Demonstration of Toxicity" during this sampling period.

#### Section 2 Introductory Information

### <u>Table I</u> General

Permit number:

IN0025674

**Toxicity testing requirements:** 

Fathead minnow larval survival and growth test

Ceriodaphnia survival and reproduction test

Plant location:

Elkhart Wastewater Treatment Plant

1201 Nappanee St. Elkhart, Indiana 46516

Name of receiving water body:

St. Joseph River

Name of WET testing laboratory:

Biomonitor

8802 West Washington St. Indianapolis, IN 46231

(317) 297-7713

### <u>Table II</u> Plant Operations

**Type of discharger:** Publicly owned treatment works

Wastewater consists of treated sanitary and industrial wastes

Type of waste treatment: Class IV. Activated sludge

**Design flow:** 20 – MGD

Volume of wastewater flow during the sampling period: July 7, 2024 -MGD

July 9, 2024 -MGD

July 11, 2024 -MGD

110[V_2(0]2/4]

### <u>Table III</u> Source of effluent and dilution water

#### I. Effluent samples

Sampling point:

Outfall 035

**Collection dates and times:** 

July 7, 2024

11:00 p.m.

July 9, 2024

11:00 p.m.

July 11, 2024

11:00 p.m.

Sample collection:

24-hour composite samples

Physical and chemical data:

See Tables 9 and 15

#### II. <u>Dilution water samples</u>

Source:

Moderately Hard Synthetic Water (MHSW)

Collection date and time:

N/A

**Pretreatment:** 

None

Physical and chemical data:

See Tables 9 and 15

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Section 3
Test Methods and Results

### **CERIODAPHNIA SURVIVAL AND REPRODUCTION TEST**

holy 2024

# Table IV METHODOLOGY Ceriodaphnia Survival and Reproduction Test

**Toxicity test method used:** 

Ceriodaphnia survival and reproduction test

**Endpoints of test:** 

Survival and reproduction (LC₅₀, NOEL, and LOEL)

Reference method:

EPA-821-R-02-013

**Deviations from method:** 

Test was completed in six days because control animals produced an average of greater than 15

young per female by day six.

Date and time test initiated:

July 9, 2024

10:45 a.m.

Date and time test terminated

July 15, 2024

10:55 a.m.

Type of test chambers:

Polyethylene

30 ml

Volume of solution used per chamber:

15 ml

Number of organisms per chamber:

Number of replicate chambers per

10

1

treatment:

Test temperature range:

25°C (no deviations)

# Table V ORGANISMS USED Ceriodaphnia Survival and Reproduction Test

Scientific name: Ceriodaphnia dubia

Age: <24 hours

<u>Life stage:</u> neonates

Mean length and weight: Not applicable

Source Laboratory culture in moderately hard reconstituted

water

**Diseases and treatment** Not applicable

- Nolly, 2002/4

# Table VI RESULTS Ceriodaphnia Survival and Reproduction Test

Raw Data:

See Table 8

LC₅₀ or NOEL obtained:

48-hr  $LC_{50}$  = greater than 100% effluent

NOEL for survival = 100% effluent

NOEL for reproduction = 100% effluent

Control survival was 100% after six days. Control reproduction averaged greater than 15 per surviving

female.

Methods used to calculate endpoints:

Fisher's Exact Test for the survival endpoint.

Dunnett's Test for the reproduction endpoint.

No calculations necessary for the acute endpoint.

July 2024 10

# Table VII QUALITY ASSURANCE Ceriodaphnia Survival and Reproduction Test

Reference Toxicant used and source: Copper chloride, reagent grade, from Carolina

Biological

**Date and time of most recent test:** July 16-23, 2024

<u>Dilution water used in test:</u> Moderately hard synthetic water

Results: 48-hr  $LC_{50} = 99 \mu g/L$  as Cu

NOEL (reproduction) =  $20 \mu g/L$  as Cu

LOEL (reproduction) = 40 μg/L as Cu

<u>Comparison to recommended range:</u> Within the laboratory control range for both acute

and chronic endpoints (see attachment)

# Table VIII TEST DATA Ceriodaphnia Survival and Reproduction Test

				Num	ber o	f You	ing R	epro	duced	k		Young	
Effluent	Day						icate					Per	Total Live
Concentration	No.	Α	В	С	D	E	F	G	Н	1	J	Female	Breeders
	1	0	0	0	0	0	0	0	0	0	0		10
	2	0	0	0	0	0	0	0	0	0	0		10
	3	4	2	2	0	4	4	2	2	3	0		10
Control	4	7	4	4	0	5	6	0	4	4	6	18.3	10
	5	0	0	8	8	0	0	10	0	9	6		10
	6	0	9	9	11	13	12	13	12	0	0		10
	1	0	0	0	0	0	0	0	0	0	0		10
	2	0	0	0	0	0	0	0	0	0	0		10
	3	4	2	0	0	2	4	0	4	4	0		10
6.25%	4	8	2	5	0	5	7	0	5	2	2	19.0	10
	5	0	0	9	5	0	0	7	0	7	4		10
	6	12	13	14	9	11	14	13	16	0	0		10
	1	0	0	0	0	0	0	0	0	0	0		10
	2	0	0	0	0	0	0	0	0	0	0		10
	3	2	2	0	0	0	3	3	0	3	0		10
12.5%	4	9	0	0	0	5	7	0	5	3	0	17.6	10
	5	0	0	4	8	0	10	11	0	0	8		10
	6	16	12	14	12	11	0	14	10	4	0		10

# Table VIII (cont.) TEST DATA Ceriodaphnia Survival and Reproduction Test

Effluent	Day		l	Numl	oer o	f You	ng R	eproc	duced	ł		Young	Total Live
Concentration	No.	,				Repl	icate					Per	Breeders
Concentration	NO.	Α	В	С	D	Ш	F	G	Н	1.	j	Female	Dieeuers
	1	0	0	0	0	0	0	0	0	0	0		10
	2	0	0	0	0	0	0	0	0	0	0		10
	3	4	0	0	0	2	2	0	0	0	0		10
25%	4	7	6	4	0	7	3	0	6	0	0	17.1	10
	5	0	0	9	6	0	8	10	0	0	8		10
	6	16	11	15	10	15	0	11	11	0	0		10
	1	0	0	0	0	0	0	0	0	0	0		10
	2	0	0	0	0	0	0	0	0	0	0		10
	3	0	0	0	0	0	4	0	4	0	1		10
50%	4	7	1	0	0	4	8	0	6	2	6	16.7	10
	5	0	0	7	9	0	10	9	0	5	9		10
	6	13	2	14	0	13	0	15	18	0	0		10
								·	•		•		
	1	0	0	0	0	0	0	0	0	0	0		10
	2	0	0	0	0	0	0	0	0	0	0		10
	3	1	2	0	0	6	3	0	0	0	0		10
100%	. 4	8	0	0	9	0	5	0	8	0	9	14.9	10
	5	0	0	8	0	0	0	0	0	0	11		10
	6	18	5	18	14	8	0	0	16	0	0		10

# Table IX WATER CHEMISTRY Ceriodaphnia Survival and Reproduction Test

Effluent Concentration	D.O. <u>Range</u> mg/L	Temp. Range °C	pH <u>Range</u> S.U.	Alk. Range CaCO ₃	Hardness Range CaCO ₃	Cond. <u>Range</u> μS
CONTROL	7.3 – 9.1	25	7.8 – 8.4	40-	100-110	300-360
6.25%	7.3 – 9.1	25	7.8 – 8.3			310-360
25%	7.3 – 9.3	25	7.7 – 8.1			410-420
100%	7.4 – 9.7	25	7.5 – 8.4	90-100	225-275	660-730



### **FATHEAD MINNOW LARVAL SURVIVAL AND GROWTH TEST**

# Table X METHODOLOGY Fathead Minnow Larval Survival and Growth Test

<u>Toxicity test method used:</u> 7-day fathead minnow larval survival and growth

test

**Endpoints of test:** 96-hr LC₅₀ and no observable effect level (NOEL) for

survival and growth. TUc for survival and growth.

Reference method: EPA-821-R-02-013

<u>Deviations from method:</u> No Deviations

**Date and time test initiated:** July 9, 2024 10:30 a.m.

**Date and time test terminated** July 16, 2024 10:30 a.m.

Type of test chambers: Polyethylene 300 ml

four

Volume of solution used per chamber: 250 ml

Number of organisms per chamber: ten

Number of replicate chambers per

treatment:

<u>Test temperature range:</u> 25°C (no deviations)

July 2024 16

# Table XI ORGANISMS USED Fathead Minnow Survival and Growth Test

Scientific name:

Pimephales promelas

Age:

<24 hours

Life stage:

larvae

Mean length and weight:

Not applicable

<u>Source</u>

**Biomonitor Lab Cultures** 

**Diseases and treatment** 

Not applicable

lejy 2024 17

# Table XII RESULTS Fathead Minnow Larval Survival and Growth Test

Raw Data:

See Table 14

LC₅₀ or NOEL obtained:

96-hr  $LC_{50} = >100\%$  effluent

NOEL for survival = 100% effluent

NOEL for growth = 100% effluent

Control survival and growth fell within the acceptable

range

Methods used to calculate

endpoints:

Steel's Many-One Rank Test was required for the survival

endpoint because the homogeneity of variance

assumptions could not be met.

Dunnett's Test for the growth endpoint.

No calculations necessary for the acute endpoint.

July 2024 18

# Table XIII QUALITY ASSURANCE Fathead Minnow Larval Survival and Growth Test

**Reference Toxicant used and source:** Potassium chloride, reagent grade,

from Sigma-Aldrich

Date and time of most recent test: July 16-23, 2024

<u>Dilution water used in test:</u> Moderately Hard Synthetic Water

**Results:** 96-hr  $LC_{50} = 1091 \text{ mg /L as KCl}$ 

NOEL (growth) = 1000 mg/L as KCl

LOEL (growth) = 2000 mg/L as KCl

<u>Comparison to recommended range:</u> Within the laboratory control range for both acute

and chronic endpoints (see attachment)

Table XIV
TEST DATA
Fathead Minnow Larval Survival and Growth Test

Effluent Concentration	<u>% Sı</u>	ırvival in I	Each Repl	icat <u>e</u>	Average Dry Weight (μg) in Each <u>Replicate</u>			
Concentration	Α	В	С	D	Α	В	С	D
Control	100	100	100	100	440	390	430	350
6.25%	100	100	100	100	400	430	550	430
12.5%	100	100	100	90	350	460	370	390
25%	90	100	100	90	380	380	400	330
50%	90	100	90	100	330	420	410	390
100%	90	90	100	90	330	380	450	370

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# Table XV WATER CHEMISTRY Fathead Minnow Larval Survival and Growth Test

Effluent Concentration	D.O. <u>Range</u> mg/L	Temp. Range °C	pH <u>Range</u> S.U.	Alk. <u>Range</u> CaCO₃	Hardness Range CaCO ₃	Cond. <u>Range</u> μS
CONTROL	5.8 – 9.3	25	7.5 – 8.1	40-	100-110	310-320
6.25%	5.7 – 9.3	25	7.5 – 8.0			320-340
25%	5.9 – 9.6	25	7.6 – 7.8			400-420
100%	5.6 – 10.1	25	7.5 – 8.1	90-100	225-275	650-740

## Biomonitor

8802 W. Washington Street Indianapolis, IN 46231 317-297-7713 www.biomonitor.com

### SAMPLE SUMMARY AND CHAIN OF CUSTODY

CLIENT NAME:	Elkhart WWTP			
PURPOSE OF SAMPLE:	Whole Effluent Toxicity			
SAMPLE IDENTIFICATION	N: Elkhart - 1	Mon.	July 2024	
DESCRIPTION: Outfall				,
DATE SAMPLE COLLECTI	ED: Start Date $\frac{7-7}{7-7}$	7-24	_ Start Time	<u> Jam</u>
	End Date $7-7$	1-24	End Time	11 pm
NAME OF PERSON COLLE	ECTING SAMPLE: <u>Peru</u>	tions		
SAMPLE VOLUME:	8 Liters			
NUMBER OF CONTAINER	S: Two, HDPE			
SAMPLE STORAGE:	Refrigerated/iced			
PRESERVATIVES:	none			
Relinquished by:	ylchell			
Date: 7/8/24		Time:	2:02	
Received by:				
Date:	(18/24	Time:	2:02/-	
Relinquished by:			•	
Date:	i	Time:		
Received by:		.,,,		
Date:		Time:		
TEMP:(°C				

COMMENTS:

## Biomonitor

8802 W. Washington Street Indianapolis, IN 46231 317-297-7713 www.biomonitor.com

### SAMPLE SUMMARY AND CHAIN OF CUSTODY

CLIENT NAME:	Elkhart WWTP			
PURPOSE OF SAMPLE:	Whole Effluent Toxicity			
SAMPLE IDENTIFICATION	V: Elkhart - 2	Wed.	July 2024	
DESCRIPTION: Outfall	•			
DATE SAMPLE COLLECTI	ED: Start Date $\frac{7-9}{2}$	-24	Start Time ) am	
	End Date	-24	End Time	
NAME OF PERSON COLLE	ECTING SAMPLE: Sec	- Opera	Znatz	
SAMPLE VOLUME:	8 Liters			
NUMBER OF CONTAINER	S: Two, HDPE			
SAMPLE STORAGE:	Refrigerated/iced			
PRESERVATIVES:	none			
Relinquished by: Sarr	z Well			
Date: 7-10-	24	Time:\\	:50am	
Received by:	9,R			
Date:	1/10/24	Time:	(:50 =	
Relinquished by:				,
Date:		Time:		
Received by:				
Date:		Time:		
TEMP C °C				

COMMENTS:

## **Biomonitor**

8802 W. Washington Street Indianapolis, IN 46231 317-297-7713 www.biomonitor.com

### SAMPLE SUMMARY AND CHAIN OF CUSTODY

CLIENT NAME:	Elkhart WWTP			
PURPOSE OF SAMPLE:	Whole Effluent Toxicity	y		
SAMPLE IDENTIFICATION	V: Elkhart - 3	Fri.	July 2024	
DESCRIPTION: Outfall		0-0	1	i
DATE SAMPLE COLLECT	ED: Start Date $\frac{1}{2}$	-11-2024	Start Time	lan
	End Date $\underline{7}$	-11-202	£ End Time	11 pm
NAME OF PERSON COLLI	ECTING SAMPLE: _C	peration	ons	
SAMPLE VOLUME:	8 Liters	·		
NUMBER OF CONTAINER	S: Two, HDPE			
SAMPLE STORAGE:	Refrigerated/ice	ed		
PRESERVATIVES: Relinquished by:	none	1		
Date: 7-12-6	2024	Time:_	12:06pm	
Received by:	7		Maria de la companya de la companya de la companya de la companya de la companya de la companya de la companya	
Date:	12/24	Time:	12:06p	
Relinquished by:				
Date:		Time:		
Received by:				
		Time:		
TEMP:°C				

COMMENTS:

#### Ceriodaphnia dubia

Reference Toxicant - Copper sulfate/chloride as Cu

Dilution Water - Moderately Hard Reconstituted Water

Date	LC ₅₀	NOEL	LOEL	IC ₂₅
mm/yy	48-hr μg/L	μg/L (repro.)	μg/L (repro.)	μg/L (repro.)
08/21	87	40	80	23
09/21	92	40	80	49
10/21	73	40	80	52
11/21	113	40	160	59
12/21	75	40	80	48
2/22	105	40	80	54
3/22	75	40	80	S1
4/22	113	40	во	57
5/22	95	40	80	30
6/22	113	40	80	41
7/22	75	40	80	33
8/22	86	20	40	30
9/22	80	40	80	32
11/22	70	40	80	40
12/22	77	40	80	48
1/23	75	40	80	48
2/23	85	40	80	52
4/23	80	40	80	37
5/23	80	40	80	39
06/23	113	40	160	59
07/23	75	40	80	55
09/23	80	40	80	15
10/23	113	40	80	58
11/23	86	40	80	50
01/24	99	20	40	30
02/24	86	40	80	48
03/24	80	40	80	48
04/24	80	40	80	51
06/24	87	20	40	32
07/24	99	20	40	20
Average	88	Mode 40	80	43
St. Dev.	14			12
Upper Limit	116	80	160	67
Lower Limit	61	20	40	19

#### Pimephales promelas

Reference Toxicant - Potassium chloride

Dilution Water - Moderately Hard Reconstituted Water

Date	LC ₅₀	NOEL	LOEL	IC ₂₅
mm/yy	96-hr mg/L	mg/L (grwth)	mg/L (grwth)	mg/L (grwth)
11/21	1129	1000	2000	939
12/21	1129	500	1000	810
02/22	812	500	1000	612
03/22	946	500	1000	707
04/22	917	500	1000	703
05/22	1110	1000	2000	1223
06/22	856	500	1000	710
07/22	1130	500	1000	736
08/22	1093	500	1000	925
09/22	1278	1000	2000	950
11/22	1035	500	1000	684
12/22	1053	1000	2000	805
01/23	795	500	1000	664
02/23	1091	500	1000	741
04/23	1231	1000	2000	1121
05/23	1189	1000	2000	1110
06/23	951	500	1000	669
07/23	1091	500	1000	1091
09/23	1000	500	1000	702
10/23	1124	500	1000	768
11/23	1253	500	1000	849
01/24	1128	500	1000	699
02/24	952	1000	2000	798
03/24	1189	500	1000	908
04/24	1189	1000	2000	1037
06/24	1169	500	1000	899
07/24	1091	1000	2000	989
verage	1072	Mode 500	1000	846
t. Dey,	127			163
Jpper Limit	1326	1000	2000	1172
ower Limit	817	250	500	520

Client:	Elki	nart WWTP
Project #		
Analysts:	M	MB, MN, AF
	Start Date:	7/9/2024
ites	Start Time:	1045
Test Dates	End Date:	7/15/2024
	End Time:	1055
Template #	E	No. of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of
Comments:		

0 = Number of Live Young / = Test Organism Dead y = Male M = Lost or Missing

Row 10	1 2 3 4 5 6 7	0 0 0 1 1 4	0 0 0	0 0 0 0	0 0 0 0	0 0 1 0 9	0 0 0 0 0
Row 9	2 3 4 5 6 7	0 0 3 4 9 0	0 0 0 0 0	0 0 0 2 5 0	0 0 4 2 7 0	0 0 0 0 0 0	0 0 3 3 0 4
Row 8	1 2 3 4 5 6 7	0 0 1 5 0 1 6	0 0 7 0 0 7 0 7 0 7 0 7 0 7 0 7 0 7 0 7	0 0 0 5 0	0 0 2 4 0	0 0 0 8 0	0 0 0 0 0
	1 2 3	0	0 0 3	0 0 2	0 0 0	0 0	0 0 0
Row 7 Day	3 4 5 6 7	0 7 13	0 11 14	0 18 13	095	16	0
Row 6 Bow 7	4 5 6	0	0	$\wedge$	0 0 3 7 10 0	16	0

1	0	0	0	0	0	0
2	0	0	0	0	0	0
3	Λ	0	٥	0	0	0
Aeg 5	8	9	Ò	٥	O	
<b>0</b> 5	8	0	5	6	8	8+1
6 7	12	14	5	10	11	Ò
<b>                                    </b>						
					L	
	0	0	0	0	0	0
2	0	0	0	0	0	0
3	0 0 0	0	0_	0	Ò	2
Row 3 Day		5 9 14	.0	0	4	4 88
2 5	7	9	9	8	9 15	X
6 7	14	14	14	18	12	7
		<u> </u>		<u> </u>		
				<u> </u>		
1	0	0	0	0	0	0
2	0	0	0	0	0	0
2	0	0		0 2	0 2	0 2~
2	0	0 2 0	0	0 2	0 2 4	0 2~
2 3 4 Pay 5	۰ ٥ ٥	0 2 0	0	0 2	0 2 4	0 2~
2	0	0	0	0	0 2	0
2 3 4 4 5 6	۰ ٥ ٥	0 2 0	0	0 2	0 2 4	0 2~
Z _M ON 2 3 4 5 6 7 7	0 0	0 2 0 0 12	0 0 1 0 7	0 Z 2 0 13	0 2 4 0 9	0 1 0 0 5
2 3 4 5 6 7	0 0	0 2 0 0 12	0 0 1 0 7	0 Z Z 0 13	0 2 4 0 9	0 1 0 0 5
Z 3 4 5 6 7 1 2 3 3	۰ ٥ ٥	0 0 0 0	0 0 1 0 7	0 2 2 2 0 13	0 2 4 0 9 0 0 0 2	0 1 0 0 5
Z 3 4 5 6 7 7 1 2 3 3	0 0 0 0 4 7	0 0 0 0	0 0 7 2 0 0	0 2 2 2 0 13	0 2 4 0 9 0 0 0 2	0 2 0 0 5
2 3 4 5 5 6 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	0 0 0 0 4 7	0 0 0 0	0 0 1 0 2 0 0 0	0 2 2 2 0 13	0 2 4 0 9 0 0 0 2	0 2 0 0 5
Bow 1	0 0 11 0 0 0 4	0 0 0 0	0 0 7 2 0 0	0 Z Z 0 13	0 2 4 0 9	0 1 0 0 5
2 3 4 5 5 6 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	0 0 0 0 4 7	0 2 0 0 12	0 0 1 0 2 0 0 0	0 2 2 2 0 13	0 2 4 0 9 0 0 0 2	0 2 0 0 5

	1045	1055
MN, AF		
MMB, MN, AF	7/9/24	7/15/24
Analyst:	Test Start- Date/Time:	Test Stop- Date/Time:
Elkhart WWTP	Elkhart, IN	7/7,9,11/24
Discharger:	Location:	Date Sample Collected:

foung per	Adult	0.0	0.0	2.3	4.0	4.1	7.9	18.3	
No. of	Adults	10	10	10	10	10	10	10	
No. of	Young	0	0	23	40	41	79	183	
	10	0	0	0	9	9	0	 12	
. 1	9.	0	0	3	4	6	0	16	
	8	0	0	2	4	0	12	 18	
	7	0	0	2	0	10	13	25	
cate	9	0	0	4	9	0	12	22	
Replicate	5	0	0	4	5	0	13	22	
	4	0	0	0	0	8	11	19	
	m	0	0	2	4	∞	6	23	
	7	0	0	2	4	0	6	15	
	-	0	0	4	7	0	0	11	
	Day	1	2	3	4	5	9	Total	
	Conc.					Control		·	

e								
Young p	Adult	0.0	0.0	2.0	3.6	3.2	10.2	19.0
No. of	Adults	10	10	10	10	10	10	10
No. of	Young	0	0	20	36	32	102	190
	10	0	0	0	2	4	0	9
	6	0	0	4	7	7	0	13
	<b>∞</b>	0	0	4	5	0	16	25
	7	0	0	0	0	7	13	20
icate	9	0	0	4	7	0	14	25
Replicate	ιO	0	0	2	5	0	11	18
	4	0	0	0	0	5	6	14
	m	0	0	0	5	6	14	28
	2	0	0	2	2	0	13	17
	H	0	0	4	8	0	12	24
	Day	1	2	m	4	5	9	Total
	Conc				è	% <b>0</b>		

			Air Air	N-5		Repl	icate					No. of	No. of	Young per
Conc.	Day	H	2	m	4	ĸ	9	7	8	6	10	Young	Adults	Adult
1 1	<b>.</b>	0	0	0	0	0	0	0	0	0	0	0	10	0.0
	2	0	0	0	0	0	0	0	0	0	0	0	10	0.0
	m	2	2	0	0	0	3	m	0	ന	0	13	10	1.3
è	4	6	0	0	0	2	7	0	5	က	0	29	10	2.9
<b>%</b>	S	0	0	4	∞	0	10	11	0	0	8	41	10	4.1
	9	16	12	14	12	11	0	14	10	4	0	93	10	9.3
														4
	Total	27	14	18	70	16	20	28	15	10	8	176	10	17.6

of No. of Young per	ng Adults Adult	10	10 0.0	10	-	10	10 10	0 0 0	10 10	10 10	10 10 10 10 No. of	10 10 10 10 No. of Ye	10 10 10 10 No. of Adults	10 10 10 10 No. of Adults	10 10 10 10 No. of Adults 10 10	10 10 10 10 No. of Adults 10 10 10	10 10 10 10 No. of Adults 10 10 10 10	10 10 10 10 No. of Adults 10 10 10 10 10	10 10 10 10 No. of Adults 10 10 10 10 10	10 10 10 10 No. of Adults 10 10 10 10 10	10 10 10 10 10 10 10 10 10 10	10 10 10 10 10 10 10 10 10 10 10 10	10 10 10 10 10 10 10 10 10 10 10 10 10 1	10 10 10 10 10 10 10 10 10 10 10 10 10 1	10 10 10 10 10 10 10 10 10 10 10 10 10 1	10 10 10 10 10 10 10 10 10 10 10 10 10 1	10 10 10 10 10 10 10 10 10 10 10 10 10 1	10 10 10 10 10 10 10 10 10 10 10 10 10 1	10 10 10 10 10 10 10 10 10 10 10 10 10 1	10 10 10 10 10 10 10 10 10 10 10 10 10 1
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File: ceriorep Transform: NO TRANSFORMATION

Chi-square test for normality: actual and expected frequencies 

INTERVAL	<-1.5	-1.5 to <-0.5	-0.5 to 0.5	>0.5 to 1.5	>1.5
EXPECTED OBSERVED	4.020	14.520 14	22.920	14.520 20	4.020

Calculated Chi-Square goodness of fit test statistic = 4.5165 Table Chi-Square value (alpha = 0.01) = 13.277

Data PASS normality test. Continue analysis.

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File: ceriorep Transform: NO TRANSFORMATION

Hartley test for homogeneity of variance

Calculated H statistic (max Var/min Var) = 4.89

Closest, conservative, Table H statistic = 12.1 (alpha = 0.01)

Used for Table H ==> R (# groups) = 6, df (# reps-1) = 9 R (# groups) = 6, df (# avg reps-1) = 9.00 Actual values ==>

Data PASS homogeneity test. Continue analysis.

NOTE: This test requires equal replicate sizes. If they are unequal but do not differ greatly, the Hartley test may still be used as an approximate test (average df are used).

#### SUMMARY OF FISHERS EXACT TESTS

GROUP	IDENTIFICATION	NUMBER EXPOSED	NUMBER DEAD	SIG (P=.05)
	CONTROL	10	0	
1	6 ⁹	10	0	
2	12%	10	0	
3	25%	10	0	
4	50%	10	0	
5	100%	10	0	
	<del></del>			

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File: ceriorep Transform: NO TRANSFORMATION

#### SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 1 of 2

GRP	IDENTIFICATION	N	MIN	MAX	MEAN
1	control	10	11.000	25.000	18.300
2	6.25%	10	6.000	28.000	19.000
3	12.5%	10	8.000	28.000	17.600
4	25 %	10	0.000	28.000	17.100
5	50%	10	3.000	28.000	16.700
6	100%	10	0.000	27.000	14.900

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File: ceriorep Transform: NO TRANSFORMATION

#### SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 2 of 2

GRP	IDENTIFICATION	VARIANCE	SD	SEM
1.	control	22.678	4.762	1.506
2	6.25%	46.000	6.782	2.145
3	12.5%	42,267	6.501	2.056
4	25%	74.767	8.647	2.734
5	50%	64.456	8.028	2.539
6	100%	110.989	10.535	3.331

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File: cericrep Transform: NO TRANSFORMATION

#### ANOVA TABLE

SOURCE	DF .	SS	MS	F
Between	5	101.333	20.267	0.337
Within (Error)	54	3250.400	60.193	
Total	59	3351.733		

Critical F value = 2.45 (0.05,5,40) Since F < Critical F FAIL TO REJECT Ho:All groups equal

Elkhart 7.24

File: cericrep Transform: NO TRANSFORMATION

	DUNNETTS TEST - T.	ABLE 1 OF 2	Ho:Control <tr< th=""><th>eatment</th><th></th></tr<>	eatment	
GROUP	IDENTIFICATION	TRANSFORMED MEAN	MEAN CALCULATED IN ORIGINAL UNITS	T STAT	SIG
1 2 3 4 5	control 6.25% 12.5% 25% 50% 100%	18.300 19.000 17.600 17.100 16.700 14.900	18.300 19.000 17.600 17.100 16.700 14.900	-0.202 0.202 0.346 0.461 0.980	

Dunnett table value = 2.31 (1 Tailed Value, P=0.05, df=40,5)

Elkhart 7.24

File: ceriorep Transform: NO TRANSFORMATION

	DUNNETTS TEST - 5	rable 2 of	2 Но:	Control <t< th=""><th>reatment</th></t<>	reatment
GROUP	IDENTIFICATION	NUM OF REPS	Minimum Sig Diff (IN ORIG. UNITS)	% of CONTROL	DIFFERENCE FROM CONTROL
1	control	15			
2	6.25%	10	8.015	43.8	-0.700
3	12.5%	10	8.015	43.8	0.700
4	25%	10	8.015	43.8	1.200
5	50%	10	8.015	43.8	1.600
6	100%	10	8.015	43.8	3.400

Discharger:	Elkhart WWTP	Test Dates:	7/9/24 -7/15/24	
Location:	Elkhart, IN	Analysts:	MMB, MN, AF	

	Mar Service A	10 - Jennie 1		Day	计图像点式	and the state of		
Conc : Control	1	2	3	4	5	6	7	Remarks
Temp.	25	25	25	25	25	25	25	
D.O. Initial	9.1	8.0	8.0	810	8,1	812		Template B
Final	8.0	7.6	7.3	7,7	7.9	7.9		
рн Initial	8.4	7.8	7.8	7.9	79	7.9		
Final	8.0	8.0	8.0	7.9	7.8	7.9		
Alkalinity	40	W 13.	40	The Walter	40	N. 15. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		
Hardness	100	1 P. 7.	110	1 W 1 St	110	0.039 68340	7 使来说:	
Conductivity	360		-300	PATE.	330		1. 章推学V	
Chlorine		7		. 作用數學是		18. Norseas 19. norse 19. norse		

			Language Control	Day	Vytavatev	1. 1.27. 3.66	100 5 300	
Conc: 6.25%	1	2	3	4	5	6	7	Remarks
Temp.	25	25	25	25	25	25	25	
D.O. Initial	9.1	8.0	8.0	820	8.0	8,2		
Final	7.9	7.6	7.3	7.8	7.9	7.9		
pH Initial	4.3	7.8	7.8	7.9	7.8	7.8		
Final	7.9	8.0	8.0	8.0	8.0	7.9		
Alkalinity		St. 12		144.7		11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	V, d ₂ - 1 - 1	
Hardness				Albania Newson		. 1. 19 19	7 - 197 - 1	
Conductivity	360		310	<b>高温度</b>	348	1.7.11.24		
Chlorine								

				Day	The section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the se			
Conc: 12.5%	1	2	3	4	5	6	7	Remarks
Temp.	25	25	25	25	25	25	25	
D.O. Initial	9.2	8.0	8.0	8.0	8,0	8,2		
Final	7.8	7.6	7.3	7.8	7.9	80		
pH Initial	8.2	7.8	7.8	7.9	7.8	7.7		
Final	7.9	8.0	8.0	820	8.0	7,9		
Alkalinity		. 14						
Hardness								
Conductivity	370		350		349	7.57.0		
Chlorine								

Discharger:	Elkhart WWTP	Test Dates:	7/9/24 -7/15/24
Location:	Elkhart, IN	Analysts:	MMB, MN, AF

	i di di di di di di di di di di di di di	5.1.40°5	보호를	Day	ing algorithm	in Taga	<b>艾</b> 蘭特/希腊	
Conc: 25%	1	2	3	4	5	6	7	Remarks
Temp.	25	25	25	25	25	25	25	
D.O. Initial	9.3	8.0	8.1	811	8 10	84		
Final	7,7	7.5	7.3	7.8	8.10	8.0		
pH Initial	8.1	7.8	7.8	0.8	7.7	7.7		
Final -	8.0	8.1	1.8	1,8	811	8.0		
Alkalinity								
Hardness								
Conductivity	420		420	Fraction a	410	y the Stelly		
Chlorine				<b>建筑</b>			1 3 38, 1011. 1, 2	

	A Sept.			Day	NA WEST			
Conc: 50%	1	2	3	4	5	6	7	Remarks
Temp.	25	25	25	25	25	25	25	
D.O. Initial	9.4	8.7	8.1	8,1	810	8.0		
Final	7.	7.5	7.3	7.9	82	8.0		
рн Initial	4.0	7.8	7.8	0.8	7.6	17.6		
Final	8.1	8.2	8.1	8.2	8.5	18.1		
Alkalinity		,	•			<u> </u>	Control of the	
Hardness								
Conductivity	490		520	(1.14) (1.14)	490		10	
Chlorine						1.0.		

1				Day	1599		in desire	
Conc: 100%	1	2	3	4	5	6	7	Remarks
Temp.	25	25	25	25	25	25	25	
D.O. Initial	ed4	8.8	85	8,5	8,3	8,4		
Final	76	7.5	7.4	8-1	802	8.0		
pH Initial	7,9	7.9	7.8	0.8	7.6	7.5		
Final	8.3	8.4	7.3	8,2	8,2	8.2		
Alkalinity	100		90		90	AM 3 44 5 8		
Hardness	225		275	· 2000年4月	275			
Conductivity	680	. 4	730	3.5%	660	1 129		
Chlorine	N.A.		120	11.24	0.2	1. 1. 1. 1. 1.	1,650	·
Ammonia	N.D.		ND	・ 学数を分と 元 10mm 月	1.0			

Discharger:	Elkhart WWTP	Test Dates	7/9/24 -7/16/24
Location:	Elkhart, IN	Analysts:	MMB, MN, AF

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Conc:	Rep.#	1	2	3	4	5	6	7	Remarks
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Control	В	10	10	10	10	10	10	10	
	С	10	10	10	10	10	lo	10	
	D	10	10	10	10	10	lo	10	
	A	10	0	10	10	10	lo	10	· · · · · · · · · · · · · · · · · · ·
6.25%	В	10	10	19	10	10	10	10	
	C	10	10	10	19	10	10	10	
	D	10	10	10	10	18	lo	10	
45	A	10	.10	10	10	10	10	10	
12.5%	В	10	10	ا ما	10	10	10	10	
- 1L.J/0	C	0	10	10	10	10	10	JQ.	
	D	10	10	10	10	19	10	- T	
	A	10	10	10	10	10	9	9	
25%	В	10	10	10	18	10	10	10	
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e MelVII. Andred Steine	0	(0	10	10	10	10	10	9	
	A	10	10	10	10	10	9	9	
50%	В	10	10	10	19	10	10	To	
J 476	C	10	0	10	10	9	9	9	
	D	10	10	10	10	19	10	<u> </u>	
	A	10	10	10	10	10	9	9	
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100.10	C	10	10	10	10	10	10	10	
Program	D	10	10	LD	9	# ?	٩	9	

**Comments:** Start Time:

1030

FHM Source:

Biomonitor Lab Cultures

Elkhart 7.24

File: fhmsurv Transform: ARC SINE(SQUARE ROOT(Y))

Shapiro Wilks test for normality

D = 0.093

W = 0.949

Critical W (P = 0.05) (n = 24) = 0.916Critical W (P = 0.01) (n = 24) = 0.884

Data PASS normality test at P=0.01 level. Continue analysis.

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File: fhmsurv Transform: ARC SINE(SQUARE ROOT(Y))

Hartley test for homogeneity of variance Bartletts test for homogeneity of variance

These two tests can not be performed because at least one group has zero variance.

Data FAIL to meet homogeneity of variance assumption. Additional transformations are useless.

Elkhart 7.24

File: fhmsurv Transform: ARC SINE(SQUARE ROOT(Y))

Critical values use k = 5, are 1 tailed, and alpha = 0.05

Discharge: Elkhart wwTP
Location: Elkhart, IN
Analyst: MMB, MN, AF, MMK

Test Date(s):
Weighing Date:

7/9-16/24 e: 7/17/24

100

Mean dry wgt of larvae (g)	0.440	0.390	0.430	0.350	0.400	0.430	0.550	0.430	0.350	0.460	0.370	0.390	0.380	0.380	0.400	0.330	0.330	0.420	0.410	0.390	0.330	0.380	0.450	0.370
<b>+</b> 0		10 0	10 0	10 0	10 0	10 0	10 0	10 0	10 0	10 0	10 0	0 6	) 6	10 C	10 0	6	) 6	10 (	) 6	10 (	) 6	) 6	10 (	) 6
wgt (mg)	4.40	3.90	4.30	3.50	4.00	4.30	5.50	4.30	3.50	4.60	3.70	3.90	3.80	3.80	4.00	3.30	3.30	4.20	4.10	3.90	3.30	3.80	4.50	3.70
Dry wgt: Toil and Iarvae (g)	0.92780	0.92910	0.93510	0.92680	0.93100	0.93640	0.92660	0.92150	0.93420	0.93200	0.92580	0.92770	0.92790	0.93120	0.93840	0.92920	0.93040	0.92860	0.92860	0.93600	0.92860	0.92030	0.91560	0.93140
Wgt.of boat(g)	0.92340	0.92520	0.93080	0.92330	0.92700	0.93210	0.92110	0.91720	0.93070	0.92740	0.92210	0.92380	0.92410	0.92740	0.93440	0.92590	0.92710	0.92440	0.92450	0.93210	0.92530	0.91650	0.91110	0.92770
Rep. No.	A	B	ပ	۵	4	В	U	۵	A	8	٥	۵	4	80	٥	۵	4	8	J	٥	A	B	ں	۵
Conc	の できる (大学の) (大学の) (大学の) (大学の) (大学の) (大学の) (大学の)		Control		Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Manager   Ma	- Conc:	6.25%		新。 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000年 1000	Conc:	12.5%			Conc:	. 25%			Conc:	20%			Conc.	100%	

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File: fhm grow Transform: NO TRANSFORMATION

Chi-square test for normality: actual and expected frequencies

INTERVAL	<-1.5	-1.5 to <-0.5	-0.5 to 0.5	>0.5 to 1.5	>1.5
	to a second				
EXPECTED OBSERVED	1.608 0	5.808 6	9.168 10	5.808 8	1.608 0

-----

Calculated Chi-Square goodness of fit test statistic = 4.1251 Table Chi-Square value (alpha = 0.01) = 13.277

Data PASS normality test. Continue analysis.

Elkhart 7.24

File: fhm grow Transform: NO TRANSFORMATION

Hartley test for homogeneity of variance

Calculated H statistic (max Var/min Var) = 4.96 Closest, conservative, Table H statistic = 184.0 (alpha = 0.01)

Used for Table H ==> R (# groups) = 6, df (# reps-1) = 3 Actual values ==> R (# groups) = 6, df (# avg reps-1) = 3.00

Data PASS homogeneity test. Continue analysis.

NOTE: This test requires equal replicate sizes. If they are unequal but do not differ greatly, the Hartley test may still be used as an approximate test (average df are used).

Elkhart 7.24

File: fhm grow Transform: NO TRANSFORMATION

#### SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 1 of 2

GRP	IDENTIFICATION	N	MIN	MAX	MEAN
1	control	4	0.350	0.440	0.403
2 3	6,25% 12,5%	4 4	0.400 0.350	0.550 0.460	0.453 0.392
<b>4</b> 5	258 508	4 4	0.330 0.330	0.400 0.420	0.372 0.387
6	100%	4	0.330	0.450	0.383

Elkhart 7.24

File: fhm_grow Transform: NO TRANSFORMATION

#### SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 2 of 2

GRP	IDENTIFICATION	VARIANCE	SD	SEM
1	control	0.002	0.041	0.021
2	6.25%	0.004	0.067	0.033
3	12.5%	0.002	0.048	0.024
4	25%	0.001	0.030	0.015
5	50%	0.002	0.040	0.020
6	100%	0.002	0.050	0.025

Elkhart 7.24

File: fhm grow Transform: NO TRANSFORMATION

#### ANOVA TABLE

SOURCE	DF	SS	MS	F
Between	5	0.016	0.003	1.500
Within (Error)	18	0.040	0.002	
Total	23	0.056		

Critical F value = 2.77 (0.05,5,18) Since F < Critical F FAIL TO REJECT Ho:All groups equal

Elkhart 7.24

File: fhm_grow Transform: NO TRANSFORMATION

	DUNNETTS TEST - TA	BLE 1 OF 2	Ho:Control <treatment< th=""></treatment<>					
GROUP	IDENTIFICATION	TRANSFORMED MEAN	MEAN CALCULATED IN ORIGINAL UNITS	T STAT	SIG			
1 2 3 4	control 6.25% 12.5% 25%	0.403 0.453 0.392 0.372	0.403 0.453 0.392 0.372	-1.581 0.316 0.949	dense bende fresh			
5 6	50% 100%	0.387 0.383	0.387 0.383	0.474 0.632				

Dunnett table value = 2.41 (1 Tailed Value, P=0.05, df=18,5)

Elkhart 7.24

File: fhm_grow Transform: NO TRANSFORMATION

	DUNNETTS TEST -	TABLE 2 OF	2 Ho:	Control <t< th=""><th>reat<b>me</b>nt</th></t<>	reat <b>me</b> nt
GROUP	IDENTIFICATION	NUM OF REPS	Minimum Sig Diff (IN ORIG. UNITS)	% of CONTROL	DIFFERENCE FROM CONTROL
1	control	4			
2	6.25%	4	0.076	18.9	-0.050
3	12.5%	4	0.076	18.9	0.010
4	25%	4	0.076	18.9	0.030
5	50%	4	0.076	18.9	0.015
6	100%	4	0.076	18.9	0.020

Discharger:	Elkhart WWTP	Test Dates:	7/9/24 -7/16/24
Location:	Elkhart, IN	Analysts:	MMB, MN, AF

	(基) - 17.6%	Gregoria.	La Jack	Day		end Tale van de 1988		
Conc: Control	1	2	3	4	5	6	7	Remarks
Temp.	25	25	25	25	25	25	25	
D.O. Initial	9.3	7.9	8.2	١.	801	7.7	76	
Final	6.9	6.9	6.3	6.3	5.8	6.5	7.1	
рн (Initial	8.1	7.8	7.8	7.8	7.9	7.8	7.9	
Final	ר,ר ו	1.6	7.5	7.7	7.5	7,7	7.5	
Alkalinity	40		40		40		277 P	
Hardness	100	1 11	110	1. 结类为实现	110	5		
Conductivity	320	No. 1	320		310			
Chlorine				1 54 CV 544		2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		

	1 4			Day			Jan Maria	
Conc: 6.25%	1	2	3	4	5	6	7	Remarks
Temp.	25	25	25	25	25	25	25	
D.O. Initial	9.3	7.9	8.2	7.7	8.1	7-7	上,士	
Final	6.8	6.9	6.3	6,2	5.7	6.5	7.1	
p <b>H</b> <u>Initial</u> Final	8.0	7.8	7.8	۷.۶	7.8	7.8	7.8	
Final	7.7	7.6	7.5	7.6	75	7.7	75	
Alkalinity		· '				100		
Hardness		1. 1. 1.		1.500 B 415t		7.		
Conductivity	340		340	(	320			
Chlorine				J. 40 J. 40			1 NE	

		1700	- 1 Size \$4.	Janes Commen	Day		elin i demi	어떻게 모두다	
Conc: 1	2.5%	1	2	3	4	5	6	7	Remarks
Temp.		25	25	25	25	25	25	25	
D.O.	Initial	9.4	7.8	8.2	7.8	8.8	7.6	7.8	
	Final	6.7	6.9	6.2	6-1	5.8	6.4	6.8	
рН	Initial	7.9	7.8	7.8	777	77	7.7	7.8	
	Final	7.7	7.7	7.6	7.6	7.5	7,4	7.5	
Alkalinity	g Profes				1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1				
Hardness			1.1					수는 보호	
Conductiv	ity	380		370	- 1	350		5.74	
Chlorine			1.15		1986 P. 15				

Discharger:	Elkhart WWTP	Test Dates:	7/9/24 -7/16/24	
Location:	Elkhart, IN	Analysts:	MMB, MN, AF	

	10 (100 m)			Day			·通過17 17 回答	
Conc: 25%	1	2	3	4	5	6	7	Remarks
Temp,	25	25	25	25	25	25	25	
D.O. Initial	9.6	8.0	8.3	7.9	7.8	7.6	7.9	
Final	6.7	6.9	6.0	5.9	6.0	6.3	6.7	
p <b>H</b> Initial	7.8	7.8	7.7	7.7	7.7	7.7	7.7	
Final	7.8	7.8	הר	7.6	7.6	7.8	7.6	
Alkalinity		i javai				E		
Hardness		A TOP SERVICES				2 25 CH	· [4]	
Conductivity	420		420	5. 7. 35. 34. 3 56. 35.33	400	744,52		<u></u>
Chlorine						4.		

	3 0	- 1 T		Day			in .	1
Conc: 50%	1	2	3	4	5	6	7	Remarks
Temp.	25	25	25	25	25	25	25	Service Distriction of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control o
D.O. Initial	9.8	8.1	8.4	8.1	7.7	7.6	80	
Final	6.7	6.9	5.9	59	6.0	6.2	6.6	
рн <u>Initial</u> Final	8.7	7.8	7.7	7.7	7.5	7.6	7-6	
Final	7.9	7.9	7.7	7.6	7.6	7.9	7.6	
Alkalinity				94 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
Hardness	6	4		EST SE				
Conductivity	530	1 A - 1	550		490			
Chlorine					<b>.</b>	The Table	#5#P	

					Day	3 3 3 4 6 7	11,20		1
Conc: 1009	6	1	2	3	4	5	6	7	Remarks
Temp.		25	25	25	25	25	25	25	
D.O. Ini	tial	10.1	8.7	89	8.1	8,2	8-1	8.2	
Fin	al	6.7	6.9	5.6	6.2	5,8	5.9	6.5	
pH Ini	tial	8.7	7.8	7.6	7.6	7.5	7.5	7.5	
Fin	al	8.1	8.1	7.7	8.8	7.8	7.9	77	
Alkalinity		100	19 装装	90	erzini.	20			
Hardness	i i	725		275	(中国大学)。	275		Special Section	
Conductivity	1.1.	720		740	不可以持續	650		1.0	
Chlorine	- Service	N.A.		170		0.2	1.1		
Ammonia	100	N.D.		ND	The second	1-0	12 (1.34)		

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IN0025674 ELKHART WWTP 005	005-C	CSO- ARCH/BAR, NW OF INTERSECTION	08/31/24 09/28/24	24
IN0025674 ELKHART WWTP 006	D-900	CSO- JACKSON, N OF BRIDGE, W OF ELKHART RIVER	08/31/24 09/28/24	24
IN0025674 ELKHART WWTP 007	007-C	CSO- JACKSON, N OF BRIDGE, E OF ELKHART RIVER	08/31/24 09/28/24	24
IN0025674 ELKHART WWTP 008	D-800	CSO- HUG/EAST BLVD	08/31/24 09/28/24	24
IN0025674 ELKHART WWTP 009	J-600	CSO- NIBCO PRKWY - FKA JR. ACHIEVEMENT (Y DR N)	08/31/24 09/28/24	24
IN0025674 ELKHART WWTP 011	011-C	CSO- ELKHART/FRANKLIN	08/31/24 09/28/24	24
IN0025674 ELKHART WWTP 012	012-C	CSO- CASSOPOLIS/BEARDSLEY	08/31/24 09/28/24	24
IN0025674 ELKHART WWTP 013	013-C	CSO- JOHNSON/BEARDSLEY	08/31/24 09/28/24	24
IN0025674 ELKHART WWTP 014	014-C	CSO- DAM AT CONE/ERWIN	08/31/24 09/28/24	24
IN0025674 ELKHART WWTP 015	015-C	CSO- MICHIGAN/FULTON	08/31/24 09/28/24	24
IN0025674 ELKHART WWTP 016	016-C	CSO- DAN @ GOSHEN/SUPERIOR	08/31/24 09/28/24	24
IN0025674 ELKHART WWTP 017	017-C	CSO- W. BOULEVARD/MCNAUGHTON	08/31/24 09/28/24	24
IN0025674 ELKHART WWTP 018	018-C	CSO- MCNAUGHTON PARK WEST	08/31/24 09/28/24	24
IN0025674 ELKHART WWTP 019	019-C	CSO-MICHIGAN @ RVR, S. OF LEX.	08/31/24 09/28/24	24
IN0025674 ELKHART WWTP 020	020-C	CSO- BRIDGE AND HUDSON	08/31/24 09/28/24	24
IN0025674 ELKHART WWTP 023	023-C	CSO- FRANKLIN/8TH	08/31/24 09/28/24	24
IN0025674 ELKHART WWTP 024	024-C	CSO- INDIANA/FRANKLIN	08/31/24 09/28/24	24
IN0025674 ELKHART WWTP 025	025-C	CSO- POTTAWATOMI/SECOND	08/31/24 09/28/24	24
IN0025674 ELKHART WWTP 026	026-C	CSO- MAIN/POTTAWATOMI	08/31/24 09/28/24	24
IN0025674 ELKHART WWTP 027	027-C	CSO- EDGEWATER/NAVAJO	08/31/24 09/28/24	24
IN0025674 ELKHART WWTP 028	028-C	CSO- WASHINGTON AT RIVER	08/31/24 09/28/24	24
IN0025674 ELKHART WWTP 029	029-C	CSO- JEFFERSON AT THE RIVER	08/31/24 09/28/24	24
IN0025674 ELKHART WWTP 031	031-C	CSO- ELIZABETH/LUSHER	08/31/24 09/28/24	24
IN0025674 ELKHART WWTP 032	032-C	CSO- EDGEWATER/OKEMA	08/31/24 09/28/24	24
IN0025674 ELKHART WWTP 033	033-C	CSO- EVANS/GRACE	08/31/24 09/28/24	24
IN0025674 ELKHART WWTP 034	034-C	CSO- LEXINGTON/6TH	08/31/24 09/28/24	24
IN0025674 ELKHART WWTP 035	035-A	20 MGD CLASS IV ACTIVATED SLUDGE - TO ST JOSEPH RIVER	08/31/24 09/28/24	24
IN0025674 ELKHART WWTP 037	037-C	CSO- FRANKLIN/KRAU	08/31/24 09/28/24	24
IN0025674 ELKHART WWTP 039	039-C	CSO- WEST HIGH AT RIVER	08/31/24 09/28/24	24
IN0025674 ELKHART WWTP 040	040-C	CSO- MCNAUGHTON PARK SOUTH	08/31/24 09/28/24	24
			The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	

NPDES eReporting Help Desk: <u>NPDESeReporting@epa.gov</u> | 877-227-8965 (9:00am - 8:00pm EST) **Contact Us** to ask a question, provide feedback, or report a problem.

Permit

ELKHART WWTP IN0025674 Permit ID: Permittee: **ELKHART WWTP** 

Facility:

035 - External Outfall Permitted Feature:

035-A - 20 MGD CLASS IV ACTIVATED SLUDGE - TO ST JOSEPH RIVER

1201 S NAPPANEE ST ELKHART , IN46516 ELKHART, IN46516 229 SOUTH 2ND ST

Permittee Address:

Major:

Facility Location:

Discharge:

Report Dates & Status

From 08/01/24 to 08/31/24 Monitoring Period:

**NetDMR Validated** Status:

Considerations for Form Completion

THE FLOW METER(S) SHALL BE CALIBRATED AT LEAST ONCE EVERY TWELVE MONTHS. REPORT QUARTERLY PARAMETERS ON 035-AQ NETDMR, MUNICIPAL MAJOR ELKHART COUNTY

09/28/24

DMR Due Date:

Principal Executive Officer

Laura First Name:

Utility Services Manager

Telephone:

Last Name:

574-293-2572

Kolo

No Data Indicator (NODI)

Title:

Form NODI:

:	ı	,	;					•	-	s . I
Code Name		Value 1	Value 2	Units Value 1	Value 2	Value 3	Units	<u>∺</u> ä	Anaiysis	ıype
00300 Oxygen, dissolved [DO] 1 - Effluent Gross	Smpl.			=7.4			19 - mg/L	0	01/01 - Daily	3R - 3GR24H
Season: 0	Req.			>=4.0 DLYAVMIN	,	÷	19 - mg/L		01/01 - Daily	3R - 3GR24H
NODI: -	NODI									
00400 <b>pH</b> 1 - Effluent Gross	Smpl.			=6.8		=8.0	12 - SU	0	01/01 - Daily	GR - GRAB
Season: 0	Req.			>=6.0 DAILY MN		<=9.0 DAILY MX	12 - SU		01/01 - Daily	GR - GRAB
NODI: -	Nobi									
00530 <b>Solids, total</b> suspended 1 - Effluent Gross	Smpl.	=1174.0	=2562.0	26 - lb/d	=9.0	=21.0	19 - mg/L	0	01/01 - Daily	24 - COMP24
Season: 0	Req.	<=7511.0 MO AVG	<=11266.0 MX WK AV	26 - lb/d	<=30.0 MO AVG	<=45.0 MX WK AV	19 - mg/L		01/01 - Daily	24 - COMP24
NODI: -	NoDI									
00600 Nitrogen, total [as N] 1 - Effluent Gross	Smpl.	=2299.0		26 - lb/d	=16.4		19 - mg/L	0	01/30 - Monthly	24 - COMP24
Season: 0	Req.	Req Mon MO AVG		26 - lb/d	Req Mon MO AVG		19 - mg/L		01/30 - Monthly	24 - COMP24
NODI: -	NODI	A de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la consta	-							; ;
00610 Nitrogen, ammonia total [as N] 1 - Effluent Gross	Smpl.	= 8.4	=28.5	26 - lb/d	=0.09	=0.76	19 - mg/L	0	01/01 - Daily	24 - COMP24
Season: 1	Req.	<=1051.0 MO AVG	<=2478.0 DAILY MX	26 - lb/d	<=4.2 MO AVG	<=9.9 DAILY MX	19 - mg/L		01/01 - Daily	24 - COMP24
NODI: -	NODI									
00665 Phosphorus, total [as P] 1 - Effluent Gross	Smpl.	=106.0		26 - lb/d	=0.84		19 - mg/L	0	01/01 - Daily	24 - COMP24
	Req.	Req Mon MO AVG		26 - Ib/d	<=1.0 MO AVG		19 - mg/L		01/01 - Daily	24 - COMP24
NODI: -	NODI									
01079 Silver total recoverable 1 - Fffluent Gross	Smpl.	<0.027	<0.03	26 - lb/d	<0.0002	<0.0002	19 - mg/L	0	01/07 - Weekly	24 - COMP24

Code Name	ř .	Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units	ķď.	Analysis	Type
Season: 0	Req.	<=0.063 MO AVG	<=0.13 DAILY MX	26 - Ib/d		<=0.00038 MO AVG	<=0.00077 DAILY MX	19 - mg/L		01/07 - Weekly	24 - COMP24
NODI: -	NODI										
01079 Silver total recoverable	Smpl.					=0.0006	=0.00067	19 - mg/L	0 0	02/30 - Twice Per	24 - COMP24
G - Raw Sewage Influent Season: 0	it Req.					Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L	2 ; 0 F .		24 - COMP24
NODI: -	NODI									Month	
50050 Flow, in conduit or thru treatment plant	ru Smpl.	=15.443		03 - MGD					0	01/01 - Daily	TM - TOTALZ
1 - Effluent Gross											
Season: 0	Req.	Req Mon MO AVG		03 - MGD					00	01/01 - Daily	TM - TOTALZ
NODI: -	NODI										
51041 E. coli, colony forming units [CFU] 1 - Effluent Gross	Smpl.					=29.0	=185.0	3Z - CFU/100mL	0	01/01 - Daily	GR - GRAB
Season: 1 NODI:-	Req.					<=125.0 MO GEO	<=235.0 DAILY MX	3Z - CFU/100mL		01/01 - Daily	GR - GRAB
71901 Mercury, total recoverable 1 - Effluent Gross						=1.35	=1.03	3M - ng/L	0	01/60 - Once Every 2 Months	GR - GRAB
Season: 0	Req.					<=1.6 ANNL AVG	Reg Mon DAILY MX	3M - ng/L		01/60 - Once Every 2 Months	GRAB
NODI: -	NODI										
71901 Mercury, total recoverable G - Raw Sewage Influent	Smpl.						=85.7	3M - ng/L	0	01/60 - Once Every 2 Months	GR - GRAB
Season: 0	Req.						Req Mon DAILY MX	3M - ng/L	COMZ	01/60 - Once Every 2 Months	GRAB
NODI:	NODI						:				

Code	Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units	of Ex.	Analysis	Туре
80082	BOD, carbonaceous [5 day, 20 C]	Smpl.	<b>Smpl.</b> =341.0	=432.0	26 - Ib/d		=3.0	=4.0	19 - mg/L	0	01/01 - Daily	24 - COMP24
1 - Efflu	1 - Effluent Gross											
Season: 0	0	Req.	<=6259.0 MO AVG	<=10014.0 MX WK AV	26 - lb/d		<=25.0 MO AVG	<=40.0 MX WK AV	19 - mg/L		01/01 - Daily	24 - COMP24
NODI: -		NODI										
<b>X</b> 81012	Phosphorus, total percent removal	Smpl.			11	=73.2			23 - %	Ħ	01/30 - Monthly	CA - CALCTD
K - Perc	K - Percent Removal											
Season: 0	0	Req.			۸	>=75.0 MO AV MN			23 - %		01/30 - Monthly	CA - CALCTD
NODI: -		NODI										
82220	Flow, total	Smpl.		=479.0	- 08		: -			0	01/30 -	RT -
1 - Efflu	1 – Effluent Gross	•			Mgal/mo						Monthly	10 P
Season: 0	0	Req.		Req Mon MO TOTAL	80 - Mgal/mo						01/30 - Monthly	RT - RCOTOT
NODI: -		NODI										

## Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

## Edit Check Errors

	acknowledge	
	Description	Soft The provided sample value is outside the permit limit. Please verify that the value you have provided is correct.
É	i ype	Soft
<u> </u>	ם ב	Quality or Concentration Sample Value 1
Monitoring	Location	nt K - Percent Removal
Parameter	Name	81012 Phosphorus, total percent K - Percent removal
	Code	81012

## Comments

Mercury results are from July - sampled in accordance with NPDES Permit requirements

## **Attachments**

IN0025674_CSO_MRO_2024_08.pdf 955495.0
IN00256/4 035a 2024 08.Ddf 1022246.D

# Report Last Saved By

## ELKHART WWTP

 User:
 Payton88

 Name:
 Laura Kolo

 E-Mail:
 laura.kolo@coei.org

 Date/Time:
 2024-09-26 13:11 (Time Zone:-04:00)

# Report Last Signed By

User: Payton88
Name: Laura Kolo
E-Mail: laura.kolo@coei.org

Date/Time: 2024-09-26 13:12 (Time Zone:-04:00)

NPDES eReporting Help Desk: <u>NPDESeReporting@epa.gov</u> | 877-227-8965 (9:00am - 8:00pm EST) **Contact Us** to ask a question, provide feedback, or report a problem.



### MONTHLY REPORT OF OPERATION ACTIVATED SLUDGE TYPE WASTEWATER TREATMENT PLANT

State Form 10829 (R4 / 01-20)

Name of Facility			Permit Nur	nber			
Elkhart			IN0025	674			
Month	Year	Plant Des	ign Flow	Telephone	e Number		
August	2024	20.00	mgd	5	74/293-	2572	
E-mail address:	laura.kolo@coe	i.org			035	Α	
Certified Operator: N	ame	Class	Certificate	Number	Expiration Date		
Laura E Kolo		1 1/4	150	194	06/3	เก/วกว่า	

,					,					Laura E.	KOIO			IV	150	194	06/3	30/2027
				Total≔			CH	HEMICA	LS									
				2.45				USED			,		RAW	SEWA	GE	T	<del>,</del>	
		Man-Hours at Plant (Plants less than 1 MGD only)	Air Temperature (optional)		. If	Sanitary Sewer Overflow("x" If Occurred)		ay	>-									
_		<u>ğ</u>	offic	S	At Plant Site("x" Occurred)	r ii	lay	Ferric Chloride Lbs/Day or Gal./Day	Gal./Day						≽			
ŧ	Š	1 T	0)	l he	15 G	Sc Sw	s/c	Lb	<u></u>	9.0				) <u>/</u> f	ğ	5		
≥	Š	s a (X	ire	<u>ة</u>	ant	S. F	٩	de .7D		Rat GC			lay	Ĕ	<u> </u>	l E	75	
&	of	ours a ss tha only)	atı	<u>'</u>	At Plant S Occurred)	Α. Ά.	<u>6</u>	lloride Lb: Gal./Day	ō	žΣ		ľ⁄g(	J/Sc	Ś	<u>S</u>	S	mg/l	
Day Of Month	Day of Week	<u>구</u>	bei	Precipitation - Inches	₹ŏ	Sanitary Sewer flow("x" If Occu	Chlorine - Lbs/day	ch or	Lbs/Day	Influent Flow Rate (if metered) MGD		CBOD5 - mg/l	CBOD5 - lbs/day	Susp. Solids - mg/l	Susp. Solids - Ibs/day	Phosphorus - mg/l	Ammonia -	
		lan ints	e.	bit	Bypass/	SS ₽	홋	ric ,	]/s	ete.		D5	D5	<u>်</u>	S	h d	l o	
			Ή	(G.)	χρ	)ve	0	Fer	9	i ii	_	90	<u>8</u>	dsr	dsr	Soc	HL	
			4	<u> </u>	<u>m</u>	0		050			Hd ?			<u> </u>	<u> </u>		45.70	
1	Thu			0.00				250		14.200	7.0	99	11,724	132	15,632	3.20	15.70	
2	Fri			0.69				249		14.550	7.0	113	13,712	132	16,018	2.81 2.67	15.50 16.50	
3	Sat			0.01				225		11.533	7.0	68	6,541	110	10,580			
4	Sun			0.00				243		15.166	7.3	67 95	8,474	82	10,372	1.84 2.58	11.80	
5	Mon			0.09				246 243		13.500 13.125	7.1 6.9	102	10,696	144 132	16,213 14,449	3.16	15.30 17.30	
6 7	Tue			0.02				250		13.125	7.0	86	11,165 9,509	92	10,173	2.85	16.60	
	Wed							250		11,833	7.0	102	10,066	94	9,277	3.22	17.00	
8 9	Thu							225		13.066	7.0	102	11,115	160	17,435	3.45	15.50	
10	Fri							290		12.642	7.0	86	9,067	98	10,333	2.85	14.50	
11	Sat							237		12.300	7.0	76	7,796	80	8,207	2.24	14.00	
12	Sun							225		12.958	7.0	87	9,402	132	14,265	2.73	16.50	
13	Mon							228		12.308	6.9	90	9,238	148	15,192	3.42	17.60	
14	Tue			<b>_</b>				200		12.533	6.9	104	10,871	138	14,424	3.48	18.90	
15	Wed Thu			0.05		***************		228	,	12.650	6.9	122	12,871	152	16,036	3.66	17.80	
16	Fri			0.19				197		12.950	7.0	115	12,420	158	17,064	3.56	17.60	
17	Sat			0.12				243		12.533	7.1	96	10,034	68	7,108	2.83	16.60	
18	Sun		***************************************	0.07				502		12.125	7.1	89	9,000	144	14,562	2,30	14.20	
19						Х		119		13.366	6.8	118	13,154	184	20,511	3.25	15.50	
20	Tue							365		12.020	7.1	119	11,929	142	14,235	3.51	20.90	-
21	Wed							275		11.775	7.0	135	13,257	294	28,872	4.48	20.60	
22	Thu							275		11.900	7.7	92	9,131	136	13,497	3.60	21.70	
23	Fri							319		10.742	7.2	93	8,332	144	12,901	3.63	24.50	
24	Sat							319		11.200	7.0	117	10,929	108	10,088	3,29	22.80	
25	Sun							334		10.575	7.0	122	10,760	110	9,702	2.93	18.80	
26	Mon							319		12.116	7.1	120	12,126	200	20,209	2.98	19.00	
27	Tue			0.99				471		13.083	6.7	122	13,312	156	17,022	3.24	20.60	
28	Wed			0.21				326		14.675	6.9	96	11,749	138	16,890	3.08	18.00	
29	Thu							323		11.467	7.0	86	8,225	94	8,990		21.30	
30	Fri			0.01				300		11.716	7.0	117	11,432	150	14,657	3.50	17.60	
31	Sat							300		10,150	7.0	82	6,941	78	6,603	3.19	15.90	
Aver				0.22				277		12.517		101	10,483	133	13,920	3,12	17.62	
Maxi	mum			0,99				502		15.166	7.7	135	13,712	294	28,872	4.48		
Minir	num			0.01				119		10.150	6.7	67	6541	68	6603	1.84	11.80	OTO-001-001-00-00-00-00-00-00-00-00-00-00-0
# of			0		0		0		0	31	31	31	31	31	31	31	31	0
		tify under								Prepared by	or under	the direction	on of (Certifie	d Operato		Date (mo	onth, day,	year)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Date (month, day, year)

Laura #10

Data (manth day yard)

Signature of principal executive officer or authorized agent (or attested by NetDMR subscriber agreement)

9/26/24

### MONTHLY REPORT OF OPERATION ACTIVATED SLUDGE TYPE WASTEWATER TREATMENT PLANT

State Form 10829 (R4 / 01-20)				
Name of Facility	Permit Number	Month	Year	
Elkhart	IN0025674	August	2024	
				П

	PRIMAR	RY			AE	RATIO	N		***************************************	SECON	DARY					- NIT		
1	EFFLUE		MIXED LI	QUOR				RETURN S	LUDGE	EFFLU	ENT		<u> </u>	INAL	EFFLUE	:NI		· · · · · · · · · · · · · · · · · · ·
Day Of Month	CBOD5 - mg/l	Susp. Solids - mg/l	Settleable Solids % in 30 minutes	Susp. Solids - mg/l	Sludge Vol. Index - ml/gm	Dissolved Oxygen - mg/l	Temperature - F	Volume - MG	Susp. Solids - mg/l	CBOD5 - mg/l	Susp. Solids - mg/l	Residual Chlorine - Final	Residual Chlorine - Contact Tank	E. Coli - colony/100 ml	pH - daily low (or single sample)	pH - daily high (if multiple samples)	Dissolved Oxygen - mg/l	Oil & Grease (mg/l)
1	63	52	170	2,808	61	4.5	20	6.487	6,320					20	7.0		8.2	
2	70	76	170	2,600	65	4.0	20	6.487	6,080					22	7.0		8.1	
3	55	51	180	2,852	63	3.8	21	6.487	6,300					14	7.0		7.9	
4	54	39	170	3,220	53	4.2	20	6.487	6,900					11	7.1		8.3	
5	59	55	174	2,888	60	4.2	20	6.487	5,560					16	7.2		8.0	
6	72	51	169	2,700	63	3.9	20	6.487	5,940					18	7.1		8.1	
7	62	45	163	2,416	68	4.7	20	6.487	7,360					13	6.8		8.2	
8	73	43	160	2,312	69	4.0	20	6.487	5,140					19	6.8		8.0	
9	65	56	207	3,104	67	4.0	20	6.487	7,160					17	7.0		8.0	
10	50 60	45 47	207	3,228	64 67	4.2	20	6.487	6,700				-	17	6.9		9.0	
12	62	53	210 194	3,156 3,268	59	4.2 4.4	20 20	6.487 6.487	7,000 6,960					28 13	7.7		8.3 8.4	
13	60	49	198	2,800	71	3.7	20	6.487	6,980					30	8.0		8.0	
14	75	52	192	3,008	64	3.4	20	6.487	6,220					30	7.0		7.9	
15	82	68	193	3,028	64	4.5	20	6.487	6,600					37	7.0		8.0	
16	83	90	198	3,008	66	4.1	20	6.478	6,760					47	7.7		7.8	
17	71	54	203	2,880	70	4.0	20	6.487	6,400					88	7.0		8.0	
18	68	50	207	3,064	68	4.3	20	6.487	7,020					91	7.4		8.0	
19	86	54	182	3,160	58	3.1	20	6.487	6,360					63	7.6		7.7	
20	78	57	193	3,020	64	2.7	20	6.487	5,020					99	7.6		7.9	
21	86	86	188	2,720	69	4.0	20	6.487	6,300					185	7.5		8.1	
22	70	53	182	2,768	66	4.1	20	6.487	6,220					101	7.5		8.1	
23	66	54	179	2,948	61	4.2	20	6.487	6,460					36	7.6		8.0	
24	76	50	175	2,628	67	4.4	20	6.487	5,700					58	7.5		7.7	
25	88	62	179	2,768	65	4.0	21	6.487	5,980					115	7.6		7.6	
26	62	63	180	2,688	67	4.3	21	6.487	6,080	***************************************				33	7.6		8.1	
27	73	64	171	2,484	69	3.7	21	6.487	5,600					15	7.9		7.9	
28	74	60	150	2,604	58	3.6	22	6.487	6,420				1	14	7.0		7.4	
29	69	72	178	2,736	65	3.4	21	6.487	5,700					14	7.0		7.8	
30	82	66	182	2,852	64	4.0	21	6.487	6,080					23	7.0		7.9	
31	64	63	187	2,836	66	4.40	21	6.487	6,280					8	7.0		7.9	
Avg.	70 88	57 90	184 210	2,857 3,268	64 71	4.0 4.7	20 22	6.487 6.487	6,310 7,360					42 185		0.0	8.0 9.0	
Max Min.	50	39	150	2312	53	2.7	20	6.487	5020					8		8.0 6.80	7.4	
	Max	JJ	130	2012	- 00	۷.1	20	0.470	J020					185		0.00	1,4	
		ove 235	1											0				
Data	31		31	31	31	31	31	31	31	0	0	1	О	31	31	0	31	0

Comments for the Month (major repairs, breakdowns, process upsets and their causes, inplant treatment process bypass, etc.):

#### MONTHLY REPORT OF OPERATION ACTIVATED SLUDGE TYPE WASTEWATER TREATMENT PLANT

State Form 10829 (R4 / 01-20)			
Name of Facility	Permit Number	Month	Year
		,,,,,,,,,	
Elkhart	IN0025674	August	2024
	1140023074	August	2027

							FI	NAL EF	FLUENT	-				·	<del></del>		
	Ì	Flow		BOD					uspende			Ammor	nia	***************************************		Phosph	iorus
Day Of Month	Day of Week	Effluent Flow Rate (MGD)	Effluent Flow Weekly Average	CBOD5 - mg/l	CBOD5 - mg/l Weekly Average	CBOD5 - lbs/day	CBOD5 - lbs/day Weekly Average	Susp. Solids - mg/l	Susp. Solids - mg/l Weekly Average	Susp. Solids - lbs/day	Susp. Solids - Ibs/day Weekly Average	Ammonia - mg/l	Ammonia - mg/l Weekly Average	Ammonia - Ibs/day	Ammonia - Ibs/day Weekly Average	Phosphorus - mg/l	Phosphorus - Ibs/day
	Thu	17.311		2		289		3		448		0.04		5.8		0.59	85
2	Fri	19.810		2		330		4		694		0.10		16.5		0.65	107
3	Sat	14.742		2		246		3		332		0.03		3.7		0.71	87
4	Sun	17.347		2		289		2		318		0.05		7.2		0.68	98
5	Mon	16.809		2		280		3		407		0.06		8.4		0,56	79
6	Tue	16.530		2		276		3		469		0.05		6.9		0.74	102
7	Wed	16.439		2		274		3		452		0.04		5.5		0.70	96
ام ا	Thu	15.885		2		265		5		623		0.17		22.5		0.73	97
_	Fri	16.280		2		272		4		557		0.04		5.4		0.70	95
10		15.203	16.356	2	2.00	254	273	4	3.46	456	469	0.04	0.06	5.1	9	0.83	105
انددا	Sun	15.155		2		253		4		468		0.04		5.1		0.85	107
12		16.108		2		269		5		685		0.03		4.0		0.80	107
	Tue	15.779		2		263		7		947		0.05		6.6		0.78	103
14	Wed	15.688		3		393		8		994		0.03		3.9		0.75	98
15	Thu	15.212		2		254		10		1,319		0.05		6.3		0.72	91
16	Fri	15,977		3		400		11		1,439		0.04		5.3		0.82	109
17	Sat	14.598	15.502	3	2.43	365	314	12	8.11	1,461	1,045	0.03	0.04	3.7	5	0.76	93
18	Sun	14.377		2		240		13		1,535		0,06		7.2		0.87	104
19	Mon	15,189		3		380		19		2,432		0.08		10.1		1.00	127
20	Tue	14.968		5		624		25		3,096		0.08		10.0		1.12	140
21	Wed	15.021		3		376		18		2,255		0.07		8.8		1.20	150
22	Thu	14.539		4		485		22		2,619		0,10		12.1		1.32	160
23	Fri	14.200		4		474		28		3,316		0.05		5.9		1.33	158
24	Sat	13.405	14.528	4	3.57	447	432	24	21.20	2,683	2,562	0.03	0.07	3.4	8	1.35	151
25	Sun	13.349		4		445		18		2,004		0.06		6.7		1.32	147
26	Mon	14.611		3		366		11		1,389		0.08		9.7		0.94	115
27	Tue	18.110		3		453		7		1,118		0.12		18.1		0.74	112
28	Wed	16.288		3		408		5		734		0.21		28.5		0.53	72
29	Thu	13.793		3		345		4		426		0.05		5.8		0.49	56
30	Fri	13.549		3		339		3		373		0.03		3.4		0.57	64
31		12.469	14.596	2	3.00	208	366	3	7.49	333	911	0.76	0.09	7.3	11	0.76	79
Avg		15.443		3		341		9		1,174		0.09		8.4		0.84	106
Max		19.810	16.356	5	3.57	624	432	28	21.20	3,316	2,562	0.76	0.09	28.5	11	1.4	160
Min		12.469	14.528	2	2.00	208	273	2	3.46	318	469	0.03	0.04	3.4	5	0.5	56
Data		31	4	31	4	31	4	31	4	31	4	31	4	31	4	31	31

	MONTHLY RE	MOVAL SUMI	WARY		Total Monthly Flow:	
Percent Removal	BOD5	S.S.	Ammonia	Phosphorus	(million gallons) 4	479
Primary Treatment	30.79	56.9	4.50			
	NA	NA			Percent Capacity	
Secondary Treatment	96.2	83.7			(actual flow/design) 7	7%
Overall Treatment	97.34	93.0	99.5	73.2		
Phosphorus limit would be	75	% removal.	(compliance r	not achieved)		

Page 3 of 6

#### MONTHLY REPORT OF OPERATION ACTIVATED SLUDGE TYPE WASTEWATER TREATMENT PLANT

State Form 10829 (R	4 / 01-20)		
	Permit Number	Month	Year
Elkhart	IN0025674	August	2024

	SLUDG					DIG	ESTER	OPERAT	ION	Γ	I	T		
	DIGEST	EK	Anaero	bic Only										
Day Of Month	Primary SludgeGal. x 100	Waste Act. Sludge Gal. x 1000	Hd	Gas Production Cubic Ft. x 1000	Temperature - F	Supernatant Withdrawn hrs. or Gal. x 1000	Supernatant BOD5 mg/l or NH3-N mg/l	Total Solids in Incoming Sludge - %	Total Solids in Digested Sludge - %	Volatile Solids in Incoming Sludge - %	Volatile Solids in Digested Sludge - %	Digested Sludge Withdrawn hrs. or Gal. x 1000		
1	36.38	168.48	7.3		100			4.76	2.23	69.00	57.72	92.99		
2	39.20	168.48	7.4		101			3.30	2.28	72.65	57.72			
3	31.89	168.48	7.3		100			4.61	2.33	72.13	56.46			
4	29.38	168.48	7.2		101			4.39	2.30	76.87	57.86			
5	23.75	168.48	7.2		100	28.296		3.95	2.24	79.05	57.33	82.64		
6	15.98	168.48	7.2		102	14.148		5.29	2.17	71.90	56.76	83.41		
7	25.58	168.48	7.3		102	3.537		4.02	2.19	79.10	56.62	52.41		ļ
8	33.34	168,48	7.3		101	7.074		3,38	2.06	76,50	55.97	83.10		
9	30.84	168.48	7.2		101			5.33	2.17	71.27	55,56			
10	26.78	168.48	7.2		99			6.36	2.11	69.58	56,16			
11	17.92	168.48	7.2		101	21.000		5.03	2.08	78.72	58.33			
12	31.32	167.04	7.2		101	10.611		3.94	2.11	79.86	57.04	82.02		
13	38.74	168.48	7.2		101	7.074		2.97	2.07	77.67	56.86	123.80		
14	33.88	168.48	7.3		101			4.80	2.06	67,14	57.23	123.39		
15	38.00	167.04	7.3		101			3.65	2.07	70.59	57.38	17.66		
16	39.43	168.48	7.2		101	3.537		4.03	2.07	74.35	56.56			
17	32.47	168.48	7.2		101	7.074		3.88	2.07	74.80	56,93			
18	21.85	168.48	7.3		100			3.66	2.10	77.73	53.73			
19	29.55	168.48	7.3		101			3,86	2.08	81.01	56.74	123.94		
20	28.04	168.48	7.3		99	7.074		4.18	2.08	77.95	57.14	124.08		
21	36.38	168.48	7.2		100			3.84	2.03	76.68	57.81	82.27		
22	38.94	162.72	7.3		101	7.074		4.03	2.04	69,12	57.33	122.99		
23	42.44	168.48	7.3		100			3.70	2.05	74.59	58.02			
24	39.47	168.48	7.3		100			3,22	2.07	71.65	56.20			
25	39.44	168.48	7.2		101	17.685		3,38	2.07	77.74	57.60			
26	20.72	168.48	7.2		101			4.32	2.14	79.06	59.18	115.69		
27	19.69	136.80	7.2		101	3.537		4.30	2.17	74.38	56.15	82.13		
28	38.90	129.60	7.1		101	3.537		4.44	2.24	71.27	56.05	81.43		
29	40.98	129.60	7.1		101			4.48	2.23	68.81	56.29	104.91		
	38.96		7.2		101			3.91	2.29	70.48	58.39			
31	48.12	129.60	7.2		101			3.70	2.06	67.21	55.66			
Avg.	32.53	162.16			101	10.090		4.15	2.14	74.16	56.93	92.88		
Max.	48.12	168.48	7.4		102	28.296		6.36	2.33	81.01	59.18	124.08		
Min.	15.98	129.60	7.1		99	3.537		2.97	2.03	67.14	53.73	17.66		
Data	31	31	31	0	31	14	0	31	31	31	31	17	0	0

Once completed, this form should be converted to a pdf document, named appropriately & attached to the corresponding netDMR for submittal

#### MONTHLY REPORT OF OPERATION ACTIVATED SLUDGE TYPE WASTEWATER TREATMENT PLANT

State For Name of F	rm 10829 (F Facility	R4 / 01-20) Permit Numb	er	Month		Year		]								
Elkhart		IN00256	674	Aug	ust	20.	24									
		Sub	stitute for	State Form		I										
			Effluent			1										
	Chlo	oride	Total N	Vitrogen	1											
Day Of Month	Chloride - mg/l	Chloride - lbs/day	Total Nitrogen- mg/l	Total Nitrogen- lbs/day	Ag - Influent mg/l	Ag - Effluent mg/L	Cd - Influent mg/L	Cd - Effluent mg/L	CN - Influent mg/L	CN - Effluent mg/L	Cr - Influent mg/L	Cr - Effluent mg/L	Cu - Influent mg/L	Cu - Effluent mg/L	Hg - Influent ng/L	Hg - Effluent ng/L
1 2																
3																
4																
5	,		16.40	2,299												
6					0.0006	0.0002										
7																
8 9					1											
10	172	21,808														
11		21,000														
12																
13					0.0006	0.0002							***************************************			
14																
15																
16 17							***************************************									
18																
19																
20					0.0007	0.0002										
21																
22																
23 24			***************************************							***************************************						
25									***************************************							
26																
27					0.0003	0.0002										
28																
29																
30 31							***************************************			***************************************						
Avg.	172	21,808	16.40	2,299	0.0006	0.0002										
Max.	172	21,808	10.10		0.0007											
Min.	172	21,808	16.40	2299		0.0002	.,				***************************************					
18.5				10 0		4					Labert W. S			0		
Data	1	1	1	1	4	4	0	0	0	0	0	0	0	U	0	

#### WASTEWATER TREATMENT PLANT

Note	ate Form ame of Fac	10829 ility	(R4 / 01-20 Permit Numb	) oer	Month		Year	
Substitute for State Form 30530  Ni - Effluent mg/L  Ni - Influent mg/L  Ni - Effluent mg/L  Zu - Influent mg/L  Zu - Effluent mg/L	lkhart		IN00256			gust	20	24
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	Avg. Max							
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	Data	0	0		0	n	0	<u> </u>



## National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	Elkhart	INDIANA D			Page	1 of	9		p	em	nit Number:	IN	0025574						
Facility:	Elkhart P	ublic Wor	ks & Utilities	s							1	Public No	tific	ation Requ	iren	nents Met?	Υ		
Monitor	ing Period	:	August	2024							E	nter "x" i	fno	CSO disch	arg	e occurred	for	the month	
Design I	Peak Hour	ly Flow (N	1GD):	44	Design Av	erage Flow	(MGD):	20		Measured/	Met	ered (M)	or E	stimated (E	) m	ust be spe	cifie	d	
WWT	⊃ Influent	Data		Pr	ecipitation I	Data			С	SO Outfall	No.	005		No. 15 Const.	С	SO Outfall	No.	006	(100)
Day of Month	Average Dally Flow (MGD)	Peak Hourly Flow (MGD)	Time Precip. Began (am/pm)	Precip. Duration (Hours)	Total Daily Precip. (Inches)	Peak Intensity (Inch/hr)	Measureme nt Interval (hr, 30 m, 15 m)	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharg e (MG)	M or E	Discharge	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	e M
1	14.20	15.20					15 min										Π		
2	14.55	31.20	2:41 AM	17.25	0.69	2.08	15 min							4:18 PM	М	0.33	м	0.0303	м
3	11.53	13.90	1:04 AM	6,95	0.01	0,04	15 min				Γ				********	OATA - OF	FLI	۷E	
4	15.17	15,50					15 min										Π		
5	13.50	15.10	9;56 AM	1,05	0,09	0,16	15 mln												
6	13.13	14.90	4:26 AM	10.80	0,02	0.04	15 min												
7	13.26	15.30		1	··-		15 min								Г		T		
8	11.83	14.20					15 min		T		Ī	<u> </u>	<u> </u>				T		T
9	13.07	14.10					15 min										T		<b>†</b>
10	12.64	13,60					15 min												$\top$
11	12.30	13.80					15 min										T		$\top$
12	12.96	14.20					15 min												T
13	12.31	14.20					15 min												+
14	12.53	13.60					15 min										-		+
15	12.65	13.80	10:46 AM	9,33	0.05	0.04	15 min						$\vdash$				<u> </u>		+
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17	12.95	15.10	5:51 AM	18.22	0.19	0.24	15 min		-		-		-		_				+
18	12.53	14.40	3:31 AM	12.75	0,12	0.44	15 min							<u> </u>	_	, , ,			+
19	12.13	13,60	10;51 AM	4.80	0,07	0.12	15 min								-				+
20	13.37	13.20					15 mln		-		H		H		$\vdash$				+
21	12.02	13.40					15 min				-		-		$\vdash$		$\vdash$		+
22	11.78	15.00					15 min		-		-		-		-		$\vdash$		+
23	11.90	14.50					15 min		-		-		-		-		+		+
24	10.74	12,90					15 min		$\vdash$		-		-		-		$\vdash$		+
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26	12.12	13.30					15 min		_		_		H		_		$\vdash$		+-
27	13.08	23,20	5:01 PM	7.05	0.99	1.44	15 min		_		_				-		-		+
28	14.68	33.10	12:01 AM	7.38	0.21	0.16	15 min		_		_		_		<u> </u>		_		+
29	11.47	12.40					15 min				L		_		L		-		$\perp$
30	11.72	13.70	6:34 PM	0.08	0.01	0.04	15 min								L.,		-		$\perp$
31	10,15	11,60		ESTERNOS ROSS		Managara and	15 min			spanish as well-dele		24330 S45*	1000						1
Totals:	388.02			95,66	2.45			0	Da ys	0.00		0		1	Da ys	0.33		0.0303	



#### National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15)

City:	Elkhart												Page 2	of	9			Perr	nit Number:	IN	0025574			
Facility.	Elkhart P	ubli	c Works	& L	Itilities									F	ublic No	tific	ation Requ	irer	nents Met?	Υ				
Monitor	ing Period		Aug	just	2024										En	ter	"x" if no 0	csc	) discharg	9 00	curred f	or th	e month:	
Design	Peak Flow	(Ho	urly) (MG	D):	44		Design Fl	ow	(MGD):		20		Measured/	Met	ered (M)	or E	stimated (I	E) m	iust be spec	ifie	d			
		cs	O Outfall	No.	007			cs	O Outfall	No.	800			cs	O Outfall	No.	009			C	SO Outfal	l No.	011	
Day of Month	Time Discharge Began	M of E	Event Duration (Hours)	M or E		M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	± o ∈	Event Duration (Hours)		Event Discharge (MG)	M or E	Discharge	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M
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2	4:22 PM	м	4.83	м	0.8314	М	4:15 PM	м	0.17	м	0.0033	м	4:25 PM	М	4.50	м	0.1907	м	4:15 PM	м	0.25	М	0.0224	м
3	12:00 AM			М	1.9933	T							12:00 AM			1	f	м						
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#### National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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	ing Period:	3000	Aug	100									ATA SA GARAGA			100			) discharg			or th	ne month	<u>;:</u>
Design	Peak Flow (				44	1986	Design Fl				20	110	100000000000000000000000000000000000000					(E)	must be sp 					1988
		CSC	Outfall I	No.	012	18.8		CS	O Outfall	No.	013	1000		CS	Outfall	No.	14B	Ties		C	SO Outfa	l No.	015	<u>ः।</u> जास
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E		M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E		M or E	Event Discharge (MG)	M or E	Discharge	M or E	Duration		Event Discharg (MG)	e o
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#### National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50548 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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#### National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) ENT OF ENVIRONMENTAL MANAGEMENT

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Totals:

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#### National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R4 / 9-15)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT Permit Number: IN0025574 Page 8 of 9 Facility: Elkhart Public Works & Utilities Public Notification Requirements Met? Y Monitoring Period: August Enter "x" if no CSO discharge occurred for the month: Design Flow (MGD): 44 20 Measured/Metered (M) or Estimated (E) must be specified Design Peak Flow (Hourly) (MGD): CSO Outfall No. CSO Outfall No. CSO Outfall No. 037 039 040 CSO Outfall No. Time Event Event Time Event Event Time Event Event M or E Time Event Event Discharge Discharge Day of Month Discharge Began Discharge or E Discharge Duration or E Discharge or Duration E (Hours) Duration Discharge (MG) Duration Discharge Duration М (Hours) (MG) Began Began (Hours) (MG) Began (Hours) 1 2 4:32 PM M 0.92 M 0.4070 M 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

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### National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	Elkhart	TO 100 100 100 100 100 100 100 100 100 10	Page: 9 of 9	Permit Number: IN0025574
Facility	: Elkhart Public Works & Utilities		Public Notific	cation Requirements Met? Y
Monito	ring Period: August 2024		Enter "x" if no	CSO discharge occurred for the month:
Desian	Peak Hourly Flow (MGD): 44	Design Average Flow (MGD): 20		
Day of Month	Comments (further explanation as	to why each CSO event occurred)		
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3	precipitation			
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	1 17 17 1	o, Utilities Services Manager		574-293-2572

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I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRE	CTION OR SUPERVISION IN ACCORDANCE
WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORM	ATION SUBMITTED. BASED ON MY
INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING	THE INFORMATION; THE INFORMATION
SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT	THERE ARE SIGNIFICANT PENALTIES FOR
SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATION	IS.
Signature d Principal Executive Officer or Authorized Agent	Date (mm/dd/yy)
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### **BYPASS / OVERFLOW INCIDENT REPORT**

State Form 48373 (R7 / 4-16) Indiana Department of Environmental Management Office of Water Quality

☐ Follow-up to Bypass report
previously sent on:

INSTRUCTIONS:

Complete all parts of this form and email signed copies to wwweports@idem.IN.gov. Submittal of this report will satisfy the Office of Water Quality (OWQ) telephone and written bypass/overflow reporting requirements of your NPDES permit. Please use and the second page of this form as necessary to identify separate locations caused by the same event. If you have any questions while filling out the report form, please contact Renee Repar at (317) 232-6770 or repar@idem.in.gov.

To report a spill or if the release is resulting in a fish kill or other severe environmental damage, immediately report the release to the Emergency Response Section spill response line at: (317) 233-7745 or toll free within Indiana at (888) 233-7745.

Continued Sever Corribor   Construction Related   Construction   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related   Construction Related Related Related Related Related Related Related Related Related Related Related Related Related Related Related Related Related Related Related Related Related Related Related Related Related Related Related Related Related Related Related Related Related Related Related Related Related Related Related Related Related Relat	response oct	зиот врш тевропае	iiio at.	(011) 2	00-11-0 01 (0	ii ii cc witi i	iii iiididila at (c		J.				
Elkhart Public Works  1201 S. Nappanee Street  RELASE INFORMATION (Location 1)  Release Bigins   (6) Date (mm/dd/yr) and Time   (7) Date (mm/dd/yr) and Time   (7) Date (mm/dd/yr) and Time   (8) Location of Release (streets address or (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep Min Sec)   (Dep													4 4 1 4 1 1 1
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(11) WNTP Fibro During Released (Always provide a volume.) (11) WNTP Fibro During Release (12) WNTP Peak Design Flow Rate Check one:   Stimated   Actual   unknown   State   Actual   unknown   State   Actual   unknown   State   Actual   unknown   State   Actual   unknown   State   Actual   unknown   State   Actual   unknown   State   Actual   Unknown   State   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   Actual   A				Rele									
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(14) Describe any damage to aquatic life or receiving stream:			. '					, ,	-	Release	' '	U	Flow Rate
Sanitary Sewer Overflow   Treatment Bypass (at wastewater plant)   Prohibited Combined Sewer Overflow   Dry Weather Combined Sewer Overflow   Dry Weather Combined Sewer Overflow   Dry Weather Combined Sewer Overflow   Dry Weather Combined Sewer Overflow   Dry Weather Combined Sewer Overflow   Dry Weather Combined Sewer Overflow   Dry Weather Combined Sewer Overflow   Dry Weather Combined Sewer Overflow   Dry Weather Combined Sewer Overflow   Dry Weather Combined Sewer Overflow   Dry Weather Combined Sewer Overflow   Dry Weather Combined Sewer Overflow   Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Weather Dry Wea			Actual				anu damaga t			a atraom		D	
Construction Related   Power Failture   Equipment Failture   Unknown   Exceeded Max Capacity   Precipitation   Inches (16) System Component(s) (26) Actions Taken to Prevent, Minimize, or Miligate Damage including Clean-up and Treatment of Affected Area (20) Actions Taken to Prevent, Minimize, or Miligate Damage including Clean-up and Treatment of Affected Area (20) Actions Taken to Prevent, Minimize, or Miligate Damage including Clean-up and Treatment of Affected Area (20) Actions Taken to Prevent, Minimize, or Miligate Damage including Clean-up and Treatment of Affected Area (20) Actions Taken to Prevent, Minimize, or Miligate Damage including Clean-up and Treatment of Affected Area (20) Actions Taken to Prevent, Minimize, or Miligate Damage including Clean-up and Treatment of Affected Area (20) Actions Taken to Prevent, Minimize, or Miligate Damage including Clean-up and Treatment of Affected Area (20) Actions Taken to Prevent, Minimize, or Miligate Damage including Clean-up and Treatment of Affected Area (20) Actions Taken to Prevent, Minimize, or Miligate Damage including Clean-up and Treatment of Affected Area (20) Actions Taken to Prevent, Minimize, or Miligate Damage including Clean-up and Treatment of Affected Area (20) Actions Taken to Prevent Area (20) Actions Taken to Prevent Area (20) Actions Taken to Prevent Recurrence Will send information to neighborhood on proper grease disposal	☐ Sanitary Son Treatment☐ Prohibited☐ Dry Weath☐ Combined	ewer Overflow Bypass <i>(at wastev</i> Combined Sewer C er Combined Sewe Sewer System Rel	Overflow or Overfl ease	low	no		any damage to	o aquatic me	or receivin	g stream			
(16) System Component(s) (Select one or more.)   Manhole		• •							1 184	O			11
Crews called out at 9:00 am. Found sewer main partially plugged   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all that apply.   Check all													
grease and rags  (19) Additional organizations notified by facility, if necessary (Select one or more.)    DNR Fish and Wildlife   Local Emergency Management   Other:	Select one or  Manhole  House Late Pipe Failur  Pump Stat  Treatment  Other  Influent Str	more.) eral e ion Failure Bypassed ructure /alve		crews ca	alled out at 9:0	odon of the	e bypass / Ovel	mow Event: in partially plu	ugged ((	Check all Affected Baseme Occurre Reache Reache	that apply.) I Private Propert I Backup I Treatmen I Public Land I Receiving W	erty nt Plant Vater	
(19) Additional organizations notified by facility, if necessary (Select one or more.)    IDEM Emergency Response	Describe Othe	er: (in the box belov	v)										
DNR Fish and Wildlife   Local Emergency Management   Other:													
(20) Actions Taken to Prevent, Minimize, or Mitigate Damage including Clean-up and Treatment of Affected Area (Select one or more of the following, then add a written description.)   Removed Blockage   Repaired Pipe   Repaired Pump Station   Other   Lime   Clean-Up Debris crews sent to clear obstruction of grease and rags  (21) Resolution: Actions Taken or Planned to Prevent Recurrence Will send information to neighborhood on proper grease disposal  (22)  CERTIFICATION AND SIGNATURE  I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and		_	-	-			•		mergency	Manage	ment 🗖 Oth	or:	
(20) Actions Taken to Prevent, Minimize, or Mitigate Damage including Clean-up and Treatment of Affected Area (Select one or more of the following, then add a written description.)  Removed Blockage Repaired Pipe Repaired Pump Station Other Lime Clean-Up Debris crews sent to clear obstruction of grease and rags  (21) Resolution: Actions Taken or Planned to Prevent Recurrence Will send information to neighborhood on proper grease disposal  (22)  CERTIFICATION AND SIGNATURE  I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information, submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and	T IDEM EINE	igency Response	Ппе	saili Deļ	Ji		sii ailu vviiuilie	Local	Incigency	wanaye	illetit La Otti	CI.	,
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imprisonment for knowing violations. (The area below is for a handwritten signature or an electronic substitute then fax or scan to PDF for emailing.)	designed to as manage the sy belief, true, ac	ssure that qualified ystem, or those per curate, and comple	personr sons dir ete. I an	nel prope rectly res n aware	and all attachr erly gather an sponsible for o that there are	nents were d evaluate gathering t e significan	e prepared und the information he information t penalties for	er my direction submitted.  The informate submitting fal	Based on ion submit se informa	my inquio ted is, to ition, incli	y of the perso the best of my uding the poss	n or perso knowledg ibility of fir	ens who ge and ne and
SIGNATURE: DATE (month, day, year): 08/20/24	SIGNATURE:	la	M	a	KJU	>				DATE (	month, day, ye	<i>∍ar)</i> :_08/2	20/24
Individual Making Report (printed)  Laura Kolo  Telephone Number (574) 293-2572  Contact Email  Laura.kolo@coei.org  Date (month, day, year) / Time IDEM Notified 1 AM 08/20/24 appx 6:45								pei.org		nth, day, y	<i>ear) /</i> Time IDEN	/I Notified	[∡] AM

#### Kolo, Laura

From:

postmaster@state.in.us

Sent:

Tuesday, August 20, 2024 6:37 AM

To:

Kolo, Laura

Subject:

EXTERNAL: Relayed: IN0025674_INC_RPT_08_1

**Attachments:** 

EXTERNAL: Relayed: IN0025674_INC_RPT_08_1

Caution: This email originated from outside of the organization. Please take care when clicking links or opening attachments. When in doubt, contact your IT Department



Date

Oct 24, 2024

Memo To

Board of Public Works

Memo From

Laura Kolo, Utility Services Manager

Subject

Wastewater Utility Monthly Report of Operations

for the month of September, 2024

#### Wastewater MRO Highlights

Parameter	Monthly Avg	Permit Limit
Suspended Solids mg/L	11	30
cBOD5 mg/L	3	25
Phosphorus mg/L	0.92	1.0
Ammonia mg/L	0.13	4.4 (Dec-Apr) 4.2 (May-Nov)
Avg Daily Flow MGD	13.45	Design - 20
Total Monthly Flow MGD	403	Report

#### Incident Reports Filed

Date	Location	Volume (gal)	Cause
9-8-24	1518 Johnson	240	grease/rags

#### Wet Weather Overflows

Number of Events	Total Overlfow Volume (MG)
2	1.2051

Code	1	Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units	ĔĞ	Analysis	Type
00300 Oxygen, dissolved [DO]	Smpl.			=7.7				19 - mg/L	. 0	01/01 -	3R - 2000
1 - Effluent Gross										Cally	3GK24FI
Season: 0	Req.			>=4.	>=4.0 DLYAVMIN			19 - mg/L		01/01 - Daily	3R - 3GR24H
NODI: -	NoDI										
00400 <b>pH</b> 1 - Effluent Gross	Smpl.			=7.0	_		=7.8	12 - SU	0	01/01 - Daily	GR - GRAB
Season: 0	Req.			·9=	>=6.0 DAILY MN		<=9.0 DAILY MX	12 - SU	: :	01/01 - Daily	GR - GRAB
NODI: -	NODI										
00530 <b>Solids, total</b> suspended 1 - Effluent Gross	Smpl.	=1232.0	=2397.0	26 - Ib/d		=11.0	=23.0	19 - mg/L	0	01/01 - Daily	24 - COMP24
Season: 0	Req.	<=7511.0 MO AVG	<=11266.0 MX WK AV	26 - Ib/d		<=30.0 MO AVG	<=45.0 MX WK AV	19 - mg/L		01/01 - Daily	24 - COMP24
NODI: -	NODI										
00600 <b>Nitrogen, total</b> [as N]  1 - Effluent Gross	Smpl.	=2201.0	:	26 - lb/d	: : : :	=19.5		19 - mg/L	0	01/30 - Monthly	24 - COMP24
Season: 0	Req.	Reg Mon MO AVG		26 - Ib/d		Req Mon MO AVG		19 - mg/L		01/30 - Monthly	24 - COMP24
NODI: -	NODI								•		
00610 Nitrogen, ammonia total [as N] 1 - Effluent Gross	Smpl.	=15.6	=94.6	26 - lb/d		=0.13	=0.82	19 - mg/L	0	01/01 - Daily	24 - COMP24
Season: 1	Req.	<=1051.0 MO AVG	<=2478.0 DAILY MX	26 - lb/d		<=4.2 MO AVG	<=9.9 DAILY MX	19 - mg/L		01/01 - Daily	24 - COMP24
NODI: -	NODI										
00665 Phosphorus, total [as P] 1 - Effluent Gross	Smpl.	=102.0	:	26 - Ib/d		=0.92		19 - mg/L	0	01/01 - Daily	24 - COMP24
Season: 0	Req.	Req Mon MO AVG		26 - lb/d		<=1.0 MO AVG		19 - mg/L		01/01 - Daily	24 - COMP24
NODI: -	NODI										:
01079 Silver total recoverable 1 - Fffluent Gross	Smpl.	<b>Smpl.</b> <0.021	<0.03	26 - lb/d		=0.0002	=0.0002	19 - mg/L	0	01/07 - Weekly	24 - COMP24

Code	T.	Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units	ڳ ڳ	Analysis	Type
Season: 0	Req.	<=0.063 MO AVG	<=0.13 DAILY MX	26 - lb/d		<=0.00038 MO AVG	<=0.00077 DAILY MX	19 - mg/L	0 >	01/07 - Weekly	24 - COMP24
NODI: -	NODI										
01079 Silver total recoverable G - Raw Sewage Influent	Smpl.			·		<=0.0003	=0.00041	19 - mg/L	0	02/30 - Twice Per Month	24 - COMP24
Season: 0	Req.					Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L	OFZ	02/30 - Twice Per Month	24 - COMP24
NODI: -	NODI										
50050 Flow, in conduit or thru treatment plant 1 - Effluent Gross	Smpl.	=13.448		03 - MGD				J	0	01/01 - Daily	TM - TOTALZ
Season: 0	Req.	Reg Mon MO AVG		03 - MGD						01/01 - Daily	TM - TOTALZ
NODI: -	NODI			-							
51041 E. coli, colony forming units [CFU]	Smpl.					=12.0	=150.0	3Z - CFU/100mL ⁽	0	01/01 - Daily	GR - GRAB
Season: 1	Req.					<=125.0 MO GEO	<=235.0 DAILY MX	32 - CFU/100mL	00	01/01 - Daily	GR - GRAB
NODI: -	NODI										
80082 BOD, carbonaceous [5 day, 20 C]	Smpl.	=376.0	=472.0	26 - lb/d		=3.0	=4.0	19 - mg/L (	0	01/01 - Daily	24 - COMP24
1 - Effluent Gross										•	
Season: 0	Req.	<=6259.0 MO AVG	<=10014.0 MX WK AV	26 - Ib/d		<=25.0 MO AVG	<=40.0 MX WK AV	19 - mg/L		01/01 - Daily	24 - COMP24
NODI: -	NODI										
81012 Phosphorus, total percent removal	Smpl.			=75.2	7			23 - %	0	01/30 - Monthly	CA - CALCTD
K - Percent Removal		·								-	
Season: 0	Req.			\=<	>=75.0 MO AV MN			23 - %	02	01/30 - Monthly	CA - CALCTD
NODI: -	NODI										
82220 Flow, total	Smpl.		=403.0	80 - Mgal/mo				J	0	01/30 - Monthly	RT - RCOTOT

Code	Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	S S S	o K.		Туре
Season: 0		Req.	f .	Red Mon MO TOTAL	80 - Mgal/mo						01/30 - Monthly	RT - RCOTOT
NODI:		NODI			:							

## Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

# Edit Check Errors

## No errors.

Comments

## **Attachments**

	Туре	Size
IN0025674_CSO_MRO_2024_09.pdf	pdf	1219640.0
	Jpd	1010450.0
IN0025674_INC_RPT_2024_09.pdf	pdf	108945.0

# Report Last Saved By

## ELKHART WWTP

Laura Kolo Payton88 Name: User:

2024-10-24 15:38 (Time Zone:-04:00)

laura.kolo@coei.org

# Report Last Signed By

Date/Time:

E-Mail:

Laura Kolo Payton88

> Name: E-Mail:

User:

laura.kolo@coei.org

2024-10-24 15:43 (Time Zone:-04:00)

Date/Time:

NPDES eReporting Help Desk: <u>NPDESeReporting@epa.gov</u> | 877-227-8965 (9:00am - 8:00pm EST) **Contact Us** to ask a question, provide feedback, or report a problem.

🥓 View Certification | 🖟 Download COR

DMR Copy of Submission

Expand Notices

Form Approved OMB No. 2040-0004 expires on 07/31/2026

rermit			
Permit ID:	IN0025674	Major:	
Permittee:	ELKHART WWTP	Permittee Address:	229 SOUT ELKHART
Facility:	ELKHART WWTP	Facility Location:	1201 S N

035-AQ - QUARTERLY REPORTING 1201 S NAPPANEE ST ELKHART , IN46516 JTH 2ND ST T , IN46516 Discharge: 035 - External Outfall Permitted Feature:

DMR Due Date: From 07/01/24 to 09/30/24 **NetDMR Validated** Report Dates & Status Monitoring Period:

Status:

10/28/24

REPORT MONTHLY SAMPLING ON THE 001-A NETDMR. MUNICIPAL MAJOR ELKHART COUNTY Considerations for Form Completion

Last Name: Telephone: Utility Services Manager Laura Principal Executive Officer First Name: Title:

574-293-2572

Kolo

No Data Indicator (NODI)

Form NODI:

	1	į							,	, ,	. 6
Code Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units	X.	Anaiysis	lype
00717 Cyanide, free [as free]	Smpl.		<0.2461	26 - Ih/d			<0.002	19 - ma/L	0	01/90 - Ouarteriy	GR - GRAB
1 - Effluent Gross				<u>)</u>				:			
Season: 0	Req.		Req Mon DAILY MX	26 - Ib/d			Req Mon DAILY MX	19 - mg/L		01/90 - Quarterly	GR - GRAB
NODI: -	NODI			:	,			:	:	-	
00717 Cyanide, free [as free]	Smpl.						<0.002	19 -	0	01/90 -	GR -
G - Raw Sewage Influent	•		:					7 /gill		Qual celly	
Season: 0	Req.						Req Mon DAILY MX	19 - mg/L		01/90 - Quarterly	GR - GRAB
NODI: -	NODI			:							
01074 Nickel, total recoverable	Smpl.		=0.608	26 - 1b/d			=0.0048	19 - mg/L	0	01/90 - Quarterly	24 - COMP24
1 - Effluent Gross	and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t			ļ Į				· ·			
Season: 0	Req.		Req Mon DAILY MX	26 - Ib/d			Req Mon DAILY MX	19 - mg/L		01/90 - Quarterly	24 - COMP24
NODI: -	NODI										
01074 Nickel, total recoverable	Smpl.						=0.0138	19 - ma/L	0	01/90 - Quarterly	24 - COMP24
G - Raw Sewage Influent							,	3	:		
Season: 0	Req.						Req Mon DAILY MX	19 - mg/L		01/90 - Quarterly	24 - COMP24
NODI: -	NODI										
01094 Zinc, total recoverable	Smpl.		=2.355	26 - 1b/d			=0.0186	19 - mg/L	0	01/90 - Quarterly	24 - COMP24
1 - Effluent Gross				· : 1				' . (			: .
Season: 0	Req.		Reg Mon DAILY MX	26 - lb/d			Req Mon DAILY MX	ng/L	3	01/90 - Quarterly	24 - COMP24
NODI: -	NODI										
01094 Zinc, total recoverable G - Baw Sewage Influent	Smpl.						=0.179	19 - mg/L	0	01/90 - Quarterly	24 - COMP24
Season: 0	Req.						Req Mon DAILY MX	19 -		01/90 -	24 - COMP24
NODI: -	NODI	* 1 *						<u>y</u>	· · · · · · · · · · · · · · · · · · ·		
01113 Cadmium, total				- 90				19 -		- 01/30	24 -
ו מניים לביימטור	Smpl.		<0.025	p/ql			<0.0002	mg/L	0	Quarterly	COMP24
ı - Emuent Gross											

4	ı		· · · · · · · · · · · · · · · · · · ·	<u>.</u>	t outen	Contex	Veille	i i	Ĕ.	Analysis	Type
		Value 1	מפות ע		T D D D D D D D D D D D D D D D D D D D	1					
	Req.		Req Mon DAILY MX	26 - Ib/d			Reg Mon DAILY MX	19 - mg/L		01/90 - Quarterly	24 - COMP24
NODI: -	NODI										
01113 Cadmium, total recoverable G - Raw Sewage Influent	Smpl.						=0.0006	19 - mg/L	0	01/90 - Quarterly	24 - COMP24
Season: 0	Req.						Req Mon DAILY MX	19 - mg/L		01/90 - Quarterly	24 - COMP24
NODI: -	NODI										
01114 Lead, total recoverable 1 - Effluent Gross	Smpl.		<0.127	26 - 1b/d			<0.001	19 - mg/L	0	01/90 - Quarterly	24 - COMP24
Season: 0	Req.		Reg Mon DAILY MX	26 - Ib/d			Req Mon DAILY MX	19 - mg/L		01/90 - Quarterly	24 - COMP24
NODI: -	NODI										
01114 Lead, total recoverable G - Raw Sewage Influent	Smpl.						=0.0043	19 - mg/L	0	01/90 - Quarterly	24 - COMP24
Season: 0	Req.						Req Mon DAILY MX	19 - mg/L		01/90 - Quarterly	24 - COMP24
NODI: -	NODI								:		
01118 Chromium, total recoverable 1 - Effluent Gross	Smpl.		<0.253	26 - lb/d			<0.002	19 - mg/L	0	01/90 - Quarterly	24 - COMP24
Season: 0	Req.		Reg Mon DAILY MX	26 - 1b/d			Req Mon DAILY MX	19 - mg/L		01/90 - Quarterly	24 - COMP24
NODI: -	NODI										
01118 Chromium, total recoverable	Smpl.						=0.005	19 - mg/L	0	01/90 - Quarterly	24 - COMP24
G - Raw Sewage Influent								<b>i</b>			
Season: 0	Req.						Req Mon DAILY MX	19 - mg/L		01/90 - Quarterly	24 - COMP24
NODI: -	NODI							:		-	
01119 Copper, total recoverable 1 - Effluent Gross	Smpl.		=1.38	26 - 1b/d			=0.0109	19 - mg/L	0	01/90 - Quarterly	24 - COMP24
Season: 0	Req.		Req Mon DAILY MX	26 - Ib/d			Reg Mon DAILY MX	19 - mg/L		01/90 - Quarterly	24 - COMP24
NODI:	NODI								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

Code Name	. as	Value 1	Value 2	Units	Value 1	Value 2	Value 3	Ex. Units	Analysis	Analysis Type
ത	tal e Smpl.						=0.102	19 - 0	01/90 - Ouarterly	24 - COMP24
G - Raw Sewage Influent	nent							שלי		
Season: 0	Req.						Req Mon DAILY MX	x 19 - mg/L	01/90 - Quarterly	01/90 - 24 - Quarterly COMP24
NODI: -	NODI									

# Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

# Edit Check Errors

# No errors.

Comments

# **Attachments**

No attachments.

# Report Last Saved By

ELKHART WWTP

# User:

laura.kolo@coei.org Laura Kolo

Payton88

2024-10-24 15:20 (Time Zone:-04:00)

# Report Last Signed By

User:

Date/Time:

E-Mail:

Name:

Laura Kolo Payton88

laura.kolo@coei.org

2024-10-24 15:43 (Time Zone:-04:00)

Date/Time:

E-Mail: Name:

NPDES eReporting Help Desk: NPDESeReporting@epa.gov | 877-227-8965 (9:00am - 8:00pm EST) **Contact Us** to ask a question, provide feedback, or report a problem.

																				:	
Received Date	10/24/24	10/24/24	10/24/24	10/24/24	10/24/24	10/24/24	10/24/24	10/24/24	10/24/24	10/24/24	10/24/24	10/24/24	10/24/24	10/24/24	10/24/24	10/24/24	10/24/24	10/24/24	10/24/24	10/24/24	10/24/24
	Signed & Submitted	Signed & Submitted	Signed & Submitted	Signed & Submitted	Signed & Submitted	Signed & Submitted	Signed & Submitted	Signed & Submitted	Signed & Submitted	Signed & Submitted	Signed & Submitted	Signed & Submitted	Signed & Submitted	Signed & Submitted	Signed & Submitted	Signed & Submitted	Signed & Submitted	Signed & Submitted	Signed & Submitted	Signed & Submitted	Signed & Submitted
Date	10/28/24	10/28/24	10/28/24	10/28/24	10/28/24	10/28/24	10/28/24	10/28/24	10/28/24	10/28/24	10/28/24	10/28/24	10/28/24	10/28/24	10/28/24	10/28/24	10/28/24	10/28/24	10/28/24	10/28/24	10/28/24
Unscheduled	Scheduled	Scheduled	Scheduled	Scheduled	Scheduled	Scheduled	Scheduled	Scheduled	Scheduled	Scheduled	Scheduled	Scheduled	Scheduled	Scheduled	Scheduled	Scheduled	Scheduled	Scheduled	Scheduled	Scheduled	Scheduled
End Date	09/30/24	09/30/24	09/30/24	09/30/24	09/30/24	09/30/24	09/30/24	09/30/24	09/30/24	09/30/24	09/30/24	09/30/24	09/30/24	09/30/24	09/30/24	09/30/24	09/30/24	09/30/24	09/30/24	09/30/24	09/30/24
	CSO- ARCH/BAR, NW OF INTERSECTION	CSO- HUG/EAST BLVD	CSO- JACKSON, N OF BRIDGE, E OF ELKHART RIVER	CSO- JACKSON, N OF BRIDGE, W OF ELKHART RIVER	CSO- MICHIGAN/FULTON	CSO- DAM AT CONE/ERWIN	CSO- ELKHART/FRANKLIN	CSO- W. BOULEVARD/MCNAUGHTON	CSO- NIBCO PRKWY - FKA JR. ACHIEVEMENT (Y DR N)	CSO- DAN @ GOSHEN/SUPERIOR	CSO- JOHNSON/BEARDSLEY	CSO- EDGEWATER/NAVAJO	CSO- POTTAWATOMI/SECOND	CSO- INDIANA/FRANKLIN	QUARTERLY REPORTING	CSO- MAIN/POTTAWATOMI	CSO-MICHIGAN @ RVR, S. OF LEX.	CSO- EVANS/GRACE	CSO- FRANKLIN/8TH	CSO- JEFFERSON AT THE RIVER	CSO- CASSOPOLIS/BEARDSLEY
##	005-C	008-C	007-C	006-C	015-C	014-C	011-C	017-C	J-600	016-C	013-C	027-C	025-C	024-C	035-AQ	026-C	019-C	033-C	023-C	029-C	012-C
Feature	002	800	007	900	015	014	011	017	600	016	013	027	025	024	035	026	019	033	023	029	012
	IN0025674 ELKHART WWTP	IN0025674 ELKHART WWTP	IN0025674 ELKHART WWTP	IN0025674 ELKHART WWTP	IN0025674 ELKHART WWTP	IN0025674 ELKHART WWTP	IN0025674 ELKHART WWTP	IN0025674 ELKHART WWTP	IN0025674 ELKHART WWTP	IN0025674 ELKHART WWTP	IN0025674 ELKHART WWTP	IN0025674 ELKHART WWTP	IN0025674 ELKHART WWTP	IN0025674 ELKHART WWTP	IN0025674 ELKHART WWTP	IN0025674 ELKHART WWTP	IN0025674 ELKHART WWTP	IN0025674 ELKHART WWTP	IN0025674 ELKHART WWTP	IN0025674 ELKHART WWTP	IN0025674 ELKHART WWTP

Received Date	10/24/24	10/24/24	10/24/24	10/24/24	10/24/24	10/24/24	10/24/24	10/24/24	10/24/24	10/24/24
	Signed & Submitted	Signed & Submitted	Signed & Submitted	Signed & Submitted	Signed & Submitted	Signed & Submitted	Signed & Submitted	Signed & Submitted	Signed & Submitted	Signed & Submitted
Date	10/28/24	10/28/24	10/28/24	10/28/24	10/28/24	10/28/24	10/28/24	10/28/24	10/28/24	10/28/24
Unscheduled	Scheduled	Scheduled	Scheduled	Scheduled	Scheduled	Scheduled	Scheduled	Scheduled	Scheduled	Scheduled
End Date	09/30/24	09/30/24	09/30/24	09/30/24	09/30/24	09/30/24	09/30/24	09/30/24	09/30/24	09/30/24
	CSO- EDGEWATER/OKEMA	CSO- WASHINGTON AT RIVER	CSO- LEXINGTON/6TH	CSO- MCNAUGHTON PARK SOUTH	CSO- WEST HIGH AT RIVER	CSO- FRANKLIN/KRAU	20 MGD CLASS IV ACTIVATED SLUDGE - TO ST JOSEPH RIVER	CSO- MCNAUGHTON PARK WEST	CSO- ELIZABETH/LUSHER	CSO- BRIDGE AND HUDSON
#  	032-C	028-C	034-C	040-C	039-C	037-C	035-A	018-C	031-C	020-C
Feature	032	028	034	040	039	037	035	018	031	020
	IN0025674 ELKHART WWTP	IN0025674 ELKHART WWTP	IN0025674 ELKHART WWTP	IN0025674 ELKHART WWTP	IN0025674 ELKHART WWTP	IN0025674 ELKHART WWTP	IN0025674 ELKHART WWTP	IN0025674 ELKHART WWTP	IN0025674 ELKHART WWTP	IN0025674 ELKHART WWTP

NPDES eReporting Help Desk: NPDESeReporting@epa.gov | 877-227-8965 (9:00am - 8:00pm EST) **contact Us** to ask a question, provide feedback, or report a problem.

Permit

IN0025674 Permit ID:

ELKHART WWTP

Permittee:

Facility:

Permittee Address:

Major:

Facility Location:

Discharge:

ELKHART WWTP

035-A - 20 MGD CLASS IV ACTIVATED SLUDGE - TO ST JOSEPH RIVER

1201 S NAPPANEE ST ELKHART, IN46516 ELKHART, IN46516 229 SOUTH 2ND ST

035 - External Outfall

Permitted Feature:

Report Dates & Status

From 09/01/24 to 09/30/24 Monitoring Period:

**NetDMR Validated** 

Status:

# Considerations for Form Completion

THE FLOW METER(S) SHALL BE CALIBRATED AT LEAST ONCE EVERY TWELVE MONTHS. REPORT QUARTERLY PARAMETERS ON 035-AQ NETDMR. MUNICIPAL MAJOR ELKHART COUNTY

10/28/24

DMR Due Date:

Principal Executive Officer

Last Name: Laura First Name:

Telephone: Utility Services Manager Title:

574-293-2572

Kolo

No Data Indicator (NODI)

Form NODI:



State Form 10829 (R4 / 01-20)

Name of Facility			Permit Nur	nber		
Elkhart			IN0025	674		
Month	Year	Plant Des	ign Flow	Telephon	e Number	
September	2024	20.00	mgd	5	74/293	-2572
E-mail address:	laura.kolo@	coei.org			035	Α
Certified Operator: N	ame	Class	Certificate	Number	Expi	ration Date
Laura F Kolo		11/	150	NΩΛ	06/	20/2027

										Laura E.	KOIO			IV	150	194	06/	30/2027
				Total= 2.59			CH	HEMICAI USED	LS				RAW	/ SEW/	GE			
Day Of Month	Day of Week	Man-Hours at Plant (Plants less than 1 MGD only)	Air Temperature (optional)	Precipitation - Inches	Bypass At Plant Site("x" If Occurred)	Sanitary Sewer Overflow("x" If Occurred)	Chlorine - Lbs/day	Ferric Chloride Lbs/Day or Gal./Day	Lbs/Day or Gal./Day	Influent Flow Rate (if metered) MGD	Hd	CBOD5 - mg/l	CBOD5 - lbs/day	Susp. Solids - mg/l	Susp. Solids - Ibs/day	Phosphorus - mg/l	Ammonia - mg/l	
1	Sun							372		10.158	7.4	112	9,488	96	8,133	3.28	18.60	
2	Mon							354		9.941	6.8	88	7,296	74	6,135	2.88	17.10	
3	Tue							346		10.517	7.4	102	8,947	168	14,736	3.40	18.10	
4	Wed							334		10.766	7.0	123	11,044	226	20,292	3.82	22.50	
5	Thu							342		11.233	7.0	108	10,118	126	11,804	3.30	20,30	
6	Fri							243		11.708	6.7	120	11,717	116	11,327	3.86	21.80	
7	Sat							204		11.175		97	9,040	132	12,302	3.50	20,30	
8	Sun					Χ		289		10.575	7.1	115	10,142	106	9,349	3.85	17.10	
9	Mon							250		11.208	7.4	119	11,123	166	15,517	3.97	20.00	
10	Tue							276		10.641	7,0	114	10,117	174	15,442	3.91	24.60	
11	Wed							250		10.733	7.0	84	7,519	112	10,025	3.50	21.20	
12	Thu							289		10.792	7.0	192	17,281	184	16,561	4.72	21.30	
13	Fri							258		11.358	7.7	129	12,220	152	14,398	3.88	24.50	
14	Sat							277		10.633	7.0	105	9,311	106	9,400	3.49	23.40	***************************************
15	Sun									10.608	7.2	107	9,466	106	9,378	3.35	18.10	
16	Mon							261		10.841	6.9	133	12,025	212	19,168	3.64	20.10	
17	Tue							137		10,908	7,3	82	7,460	158	14,374	4.32	24.80	
18	Wed							210		10,600	7.0	141	12,465	152	13,437	4.16	23.70	
19	Thu							182		10.750	7.0	131	11,745	150	13,448	4.00	15.10	
20	Fri			0.38				337		12.325	7.0	153	15,727	252	25,903	4.04	22.00	
21	Sat			0.02				231		9.350	7.3	95	7,408	112	8,734	3.24	21.50	
22	Sun			1.18				231		16.550	7.2	89	12,284	136	18,772	2.82	11.10	
23	Mon			0.03			·	219		10.908	7,1	86	7,824	132	12,008	3.23	17.20	
24	Tue			0.65				243		13.433	7.0	103	11,539	172	19,269	3.14	20.20	
25	Wed			0.02				267		11.567	7.0	125	12,059	172	16,593	3.80	22.90	
26	Thu			0.01				243		11.025	6.9	106	9,747	136	12,505	3.74	23.70	
27	Fri							356		11.233	7.3	142	13,303	164	15,364	4.24	32.20	
28	Sat			0.29				364		12.008	7.1	97	9,714	130	13,019	4.12	22.80	
29	Sun			0.01				364		10.908	7.1	89	8,097	112	10,189	3.47	18.50	
	Mon							350		11.691	7.1	91	8,873		14,430		20.10	
31	***************************************														· · · · · · · · · · · · · · · · · · ·			
Aver	age	•		0.29				279		11.205		113	10,503	146	13,734	3.70	20.83	
	mum			1.18				372		16.550	7.7	192	17,281	252	25,903	4.72	32.20	
Minir				0.01				137		9.350	6.7	82	7296	74	6135	2.82		
								in the second										
# of	Data		0	9	0	1	0	29	0	30	29	30	30	30	30	30	30	0
	I cert	lify under	penalty	of law th	nat this	docur	nent and	all attach	nments	Prepared by	or under t	the direction	n of (Certified	d Operato		Date (mo	onth, day,	vear)

were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Prepared by or under the direction of (Certified Operator

Date (month, day, year)

Signature of principal executive officer or authorized agent (or attested by NetDMR subscriber agreement)

ma

 $\begin{array}{c|c}
10/24/24 \\
\text{Date (month, day, year)} \\
10/24/24
\end{array}$ 

State Form 10829 (R4 / 01-20)			
Name of Facility	Permit Number	Month	Year
Elkhart	IN0025674	September	2024
1			

		¬\/	Τ'			DATIO	A I					Γ							
1 1	PRIMAF EFFLUE		MIXED L		AE	RATIO	N .	RETURN S	LUDOE	SECON				F	INAL	EFFLUE	ENT		
	LIILUL	-131		QUUN		I		KETUKNE	LUDGE	EFFLU	_					T			I
Day Of Month	CBOD5 - mg/l	Susp. Solids - mg/l	Settleable Solids % in 30 minutes	Susp. Solids - mg/l	Sludge Vol. Index - ml/gm	Dissolved Oxygen - mg/l	Temperature - F	Volume - MG	Susp. Solids - mg/l	CBOD5 - mg/l	Susp. Solids - mg/l		Residual Chlorine - Final	Residual Chlorine - Contact Tank	E. Coli - colony/100 ml	pH - daily low (or single sample)	pH - daily high (if multiple samples)	Dissolved Oxygen - mg/l	Oil & Grease (mg/l)
1	68	62	186	2,932	63	4.3	21	6.487	6,260						8	7.6		8.2	
2	63	61	184	3,288	56	4.7	20	6.487	6,120						5	7.6		8,6	
3	85	67	183	2,876	64	4.2	20	6.487	6,220						11	7.7		8.5	
4	78	67	194	2,896	67	3.6	21	6.487	5,740						7	7.6		8.2	
5	81	83	199	2,952	67	4.2	20	6.487	6,120						21	7.6		8.0	
6	84	60	202	2,740	74	4.3	20	6.487	6,140						18	7.0		8.0	
7	76	60	203	2,884	71	4.6	20	6,487	5,900						25	7.0		8.3	
8	79	56	204	2,860	71	4.8	20	6.487	5,980						13	7.0		7.9	
9	92	64	188	2,812	67	4.8	20	6.487	5,960						23	7.7		7.9	
10	90	68	198	2,684	74	4.1	20	6.487	5,680						29	7.7		7,7	
11	83	56	202	2,828	71	4.4	20	6.478	5,780						18	7.7		7.8	
12	99	83	201	2,820	71	3.6	21	6.487	4,880						19	7.0		7.9	
13	95	74	197	2,788	71	4.2	21	6.487	4,600						46	7.7		8.0	
14	77	74	198	2,720	73	4.9	21	6.487	4,640						150	7.7		7.7	
15	70	58	198	2,780	71	4.6	21	6.487	4,520						26	7.8		7.9	
16	81	63	194	2,756	70	4.3	21	6.487	4,620						8	7.8		7.9	
17	90	64	189	2,756	69	3.5	21	6.487	4,480						18	7.8		7.9	
18	89	52	192	2,696	71	3.7	21	6.487	4,280						13	7.8		7.7	
19	86	61	192	2,720	70	3,9		6.487	4,460						10	7.7		8.1	
20	76	94	194	2,692	72	4.5	21	6.487	5,140						5	7.6		8.1	
21	58	76	197	2,876	68	4.4	20	6.487	4,000						4	7.0		8.1	
22	60	84	197	2,716	73	3.0	20	6.487	4,560						5	7.0		7.7	
23	54	65	186	2,888	64	4.2	21	6.487	4,740						8	7.7		7.8	
24	76	80	198	2,772	71	3.9	20	6.487	5,220						10	7.5		7.8	
25	76	45	192	2,672	72	3.8	21	5.222	4,580						3	7.7		8,6	
26	69	59	190	2,596	73	3.8	21	6.492	4,320						10	7.0		8.0	
27	80	60	170	2,352	72	3.9	20	7.785	4,660						11	7.7		7.9	
28	78	54	162	2,444	66	4.3	20	7.785	4,620						6	7.0		8.1	
29	64	56	172	2,816	61	4.1	20	7.785	4,860						7	7.7		8.2	
30	89	59	186	2,632	71	3.8	20	7.785	4,740						24	7.5		8,1	
31	7.		460	0.775				0.646	F 40-			4			4-				
Avg	78	66	192	2,775	69	4.1	20	6.618	5,127						19			8.0	
Max	99	94	204	3,288	74	4.9	21	7.785	6,260						150		7.8	8.6	
Min.	54	45	162	2352	56	3.0	20	5.222	4000						3		7.00	7.7	
Daily		005													150				
		ove 235 30	22	20	20	0.0	00	0.0	0.0			T	ا ہے		0	201	ام	22	
Data	30	30	30	30	30	30	29	30	30	0	0		1	0	30	30	0	30	0

Comments for the Month (major repairs, breakdowns, process upsets and their causes, inplant treatment process bypass, etc.):

State Form 10829 (R4 / 01-20)			
Name of Facility	Permit Number	Month	Year
Elkhart	IN0025674	September	2024

	T						FI	NAL EF	FLUENT	-							
		Flow		BOD						d Solids	5	Ammor	iia			Phosph	iorus
Day Of Month	Day of Week	Effluent Flow Rate (MGD)	Effluent Flow Weekly Average	CBOD5 - mg/l	CBOD5 - mg/l Weekly Average	CBOD5 - lbs/day	CBOD5 - lbs/day Weekly Average	Susp. Solids - mg/l	Susp. Solids - mg/l Weekly Average	Susp. Solids - Ibs/day	Susp. Solids - Ibs/day Weekly Average	Ammonia - mg/l	Ammonia - mg/l Weekly Average	Ammonia - Ibs/day	Ammonia - Ibs/day Weekly Average	Phosphorus - mg/l	Phosphorus - Ibs/day
	Sun	12.166		2		203		4		355		0.04		4.1		0.79	80
2	Mon	12.380		3		310		4		423		0.07		7.2		0.68	70
3		13.536	.,-,.	3		339		6		689		0.05		5.6		0.63	71
	Wed	13.663		3		342		8		912		0.06		6.8		0.66	75
5	Thu	13.187		3		330		10		1,144		0.04		4.4		0,68	75
6	Fri	12,862		3		322		12		1,309		0.09		9.7		0.84	90
7	Sat	12.286	12.869	4	3.00	410	322	15	8.53	1,578	916	0.09	0.06	9.2	7	1.02	105
8	Sun	12,354		4		412		17		1,772		0.09		9.3		1.05	108
	Mon	13.205		3		330		18		2,026		0.10		11.0		1.09	120
10	Tue '	12.811		4		427		22		2,393		0.12		12.8		1.15	123
11	Wed	12.870		4		429		27		2,877		0.12		12.9		1.18	127
12	Thu	12.904		4		430		28		3,013		0.07		7.5		1.25	135
		12.243		5		511		27		2,757		0.13		13.3		1.31	134
		11.758	12.592	4	4.00	392	419	20	22.80	1,942	2,397	0.13	0.11	12.7	11	1.08	106
15	Sun	11.729		3		293		17		1,634		0.12		11.7		1.09	107
16	Mon	12.622		3		316		8		800		0.09		9.5		0,89	94
17	Tue	12.607		3		315		5		505		0.09		9.5		0.74	78
	Wed	12.910		3		323		4		398		0.08		8.6		0.90	97
19	Thu	12.660		3		317		4		370		0.09		9.5		1.04	110
20	Fri	15.438		3		386		5		592		0.16		20.6		0.89	115
21	Sat	11.551	12.788	3	3.00	289	320	4	6.34	337	662	0.07	0.10	6.7	11	0.79	76
22	Sun	22,318		2		372		4		819		0.24		44.7		0.79	147
	Mon	13.445		3		336		4		415		0.07		7.8		0.60	67
	Tue	18.277		5		762		8		1,250		0.42		64.0		0.78	119
25	Wed	13.834		6		692		9		1,085		0.82		94.6		0.84	97
26	Thu	13.593		3		340		7		816		0.10		11.3		0.75	85
27	Fri	13.538		4		452		10		1,129		0.10		11.3		0.76	86
28	Sat	13.899	15.558	3	3.71	348	472	11	7.76	1,321	976	0.09	0.26	10.4	35	0.90	104
29	Sun	12.996		2		217		10		1,041		0.09		9.8		1.17	127
30	Mon	13.785		3		345		11		1,265		0.11		12.6		1.18	136
31																	
Avg		13.448		3		376		11		1,232		0.13		15.6		0.92	102
Max		22.318	15.558	6	4.00	762	472	28	22.80	3,013	2,397	0.82	0.26	94.6	35	1.3	147
Min		11.551	12.592	2	3.00	203	320	4	6.34	337	662	0.04	0.06	4.1	7	0.6	67
Data	3	30	4	30	4	30	4	30	4	30	4	30	4	30	4	30	30

	MONTHLY R	EMOVAL SUM	VIARY		Total Monthly Flow:
Percent Removal	BOD5	S.S.	Ammonia	Phosphorus	(million gallons) 403
Primary Treatment	30.55	55.2			
	NA	NA			Percent Capacity
Secondary Treatment	95.7	82.7	100		(actual flow/design) 67%
Overall Treatment	97.01	92.3	99.4	75.2	
Phosphorus limit would be	7	5 % removal.	(compliance	achieved)	

Page 3 of 6

	SLUDG	E TO				DICE	STED	OPERAT	ION				l	
	DIGES1		Angerol	bic Only		DIG	SIEK	JPERAI	ION			[		I
		LK	Allaelo	DIC OIN								_		
Day Of Month	Primary SludgeGal. x 100	Waste Act. Sludge Gal. x 1000	Hd	Gas Production Cubic Ft. x 1000	Temperature - F	Supernatant Withdrawn hrs. or Gal. x 1000	Supernatant BOD5 mg/l or NH3-N mg/l	Total Solids in Incoming Sludge - %	Total Solids in Digested Sludge - %	Volatile Solids in Incoming Sludge - %	Volatile Solids in Digested Sludge - %	Digested Sludge Withdrawn hrs. or Gal. x 1000		
1	35.53	129.60	7.4		103	7.074		3.48	2.15	69.41	55.56			
2	36.01	129.60	7.4		100			3.57	2.20	71.49	55.56			
3	41.26	129.60	7.3		101			3.42	2,11	68.56	57.58	82.05		
4	47.57	129.60	7.4		102	17.685		3.36	2.13	72.17	56.35	82.45		
5	42.60	149.76	7.4		102			3.34	2.15	70.53	54,62	87.10		
6	40.91	168.48	7.4		102			2.85	2.04	69.39	56.25			
7	43.02	168.48	7.3		100			2.75	2.31	66.47	58.94			
8	37.74	168.48	7.3		100			2,89	2.14	69,12	56.74			
9	34.80	168.48	7.4		100	7.074		3.08	2.17	72.57	57.24			
10	43.45	168.48	7.4		101	10.611		3.40	1.92	68.02	56.10	80.96		
11	49.28	168.48	7.4		101	7.074		3.21	1.99	68.88	55.88	83.67		
12	45.66	188.64	7.3		99			2.60	2,00	69.01	58.11	122.74		
13	49.81	194.40	7.2		99			3.49	2.04	71.07	57.72			
14	48.21	194.40	7.3		95			3.43	2.09	73.28	57.96			
15	39.96	194.40	7.3		96	10.611		3.24	2.18	73.94	57.66			
16	41.85	194.40	7.2		96	10.611		2.97	2.24	72.38	57.89	81.18		
17	42.35	194.40	7.2		95	10.611		2.97	2.28	71.29	57.62	122.88		
18	41.82	194.40	7.2		95	17.685		1.99	2.26	69.37	56.29	122.25		
19	40.33	194.40	7.2		95	10.611		1.93	2.33	72.48	56.65	113.40		
20	35.24	194.40	7.2		95	7.074		2.68	2.24	70.86	56.82	61.00		
21	42.37	194.40	7.2		95	0.000		3.93	2.29	70.70	56.08			
22	34.76	194.40	7.2		93	84.888		3.66	2.30	72.92	58.90			
23	35.93	194.40	7.2		94	21.222		4.11	2.23	70.81	58.28			
24	43.18	217.44	7.2		94	10.611		4.78	2.22	73.70	57.93	96.65		
25	33.87	223.20	7.2		93	10.611		3.48	2.16	74.32	58.78	103.27		
26	33,68	210.24	7.2		94			2.75	2.23	72.94	58.68	121.58		
27	37.80	223.20	7.2		95	7.074		3.07	2.26	72.11	56.73	69.28		
28	25.35	223.20	7.2		95	7.074		2.31	2.24	71.62	56.96			
29	36.24	227.52	7.2		96			2,90	2.21	77.53	57.25			
	17.14	226,08	7.2		94	10.611		3.09	2.14	76.61	56.03	118.32		
31														
Avg.	39.26	185,23			97	14.148		3.16	2.18	71.45	57.11	96.80		
Max.	49.81	227.52	7.4		103	84.888		4.78	2.33	77.53	58.94	122.88		
Min.	17.14	129.60	7.2		93	0.000		1.93	1.92	66.47	54.62	61.00		
Data	30	30	30	0	30	19	0	30	30	30	30	16	0	C

Once completed, this form should be converted to a pdf document, named appropriately & attached to the corresponding netDMR for submittal

State For Name of F	m 10829 (F acility	R4 / 01-20) Permit Numb	er	Month		Year										
Elkhart		IN00256	674	Septe	mber	20:	24									
				State Form												
		Final	Effluent													
	Chlo	ride	Total N	litrogen												
Day Of Month	Chloride - mg/l	Chloride - Ibs/day	Total Nitrogen- mg/l	Total Nitrogen- lbs/day	Ag - Influent mg/I	Ag - Effluent mg/L	Cd - Influent mg/L	Cd - Effluent mg/L	CN - Influent mg/L	CN - Effluent mg/L	Cr - Influent mg/L	Cr - Effluent mg/L	Cu - Influent mg/L	Cu - Effluent mg/L	Hg - Influent ng/L	Hg - Effluent ng/L
2	400	00.540	40.50	0.004	0.0000	0.0000									40.7000	0.040
3	182	20,546	19.50	2,201	0.0002	0.0002								,	19.7000	0.810
5																
6																
7																
8																
9						0.0002										
10					0.0003											
11 12																
13				***************************************												
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17	***************************************				0.0002	0.0002										
18 19			*****													
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24					0.0004	0.0002										
25 26																
27					<del> </del>											
28					<u> </u>											
29																
30					0.0002	0.0002										
31	100	00 5 40	40.55	0.004	0.0000	0.0000									10 7000	0.010
Avg.	182	20,546	19.50	2,201	0.0003										19.7000 19.7000	
Max. Min.	182 182	20,546	19.50	2201	0.0004										19.7000	
IVIIII.	TUZ	20,040	10.00	2201	J.0002	3,0002				L	L	L		l	1, 530	0.010
Data	1	1	1	1	5	5	0	0	0	0	0	0	0	0	1	

#### WASTEWATER TREATMENT PLANT

State F Name o	orm 10829 f Facility	(R4 / 01-20) Permit Numb	) Der	Month		Year	***************************************	1								
Elkhart		IN00256	374	Santa	ember	20	124									
		*	stitute for													
Day Of Month	Ni - Influent mg/L	Ni - Effluent mg/L	Pb - Influent mg/L	Pb - Effluent mg/L	Zn - Influent mg/L	Zn - Effluent mg/L										
1																
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29																
30																
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Avg.																
Max																
Min.	191 (191) 191 (191)							ill let								
Data	0	0	0	0	0	О	0	0	0	0	0	0	0	0	0	



## National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 60646 (R4 / 9-16) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	Elkhart					ANAGEMEN				Page '	1 of	9		P	erm	iit Number:	IN	0025574	
Facility:	Elkhart P	ublic Worl	ks & Utilities	3							F	ublic No	tific	ation Requ	ren	nents Met?	Υ		
Monitor	ing Period	: Sep	tember	2024							Е	nter "x" i	fno	CSO disch	arg	e occurred	for	the month:	X
Design	Peak Hour	ly Flow (N	(GD):	44	Design Av	erage Flow	(MGD):	20		Measured/	Met	ered (M) o	or E	stimated (E	) m	ust be spec	ifie	d	
wwti	P Influent	Data		Pr	ecipitation E	Data			С	SO Outfall	No.	005			С	SO Outfall	No.	006	
Day of Month	Average Daily Flow (MGD)	Peak Hourly Flow (MGD)	Time Precip, Began (am/pm)	Precip. Duration (Hours)	Total Daily Precip. (Inches)	Peak Intensity (Inch/hr)	Measureme nt Interval (hr, 30 m, 15 m)	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharg e (MG)	M of E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1	10.16	11.60					15 min												
2	9.94	12,10					15 min										Ī		
3	10,52	12,60					15 min												
4	10.77	13,00					15 min												
5	11.23	12.70					15 min												
6	11.71	12.80					15 min												
7	11.18	12.80					15 min												
8	10.58	12.70					15 min												Γ
9	11.21	13,80					15 min												
10	10.64	11.90					15 min												
11	10.73	12.40					15 min												
12	10.79	12.00					15 min												
13	11.36	9.40					15 min										Γ		
14	10.63	12.70					15 min												Π
15	10.61	11.90					15 min												
16	10.84	12.50					15 min												
17	10.91	12,20					15 min												
18	10,60	13,90					15 min												
19	10.75	12.70					15 min												
20	12.33	32.40	2:31 PM	0.58	0.38	0.80	15 min												
21	9.35	10.70	12:56 AM	7.25	0.02	0.04	15 min												
22	16.55	34.50	12:16 PM	8.25	1.18	1.00	15 min												
23	10.91	12.80	2:39 AM	21.42	0.03	0.08	15 min												
24	13.43	19.60	12:01 AM	23,80	0,65	0,40	15 min												
25	11.57	16.90	12:49 AM	8.78	0.02	0.04	15 min												
26	11.03		4:31 AM	0.08	0.01	0.04	15 min												
27	11.23	12.50					15 min												
28	12.01	16.10	2:31 AM	20.72	0.29	0.24	15 min												
29	10.91	12.50	9:16 AM	0.08	0.01	0.04	15 min												
30	11.69	13,30					15 min												
Totals:	336,14			90,96	2,59			0	Da ys	0.00		0		0	Da ys	0.00		0	I



#### National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50548 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

	DEPARTME	NIC	PENVIRO	INME	NIAL MAN	IAG	EMENI																	
AWSHESO.	Elkhart												Page 2			Name (			ilt Number:	1	0025574			
Facility.	Elkhart P	ubli	c Works	& L	Itilities					er in		Web.		F		turas.			nents Met?					
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#### National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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#### National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

	Elkhart												Page 4	i of	9		ı	Pern	nit Number:	IN	0025574	-0.000		
Facility	Elkhart P	ubli	c Works	& L	Itilities									P	ublic No	lifica	ition Requ	irer	nents Met?	Υ				
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#### National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO)

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State Form 50546 (R4 / 9-15)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT Permit Number: IN0025574 Page 5 of 9 City: Elkhart Facility Elkhart Public Works & Utilities Public Notification Requirements Met? Y Enter "x" if no CSO discharge occurred for the month: Monitoring Period: September 2024 Design Flow (MGD): 20 Measured/Metered (M) or Estimated (E) must be specified Design Peak Flow (Hourly) (MGD): 44 023 CSO Outfall No. 024 CSO Outfall No. CSO Outfall No. 020 CSO Outfall No. Event M Event Time Event Event Time Event Event M Discharge or E (MG) Duration (Hours) Discharge (MG) Discharge Began or Duration E (Hours) or E Discharge (MG) Discharge Began or E Duration (Hours) Day of Discharge Duration Discharge Discharge or E Began Month Began (Hours) (MG) 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 2:46 PM M 20 0.0178 M 0.33 M 21 22 0.17 M 0.0069 M 12:42 PM M 0.25 M 0.0065 M 1:10 PM M 0.92 M 0.0196 M 12:36 PM M 12:50 PM M 0.58 0.0307 M 23 24 25 26 27 28 29 30 Da ys 0.17 Da ys



#### National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) NT OF ENVIRONMENTAL MANAGEMENT

City:	Elkhart												Page	6 of	9		F	ern	nit Number:	IN	0025574	The Salvey		100 000
acility	Elkhart P	ublic	Works	& U	tilities									P	ublic Not	ifica	ıtion Requ	iren	nents Met?	Υ				
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#### National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) NT OF ENVIRONMENTAL MANAGEMENT

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#### National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15)

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Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Discharge	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Discharge	M or E	Time Discharge Began					M
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## National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Signature of Principal Executive Officer or Authorized Agent

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City: Elkhart		Page: 9 of 9	Permit Number: IN0025574
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Monitoring Period: September 2024		Enter "x" if n	o CSO discharge occurred for the month:
Design Peak Hourly Flow (MGD); 44	Design Average Flow (MGD): 20		
	s to why each CSO event occurred)		
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Typed or Printed Name and Title of Principal Ex			Telephone
Laura E. Ko	olo, Utilities Services Manager		574-293-2572
I CERTIFY UNDER PENALTY OF LAW THAT THI WITH A SYSTEM DESIGNED TO ASSURE THAT INQUIRY OF THE PERSONS WHO MANAGE THE SUBMITTED IS, TO THE BEST OF MY KNOWLEI	S DOCUMENT AND ALL ATTACHMENTS WERE P QUALIFIED PERSONNEL PROPERLY GATHER AI : SYSTEM OR THOSE PERSONS DIRECTLY RESF OGE AND BELIEF, TRUE, ACCURATE, AND COMP 3 THE POSSIBILITY OF FINE AND IMPRISONMEN	ND EVALUATE THE INFORM PONSIBLE FOR GATHERING PLETE. I AM AWARE THAT	MATION SUBMITTED. BASED ON MY 3 THE INFORMATION; THE INFORMATION THERE ARE SIGNIFICANT PENALTIES FOR

Date (mm/dd/yy)

10/24/24

## BYPASS / State Form 48373 Indiana Departi

#### **BYPASS / OVERFLOW INCIDENT REPORT**

State Form 48373 (R7 / 4-16) Indiana Department of Environmental Management Office of Water Quality

☐ Follow-up to Bypass repor
previously sent on:

INSTRUCTIONS:

Complete all parts of this form and email signed copies to <a href="www.eports@idem.IN.qov">www.eports@idem.IN.qov</a>. Submittal of this report will satisfy the Office of Water Quality (OWQ) telephone and written bypass/overflow reporting requirements of your NPDES permit. Please use and the second page of this form as necessary to identify separate locations caused by the same event. If you have any questions while filling out the report form, please contact Renee Repar at (317) 232-6770 or <a href="mailto:rrepar@idem.in.qov">rrepar@idem.in.qov</a>.

To report a spill or if the release is resulting in a fish kill or other severe environmental damage, immediately report the release to the Emergency Response Section spill response line at: (317) 233-7745 or toll free within Indiana at (888) 233-7745.

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Elkhart Pt	ıblic Works		I		ee Street		EIK	hart		IN0002	.5074
(5) Outfall	(6) Date (mm/dd/yy)	and Time	RELE (7) Date (mm/dd/yy)		RMATION (Location of	<b>ocation 1)</b> Release <i>(streets</i>	addrage or	T (0) I	atitude	(9) Longit	ıde
Number	Release Began		Release Stopped	·		Station, Force Ma			y Min Sec)	(Deg Min	
	09/08/24 8:33	☐ AM ☐ PM	09/08/24 10:19	☐ AM ☐ PM	1518 Joh				42 13 N	85 57	
1 ' '	of Flow Released		ays provide a volu			(11) WWTP Flo		ease	(12) WWTP P 44.0 MG	-	Flow Rate
Sanitary S Treatment Prohibited Dry Weath Combined (15) Reason f Construction (16) System Construction (16) System Construction (16) System Construction House Late Pipe Failun Pump Stat Treatment Other Influent Ste Air Relief N Sewer Clear	ype (Select one.) ewer Overflow Bypass (at wastew Combined Sewer Overflow er Combined Sewer Sewer System Relo on Bypass / Overflo on Related Component(s) r more.) eral re ion Failure Bypassed ructure /alve an Out	Overflow r Overflow ease w (Select or Power Faili (17) crew with norm	noi (14)	ent Failure tion of the 33 am. Fo	Bypass / Ove und sewer ma	/n ☐ Excee rflow Event: in partially plu	eded Max Ca (18) I gged (Che d to A	pacity Descri eck all fected aseme ccurre eache eache		ation rea Impact erty nt Plant Vater	
grease and ra (19) Additional	er: <i>(in the box below</i> ags al organizations noti ergency Response	fied by facili			<i>or more.)</i> sh and Wildlife	☐ Local Ei	mergency Ma	anage	ment 🕡 Oth	ner:	n/a
(20) Actions T	aken to Prevent, M	inimize. or N	Mitigate Damage	includina (	Clean-up and T	reatment of At	ffected Area				
(Select one of Removed crews sent to	r more of the following Blockage □ Re or clear obstruction of the clear obstruction of the clear obstruction of the clear obstruction of the clear obstruction of the clear obstruction of the clear obstruction of the clear obstruction of the clear obstruction of the clear obstruction of the clear obstruction of the clear obstruction of the clear obstruction of the clear obstruction of the clear obstruction of the clear obstruction of the clear obstruction of the clear obstruction of the clear obstruction of the clear obstruction of the clear obstruction of the clear obstruction of the clear obstruction of the clear obstruction of the clear obstruction of the clear obstruction of the clear obstruction of the clear obstruction of the clear obstruction of the clear obstruction of the clear obstruction of the clear obstruction of the clear obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstruction obstructio	<i>ing, then ad</i> paired Pipe of grease an	d a written descriµ ☐ Repaired F d rags	otion.) Pump Stati		er 🗌 Lime	☐ Clea	n-Up [	Debris		
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	ng Report (printed)	Tele	phone Number (4) 293-2572		ct Email a.kolo@c	oei.org	Date (month,	day, y	ear) / Time IDE px 8:25	M Notified	☐ AM

#### Kolo, Laura

From:

postmaster@state.in.us

Sent:

Monday, September 9, 2024 8:24 AM

To:

Kolo, Laura

Subject:

EXTERNAL: Relayed: IN0025674_INC_RPT_2024_09_1

**Attachments:** 

EXTERNAL: Relayed: IN0025674_INC_RPT_2024_09_1

Caution: This email originated from outside of the organization. Please take care when clicking links or opening attachments. When in doubt, contact your IT Department

Form Approved OMB No. 2040-0004 expires on 07/31/2026

DMR Copy of Submission

Expand Notices

Permit

**Permit ID:** IN0025674

Permittee: ELKHART WWTP

Facility: ELKHART WWTP

Permitted Feature: 035 - External Outfall Discharge:

035-A - 20 MGD CLASS IV ACTIVATED SLUDGE - TO ST JOSEPH RIVER

1201 S NAPPANEE ST ELKHART , IN46516

229 SOUTH 2ND ST ELKHART , IN46516

Permittee Address:

Major:

Facility Location:

Report Dates & Status

Monitoring Period: From 10/01/24 to 10/31/24 DMR Due Date:

11/28/24

NetDMR Validated

Status:

Considerations for Form Completion

THE FLOW METER(S) SHALL BE CALIBRATED AT LEAST ONCE EVERY TWELVE MONTHS. REPORT QUARTERLY PARAMETERS ON 035-AQ NETDMR, MUNICIPAL MAJOR ELKHART COUNTY

Principal Executive Officer

First Name: Laura Laura Laura Last Name:
Title: Utility Services Manager Telephone:

574-293-2572

Kolo

No Data Indicator (NODI)

*No Data Indicat* Form NODI:

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00600 Nitrogen, total [as N] 1 - Effluent Gross	Smpl.	=2241.0		26 - lb/d		=19.3		19 - mg/L	0	01/30 - Monthly	24 - COMP24
Season: 0	Req.	Req Mon MO AVG		26 - Ib/d		Req Mon MO AVG		19 - mg/L		01/30 - Monthly	24 - COMP24
NODI: -	NODI										
00610 Nitrogen, ammonia total [as N] 1 - Effluent Gross	Smpl.	=11.1	=40.6	26 - lb/d		=0.14	=0.75	19 - mg/L	0	01/01 - Daily	24 - COMP24
Season: 1	Req.	<=1051.0 MO AVG	<=2478.0 DAILY MX	26 - lb/d		<=4.2 MO AVG	<=9.9 DAILY MX	19 - mg/L		01/01 - Daily	24 - COMP24
NODI: -	NODI										
00665 Phosphorus, total [as P] 1 - Effluent Gross	Smpl.	=75.0		26 - lb/d		=0.83	***************************************	19 - mg/L	0	01/01 - Daily	24 - COMP24
Season: 0	Req.	Req Mon MO AVG		26 - lb/d		<=1.0 MO AVG		19 - mg/L		01/01 - Daily	24 - COMP24
NODI: -	NODI										
01079 Silver total recoverable 1 - Fffluent Gross	Smpl.	<0.017	<0.019	26 - Ib/d		<0.0002	<0.0002	19 - mg/L	0	01/07 - Weekly	24 - COMP24

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Code Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units	Ä		
Season: 0	Req.	<=0.063 MO AVG	<=0.13 DAILY MX	26 - Ib/d		<=0.00038 MO AVG	<=0.00077 DAILY MX	19 - mg/L		01/07 - Weekly	24 - COMP24
NODI: -	NODI										
01079 Silver total recoverable G - Raw Sewage Influent	Smpl.					<=0.0002	=0.00023	19 - mg/L	0	02/30 - Twice Per Month	24 - COMP24
Season: 0	Req.					Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L		02/30 - Twice Per Month	24 - COMP24
NODI: -	NODI										
50050 Flow, in conduit or thru treatment plant	Smpl.	=10.646		03 - MGD					0	01/01 - Daily	TM - TOTALZ
1 - Effluent Gross Season: 0	Req.	Reg Mon MO AVG		03 - MGD						01/01 - Daily	TM - TOTALZ
NODI: -	NODI										
51041 E. coli, colony forming units [CFU] 1 - Effluent Gross	Smpl.					=18.0	=46.0	32 - CFU/100mL	0	01/01 - Daily	GR - GRAB
Season: 1	Req.	Transcriptor Courts Courts of Manager State Courts of the Courts of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of th			The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	<=125.0 MO GEO	<=235.0 DAILY MX	3Z - CFU/100mL		01/01 - Daily	GR - GRAB
NODI: - 71901 Mercury, total	NODI									01/60 -	
5	Smpl.				:	=1.26	=0.081	3M - ng/L	0	Once Every 2 Months	GR - GRAB
Season: 0	Req.					<=1.6 ANNL AVG	Req Mon DAILY MX	3M - ng/L		01/60 - Once Every 2 Months	GR - GRAB
NODI: -	NODI										
71901 Mercury, total recoverable G - Raw Sewage Influent	Smpl.	;		:			=19.7	3M - ng/L	0	01/60 - Once Every 2 Months	GR - GRAB
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Code	Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units	E Z	or Alidiysis iype Ex.	adk i
80082 <b>BOD,</b> carbo	BOD, carbonaceous [5 day, 20 C]	Smpl.	<b>Smpl.</b> =248.0	=347.0	26 - Ib/d		=3.0	=3.4	19 - mg/L	0	01/01 - Daily	24 - COMP24
1 - Effluent Gross	nt Gross	!										
Season: 0	0	Req.	<=6259.0 MO AVG	<=10014.0 MX WK AV	26 - lb/d		<=25.0 MO AVG	<=40.0 MX WK AV	19 - mg/L		01/01 - Daily	24 - COMP24
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81012 PI to	Phosphorus, total percent removal	Smpl.	,		. !!	=78.5			23 - %	0	01/30 - Monthly	CA - CALCTD
K - Percer	K - Percent Removal	i									,	
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# Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

# Edit Check Errors

No errors.

# Comments

10/14/24 E Coil was 548 MPN. Excluding up to 10% above 235, the next highest value, which is also the second highest value for the month, is 46 MPN. All values minus the 10/14/24 result of 548 MPN was less than 235 MPN. Mercury sampled 9/3/24 as required by NDPES Permit.

# Attachments

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# Report Last Saved By

# ELKHART WWTP

User: Payton88

Laura Kolo

laura.kolo@coei.org

2024-11-18 09:18 (Time Zone:-05:00)

# Report Last Signed By

Date/Time:

E-Mail:

Name:

Payton88

Laura Kolo

2024-11-18 09:19 (Time Zone:-05:00)

Date/Time:

E-Mail:

Name:

User:

laura.kolo@coei.org

NPDES eReporting Help Desk: <u>NPDESeReporting@epa.gov</u> | 877-227-8965 (9:00am - 8:00pm EST) **Contact Us** to ask a question, provide feedback, or report a problem.

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Process Confirmation - CDX Activity ID: _88693417-cbf2-481d-9047-59fe40e8c34a

Your DMRs are undergoing the Signing Process

		**************************************				
IN0025674	ELKHART WWTP	005	005-C	CSO- ARCH/BAR, NW OF INTERSECTION	10/31/24	11/28/24
IN0025674	ELKHART WWTP	900	D-900	CSO- JACKSON, N OF BRIDGE, W OF ELKHART RIVER	10/31/24	11/28/24
IN0025674	ELKHART WWTP	700	007-C	CSO- JACKSON, N OF BRIDGE, E OF ELKHART RIVER	10/31/24	11/28/24
IN0025674	ELKHART WWTP	800	D-800	CSO- HUG/EAST BLVD	10/31/24	11/28/24
IN0025674	ELKHART WWTP	600	D-600	CSO- NIBCO PRKWY - FKA JR. ACHIEVEMENT (Y DR N)	10/31/24	11/28/24
IN0025674	ELKHART WWTP	011	011-C	CSO- ELKHART/FRANKLIN	10/31/24	11/28/24
IN0025674	ELKHART WWTP	012	012-C	CSO- CASSOPOLIS/BEARDSLEY	10/31/24	11/28/24
IN0025674	ELKHART WWTP	013	013-C	CSO- JOHNSON/BEARDSLEY	10/31/24	11/28/24
IN0025674	ELKHART WWTP	014	014-C	CSO- DAM AT CONE/ERWIN	10/31/24	11/28/24
IN0025674	ELKHART WWTP	015	015-C	CSO- MICHIGAN/FULTON	10/31/24	11/28/24
IN0025674	ELKHART WWTP	016	016-C	CSO- DAN @ GOSHEN/SUPERIOR	10/31/24	11/28/24
IN0025674	ELKHART WWTP	017	017-C	CSO- W. BOULEVARD/MCNAUGHTON	10/31/24	11/28/24
IN0025674	ELKHART WWTP	018	018-C	CSO- MCNAUGHTON PARK WEST	10/31/24	11/28/24
IN0025674	ELKHART WWTP	010	019-C	CSO-MICHIGAN @ RVR, S. OF LEX.	10/31/24	11/28/24
IN0025674	ELKHART WWTP	020	020-C	CSO- BRIDGE AND HUDSON	10/31/24	11/28/24
IN0025674	ELKHART WWTP	023	023-C	CSO- FRANKLIN/8TH	10/31/24	11/28/24
IN0025674	ELKHART WWTP	024	024-C	CSO- INDIANA/FRANKLIN	10/31/24	11/28/24
IN0025674	ELKHART WWTP	025	025-C	CSO- POTTAWATOMI/SECOND	10/31/24	11/28/24
IN0025674	ELKHART WWTP	026	026-C	CSO- MAIN/POTTAWATOMI	10/31/24	11/28/24
IN0025674	ELKHART WWTP	027	027-C	CSO- EDGEWATER/NAVAJO	10/31/24	11/28/24
IN0025674	ELKHART WWTP	028	028-C	CSO- WASHINGTON AT RIVER	10/31/24	11/28/24
IN0025674	ELKHART WWTP	029	029-C	CSO- JEFFERSON AT THE RIVER	10/31/24	11/28/24
IN0025674	ELKHART WWTP	031	031-C	CSO- ELIZABETH/LUSHER	10/31/24	11/28/24
IN0025674	ELKHART WWTP	032	032-C	CSO- EDGEWATER/OKEMA	10/31/24	11/28/24
IN0025674	ELKHART WWTP	033	033-C	CSO- EVANS/GRACE	10/31/24	11/28/24
IN0025674	ELKHART WWTP	034	034-C	CSO- LEXINGTON/6TH	10/31/24	11/28/24
IN0025674	ELKHART WWTP	035	035-A	20 MGD CLASS IV ACTIVATED SLUDGE - TO ST JOSEPH RIVER	10/31/24	11/28/24
IN0025674	ELKHART WWTP	037	037-C	CSO- FRANKLIN/KRAU	10/31/24	11/28/24
IN0025674	ELKHART WWTP	039	039-C	CSO- WEST HIGH AT RIVER	10/31/24	11/28/24
IN0025674	ELKHART WWTP	040	040-C	CSO- MCNAUGHTON PARK SOUTH	10/31/24	11/28/24

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State Form 10829 (R4 / 01-20)

Name of Facility			Permit Nun	nber		
Elkhart			IN00256	574		
Month	Year	Plant Des	ign Flow	Telephone	e Number	
October	2024	20.00	mgd	5	74/293	-2572
E-mail address:	laura.kolo@coei.	org			035	Α
Certified Operator: N	ame	Class	Certificate	Number	Expl	ration Date
li		1 11 /	1 450	10.4		00/007

											Laura E.	Kolo			IV	150	94	06/3	30/2027
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1 Tue   288   10,800   7.4   111   9,998   140   12,610   4.0   23.10   2 Wed   410   10,102   7.3   87   7,395   200   17,000   391   33.10   3 Thu   4 Fri   410   410   11,008   7.0   152   13,955   158   14,505   4.44   24.10   4 Fri   410   410   11,008   7.0   152   13,955   158   14,505   4.44   24.10   5 Sat   137   10,033   7.0   116   9,706   192   16,006   4.24   22.50   6 Sun   2	Day Of Month	Day of Week	Man-Hours at Plant (Plants less than 1 MGD only)	Air Temperature (optional)	Precipitation - Inches	Bypass At Plant Site("x" If Occurred)	Sanitary Sewer Overflow("x" If Occurred)	Chlorine - Lbs/day				Hd	CBOD5 - mg/l		Susp. Solids - mg/l	Susp.	Phosphorus - mg/l	Ammonia -	
3   Thu     3   3   3   10,775   7.0   94   8,447   102   9,166   4.36   8,110     4   Fri	1	Tue										7.4			140	12,610			
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19   Sat					-														
20   Sun																			
21   Mon     313   11.108   107   9,913   140   12,970   3.27   17.70																			
Tue												1.3							***************************************
23   Wed												73							
Thu					-														
25   Fri												7.4							
26         Sat         0.01         275         10.508         7.4         93         8,150         120         10,516         3.36         18.00           27         Sun         274         10.325         7.3         108         9,300         70         6,028         3.50         18.30           28         Mon         245         11.342         7.5         94         8,892         148         14,000         3.65         18.10           29         Tue         276         11.667         7.1         123         11,968         176         17,125         4.24         20.70           30         Wed         10.15         277         11.866         7.0         133         13,162         170         16,824         4.04         21.30           Average         0.17         269         10.895         114         10,313         140         12,750         3.86         20.99           Maximum         0.26         410         11.866         7.9         160         14,022         200         17,657         4.92         33.10           # of Data         0         6         0         0         0         31         0         31 <td></td> <td></td> <td></td> <td></td> <td>0.26</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>71</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>······································</td>					0.26							71							······································
27   Sun																			
28 Mon         245         11.342         7.5         94         8,892         148         14,000         3.65         18.10           29 Tue         10         276         11.667         7.1         123         11,968         176         17,125         4.24         20.70           30 Wed         185         11.591         7.0         103         9,957         128         12,374         3.77         21.60           31 Thu         0.15         277         11.866         7.0         133         13,162         170         16,824         4.04         21.30           Average         0.17         269         10.895         114         10,313         140         12,750         3.86         20.99           Maximum         0.26         410         11.866         7.9         160         14,022         200         17,657         4.92         33.10           Minimum         0.01         137         9.000         6.5         83         7395         70         6005         3.23         16.10           # of Data         0         6         0         0         31         0         31         29         31         31         3					10.01														
29   Tue   276   11.667   7.1   123   11,968   176   17,125   4.24   20.70																			
30   Wed     185   11.591   7.0   103   9,957   128   12,374   3.77   21.60					<del>                                     </del>														
31   Thu   0.15   277   11.866   7.0   133   13,162   170   16,824   4.04   21.30																			
Average 0.17 269 10.895 114 10,313 140 12,750 3.86 20.99 Maximum 0.26 410 11.866 7.9 160 14,022 200 17,657 4.92 33.10 Minimum 0.01 137 9.000 6.5 83 7395 70 6005 3.23 16.10 # of Data 0 6 0 0 0 31 0 31 29 31 31 31 31 31 31 31					0.15														
Maximum         0.26         410         11.866         7.9         160         14,022         200         17,657         4.92         33.10           Minimum         0.01         137         9.000         6.5         83         7395         70         6005         3.23         16.10           # of Data         0         6         0         0         0         31         29         31         31         31         31         31         31         31         31         31         31         31         Date (month, day, year)         Date (month, day, year)         Date (month, day, year)         Date (month, day, year)         Date (month, day, year)         Date (month, day, year)         Date (month, day, year)         Date (month, day, year)         Date (month, day, year)         Date (month, day, year)         Date (month, day, year)         Date (month, day, year)         Date (month, day, year)         Date (month, day, year)         Date (month, day, year)         Date (month, day, year)         Date (month, day, year)         Date (month, day, year)         Date (month, day, year)         Date (month, day, year)         Date (month, day, year)         Date (month, day, year)         Date (month, day, year)         Date (month, day, year)         Date (month, day, year)         Date (month, day, year)         Date (month, day, year)																			
Minimum         0.01         137         9.000         6.5         83         7395         70         6005         3.23         16.10           # of Data         0         6         0         0         0         31         29         31         31         31         31         31         31         31         31         31         31         31         Date (month, day, year)												7.9							
# of Data 0 6 0 0 0 31 0 31 29 31 31 31 31 31 31 31 31 31 31 31 31 31															~~				
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a																			
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a	# of	Data		C	6	0	0	0	31	0	31	29	31	31	31	31	31	31	0
system designed to assure that qualified personnel properly gather		were	prepared i	under r	ny direct	ion or	superv	ision in a	ccordanc	e with a	Prepared by	or under t	the direction	n of (Certifie	d Operato		Date (mo	onth, day,	year)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penaltites for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Laura Koto

Signature of principal executive officer or authorized agent (or attested by NetDMR subscriber agreement)

Date (month, day, year)

laure Kho

11/18/24

State Form 10829 (R4 / 01-20)			
Name of Facility	Permit Number	Month	Year
Elkhart	IN0025674	October	2024

	PRIMA				AE	RATIO	N			SECON			F	INAL I	EFFLUE	ENT		
-	EFFLUE	ENT	MIXED L	IQUOR	Γ	I		RETURN S	LUDGE	EFFLUI	ENT		·					
Day Of Month	CBOD5 - mg/l	Susp. Solids - mg/l	Settleable Solids % in 30 minutes	Susp. Solids - mg/l	Sludge Vol. Index - ml/gm	Dissolved Oxygen - mg/l	Temperature - F	Volume - MG	Susp. Solids - mg/l	CBOD5 - mg/l	Susp. Solids - mg/l	Residual Chlorine - Final	Residual Chlorine - Contact Tank	E. Coli - colony/100 ml	pH - daily low (or single sample)	pH - daily high (if multiple samples)	Dissolved Oxygen - mg/l	Oil & Grease (mg/l)
1	83	48	168	2,340	72	4.0	20	7.785	4,260					7	7.7		8.1	
2	67	45	156	2,332	67	3.5	20	7.758	3,980					31	7.0		7.7	
3	75	52	153	2,424	63	1.7	20	7.785	2,640					34	7.6		8.5	
4	108	51	173	2,688	64	4.6		7.785	2,940					16	7.7		8.2	
5	63	49	178	2,532	70	4.9	20	7.785	2,760					17	7.0		8.3	
6	73	53	180	2,676	67	4.6	20	7.785	2,600					19	7.0		8.0	
7	77	52	184	2,496	74	5.0	20	7.785	2,680					46	7.9		7.9	
8	90 90	60	180	2,504	72 64	4.3	19	7.785 7.785	2,820 2,980					12 29	7.8 7.0		8.0	
10	93	68 56	158 162	2,468 2,348	69	3.9 4.3	19 20	7.785	3,260					12	7.0		8.0 8.1	
11	98	58	156	2,672	58	4.8	20	7.785	3,660					11	7.8		8.8	
12	90	60	159	2,292	70	4.6	19	7.785	3,060	<del> </del>				12	7.8		8.3	
13	105	72	166	2,380	70	4.7	19	7.779	3,100					24	7.8		8.3	
14	71	58	167	2,400	70	4.3	19	7.785	3,580					548	7.7		8.4	
15	70	92	163	2,368	69	3.4	19	7.785	3,280					13	7.8		8.3	
16	73	53	151	2,284	66	4.0	18	7.785	2,920					17	7.8		8.3	
17	92	60	154	2,196	70	4.1	18	10.961	3,100					11	7.0		8.4	
18	66	54	150	2,092	72	5.1	18	14.272	2,820					13	7.8		8.7	
19	73	75	155	2,212	70	5.1	18	14.272	2,860					16	7.8		8.6	
20	64	47	160	2,336	68	5.3	18	14.272	3,200					21	7.8		8.8	
21	66	59	154	2,152	72	4.6	18	14.186	3,660					16	7.8		8.2	
22	79	57	160	2,236	72	4.8	18	14.186	4,300					21	7.7		8.5	
23	73	65	140	2,360	59	4.4	18	14.272	4,200					10	7.7		9.0	
24	82	61	140	2,196	64	2.8	18	14.272	4,180					6	7.8		8.4	
25	83	60	143	2,108	68	4.5	18	14.272	4,580					23	7.7		8.4	
26	78	62	142	2,132	67	5.0	18	14.272	4,020					11	7.8		8.7	
27	76	50	138	2,180	63	5.2	18	14.272	4,260					17	7.0		8.9	
28	68	71	144	2,028	71	4.6	18	14.272	4,040					12	7.9		8.7	
29	85	55	128	2,180	59	3.3	19	14.272	4,020 4,100					23	7.8		8.4	
30	87 78	60 61	132 124	2,172 2,004	61 62	3.5 3.20	18 19	14.272 14.272	4,020					13 14	7.7		8.4 8.3	
1	80	59	155	2,004	67	4.3	19	10.801	3,480					35	1.1		8.4	
Avg. Max	108	92	184	2,688	74	5.3	20	14.272	4,580					548		7.9	9.0	
Min.	63	45	124	2004	58	1.7	18	7.484	2600					6		7.00	7.7	
	Max	70	147	2007	50	1,1	10	1,704	2000			4	L	548		7.00	1,1	
	Days ab	ove 235												1				
Data			31	31	31	31	30	31	31	0	0	1	o	31	31	0	31	0
			*							•								

Comments for the Month (major repairs, breakdowns, process upsets and their causes, inplant treatment process bypass, etc.): Raw pH not recorded on October 21 or October 24.

State Form 10829 (R4 / 01-20)			
Name of Facility	Permit Number	Month	Year
Elkhart	IN0025674	October	2024
	1140020074	October	2027

	T						F	NAL EF	FILIENT								
		Flow		BOD				r		d Solids		Ammor	 nia			Phosph	iorus
Day Of Month	Day of Week	Effluent Flow Rate (MGD)	Effluent Flow Weekly Average	CBOD5 - mg/l	CBOD5 - mg/l Weekly Average	CBOD5 - lbs/day	CBOD5 - lbs/day Weekly Average	Susp. Solids - mg/l	Susp. Solids - mg/l Weekly Average	Susp. Solids - lbs/day	Susp. Solids - lbs/day Weekly Average	Ammonia - mg/l	Ammonia - mg/l Weekly Average	Ammonia - Ibs/day	Ammonia - Ibs/day Weekly Average	Phosphorus - mg/l	Phosphorus - lbs/day
1		13.921		3		348		13		1,486		0,11		12.8		1.45	168
L	Tue Wed	14.171		4		473		27		3,215		0,11		14.2		1.40	165
- 2	Thu	13.162		4		439		24		2,678		0.12		40.6		1.24	136
	Fri	11.100		4		370		17		1,555		0.14		13.0		0.82	76
F	Sat	9.423	12.651	3	3.29	236	347	11	16,14	880	1,731	0.14	0.15	9.4	16	0.93	73
F 6	Sun	9.268	12.001	4	0,20	309	O 11	10	10.17	804	.,, 01	0.12	5,10	7.7		0.94	73
7	Mon	11,015		5		459		13		1,213		0.12		11.0		1.06	97
- '	Tue	9.988		4		333		18		1,499		0.12		10.0		0.96	80
- 6		9.997		3		250		14		1,167		0.12		10.0		0.85	71
10	17700	9.356		3		234		9		687		0.12		9.4		0.76	59
	Thu Fri	8.818		3		221		5		397		0.12		8.1		0.65	48
12	$\overline{}$	8.365	9.544	2	3.43	140	278	5	10.71	363	876	0.10	0.11	7.0	9	0.70	49
	Sat Sun	9.292	3.544	2	3.43	155	270	4	10,71	325	070	0.09	0.11	7.0	3	0.70	71
14	Mon	10.361		2		173		4		380		0.08		6.9		0.81	70
15	Tue	11.535		2		192		6	······································	558		0.11		10.6		0.76	73
16	Wed	12.146		2		203		7		709		0.11		12.2		0.73	74
17	. I	11.846		2		198		6		613		0.06		5.9		0.73	72
	Thu Fri	11.502		2		192		7		633		0.10		9.6		0.87	83
19	T	10.605	11.041	2	2.00	177	184	7	5.83	584	543	0.08	0.09	7.1	8	0.70	62
20	1	10.301	11.041	2	2.00	172	104	5	0.00	447	010	0.10	0.00	8.6		0.62	53
21		10.602		2		177		6		566		0.07		6.2		0.63	56
22	Mon	10.588		2		177		6		547		0.08		7.1		0.67	59
	Tue Wed	10.356		2		173		7		570		0.09		7.8		0.85	73
24		10.691		3		267		8		713		0.22		19.6		0.77	69
25	1	11.146		2		186		6		548		0.09		8.4		0.62	58
26		9.804	10.498	3	2.29	245	200	6	6.27	458	550	0.09	0.11	7.4	9	0.58	47
27		9.445	10.400	3		236	200	6	0,21	488		0.09	5,11	7.1		0.76	60
	Sun Mon	10.232		2		171		6		546		0.09		7.7		0.73	62
20	Tue	10.232		2		172		6		517		0.00		10.3		0.73	61
	Wed	10.052		3		252		6		537		0.12		10.1		0.71	60
	Wed_ Thu	10.632	9.975	4	2.71	354	249	9	6,61	832	553	0.75	0.14	31.9	12	0.75	66
Avg		10.646	0.010	3		248	270	9	0,01	855		0.14	U, 17	11.1	12	0.83	75
Max		14.171	12,651		3.43	473	347	27	16,14	3,215	1,731	0.75	0.15	40.6	16	1.5	168
Min		8.365	9.544	2		140	184	4	5,83	325	543	0.06	0.13	5.9	8	0.6	47
191111		0.000	0.044	2	2.50	1 10	137	Т	5,50	020	3 70	9,00	3.30	0.0	3	5.0	11
Dat	a	31	5	31	5	31	5	31	5	31	5	31	5	31	5	31	31

	Total Monthly Flo	w:				
Percent Removal	BOD5	S.S.	Ammonia	Phosphorus	(million gallons)	330
Primary Treatment	29.74	58.0				
	NA	NA			Percent Capacity	
Secondary Treatment	96.5	84.4			(actual flow/design)	53%
Overall Treatment	97.56	93.5	99.4	78.5		
Phosphorus limit would be	75	% removal.	(compliance	achieved)		

Page 3 of 6

	SLUDG	E TO				DIG	CTED (	DEDAT	ION					
	DIGEST		Anaerol	bic Only		DIGESTER OPERATION								
Day Of Month	Primary SludgeGal. x 100	Waste Act. Sludge Gal. x 1000	Hd	Gas Production Cubic Ft. x 1000	Temperature - F	Supernatant Withdrawn hrs. or Gal. x 1000	Supernatant BOD5 mg/l or NH3-N mg/l	Total Solids in Incoming Sludge - %	Total Solids in Digested Sludge - %	Volatile Solids in Incoming Sludge - %	Volatile Solids in Digested Sludge - %	Digested Sludge Withdrawn hrs. or Gal. x 1000		
1	36.25	224.64	7.2		94	7.074		4.16	2.22	78.49	57.14	121.62		
2	35.22	223.20	7.2		96	10.611		3.41	2.06	75.70	56.62	108.20		
3	24.94	220.32	7.2		97			0.80	1.96	70.97	56.67	122.73		
4	37.04	231.84	7.3		98	7.074		3.42	1.95	65.97	58.33	69.98		ļ
5	37.45	249.12	7.3		98			3.44	1.98	70.27	57.52			
6	44.12	250.56	7.4		99			3.60	1.90	73.31	56.10			
7	28.66	239.04	7.3		102			3.57	1.91	78.34	56.91			
8	33.11	254.88	7.3		102			3.62	1.89	76.75	57.36	138.34		
9	29.62	250.56	7.3		101	17.685		4.17	1.92	76.01	56.74	122.39		
10	34.15	259.20	7.2		101	14.148		3.51	1.90	74.47	55.86	122.56		
11	39.73	252.00	7.2		100			3.69	1.91	74.10	58.47	69.99		
12	38.90	253.44	7.3		102			3.24	1.78	73.14	57.52			
13	38.65	252.00	7.3		103			3.38	1.97	73.66	56.85			
14	25.93	254.88	7.2		101			3.81	1.96	79.48	55.40	121.18		
15	29.24	252.00	7.2		99	21.222		4.61	1.92	73.75	56.35	121.77		
16	26.47	280.80	7.2		102	14.148		4.08	1.91	76.60	57.03	122.98		
17	34.42	288.00	7.2		102			3.86	1.90	74.30	56.25	123.38		
18	34.49	288.00	7.3		103	7.074		3.67	2.03	73.90	56.93	70.25		
19	32.72	288.00	7.2		103	14.148		3.59	1.88	73.65	56.52			
20	30.80	288.00	7.2		101			3.43	1.87	75.00	56.74			
21	21.34	288.00	7.2		104	28.296		5.17	1.88	70.81	57.14			
22	27.00	292.32	7.2		104	3.537		3.91	1.85	77.19	57.04	122.95		
23	28.54	289.44	7.3		104	21.222		5.26	1.88	71.05	58.33	122.47		
24	29.01	286.56	7.3		104	21.222		5.15	1.80	75.34	58.16	122.48		
25	28.43	285.12	7.3		104	21.222		3.66	1.86	75.28	57.14	70.14		
26	36.28	283.68	7.2		103			4.00	1.83	75.69	56.78			
27	29.26	280.80	7.3		103			5.40	1.89	76.51	59.32			
28	27.42	282.24	7.4		100			4.30	1.89	79.42	56.83			
29	28.34	285.12	7.3		104	28.296		3.73	1.84	77.51	59.62	123.43		
~~~	27.15	285.12	7.3		105			4.90	1.87	77.55	54.95	122.84		
31	26.43	283.68	7.3		104	14.148		4,38	1.90	77.02	57.76	122.96		
Avg.	31.65	265.89			101	15.695		3.90	1.91	74.88	57.11	112.13		ļ
Max.	44.12	292.32	7.4		105	28.296		5.40	2.22	79.48	59.62	138.34		
Min.	21.34	220.32	7.2		94	3.537		0.80	1.78	65.97	54.95	69.98		
Data	31	31	31	О	31	16	0	31	31	31	31	20	0	(

Once completed, this form should be converted to a pdf document, named appropriately & attached to the corresponding netDMR for submittal

State For Name of F	m 10829 (F acllity	R4 / 01-20) Permit Numb	ег	Month		Year										
Elkhart	Elkhart IN0025674 Octo		ober 2024													
Substitute for State Form 30530																
Final Effluent																
	Chlo	oride	Total N	litrogen												
Day Of Month	Chloride - mg/l	Chloride - lbs/day	Total Nitrogen- mg/l	Total Nitrogen- lbs/day	Ag - Influent mg/l	Ag - Effluent mg/L	Cd - Influent mg/L	Cd - Effluent mg/L	CN - Influent mg/L	CN - Effluent mg/L	Cr - Influent mg/L	Cr - Effluent mg/L	Cu - Influent mg/L	Cu - Effluent mg/L	Hg - Influent ng/L	Hg - Effluent ng/L
1			19.30	2,241					0.0020	0.0020					,,	
3					-				0,0020	0.0020		-				
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Max. Min.	189		19.30	2241								0.0020				
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WASTEWATER TREATMENT PLANT

State F Name o	orm 10829 f Facility	(R4 / 01-20 Permit Numb) Der	Month		Year]								
Elkhart		IN00256	574	Oct	ober	20	24									
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£	пg	l g	Ε̈́	Ĕ	E G	ΕÙ										
Day Of Month	Ni - Influent mg/L	Ni - Effluent mg/L	Pb - Influent mg/L	Pb - Effluent mg/L	Zn - Influent mg/L	Zn - Effluent mg/L										
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	Elkhart									Page	1 of	9		F	erm	nit Number:	IN	0025574	
Facility:	Elkhart P	ublic Worl	s & Utilitie:	s							F	Public No	tific	ation Requ	iren	nents Met?	Υ		
Monitori	ing Period	; C	october	2024							E	nter "x" i	no	CSO disch	arg	e occurred	for	the month:	: x
Design I	Peak Hour	ly Flow (M	IGD):	44	Design Av	erage Flow	(MGD):	20		Measured/	Met	ered (M) o	or E	stimated (E	E) m	ust be spe	cifie	d	
WWTF	nfluent '	Data		Pre	ecipitation [Data			С	SO Outfall	No.	005			C	SO Outfall	No.	006	
Day of Month	Average Daily Flow (MGD)	Peak Hourly Flow (MGD)	Time Precip. Began (am/pm)	Precip, Duration (Hours)	Total Dally Precip. (Inches)	Peak Intensity (Inch/hr)	Measureme nt Interval (hr, 30 m, 15 m)	Time Discharge Began	M or E	Event Duration (Hours)	M or E		M or E	Discharge	M or E		M or E	Event Discharge (MG)	M or I
1	10.800	12.600					15 min												
2	10.192	12.300					15 min												
3	10.775	12.200					15 min										Γ		
4	11.008	12.100					15 min								Γ				
5	10,033	12.100					15 min												Τ
6	10.150	11.900					15 min												
7	11.227	13.800					15 min												
8	10.725	12.100					15 min			,					Π		Γ		T
9	10,200	11.700					15 min		Γ						Π				T
10	10.025	11.200					15 min												T
11	9.800	11.400					15 min												Т
12	9.000	11.000	6:51 PM	5.00	0.14	0,20	15 min												
13	10.508	13,000	3:16 PM	6,88	0,26	0.68	15 min												
14	11.408	13.200	12:11 AM	19.97	0.19	0.16	15 min												
15	11.120	13.700					15 min												
16	11.725	13,000					15 min									:			
17	11.742	13.300					15 min											***************************************	
18	11.425	12.900					15 min										<u> </u>		T
19	11.000	12,300					15 min												T
20	11.158	12,800					15 min												T
21	11.108	12.800					15 min												T
22	11.191	12.500					15 min						П				Π		T
23	11.216	12.600					15 min										T		
24	11.275	12.200					15 min												T
25	11.633	16,400	3:39 AM	5.62	0.26	0.24	15 min										T		
26	10.508		6:26 AM	0,30	0.01	0,04	15 min										T		Ī
27	10.325	12,000				,	15 min				П								
28	11.342	12,700					15 min		П		П								
29	11.667	12,600					15 min		П		П						П		T
30	11.591	13.500					15 min				П						T		T
31	11.866	14.500	8:11 AM	4.17	0.15	0.24	15 min		П		Н		П				T		
Totals:	337.74	17,000	3, 1 1 / 1)VI	41.94	1.01	5.27	10 111111	0	Da ys	0.00		0		0	Da ys	0.00		0	İ



	DEPARTME Elkhart	141 0	LITTING	21411112	MIAL MAI	inu	La li i ha i y						Page 2	2 of	9			Pern	nit Number:	IN	0025574			
100000000000000000000000000000000000000	Elkhart Pi	ubli	c Works	: & L	Itilities									5000		tific	diametrakan sid		nents Met?	ľ.				
	ing Period:		Octo		2024														discharge		ccurred f	or th	e month:	х
	Peak Flow				44		Design Fl	ow	(MGD):		20	27.000.000	Measured/	Met					ust be spec	744		<u> </u>		
			O Outfall		007				O Outfall	No	008				O Outfall						SO Outfall	No	011	
			<u>o oanan</u>	1	007			Ī	O Guillani		VV0				Ounan					Ī	l Ganan			
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Duration	M or E	Event Discharge (MG)	M or E
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29 30 31

Totals:

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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT City: Elkhart Page 3 of 9 Permit Number: IN0025574 Public Notification Requirements Met? Y Facility Elkhart Public Works & Utilities Enter "x" if no CSO discharge occurred for the month: X Monitoring Period: October 2024 Design Flow (MGD): Measured/Metered (M) or Estimated (E) must be specified Design Peak Flow (Hourly) (MGD): 20 CSO Outfall No. 14B CSO Outfall No. CSO Outfall No. 012 CSO Outfall No. 013 M Event M or Duration or (Hours) E Event M Event Event Time Event Event Event M or E Time Event Time Duration or (Hours) E or Duration M E (Hours) or E Discharge (MG) Duration (Hours) Discharge (MG) Discharge (MG) Discharge (MG) or Discharge E Began Discharge Discharge Discharge Month Began Began Began Began 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28



		NTC	FENVIRO	NME	NTAL MAN	IAG	EMENT						I							·				
	Elkhart												Page 4						nit Number:	3	0025574			
	Elkhart P								Special house					P		11/15			nents Met?					
57490650650	ing Period:	94.596	Octo		2024								1000						discharge			or th	e mont	<u>h:⊦X</u>
Design :	Peak Flow	(Ηοι	ırly) (MG	D);	44	1386	Design F	ow	(MGD):		20	(45)65	Measured/	Met	ered (M)	or E	stimated (E) n	iust be spe	cifie	id			
		cs	O Outfall	No.	016			CS	O Outfall	No.	017			cs	O Outfall	No.	018			C	SO Outfal	l No.	019	ì
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Discharge	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began					M or E		M or E	Event Duration (Hours)	M or E	Event Dischar (MG)	ge M
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R4 / 9-15)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Page 5 of 9 Permit Number: IN0025574 City: Elkhart Facility: Elkhart Public Works & Utilities Public Notification Requirements Met? Y Enter "x" If no CSO discharge occurred for the month: X Monitoring Period: October 2024 Design Flow (MGD): Design Peak Flow (Hourly) (MGD): 20 Measured/Metered (M) or Estimated (E) must be specified 44 CSO Outfall No. CSO Outfall No. 024 CSO Outfall No. 020 CSO Outfall No 023 M Event or Duration E (Hours) Event Time Event Event M or E Discharge Began or Duration E (Hours) or Duration M E (Hours) or E Discharge Began M Discharge or E (MG) Discharge Day of Month Duration (Hours) Discharge (MG) Discharge (MG) or E Discharge (MG) Discharge Began Began 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 0.0000 0,00 0,0000 0,00 0,0000 0.00 0.0000 Totals:



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Y Enter "x" if no CSO discharge occurred for the month: Pack Flow (Hourly) (MGD): 44 Design Flow (MGD): 20 Measured/Metered (M) or Estimated (E) must be specified CSO Outfall No. 037 CSO Outfall No. 039 CSO Outfall No. 040 CSO Outfall No. 050



City: Elkhart			Page: 9 of 9	Permit Number: IN0025574
Facility: Elkhart Public Works & Utilities	5		Public No	tification Requirements Met?
Monitoring Period; October	2024		Enter "x" i	f no CSO discharge occurred for the month: X
Design Peak Hourly Flow (MGD):	44	Design Average Flow (MGD): 20		
Day of Month Comments (further explar	nation as	to why each CSO event occurred)		
2				
3 4				
5 6				
7				
8 9				
10	-			
12				
13 14				
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16				
18				
20				
21 22				
23				
24 25				
26				
27 28				
29				
30 31				
Typed or Printed Name and Title of Prin	cipal Exe	cutive Officer or Authorized Agent		Telephone
		lo, Utilities Services Manager		574-293-2572
WITH A SYSTEM DESIGNED TO ASSUR INQUIRY OF THE PERSONS WHO MANA SUBMITTED IS, TO THE BEST OF MY K SUBMITTING FALSE INFORMATION, INC	E THAT O AGE THE NOWLED CLUDING	DOCUMENT AND ALL ATTACHMENTS WERE P IUALIFIED PERSONNEL PROPERLY GATHER A SYSTEM OR THOSE PERSONS DIRECTLY RESI 3E AND BELIEF, TRUE, ACCURATE, AND COM THE POSSIBILITY OF FINE AND IMPRISONMEN	ND EVALUATE THE INFO PONSIBLE FOR GATHERI LETE. I AM AWARE THA	RMATION SUBMITTED. BASED ON MY NG THE INFORMATION; THE INFORMATION AT THERE ARE SIGNIFICANT PENALTIES FOR
Signature of Principal Executive Officer	or Autho	rized Agent		Date (mm/dd/yy)

11/18/24



Date

Dec 23, 2024

Memo To

Board of Public Works

Memo From

Laura Kolo, Utility Services Manager

Subject

Wastewater Utility Monthly Report of Operations

for the month of November, 2024

Wastewater MRO Highlights

Parameter	Monthly Avg	Permit Limit
Suspended Solids mg/L	7	30
cBOD5 mg/L	3	25
Phosphorus mg/L	0.62	1.0
Ammonia mg/L	0.10	4.4 (Dec-Apr) 4.2 (May-Nov)
Avg Daily Flow MGD	10.33	Design - 20
Total Monthly Flow MGD	310	Report

Incident Reports Filed

Date	Location	Volume (gal)	Cause
None		:	
		,	

Wet Weather Overflows

Number of Events	Total Overlfow Volume (MG)
5 .	0,3453



State Form 10829 (R4 / 01-20)

Name of Facility			Permit Nu	mber		
Elkhart			IN0025	674		
Month	Year	Plant Des	gn Flow	Telephone	Number	
November	2024	20.00	mgd	5	74/293	-2572
E-mail address:	laura.kolo@	ocoei.org			035	Α
Certified Operator: N	lame	Class	Certificat	te Number	Expi	ration Date
Laura E Vala		87	1 4 5	004	004	2010007

										Laura E. I	Kolo			IV	150	94	06/3	30/2027
				Total=			CH	IEMICAI	LS									
				2.37				USED					RAW	SEWA	GE		, , ,	
Day Of Month	Day of Week	Man-Hours at Plant (Plants less than 1 MGD only)	Air Temperature (optional)	Precipitation - Inches	Bypass At Plant Site("x" If Occurred)	Sanitary Sewer Overflow("x" If Occurred)	Chlorine - Lbs/day	Ferric Chloride Lbs/Day or Gal./Day	Lbs/Day or Gal./Day	Influent Flow Rate (if metered) MGD	Hd	CBOD5 - mg/l	CBOD5 - lbs/day	Susp. Solids - mg/l	Susp. Solids - lbs/day	Phosphorus - mg/l	Ammonia - mg/l	
1	Fri							275		10.742	7.2	112	10,034	138	12,363	4.52	20.70	
2	Sat							243		10.425	7.0	95	8,260	146	12,694	3.70	17.30	
3	Sun			0.03				240		10.191	7.0	270	22,948	92	7,819	3.19	17.90	
4	Mon			0.61				243		14.116	7.1	78	9,183	196	23,075	4.80	14.50	
5				0.22				240		12.183	6.7	104	10,567	168	17,070	4.48	19.20	
6	Wed							243		10.866	7.0	119	10,784	118	10,693	5.56	23.40	
7	Thu							246		10.400	7.0	126	10,929	132	11,449	5,80	22.40	
8	Fri			0.01				202		10.633	7.0	140	12,415	110	9,755	4.40	21.20	
9	Sat							243		10.567	7.4	126	11,104	110	9,694	3.83	20.00	
10	Sun			0.36				195		12.766	6.9	138	14,693	142	15,119	3.45	15.00	
11	Mon							160		10.550	6.9	91	8,007	118	10,382	3.50	20.10	
12	Tue							246		10.858	7.1	137	12,406	154	13,946	4.96	21.80	
_13	Wed			0.19				243		11.083	7.0	138	12,756	142	13,125	4.24	22.50	
14	Thu			0.12				243		11.758	7.1	117	11,473	146	14,317	3.98	20.80	
15	Fri			0.02				240		10.867	7.6	110	9,969	198	17,945	3.80	20.60	
16	Sat							274		10.366	7.4	114	9,856	116	10,028	3.05	20.50	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
17	Sun			0.00				198		10.375	7.4	114	9,864	98	8,480	3.25	19.20	
18	Mon			0.26				234		11.775	7.1	112	10,999	126	12,374	3.89	19.00	
19	Tue			0.24				212		12.167	7.5	92	9,335	168	17,047	3.54	19.80	
20	Wed			0.13				319 303		11.241	7.0 6.9	124	11,625	186	17,437	3.90	22.40 25.30	······································
21	Thu			0.03						10.550 10.641	7.1	122 130	10,734	146	12,846	4.00 3.88	23.40	
22	<u>Fri</u>			0.09				273 258		10.833	7.1	115	11,537	154 94	13,667	3.92	20.40	
23 24	Sat			0.04				250		10.633	7.5	125	10,390 10,573	122	8,493 10,319	3.74	18.50	
25	Sun	· · · · · · · · · · · · · · · · · · ·		0.02				249		11,108	7.5	158	14,637	120	11,117	3.54	21.40	·····
26	Mon			0.02				237		11.025	7.7	131	12,045	160	14,712	5.28	24.20	
27	Tue							304		10.725	7.0	114	10,197	138	12,344	4.48	22.30	
28	Wed	 		<u> </u>				230		10.723	7.6	116	10,137	90	7,944	3.82	16.50	
29	Thu Fri	<u> </u>						189		9.867	7.5	70	5,760	62	5,102	3.03	20.30	
30		 		<u></u>				235		9.742	7.6	99	8,044	86	6,987	2.77	19.70	
31	Sal							200		3/1 IE	1,0		3,0 . 7		3,007		. 5., 5	·
Avei	aue	1		0.16				242		10.972		121	11,045	133	12,278	4.01	20.34	
	imum			0.61				319		14.116	7.7	270	22,948	198	23,075	5.80	25.30	
	mum			0.01				160		9.742	6.7	70	5760	62	5102	2.77	14.50	
# of	Data		0				0	30		30	30	30	30	30	30	30	30	0
		tify under								Prepared by	or under	the direction	n of (Certifie	d Operato	:	Date (mo	onth, day,	year)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Date (month, day, year)

Signature of principal executive officer or authorized agent (or attested by NetDMR subscriber agreement) aura Kolo

State Form 10829 (R4 / 01-20)			
Name of Facility	Permit Number	Month	Year
Eikhart	IN0025674	November	2024

	PRIMAR		MAIVEDI	OLIOP	AE	RATIO	N			SECON			F	INAL E	EFFLUE	ENT		
	EFFLUE	:14 [MIXED LI	QUUK	1			RETURN S	LUDGE	EFFLUE	:N1				1	1		Ι
Day Of Month	CBOD5 - mg/l	Susp. Solids - mg/l	Settleable Solids % in 30 minutes	Susp. Solids - mg/l	Sludge Vol. Index - ml/gm	Dissolved Oxygen - mg/l	Temperature - F	Volume - MG	Susp. Solids - mg/l	CBOD5 - mg/l	Susp. Solids - mg/l	Residual Chlorine - Final	Residual Chlorine - Contact Tank	E. Coli - colony/100 ml	pH - daily low (or single sample)	pH - daily high (if multiple samples)	Dissolved Oxygen - mg/l	Oil & Grease (mg/l)
1	84	82	124	1,924	64	4.9	18	14.272	3,740						7.7		8.5	
2	62	58	133	2,080	64	5.3	18	14.272	3,240						7.0		8.7	
3	177	56	116	2,224	52	3.7	17	14.272	3,960						7.7		8.8	
4	69	70	127	2,084	61	4.6	17	14.272	4,000						7.0		8.3	
5	74	78	123	2,400	51	4.1	18	14.272	4,460						7.7		8.3	
6	72	48	132	1,948	68	3,3	18	14.272	3,980					17	7.7		8.3	
7	84	58	136	2,004	68	3.3	18	14.272	3,880					26	7.7		8.3	
8	89	63	139	2,064	67	4.4	18	14.272	3,920					21	7.7		8.4	:
9	90	67	124	2,088	59	4.7	17	14.272	3,620						7.0		8.9	
10	88	85	103	4,292	24	4.4	17	14.272	3,820						7.7		8.7	
11	75	57	128	1,848	69	4.6	17	14.254	3,340						7.6		8.4	
12	90	60	112	1,792	63	3.3	17	14.272	3,700					13	7.7		8.7	
13	78	60	128	1,772	72	3.1	17	10.803	2,020					10	7.0		8.7	
14	103	61	120	1,940	62	3.4	17	7.785	3,820					13	7.0		8.6	
15	78	94	125	1,908	65	4.6	17	7.785	3,900				_		7.8		8.7	
16	81	70	117	2,176	54	5.0	17	7.785	3,780						7.8		8.7	
17	82	76	122	2,036	60	5.2	17	7.785	4,160						7.7		8.8	
18	73	66	120	1,920	63	4.1	17	7.785	3,720					50	7.5		8.5	
19	73	80	118	1,940	61	3.7	17	7.785	3,820					10	7.4		8.3	
20 21	81 84	66 87	118 118	1,888	63 62	3.1 3.8	17 16	7.785 7.785	4,260					15	7.5 7.7		8.3 8.5	
22	115	82	120	1,904 1,936	62	4.4	16	7.785	3,760 3,860						7.0		8.7	
23	106	65	115	1,836	63	4.4	16	7.785	3,780						7.6		8.6	
24	88	57	108	2,092	52	5.6	16	7.785	4,540						7.6		8.2	
25	106	73	110	1,884	58	3.3	17	7.785	3,940					5	7.6		8.3	
26	93	52	113	1,856	61	3.6	16	7.785	3,840					21	7.6		8,8	
27	67	65	115	1,828	63	3.8	16	7.785	3,840					24	7.6		8.7	
28	91	56	116	1,880	62	4.8	16	7.785	3,660	ļi		1			7.6		8.6	ļ
29	77	45	119	1,876	64	6.0	15	7.785	3,540						7.5		9,1	
30	74	52	113	1,872	60	6.4	15	7.785	3,180						7.0		9.3	<u> </u>
31	• 1	<u> </u>		.,5,2		9.1		55	5,700	 								
Avg.	87	66	120	2,043	61	4.3	17	10.480	3,769					19			8.6	
Max	177	94	139	4,292	72	6.4	18	14.272	4,540					50		7.8	9.3	
Min.	62	45	103	1772	24	3.1	15	7.785	2020	 				5		7.00		
Daily	·	-			- •	- , ,	-						1	50				l
		ove 235												0				
Data			30	30	30	30	30	30	30	0	0		1 0	12	30	0	30	0

Comments for the Month (major repairs, breakdowns, process upsets and their causes, inplant treatment process bypass, etc.): Raw pH not recorded on October 21 or October 24.

State Form 10829 (R4 / 01-20)			
Name of Facility	Permit Number	Month	Year
,			
Elkhart	INIOOSEEZA	November	2024
Likijait	1140023074	November	2024

							FI	NAL EFF	LUENT								
		Flow		BOD				Total Su			3	Ammor	ia			Phosph	orus
Day Of Month	Day of Week	Effluent Flow Rate (MGD)	Effluent Flow Weekly Average	CBOD5 - mg/l	CBOD5 - mg/l Weekly Average	CBOD5 - lbs/day	CBOD5 - lbs/day Weekly Average	Susp. Solids - mg/l	Susp. Solids - mg/l Weekly Average	Susp. Solids - Ibs/day	Susp. Solids - Ibs/day Weekly Average	Ammonia - mg/l	Ammonia - mg/l Weekly Average	Ammonia - Ibs/day	Ammonia - Ibs/day Weekly Average	Phosphorus - mg/l	Phosphorus - Ibs/day
1	Fri	9.791		2		163		5		416		0.11		9.0		0.60	49
2	Sat	9.372		3		234		7		532		0.08		6.3		0.63	49
		9.177		4		306		6		459		0.09		6.9		0.58	44
4	Mon	14.366		3		359		9		1,054		0.19		22.8		0.50	60
5	Tue	11.477		2		191		6		536		0.09		8.6		0.50	48
6	Wed	10.023		2		167		5		435		0.12		10.0		0.55	46
7	Thu	9.943		2		166		7		547		0.12		10.0		0.72	60
8	Fri	9.775		2		163		6		489		0.08		6.5		0.75	61
9		9.487	10.607	3	2.57	237	227	6	6,37	506	575	0.08	0.11	6.3	10	0.74	59
	Sun	12.338		3		309		6		659		0,08		8.2		0.79	81
11	Mon	9.962		4		332		6		457		0.11		9.1		0.64	53
12	Tue	10.332		3		259		6		551		0.12		10.3		0.57	49
13	Wed	10.487		3		262		6		525		0.10		8.7		0.64	56
14	Thu	10.684		2		178		8		748		0.09		8.0		0.70	62
15	Eri	9.860		2		164		7		551		0.09		7.4		0.59	49
16	Sat	9.586	10.464	3	2.86	240	249	6	6,53	504	571	0.09	0.10	7.2	8	0.44	35
17	Sun	9,550		2		159		5		430		0.08		6.4		0.48	38
18	Mon	11.452		2		191		7		649		0.09		8.6		0,60	57
19	Tue	12.673		3		317		9		930		0.10		10.6		0.57	60
20	Wed	10.743		3		269		7	.,.	618		0.13		11.6		0.59	53
21	Thu	10.176		4		339		10		849		0.12		10.2		0.49	42
22	Trui	10.313		4		344		9		774		0.10		8.6		0.47	40
23	Sat	9.591	10.643	4	3.14	320	277	9	8.01	736	712	0.11	0.10	8.8	9	0.53	42
24	Sun	9,384		3		235		8		610		0.10		7.8		0.66	52
25	Mon	10.125		3		253		9		726		0.12		10.1		0.64	54
26	Tue	10.205		3		255		8		698		0.11		9.4		0.57	49
27	Wed	10.441		2		174		6		557		0.11		9.6		0.66	57
28	Thu	9.723		2		162		7		600		0.09		7.3		0.77	62
29	rnu	9.255		3		232		7		571		0.09		6.9		0.73	56
	Sat	9.596	9.818	4	2.86	320	233	7	7.54	560	618	0.08	0.10	6.4	8	0.79	63
31		0,000	0.010	-7	2,00	020	200	· ·	7.01	000		- 5,55	5115				
Avg		10.330		3		243	• •	7		609		0.10		8.9		0.62	53
Max		14.366	10.643	4	3.14	359	277	10	8.01	1,054	712	0.19	0.11	22.8	10	0.8	81
Min	`	9.177	9.818	2		159	227	5	6.37	416	571	0.08	0.10	6.3	8	0.4	35
IVIII		0,111	0.010		2,07				0.07			-,55					
Det	_	30	4	30	4	30	4	30	4	30	4	30	4	30		1 30	30
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	MONTHLY RE	MOVAL SUMI	MARY		Total Monthly Flov	/ :
Percent Removal	BOD5	S.S.	Ammonia	Phosphorus	(million gallons)	310
Primary Treatment	28.40	50.0		166		
	NA	NA			Percent Capacity	
Secondary Treatment	96.7	89.4			(actual flow/design)	52%
Overall Treatment	97.66	94.7	99.5	84.6		
Phosphorus limit would be	80	% removal.	(compliance	achieved)		

State Form 10829 (F	(4 / 01-20)		
Name of Facility	Permit Number	Month	Year
Elkhart	IN0025674	November	2024

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	SLUDG					DIGE	ESTER	DPERAT	ION					
	DIGEST	ER	Anaero	bic Only										
Day Of Month	Primary SludgeGal. x 100	Waste Act. Sludge Gal. x 1000	Hd	Gas Production Cubic Ft. x 1000	Temperature - F	Supernatant Withdrawn hrs. or Gal. x 1000	Supernatant BOD5 mg/l or NH3-N mg/l	Total Solids in Incoming Sludge - %	Total Solids in Digested Sludge - %	Volatile Solids in Incoming Sludge - %	Volatile Solids in Digested Sludge - %	Digested Sludge Withdrawn hrs. or Gal. x 1000		
1	30.55	282.24	7.3		104	35.370		4.81	1.96	77.54	55.17	70.37		
2	38.92	282.24	7.3		99			3.82	1.96	74.79	56.93			
3	21.66	283.68	7.2		103	66,500		4.09	2.01	76.54	56.20			
4	26.67	283.68	7.2		101	0.000		4.40	2.03	77.50	57.69			
5	34.19	282.24	7.3		103			4.13	1.92	77,90	57.14			
6	27.53	275.04	7.2		103	0.000		6.60	2.07	77.50	57.97	122.93		
7	40.29	280.80	7.3		102	0.000		3.54	1.97	74.22	58.27	123.27		
8		288.00	7.4		103			4.38	1.91	75.09	56.64	69.47		
9	33.12	288.00	7.3		102			3.70	1.99	74.92	57.43			
10	26.07	288.00	7.2		103	35.000		5.45	2.04	78.42	56.41			
11	31.42	288.00	7.1		100	28,296		4.63	1.98	79.23	58.42			
12	25.90	288.00	7.2		102	7.074		3.12	1.88	79.14	59.13	122.45		
13	26.90	288.00	7.1		100			1.89	1.80	74.85	57.85	122.06		
14	27.92	288.00	7.2		101	10,611		2.49	1.86	76.28	57.14	123.91		
15	32.80	288.00	7.1		103	0.000		3.92	1.82	74.09	56.45	70.17		
16	41.16	266.40	7.2		102	31.500		2.33	1.79	71.84	56,90			
17	37.90	259.20	7.2		99	14.148	.,	3.26	1.74	73.87	55.14			
18	32.32	259.20	7.3		99			3.42	1.76	79.46	56.90	122.49		
19		259.20	7.3		101	10.611		3.97	1.73	74.91	58.16	121.08		
20		259.20	7.3		102			4.12	1.72	73.48	57.69	105.26		
21	36.94	259.20			101		***************************************	4.06	1.73	74.42	56.67	122.87		
22	40.08	259.20	7.2		101	3.537		3.84	1.78	72.73	57.14	69.80		
23	34.51	259.20	7.3		101			3.86	1.82	72.77	57.04			
24		259.20	7.2		99	0.000	····	3.81	1.75	73.13	56.04			
25		259.20	7.2		98			4.20	1.81	81.38	57.28	121.92		
26		259.20	7.2		101			3.22	1.79	75.70	58.76	122.47		
27	28.06	259.20	7.3		99	17.685		2.21	1.83	74.36	58.21	122.87		
28	35.16	259.20			100			3.74	1.53	76.68	61.54			
29		259.20			100	7.074		4.25	1.76	78,93	60.23			
30		259.20			99	7.074		4.91	1.82	81.50	57.26			
31														
Avg.	31.98	272.30			101	15.249		3.87	1.85	76.11	57.46	108.34		***************************************
Max.	41.16	288.00			104	66.500		6,60	2.07	81.50	61.54	123.91		
Min.	18.02	259.20			98	0.000		1.89	1.53	71.84	55.14	69.47		
			7 25											
Data	30	30	30	0	30	18	0	30	30	30	30	16	0	0

Once completed, this form should be converted to a pdf document, named appropriately & attached to the corresponding netDMR for submittal

State For	rm 10829 (R Facility	4 / 01-20) Permit Numb	er	Month		Year										
Elkhart		IN00256	74	Nove	mber	20:	24									
				State Form												
			Effluent													
	Chlo	ride	Total N	litrogen		ĺ										
Day Of Month	Chloride - mg/l	Chloride - Ibs/day	Total Nitrogen- mg/l	Total Nitrogen- lbs/day	Ag - Influent mg/l	Ag - Effluent mg/L	Cd - Influent mg/L	Cd - Effluent mg/L	CN - Influent mg/L	CN - Effluent mg/L	Cr - Influent mg/L	Cr - Effluent mg/L	Cu - Influent mg/L	Cu - Effluent mg/L	Hg - Influent ng/L	Hg - Effluent ng/L
2																
3																
4					0.0003										32.6000	1.0700
5			17.90	1,713		0.0002									ļ	
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29		12 205														
30 31		13,285			-											
Avg.	166	13,285	17.90	1,713	0.0003	0.0002									32.6000	1.0700
Max.	166	13,285		1,7,10		0.0002							<u> </u>			1.0700
Min.	166	13,285		1713		0.0002										1.0700
	10 P															
Data	1	1	1	1	4	4	0	0	C	0	0	0	0	C	1	1

WASTEWATER TREATMENT PLANT

State F Name of	orm 10829 Facility	(R4 / 01-20) Permit Numb) per	Month		Year										
Elkhart		IN00256	374	Nove	mber	202	24									
			stitute for													
		Jul	Strute 101	Otate i on	1 00000											
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Day Of Month	ent	eut	len	le l	leu	Ter										
5	Ni - Influent mg/L	Ni - Effluent mg/L	Pb - Influent mg/L	Pb - Effluent mg/L	Zn - Influent mg/L	Zn - Effluent mg/L										
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Form Approved OMB No. 2040-0004 expires on 07/31/2026

DMR Copy of Submission

Expand Notices

Permit ID: Permit

IN0025674 Permittee:

ELKHART WWTP

Permittee Address:

Major:

ELKHART WWTP

Facility:

035 - External Outfall Permitted Feature:

Facility Location:

Report Dates & Status

035-A - 20 MGD CLASS IV ACTIVATED SLUDGE - TO ST JOSEPH RIVER Discharge:

12/28/24

DMR Due Date:

1201 S NAPPANEE ST ELKHART , IN46516 ELKHART, IN46516 229 SOUTH 2ND ST

> From 11/01/24 to 11/30/24 Monitoring Period:

NetDMR Validated

Status:

Considerations for Form Completion

THE FLOW METER(S) SHALL BE CALIBRATED AT LEAST ONCE EVERY TWELVE MONTHS. REPORT QUARTERLY PARAMETERS ON 035-AQ NETDMR. MUNICIPAL MAJOR ELKHART COUNTY

Principal Executive Officer

Laura First Name:

Telephone: Utility Services Manager Title:

574-293-2572

Kolo

Last Name:

No Data Indicator (NODI)

Form NODI:

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Code Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units	Ex.	CIC.	2
0300 Oxygen, dissolved [DO]	Smpl.				=8.2			19 - mg/L (0 01/01 Daily		3R - 3 Grabs/24 hours
1 - Effluent Gross Season: 0	Req.			* ************************************	>=4.0 DLYAVMIN			19 - mg/L	01/01 Daily	,	3R - 3 Grabs/24
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00400 pH	Smpl.				=7.0		=7.8	12 - SU (0 01/01 Daily		GR - Grab
1 - Effluent Gross Season: 0	Req.				>=6.0 DAILY MN		<=9.0 DAILY MX	12 - SU	01/01 Daily	1	GR - Grab
NODI: -	NoDI		per depose on a large of the process of the administrations								
00530 Solids, total suspended 1 - Effluent Gross	Smpl.	=609.0	=1054.0	26 - lb/d		=7.0	=10.0	19 - mg/L (0 01/01 0 Daily	i	24 - 24 Hour Composite
Season: 0	Req.	<=7511.0 MO AVG	<=11266.0 MX WK AV	26 - lb/d		<=30.0 MO AVG	<=45.0 MX WK AV	19 - mg/L	01/01 Daily		24 - 24 Hour Composite
NODI: -	NODI	the development of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of th	· COCKE MILES - Commission on the seminate and displacements on the commission	100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 miles 100 mi	to the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the companion of the						
00600 Nitrogen, total [as N] 1 - Effluent Gross	Smpl.	=1713.0		26 - Ib/d		=17.9		19 - mg/L (01/30 - 0 Monthly		24 - 24 Hour Composite
Season: 0	Req.	Req Mon MO AVG	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	26 - lb/d		Req Mon MO AVG		19 - mg/L	01/30 - Monthly		24 - 24 Hour Composite
NODI: -	NODI										
00610 Nitrogen, ammonia total [as N] 1 - Effluent Gross	Smpl.	=8.9	=22.8	26 - lb/d		=0.1	=0.19	19 - mg/L	0 01/01 Daily	1	24 - 24 Hour Composite
Season: 1	Req.	<=1051.0 MO AVG	<=2478.0 DAILY MX	26 - lb/d		<=4.2 MO AVG	<=9.9 DAILY MX	19 - mg/L	01/01 Daily	1	24 - 24 Hour Composite
NODI: -	NODI			The second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th							
00665 Phosphorus, total [as P] 1 - Effluent Gross	Smpl.	=53.0		26 - lb/d		=0.62		19 - mg/L	0 01/01 Daily	1	24 - 24 Hour Composite
Season: 0	Reg.	Req Mon MO AVG	and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t	26 - lb/d	A CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR	<=1.0 MO AVG		19 - mg/L	01/01 Daily	ı	24 - 24 Hour Composite
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NODI Req. C=0.053 NO AVG C=0.13 DALIY MX 25 - Ib/d AvG C=0.00038 MO C=0.00077 DALIY 19 - mg/L Silver total C=0.00037 C=0.00077 DALIY Silver total C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037 C=0.00037	, š	Smpl.	1	<0.021		<0.0002	<0.0002		01/07 - Weekiy	24 - 24 Hour Composite
Silver total NoDI	Season: 0	Reg.	<=0.063 MO AVG	<=0.13 DAILY MX		<=0.00038 MO AVG	<=0.00077 DAILY MX	19 - mg/L	01/07 - Weekly	24 - 24 Hour Composite
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How, in conduct or treatment Smpl. = 10.33 MGD MGD MGD	NODI: -	NODI								19.
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Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

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Report Last Saved By

ELKHART WWTP

User:

laura.kolo@coei.org Laura Kolo E-Mail: Name:

Payton88

2024-12-23 08:26 (Time Zone:-05:00)

Report Last Signed By

User:

Date/Time:

Laura Kolo E-Mail: Name:

Payton88

laura.kolo@coei.org

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Gity: Elkhart				Page: 9 of 9	Permit Number: IN0025574
Facility: Elkhart Public Works & Utilities				Public Notif	ication Requirements Met?
Monitoring Period: November	2024		(65)	Enter "x" if r	no CSO discharge occurred for the month:
Design Peak Hourly Flow (MGD):	44 C	esign Average Flow (MGD):	20		
Day of Month Comments (further explanated) 1 2 3	ion as to	why each CSO event occurred)			
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CERTIFY UNDER PENALTY OF LAW THA WITH A SYSTEM DESIGNED TO ASSURE INQUIRY OF THE PERSONS WHO MANAG	T THIS DO THAT QUA E THE SY OWLEDGE	OCUMENT AND ALL ATTACHMENT ALIFIED PERSONNEL PROPERLY STEM OR THOSE PERSONS DIRE AND BELIEF, TRUE, ACCURATE,	IS WERE PRI GATHER AND CTLY RESPO AND COMPLI	DEVALUATE THE INFOR INSIBLE FOR GATHERIN ETE. IAM AWARE THAT	ECTION OR SUPERVISION IN ACCORDANCE MATION SUBMITTED. BASED ON MY G THE INFORMATION; THE INFORMATION T THERE ARE SIGNIFICANT PENALTIES FOR
Signature of Principal Executive Officer of	Authoriz	ed Agent 4 d l C			Date (mm/dd/yy)

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@ Signing Process Confirmation - CDX Activity ID: _306fd73a-0262-4903-9760-e6d819b6a776

Your DMRs are undergoing the Signing Process

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IN0025674	ELKHART WWTP	200	005-C	CSO- ARCH/BAR, NW OF INTERSECTION	11/30/24	12/28/24
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IN0025674	ELKHART WWTP	012	012-C	CSO- CASSOPOLIS/BEARDSLEY	11/30/24	12/28/24
IN0025674	ELKHART WWTP	013	013-C	CSO- JOHNSON/BEARDSLEY	11/30/24	12/28/24
IN0025674	ELKHART WWTP	014	014-C	CSO- DAM AT CONE/ERWIN	11/30/24	12/28/24
IN0025674	ELKHART WWTP	015	015-C	CSO- MICHIGAN/FULTON	11/30/24	12/28/24
IN0025674	ELKHART WWTP	016	016-C	CSO- DAN @ GOSHEN/SUPERIOR	11/30/24	12/28/24
IN0025674	ELKHART WWTP	017	017-C	CSO- W. BOULEVARD/MCNAUGHTON	11/30/24	12/28/24
IN0025674	ELKHART WWTP	018	018-C	CSO- MCNAUGHTON PARK WEST	11/30/24	12/28/24
IN0025674	ELKHART WWTP	019	019-C	CSO-MICHIGAN @ RVR, S. OF LEX.	11/30/24	12/28/24
IN0025674	ELKHART WWTP	020	020-C	CSO- BRIDGE AND HUDSON	11/30/24	12/28/24
IN0025674	ELKHART WWTP	023	023-C	CSO- FRANKLIN/8TH	11/30/24	12/28/24
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IN0025674	ELKHART WWTP	025	025-C	CSO- POTTAWATOMI/SECOND	11/30/24	12/28/24
IN0025674	ELKHART WWTP	026	026-C	CSO- MAIN/POTTAWATOMI	11/30/24	12/28/24
IN0025674	ELKHART WWTP	027	027-C	CSO- EDGEWATER/NAVAJO	11/30/24	12/28/24
IN0025674	ELKHART WWTP	028	028-C	CSO- WASHINGTON AT RIVER	11/30/24	12/28/24
IN0025674	ELKHART WWTP	029	029-C	CSO- JEFFERSON AT THE RIVER	11/30/24	12/28/24
IN0025674	ELKHART WWTP	031	031-C	CSO- ELIZABETH/LUSHER	11/30/24	12/28/24
IN0025674	ELKHART WWTP	032	032-C	CSO- EDGEWATER/OKEMA	11/30/24	12/28/24
IN0025674	ELKHART WWTP	033	033-C	CSO- EVANS/GRACE	11/30/24	12/28/24
IN0025674	ELKHART WWTP	034	034-C	CSO- LEXINGTON/6TH	11/30/24	12/28/24
IN0025674	ELKHART WWTP	035	035-A	20 MGD CLASS IV ACTIVATED SLUDGE - TO ST JOSEPH RIVER	11/30/24	12/28/24
IN0025674	ELKHART WWTP	037	037-C	CSO- FRANKLIN/KRAU	11/30/24	12/28/24
IN0025674	ELKHART WWTP	620	039-C	CSO- WEST HIGH AT RIVER	11/30/24	12/28/24
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NPDES eReporting Help Desk: <u>NPDESeReporting@epa.gov</u> | 877-227-8965 (9:00am - 8:00pm EST) **contact Us** to ask a question, provide feedback, or report a problem.

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Figning Process Confirmation - CDX Activity ID: _b7df8951-a89d-474a-b3f0-2eae8c6b0f0c

Your DMRs are undergoing the Signing Process

Permit ID Facility. Permit	Permit ID Facility. Permitted Feature Discharge # E	Discharge Description Monitoring Period End Date Date Date	Monitoring Period End Date D	DMR Due Date
035	U35-A	INUUZSO/4 EEKRARI WWTP USS USS-A ZU MGD CLASS IV ACTIVATED SLUDGE - 10 ST JOSEPH RIVER 12/31/24 01/28/25	12/31/24	1/28/25

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Form Approved OMB No. 2040-0004 expires on 07/31/2026

DMR Copy of Submission

Expand Notices

Permit

IN0025674 Permit ID: Permittee:

ELKHART WWTP

ELKHART WWTP

Facility:

035 - External Outfall

Discharge:

Facility Location:

Permittee Address:

Major:

1201 S NAPPANEE ST ELKHART , IN46516 229 SOUTH 2ND ST ELKHART , IN46516

035-A - 20 MGD CLASS IV ACTIVATED SLUDGE - TO ST JOSEPH RIVER

Report Dates & Status Permitted Feature: Monitoring Period:

From 12/01/24 to 12/31/24 **NetDMR Validated**

DMR Due Date:

01/28/25

Considerations for Form Completion

Status:

THE FLOW METER(S) SHALL BE CALIBRATED AT LEAST ONCE EVERY TWELVE MONTHS. REPORT QUARTERLY PARAMETERS ON 035-AQ NETDMR. MUNICIPAL MAJOR ELKHART COUNTY

Principal Executive Officer

Laura First Name:

Utility Services Manager

Last Name:

Telephone:

574-293-2572

Kolo

No Data Indicator (NODI)

Title:

Form NODI:

Code	1	Value 1	Value 2	Units Value 1	1 Value 2	Value 3	Units	ξă.	Analysis	Туре
00300 Oxygen, dissolved [DO]	Smpl.			9.8=			19 - mg/L	0	01/01 - Daily	3R - 3 Grabs/24
1 - Effluent Gross										nours
Season: 0	Req.			>=4.0 DLYAVMIN	/MIN		19 - mg/L	00	01/01 - Daily	3R - 3 Grabs/24 hours
NODI: -	NODI						4 to 100 market 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-	EL TROUTE DE L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'ALTE CONTRA L'A	
00400 pH	,			1			į		01/01 -	
1 - Effluent Gross	Smpl.			=7.0		=7.8	12 - SU	0	Daily	GR - Grab
Season: 0	Req.			>=6.0 DAILY MN	NW.	<=9.0 DAILY MX	12 - SU	0.0	01/01 - Daily	GR - Grab
NODI: -	NODI									
00530 Solids, total suspended 1 - Effluent Gross	Smpl.	=587.0	=722.0	26 - lb/d	=7.0	=8.0	19 - mg/L	0	01/01 - Daily	24 - 24 Hour Composite
Season: 0	Req.	<=7511.0 MO AVG	<=11266.0 MX WK AV	26 - lb/d	<=30.0 MO AVG	<=45.0 MX WK AV	19 - mg/L		01/01 - Daily	24 - 24 Hour Composite
NODI: -	NODI							; ;		
00600 Nitrogen, total [as N] 1 - Effluent Gross	Smpl.	=1825.0		26 - lb/d	=20.6		19 - mg/L	0	01/30 - Monthly	24 - 24 Hour Composite
Season: 0	Req.	Req Mon MO AVG		26 - lb/d	Req Mon MO AVG		19 - mg/L) 02	01/30 - Monthly	24 - 24 Hour Composite
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00610 Nitrogen, ammonia total [as N]	Smpl.	=11.6	=80.0	26 - lb/d	=0.15	=0.22	19 - mg/L	0	01/01 - Daily	24 - 24 Hour Composite
1 - Effluent Gross	OPEN TAXABLE MADE AND ASSESSED TO A SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND OF THE SECOND O				5.000		And the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o			
Season: 2	Req.	<=1102.0 MO AVG	<=2554.0 DAILY MX	26 - lb/d	<=4.4 MO AVG	<=10.2 DAILY MX	19 - mg/L		01/01 - Daily	24 - 24 Hour Composite
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00665 Phosphorus, total [as P] 1 - Effluent Gross	Smpl.	=59.0		26 - lb/d	=0.7		19 - mg/L	0	01/01 - Daily	24 - 24 Hour Composite
Season: 0	Req.	Reg Mon MO AVG		26 - lb/d	<=1.0 MO AVG		19 - mg/L		01/01 - Daily	24 - 24 Hour Composite
				Court - The Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of 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Code Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units	ž č	Andiysis	, Abe
NODI: -	NODI		* • • • • • • • • • • • • • • • • • • •								
01079 Silver total recoverable 1 - Effluent Gross	Smpl.	<0.015	<0.018	26 - lb/d		<0.0002	<0.0002	19 - mg/L	0	01/07 - Weekly	24 - 24 Hour Composite
Season: 0	Req.	<=0.063 MO AVG	<=0.13 DAILY MX	26 - Ib/d		<=0.00038 MO AVG	<=0.00077 DAILY MX	19 - mg/L		01/07 - Weekly	24 - 24 Hour Composite
NODI: -	NODI								the second second		0.000
01079 Silver total recoverable G - Raw Sewage Influent	Smpl.					<=0.0003	=0.00032	19 - mg/L	0	01/07 - Weekiy	24 - 24 Hour Composite
Season: 0	Req.					Req Mon MO AVG	Reg Mon DAILY MX	19 - mg/L		02/30 - Twice Per Month	24 - 24 Hour Composite
NODI: -	NODI										
50050 Flow, in conduit or thru treatment plant	Smpl.	=10.343		03 - MGD					0	01/01 - Daily	TM - Totalizer
1 - Effluent Gross	Talifo de desidade de desidade desidade desidade de desidade de desidade de desidade de desidade de desidade de desidade de de de de de de de de de de de de d			Company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the compan	A Trans. (March)				1	The second section of the section	
Season: 0	Req.	Req Mon MO AVG		03 - MGD						01/01 - Daily	TM - Totalizer
NODI: -	NODI										
51041 E. coli, colony forming units [CFU]	Smpl.					=21.0	=70.0	3Z - CFU/100mL	0	03/07 - Three Per	GR - Grab
1 ~ Effluent Gross	- Mary Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the 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82220 Flow, total	S. Jan.		-322 0	80 -					c	01/30 -	RT -
1 - Effluent Gross	5		0.225.0	Mgal/mo						Monthly	Total
Season: 0	Req.		Req Mon MO TOTAL	80 - Mgal/mo						01/30 - Monthly	RT - Recorder Total
NODI: -	NODI	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of 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Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

revied sheets 1 and 2 of MRO are attached

Attachments

	A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SECURE AND A SEC	to (Aug. 1). Design processes to produce a constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the const
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IN0025674_CSO_MRO_2024_12.pdf	pdf	1702837.0
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Report Last Saved By

ELKHART WWTP

Laura Kolo Payton88 Name: User:

E-Mail:

2025-01-27 12:24 (Time Zone:-05:00) laura.kolo@coei.org Date/Time:

Report Last Signed By

Payton88

laura.kolo@coei.org Laura Kolo

2025-01-27 12:24 (Time Zone:-05:00)

Date/Time:

Name: E-Mail:

User:

NPDES eReporting Help Desk: NPDESeReporting@epa.gov | 877-227-8965 (9:00am - 8:00pm EST) Contact Us to ask a question, provide feedback, or report a problem.



MONTHLY REPORT OF OPERATION **ACTIVATED SLUDGE TYPE** WASTEWATER TREATMENT PLANT

State Form 10829 (R4 / 01-20)

Name of Facility			Permit Nun	nber		
Elkhart			IN00256	374		
Month	Year	Plant Desi	gn Flow	Telephone	e Number	
December	2024	20.00	mgd	5	74/293-	2572
E-mail address:	laura.kolo@c	oei.org			035	Α
Certified Operator: N	lame	Class	Certificate	Number	Expir	ation Date
Laura E Kolo		1 157	150	104	001	000004

										Laura E.	Kolo			IV	150	94	06/	30/202 4/ 7
				Total=			CH	IEMICA	LS									/
			_	2.77	.			USED				1	RAV	V SEWA	\GE	T	T	
Day Of Month	Day of Week	Man-Hours at Plant (Plants less than 1 MGD only)	Air Temperature (optional)	Precipitation - Inches	Bypass At Plant Site("x" If Occurred)	Sanitary Sewer Overflow("x" If Occurred)	Chlorine - Lbs/day	Ferrous Chloride Lbs/Day or Gal./Day	Lbs/Day or Gal./Day	Influent Flow Rate (if metered) MGD	Hd	CBOD5 - mg/l	CBOD5 - lbs/day	Susp. Solids - mg/l	Susp. Solids - Ibs/day	Phosphorus - mg/i	Ammonia - mg/l	
1	Sun							230		10.000	7.0	111	9,257	78	6,505	2.89	18.10	·
2	Mon							243		10.566	7.4	119	10,486	124	10,927	3.34	21.20	
3	Tue			0.01				243		10.492	7,5	114	9,975	126	11,025	4,12	21.80	
4	Wed							221		10.658	7.3	142	12,622	196	17,422	4.24	23.50	***************************************
5	Thu			0.40				222		10.341	ا 0.0 ء		9,659	112	9,659	3.53	21.30	
6	Fri			0.10				219		10.366	7.2	116	10,028	112	9,683	3.74	21.20	
7	Sat			0.01				228		10.317	7.6	117	10,067	118	10,153	3.71	21.60	
8	Sun			0.40				232		9.742	7.3	117	9,506	84	6,825	2.80	17.10	
9	Mon			0.10				216 210		10.733	7.0	111	9,936	164	14,680	3.64 4.52	17.70	
10	Tue							202		10.725	7.1 7.3	129 110	11,539	164 138	14,669	4.04	19.10 22.20	
11	Wed							202		10.608 10.625	7.4	128	9,732 11,342	156	12,209 13,824	3.93	39.40	
13	Thu			-				202		10.025	7.4	21	10,192	122	10,277	3.75	22.90	
14	Fri			0,16		***************************************		202		9.892	7.3	140	9,735	104	8,580	3.44	22.10	
15	Sat			0.33				228		12.750	7.4	148	15,738	162	17,226	2.86	15.60	
16	Sun			0.11				259		10.858	7.0	/118	10,686	130	11,772	4.12	21.00	
17	Mon Tue			0.11		×		230		10.001	5	178	14,980	176	14,812	4.08	24.10	
18	Wed		*************					231		10.175	7.7	109	9,250	134	11,371	4.00	23.00	
19	Thu							231		10.491	7.5	106	9,274	178	15,574	3.77	22.20	
20	Fri			0.08				202		40.108	7.7	107	9,020	162	13,657	4.08	22.10	
21	Sat			0.02				202		9.150	1901	111	8,47,1	14g	5,952	3.53	19.40	
22	Sun							53	1	9.25	7.6	126	9/29	108	8,339	3.23	18.40	
23	Mon			0.04				302		9.591	7.3	133	10,639	112	8,959	3.72	21.10	
24	Tue			0.01				288		9.966	7.3	140 -	9,143	86	7,148	3.99	22.10	
25	Wed			0.01		X		202		9.258	7.5	81/	6,254	87	6,717	2.80	19.00	
26	Thu			0.03				202		10.691	7.6	\111	9,897	V 94	8,381	3.35	20.60	
27	Fri			0.18				374		10.300	7.3	164	14,088/	128	10,995	4.20	23.00	
28	Sat			0.04				230		10.358	7.5	129	11,144	92	7,947	3,60	20.00	
29	Sun			1.32				187		19.075	7.3	107	17,022	110	17,499	2.80	10.00	
30	Mon			0.02				202		10.808	7.3	106	9,555	134	12,079	3.02	19.40	
31	Tue			0.20				173		10.575	7.3	118	10,407	112	9,878	3.52	22.10	
2		Fill in Jan	uary's	effluent o	data or	n page	3 as nee	eded for v	veekly									
3		average of	calculat	ions.					-		J.					0.20		
Ave	age							222		10.602		120	10,625	125	11,121	3.62	21.04	
	imum							374		19.075	7. \\		17,022	196	17,499		39.40	
	mum			0.01				53		9.150	700	81	6,254	78	5,952		10.00	
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# of	Data		0	18	0	0	0	31	0	31	31	31	31	31	31	31	31	0
		tify under prepared (Prepared by	or under	the direction	n of (Certifie	d Operato		Date (mo	onth, day,	year)

were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Laura Kilo

aura

1/27/25

Signature of principal executive officer or authorized agent (or attested by NetDMR subscriber agreement)

Date (month, day, year)

1/27/25

MONTHLY REPORT OF OPERATION ACTIVATED SLUDGE TYPE WASTEWATER TREATMENT PLANT

State Form 10829 (R4 / 01-20)			
Name of Facility	Permit Number	Month	Year
Elkhart	IN0025674	December	2024

Likitait			111100250	7/7	Dece	llinei	20	124									
PRIMA	\ PV	T		ΔF	RATIO	NI			SECON	IDADV							
EFFLU		MIXED L	IQUOR		INATIO		RETURN S	LUDGE	EFFLU			I	FINAL	EFFLU	ENT		
Day Of Month CBOD5 - mg/l	Susp. Solids - mg/l	Settleable Solids % in 30 minutes	Susp. Solids - mg/l	Sludge Vol. Index - ml/gm	Dissolved Oxygen - mg/l	Femperature - F	Volume - MG	Susp. Solids - mg/l	CBOD5 - mg/l	Susp. Solids - mg/l	Residual Chlorine - Final	Residual Chlorine - Contact Tank	E. Coli - colony/100 ml	pH - daily low (or single sample)	pH - daily high (if multiple samples)	Dissolved Oxygen - mg/l	Oil & Grease (mg/l)
1 72	44	106	1,800	59	6.0	14	7.785	3,500		0)				7.8		9.4	***************************************
2 81	71	100	1,852	54	4.4	15	7.807	3,400					28	7.0		9.2	
3 81	56	101	1,280	79	3.8	15	7.785	3,200					28	7.8		8.7	
4 98	44	108	1,828	59	3.7	15	7.785	3,700					18	7.5		8.8	
5 87	52	105	1,844	57	4.4	14	7.938	3,640						7.0		9.3	
6 86	62	108	1,932	56	5.5	14	7.785	3,800						7.6		9.5	
7 82	67	106	1,948	54	5.3	14	7.785	3,640						7.0		9.7	
8 87	51	104	2,040	51	4.5	13	7.785	3,880						7.0		9.0	
9 52	72	104	2,052	51	4.1	15	7.785	3,980					29	7.7		8.6	
10 87	68	107	1,904	56	4.1	15	7.785	3,860		-			20	7.6		8.9	
11 80	52	110	1,840	60	4.4	15	7.785	3,880		<u> </u>	1		16	7.7		9.1	
12 99 13 89	61 64	113	1,968	57	3.6	14	7.785	3,900			+			7.7		8.9	
13 89 14 86	60	108	2,108 4,544	51 24	5.4 5.6	14 14	13.386 7.785	3,700 4,380			1 4	,		7.6 7.6		9.3	
15 88	72	107	2,264	47	5.6	13	7.785	4,400			- 10			7.4		9.2 9.5	
16 76	68	107	2,084	51	4.9	14	7.785	4,360		4.1	\forall		25	7.5		9.3	
17 106	84	121	2,056	59	4.2	15	13.486	4,140		L ()	1		69	7.5		9.4	
18 80	56	120	2,112	57	3,9	14	13.346	4,540	Α	(),~	110)	70	7.5		9.2	
19 67	61	120	2,084	57	4.2	15	13.206	4,320			<u>۲</u> / ۲	L. 🗎		7.5		9.3	
20 72	78	126	5,204	24	6.3	15	12.918	4,280		15	[\ \	1/1		7.4		9.3	
21 89	57	122	2,536	48	6.3	14	12.881	4,260		,\ \	14			7.5		9.9	
22 82	61	118	2,668	44	6.1	14	7.785	4,520		11	$\neg \cdot \land '$	7		7.6		9.6	
23 81	62	129	2,452	53	6.4	13	12.968	4,280		.,	1,.\		19	7.7		10.0	
24 80	51	122	2,188	56	5.7	14	12.886	4,160			V	1/2.		7.6		9.5	
25 63	59	119	2,520	47.	6.4	15	12.718	4,160			1	16		7.6		9,6	
26 90	90	113	2,728	41	5.4	14	13.996	4,600				V'	19	7.5		9.8	
27 89	55	117	2,384	49	3.9	14	14.262	4,060					5	7.6		9.4	
28 86	70	121	2,340	52	5.6	14	13,558	4,420						7.5		9.1	
29 72	108	120	2,104	57	6.2	12	13.486	4,940						7.4		9.3	
30 72 31 71	60 62	118	2,552 4,624	46 26	6.2 4.80	12 13	13.780 13.393	5,380 4920					32	7.6 7.6		10.2 9.6	
31 71	02	120	4,024	20	4.00	10	13.333	4320					32	7.0		9.0	
Avg. 82	64	113	2,382	51	5.1	14	10	4,135	***************************************				27			9.3	
Max 106	108	129	5,204	79	6.4	15	14	5,380					70	7.		10.2	
Min. 52	44	100	1,280	24	3.6	12	8	3,200			1		3	7.	U	8.6	
Daily Max	have oor												70 0				
# of Days a Data 31	31	31	31	31	31	31	31	31	0	0	1	0	14	31	0	31	0
Comments t														L	0	υI	U

Comments for the Month (major repairs, breakdowns, process upsets and their causes, inplant treatment process bypass, etc.): Raw pH 12/05/24 not recorded

Dec Raw pH Max = 7.7 s.v. Dec Raw pH min = 7.0 s.v. 🗐 View All Copies of Submissions | 🗓 DMR/COR Search Results 🖭 View DMR Signing Status

Signing Process Confirmation - CDX Activity ID: _99096262-26d6-427e-b67b-91b62089f9f3

Your DMRs are undergoing the Signing Process

- Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control 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Facility:

035 - External Outfall

Report Dates & Status Permitted Feature:

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035-A - 20 MGD CLASS IV ACTIVATED SLUDGE - TO ST JOSEPH RIVER 1201 S NAPPANEE ST ELKHART , IN46516

229 SOUTH 2ND ST ELKHART, IN46516

Permittee Address:

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NetDMR Validated Considerations for Form Completion Status:

THE FLOW METER(S) SHALL BE CALIBRATED AT LEAST ONCE EVERY TWELVE MONTHS. REPORT QUARTERLY PARAMETERS ON 035-AQ NETDMR. MUNICIPAL MAJOR ELKHART COUNTY

Principal Executive Officer

Utility Services Manager Laura First Name: Title:

Telephone:

574-293-2572

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Last Name:

No Data Indicator (NODI)

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00530 Solids, total suspended 1 - Effluent Gross	Smpl.	. =587.0	=722.0	26 - lb/d		=7.0	=8.0	19 - mg/L	0	01/01 - Daily	24 - 24 Hour Composite
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00600 Nitrogen, total [as N] 1 - Effluent Gross	Smpl.	-1825.0		26 - lb/d		=20.6		19 - mg/L	0	01/30 - Monthly	24 - 24 Hour Composite
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00610 Nitrogen, ammonia total [as N] 1 - Effluent Gross	Smpl.	=11.6	=80.0	26 - lb/d		=0.15	=0.22	19 - mg/L	0	01/01 - Daily	24 - 24 Hour Composite
Season: 2	Req.	<=1102.0 MO AVG	<=2554.0 DAILY MX	26 - lb/d		<=4.4 MO AVG	<=10.2 DAILY MX	19 - mg/L		01/01 - Daily	24 - 24 Hour Composite
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00665 Phosphorus, total [as P] 1 - Effluent Gross	Smpl.	=59.0		26 - lb/d		=0.7		19 - mg/L	0	01/01 - Daily	24 - 24 Hour Composite
Season: 0	Req.	Req Mon MO AVG		26 - Ib/d		<=1.0 MO AVG		19 - mg/L		01/01 - Daily	24 - 24 Hour Composite
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01079 Silver total recoverable 1 - Effluent Gross	Smpl.	<0.015	<0.018	26 - lb/d		<0.0002	<0.0002	19 - mg/L	0	01/07 - Weekly	24 - 24 Hour Composite
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51041 E. coli, colony forming units [CFU] 1 - Effluent Gross	Smpl.		,			=21.0	=70.0	3Z - CFU/100mL	0	03/07 - Three Per Week	GR - Grab
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71901 Mercury, total recoverable G - Raw Sewage	Smpl.						=32.6	3M - ng/L	0	01/60 - Once Every 2 Months	GR - Grab
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80082 BOD, carbonaceous [5 day, 20 C] 1 - Effluent Gross	Smpl.	=273.0	=291.0	26 - lb/d		=3.0	=3.0	19 - mg/L	0	01/01 - Daily	24 - 24 Hour Composite
Season: 0	Req.	<=6259.0 MO AVG	<=10014.0 MX WK AV	26 - lb/d	the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	<=25.0 MO AVG	<=40.0 MX WK AV	19 - mg/L	1	01/01 - Daily	24 - 24 Hour Composite
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81012 Phosphorus, total percent removal K - Percent Removal	Smpl.			II	=80.7	:		23 - %	0	01/30 - Monthly	CA - Calculated
Season: 0	Req.			^	>=75.0 MO AV MN			23 - %		01/30 - Monthly	CA - Calculated
NODI: -	NODI										
82220 Flow, total 1 - Effluent Gross	Smpl.		=322.0	80 - Mgal/mo					0	01/30 - Monthly	RT - Recorder Total
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Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Mercury sampled November 4, 2024. Reported on November 2024 MRO.

Attachments

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	pdf	pdf 1702837.0

Report Last Saved By

ELKHART WWTP

User: Payton88

Name: Laura Kolo
E-Mail: laura.kolo@coei.org

Date/Time: 2025-01-27 10:56 (Time Zone:-05:00)

Report Last Signed By

User: Payton88 Name: Laura Kolo 2025-01-27 10:57 (Time Zone:-05:00)

Date/Time:

E-Mail:

laura.kolo@coei.org

NPDES eReporting Help Desk: NPDESeReporting@epa.gov | 877-227-8965 (9:00am - 8:00pm EST) Contact Us to ask a question, provide feedback, or report a problem.

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Figning Process Confirmation - CDX Activity ID: _c983eb31-e83f-40ec-b7ec-6efbfe4b2b80

Your DMRs are undergoing the Signing Process

			ソーつつつ	COO- ARCH/ BAR, IVW OF INTERSECTION	17/70 1	07/07/70
IN0025674 ELK	ELKHART WWTP 0	900	006-C	CSO- JACKSON, N OF BRIDGE, W OF ELKHART RIVER	12/31/24	01/28/25
IN0025674 ELK	ELKHART WWTP 0	000 000	007-C	CSO- JACKSON, N OF BRIDGE, E OF ELKHART RIVER	12/31/24	01/28/25
IN0025674 ELK	ELKHART WWTP (800	D-800	CSO- HUG/EAST BLVD	12/31/24	01/28/25
IN0025674 ELK	ELKHART WWTP (600	ე-600	CSO- NIBCO PRKWY - FKA JR. ACHIEVEMENT (Y DR N)	12/31/24	01/28/25
IN0025674 ELK	ELKHART WWTP (011 01	011-C	CSO- ELKHART/FRANKLIN	12/31/24	01/28/25
IN0025674 ELK	ELKHART WWTP (012 01.	012-C	CSO- CASSOPOLIS/BEARDSLEY	12/31/24	01/28/25
IN0025674 ELK	ELKHART WWTP (013 01.	013-C	CSO- JOHNSON/BEARDSLEY	12/31/24	01/28/25
IN0025674 ELK	ELKHART WWTP (014 01	014-C	CSO- DAM AT CONE/ERWIN	12/31/24	01/28/25
IN0025674 ELK	ELKHART WWTP (015	015-C	CSO- MICHIGAN/FULTON	12/31/24	01/28/25
IN0025674 ELK	ELKHART WWTP (016 01(016-C	CSO- DAN @ GOSHEN/SUPERIOR	12/31/24	01/28/25
IN0025674 ELK	ELKHART WWTP (017 01.	017-C	CSO- W. BOULEVARD/MCNAUGHTON	12/31/24	01/28/25
IN0025674 ELK	ELKHART WWTP (018 018	018-C	CSO- MCNAUGHTON PARK WEST	12/31/24	01/28/25
IN0025674 ELK	ELKHART WWTP (019 019	019-C	CSO-MICHIGAN @ RVR, S. OF LEX.	12/31/24	01/28/25
IN0025674 ELK	ELKHART WWTP (020	020-C	CSO- BRIDGE AND HUDSON	12/31/24	01/28/25
IN0025674 ELK	ELKHART WWTP (023 02:	023-C	CSO- FRANKLIN/8TH	12/31/24	01/28/25
IN0025674 ELK	ELKHART WWTP (024 02	024-C	CSO- INDIANA/FRANKLIN	12/31/24	01/28/25
IN0025674 ELK	ELKHART WWTP (-025 02	025-C	CSO- POTTAWATOMI/SECOND	12/31/24	01/28/25
IN0025674 ELK	ELKHART WWTP (026 02	026-C	CSO- MAIN/POTTAWATOMI	12/31/24	01/28/25
IN0025674 ELK	ELKHART WWTP (027 02	027-C	CSO- EDGEWATER/NAVAJO	12/31/24	01/28/25
IN0025674 ELK	ELKHART WWTP (028 02	028-C	CSO- WASHINGTON AT RIVER	12/31/24	01/28/25
IN0025674 ELK	ELKHART WWTP (029 02	029-C	CSO- JEFFERSON AT THE RIVER	12/31/24	01/28/25
IN0025674 ELK	ELKHART WWTP (031 03	031-C	CSO- ELIZABETH/LUSHER	12/31/24	01/28/25
IN0025674 ELK	ELKHART WWTP (032 03:	032-C	CSO- EDGEWATER/OKEMA	12/31/24	01/28/25
IN0025674 ELK	ELKHART WWTP (033 03:	033-C	CSO- EVANS/GRACE	12/31/24	01/28/25
IN0025674 ELK	ELKHART WWTP (034 03	034-C	CSO- LEXINGTON/6TH	12/31/24	01/28/25
IN0025674 ELK	ELKHART WWTP (035 03.	035-A	20 MGD CLASS IV ACTIVATED SLUDGE - TO ST JOSEPH RIVER	12/31/24	01/28/25
IN0025674 ELK	ELKHART WWTP (035 03.	035-AQ	QUARTERLY REPORTING	12/31/24	01/28/25
IN0025674 ELK	ELKHART WWTP (037 03	037-C	CSO- FRANKLIN/KRAU	12/31/24	01/28/25
IN0025674 ELK	ELKHART WWTP (039 03	039-C	CSO- WEST HIGH AT RIVER	12/31/24	01/28/25
IN0025674 ELK	ELKHART WWTP (040	040-C	CSO- MCNAUGHTON PARK SOUTH	12/31/24	01/28/25

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Form Approved OMB No. 2040-0004 expires on 07/31/2026

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Showing COR 14 of 31 <a> 4 <a> 10 <a> 11 <a> 12 <a> 13 <a> 14 <a> 15 <a> 16 <a> 17 <a> №

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Permit

IN0025674 Permittee: Permit ID:

ELKHART WWTP

Facility:

ELKHART WWTP

035 - External Outfall

Discharge:

Facility Location:

229 SOUTH 2ND ST ELKHART, IN46516

Permittee Address:

Major:

1201 S NAPPANEE ST ELKHART, IN46516

035-A - 20 MGD CLASS IV ACTIVATED SLUDGE - TO ST JOSEPH RIVER

Report Dates & Status Monitoring Period:

Permitted Feature:

From 12/01/24 to 12/31/24

NetDMR Validated

01/28/25

DMR Due Date:

Considerations for Form Completion

Status:

THE FLOW METER(S) SHALL BE CALIBRATED AT LEAST ONCE EVERY TWELVE MONTHS. REPORT QUARTERLY PARAMETERS ON 035-AQ NETDMR. MUNICIPAL MAJOR ELKHART COUNTY

Principal Executive Officer

Laura First Name:

Utility Services Manager

Last Name: Telephone:

574-293-2572 Kolo

No Data Indicator (NODI)

Title:

Form NODI:

					THE PERSON NAMED IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 WINDOWS IN COLUMN 2 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24 - 24 Hour Composite	01/01 - Daily		19 - mg/L		<=1.0 MO AVG		26 - lb/d		Req Mon MO AVG	Req.	Season: 0
24 - 24 Hour Composite	01/01 - Daily	0	19 - mg/L	**************************************	=0.7		26 - lb/d	one all activations and activate the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	=59.0	Smpl.	00665 Phosphorus, total [as P] 1 - Effluent Gross
										NODI	NODI: -
24 - 24 Hour Composite	01/01 - Daily		19 - mg/L	<=10.2 DAILY MX	<=4.4 MO AVG		26 - lb/d	<=2554.0 DAILY MX	<=1102.0 MO AVG	Req.	Season: 2
24 - 24 Hour Composite	01/01 - Daily	0	19 - mg/L	=0.22	=0.15		26 - lb/d	=80.0	=11.6	Smpl.	00610 Nitrogen, ammonia total [as N] 1 - Effluent Gross
										NODI	NODI: -
24 - 24 Hour Composite	01/30 - Monthly		19 - mg/L		Req Mon MO AVG		26 - lb/d		Req Mon MO AVG	Req.	Season: 0
24 - 24 Hour Composite	01/30 - Monthly	0	19 - mg/L		=20.6		26 - lb/d		=1825.0	Smpl.	00600 Nitrogen, total [as N] 1 - Effluent Gross
										NODI	NODI: -
24 - 24 Hour Composite	01/01 - Daily		19 - mg/L	<=45.0 MX WK AV	<=30.0 MO AVG		26 - Ib/d	<=11266.0 MX WK AV	<=7511.0 MO AVG	Req.	Season: 0
24 - 24 Hour Composite	01/01 - Daily	0	19 - mg/L	=8.0	=7.0		26 - Ib/d	=722.0	=587.0	Smpl.	00530 Solids, total suspended 1 - Effluent Gross
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GR - Grab	01/01 - Daily		12 - SU	<=9.0 DAILY MX		>=6.0 DAILY MN		THE THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF T	Andrew design of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the	Req.	Season: 0
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3R - 3 Grabs/24 hours	01/01 - Daily		19 - mg/L			>=4.0 DLYAVMIN				Req.	Season: 0
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01079 Silver total recoverable 1 - Effluent Gross	Smpl.	<0.015	<0.018	26 - lb/d		<0.0002	<0.0002	19 - mg/L	0	01/07 - Weekly	24 - 24 Hour Composite
Season: 0	Req.	<=0.063 MO AVG	<=0.13 DAILY MX	26 - lb/d		<=0.00038 MO AVG	<=0.00077 DAILY MX	19 - mg/L		01/07 - Weekly	24 - 24 Hour Composite
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50050 Flow, in conduit or thru treatment plant 1 - Effluent Gross	Smpl.	=10.343		03 - MGD					0	01/01 - Daily	TM - Totalizer
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51041 E. coli, colony forming units [CFU]	Smpl.					=21.0	=70.0	3Z - CFU/100mL	0	03/07 - Three Per Week	GR - Grab
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80082	BOD, carbonaceous [5 day, 20 C]	Smpl.	=273.0	=291.0	26 - lb/d		=3.0	=3.0	19 - mg/L	0	01/01 - Daily	24 - 24 Hour Composite
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81012	Phosphorus, total percent removal	Smpl.			II	=80.7			23 - %	0	01/30 - Monthly	CA - Calculated
K - Perce	K - Percent Removal											
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82220	Flow, total	- E		-322 0	80 -					c	01/30 -	RT - Recorder
1 - Efflu	1 - Effluent Gross			726.0	Mgal/mo)	Monthly	Total
Season: 0	0	Req.		Reg Mon MO TOTAL	80 - Mgal/mo						01/30 - Monthly	RT - Recorder Total
NODI: -		NODI					man o esta e mar ma constanta de mante mante mante mante mante mante de mante de mante de mante de mante de ma	A A A A A A A A A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE A CHARGE TO THE CHARGE TO THE CHARGE TO THE A CHARGE TO THE A CHARGE TO THE CHARGE TO THE CHARGE TO THE CHARGE			A CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR	

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Mercury sampled November 4, 2024. Reported on November 2024 MRO.

Attachments

No attachments.

Report Last Saved By

ELKHART WWTP User: Laura Kolo

Payton88

laura.kolo@coei.org

2025-01-27 10:31 (Time Zone:-05:00)

Report Last Signed By

Date/Time:

E-Mail:

Name:

Payton88

Laura Kolo laura.kolo@coei.org 2025-01-27 10:32 (Time Zone:-05:00)

Date/Time:

E-Mail:

Name:

User:

NPDES eReporting Help Desk: $NPDESeReporting@epa.gov \mid 877-227-8965$ (9:00am - 8:00pm EST) Contact Us to ask a question, provide feedback, or report a problem.



MONTHLY REPORT OF OPERATION ACTIVATED SLUDGE TYPE WASTEWATER TREATMENT PLANT

State Form 10829 (R4 / 01-20)

Name of Facility			Permit Nu	mber		
Elkhart			IN0025	674		
Month	Year	Plant Desi	gn Flow	Telephone	Number	
December	2024	20.00	mgd	5	74/293-:	2572
E-mail address:	laura.kolo@	coei.org			035	Α
Certified Operator: N	ame	Class	Certifica	le Number	Expira	ation Date
Laura E Mala		1 15.7	1 45	004	00/0	010004

	·	·-	·							Laura E.	Kolo			IV	150	94	06/3	30/2024
				Total=			CH	HEMICA	LS									
				2.77	4			USED				γ	RAW	SEW	AGE	,		
Day Of Month	Day of Week	Man-Hours at Plant (Plants less than 1 MGD only)	Air Temperature (optional)	Precipitation - Inches	Bypass At Plant Site("x" If Occurred)	Sanitary Sewer Overflow("x" If Occurred)	λi	Ferrous Chloride Lbs/Day or Gal./Day	· Gal./Day	9.0	774441			l/f	Solids - lbs/day	V		
Ĭ	Š	ours a ss tha only)	E E	<u>Ĕ</u>	At Plant S Occurred)	/Se If (Chlorine - Lbs/day	hloride Ll Gal./Day	ь	Influent Flow Rate (if metered) MGD		_	CBOD5 - lbs/day	Solids - mg/l	<u>ä</u>	Phosphorus - mg/l	56	
ğ	ot ot	Man-Hours lants less th only	rati		급	tan,	Lbs	울땅	Lbs/Day	» (i		CBOD5 - mg/l)/sc	8	'&	<u>0</u>	.mg/l	
)ay	Da,	구-B s	дL	atic	Α̈́O	ani ow(u O	ာ ဝ]/s(E E		1		iji	ğ	5	<u>a</u> .	
-		Ma	<u>F</u>	igi	as	S erfi	urin	0.0	=	ent		Ä	 	o,	6,	hds	Ammonia	
			÷	Je.	337	õ	矣	ē		₽£	Ha	<u>8</u>	BC	Susp.	Susp.	ğ	E	
1	Sun			<u> </u>	1=-		O	230		10.000	7.0	111	9,257	- <i>0</i> 2	6,505	2.89	18.10	
2	Mon			1				243		10.566	7.0	119	10,486	124	10,927	3.34	21.20	
3				0.01				243		10.492	7.5	114	9,975	126	11,025	4.12	21.80	
4	Wed							221		10.658	7.3	142	12,622	196	17,422	4.24	23.50	******
5								222		10.341	0.0	112	9,659	112	9,659	3.53	21.30	
6				0.10				219		10.366	7.2	116	10,028	112	9,683	3.74	21.20	
7	Sat			0.01				228		10.317	7.6	117	10,067	118	10,153	3.71	21.60	
8	Sun							232		9.742	7.3	117	9,506	84	6,825	2.80	17.10	
9	Mon			0.10			***************************************	216		10.733	7.0	111	9,936	164	14,680	3.64	17.70	
10	Tue							210		10.725	7.1	129	11,539	164	14,669	4.52	19.10	
11	Wed							202		10.608	7.3	110	9,732	138	12,209	4.04		
12	Thu							202		10.625	7.4	128	11,342	156	13,824	3.93	39.40	
13	Fri							202		10.100	7.4	121	10,192	122	10,277	3.75	22.90	
14	Sat			0.16				225		9.892	7.3	118	9,735	104	8,580	3.44	22.10	
15	Sun			0.33				228	***************************************	12.750	7.4	148	15,738	162	17,226	2.86	15.60	
16	Mon			0.11				259 230		10.858 10.091	7.0 7.5	118 178	10,686	130 176	11,772	4.12	21.00	
17	Tue					X		231		10.091	7.5	109	14,980 9,250	134	14,812 11,371	4.08	24.10 23.00	
19	Wed Thu							231		10.173	7.5	106	9,274	178	15,574	3.77	22.20	
20	Fri			0.08				202		10.108	7.7	107	9,020	162	13,657	4.08	22.10	
21	Sat			0.02				202		9.150	7.0	111	8,471	78	5,952	3,53	19.40	
22	Sun			0.02				53		9.258	7.6	126	9,729	108	8,339	3,23	18.40	
23	Mon			0.04				302		9.591	7.3	133	10,639	112	8,959	3.72	21.10	
24	Tue			0.01				288		9.966	7.3	110	9,143	86	7,148	3.99	22.10	~~~
25	Wed			0.01		X		202		9.258	7.5	81	6,254	87	6,717	2.80	19.00	
26	Thu			0.03				202		10.691	7.6	111	9,897	94	8,381	3.35	20.60	
27	Fri			0.18				374		10.300	7.3	164	14,088	128	10,995	4.20	23.00	
28	Sat			0.04				230		10.358	7.5	129	11,144	92	7,947	3.60	20.00	
29	Sun			1.32				187		19.075	7.3	107	17,022	110	17,499	2.80	10.00	
30	Mon			0.02				202		10.808	7.3	106	9,555	134	12,079		19.40	
31	Tue			0.20	·			173		10.575	7.3	118	10,407	112	9,878	3.52	22.10	
1 2		Fill in Jan			data or	n page	3 as nee	ded for v	veekly									
3		average of	calculat	ions.					•									
Aver	age							222		10.602		120	10,625	125	11,121	3,62	21.04	
	imum							374		19.075	7.7	178	17,022	196	17,499	4.52	39.40	
Minir				0.01				53		9.150	0.0	81	6,254	78	5,952		10.00	
	-																	
												-						
# of			0	18	0	0	0	31	0	31	30	31	31	31	31	31	31	0
		tify under prepared i								Prepared by	or under	the direction	on of (Certifie	d Operato		Date (mo	onth, day,	year)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Date (month, day, year)

laura KDo

Date (month, day, year)

Signature of principal executive officer or authorized agent (or attested by NetDMR subscriber agreement)

pate (month, day, year)

laura Kora

MONTHLY REPORT OF OPERATION ACTIVATED SLUDGE TYPE WASTEWATER TREATMENT PLANT

State Form 10829 (R4 / 01-20)			
Name of Facility	Permit Number	Month	Year
Elkhart	IN0025674	December	2024

												T			****			·····
	PRIMAF EFFLUE		MIXED L	IOLIOP	AE	RATIO	N	DETUDNIC	LIDOE	SECON		-	F	INAL	EFFLUE	ENT		
	LFFLUL	-JN 1		QUUK				RETURNS	LUDGE	EFFLU	ENI						_	
Day Of Month	CBOD5 - mg/l	Susp. Solids - mg/l	Settleable Solids % in 30 minutes	Susp. Solids - mg/l	Sludge Vol. Index - ml/gm	Dissolved Oxygen - mg/l	Temperature - F	Volume - MG	Susp. Solids - mg/l	CBOD5 - mg/l	Susp. Solids - mg/l	Residual Chlorine - Final	Residual Chlorine - Contact Tank	E. Coli - colony/100 ml	pH - daily low (or single sample)	pH - daily high (if multiple samples)	Dissolved Oxygen - mg/l	Oil & Grease (mg/l)
1	72	44	106	1,800	59	6.0	14	7.785	3,500						7.8		9.4	
2	81	71	100	1,852	54	4.4	15	7.807	3,400					28	7.0		9.2	
3	81	56	101	1,280	79	3.8	15	7.785	3,200					28	7.8		8.7	
4	98	44	108	1,828	59	3.7	15	7.785	3,700					18	7.5		8.8	
5	87	52`	105	1,844	57	4.4	14	7.938	3,640						7.0		9.3	
6 7	86 82	62 67	108 106	1,932	56	5.5	14	7.785 7.785	3,800						7.6		9.5	
8	87	51	106	1,948	54 51	5.3 4.5	14	7.785	3,640 3,880						7.0 7.0		9.7 9.0	
9	52	72	104	2,040	51	4.1	15	7.785	3,980					29	7.0		8.6	
10	87	68	107	1,904	56	4.1	15	7.785	3,860					29	7.6		8,9	
11	80	52	110	1,840	60	4.4	15	7.785	3,880					16	7.7		9.1	
12	99	61	113	1,968	57	3,6	14	7.785	3,900	-				10	7.7		8.9	
13	89	64	108	2,108	51	5.4	14	13.386	3,700	<u> </u>	<u> </u>				7.6		9.3	
14	86	60	107	4,544	24	5.6	14	7.785	4,380						7.6		9.2	
15	88	72	107	2,264	47	5.6	13	7.785	4,400						7.4		9.5	
16	76	68	107	2,084	51	4.9	14	7.785	4,360					25	7.5		9.3	
17	106	84	121	2,056	59	4.2	15	13.486	4,140	***************************************				69	7.5		9.4	
18	80	56	120	2,112	57	3.9	14	13.346	4,540					70	7.5		9.2	
19	67	61	120	2,084	57	4.2	15	13.206	4,320						7.5		9.3	
20	72	78	126	5,204	24	6,3	15	12.918	4,280						7.4		9.3	
21	89	57	122	2,536	48	6.3	14	12.881	4,260						7.5		9.9	
22	82	61	118	2,668	44	6.1	14	7.785	4,520						7.6		9.6	
23	81	62	129	2,452	53	6.4	13	12.968	4,280					19	7.7		10.0	
24	80	51	122	2,188	56	5.7	14	12.886	4,160						7.6		9.5	
25	63	59	119	2,520	47	6.4	15	12.718	4,160				-	- 40	7.6		9.6	
26	90 89	90	113	2,728 2,384	41	5.4	14	13.996	4,600				-	19	7.5		9.8	
27 28	86	55 70	117 121	2,384	49 52	3.9 5.6	14 14	14.262 13.558	4,060 4,420					5	7.6 7.5		9.4 9.1	
29	72	108	120	2,340	57	6.2	12	13.486	4,420						7.5		9.1	
30	72	60	118	2,104	46	6.2	12				\vdash		-	3	7.6		10.2	
31	71	62	120	4,624	26	4.80	13	13,393			1			32	7.6		9.6	
Avg.	82	64	113	2,382	51	5.1	14	10	4,135					27			9.3	
Max	106	108	129	5,204	79	6.4	15	14	5,380					70	7.	8	10.2	
Min.	52	44	100	1,280	24	3.6	12	8	3,200					3	7.	0	8.6	
	Max													70		± 41		
# of I		ove 235 31	31	31	31	31	31	31	31	0	0	1	1 0	0 14	31	0	31	0
		-	:			· - ·	L	'			<u> </u>	<u> </u>					- '	

Comments for the Month (major repairs, breakdowns, process upsets and their causes, inplant treatment process bypass, etc.):

MONTHLY REPORT OF OPERATION ACTIVATED SLUDGE TYPE WASTEWATER TREATMENT PLANT

State Form 10829 (R4 / 01-20)			
Name of Facility	Permit Number	Month	Year
Elkhart	IN0025674	December	2024

	Τ] ·					F	NAL EF	FLUENT	-							
		Flow		BOD	1	I				d Solids	3	Ammor	nia	r		Phosph	orus
Day Of Month	Day of Week	Effluent Flow Rate (MGD)	Effluent Flow Weekly Average	CBOD5 - mg/l	CBOD5 - mg/l Weekly Average	CBOD5 - ibs/day	CBOD5 - lbs/day Weekly Average	Susp. Solids - mg/l	Susp. Solids - mg/l Weekly Average	Susp. Solids - Ibs/day	Susp. Solids - Ibs/day Weekly Average	Ammonia - mg/l	Ammonia - mg/l Weekly Average	Ammonia - Ibs/day	Ammonia - Ibs/day Weekly Average	Phosphorus - mg/l	Phosphorus - Ibs/day
1	Our	9.943		3		249		6		464		0.09		7.5		0.75	62
2		10.622		3		266		8		691		0.29		25.7		0,75	66
3		10.122		3		253		10		844		0.21		17.7		0.73	62
4	Wed	10.580		4		353		10		918		0.17		15.0		0.80	71
	Thu	10.021		4		334		10		819		0.12		10.0		0.66	55
6		10.076	40.405	3	0.40	252	004	8	0.40	706	700	0.11	0.10	9.2	40.0	0.62	52
7		9.933	10.185	4	3.43	331	291	7	8.49	613	722	0.10	0.16	8.3	13.3	0.64	53
8	Sun	9.605 10.495		3		240		7		529		0.09		7.2		0.54	43
40	Mon	10.495		4		350 335		7		630 552		0.09		7.9 7.5		1.07	94
11	Tue Wed	10.030		3		257		7		617		0.09		7.7		0.56 0.64	47 55
12	Wed	10.282		3		273		8		764	***************************************	0.09		80.0		0.74	
12	Fri	10.902		3		262		8		681		0.00		21.0		0.74	67 59
1/	Fri Sat	10.473	10.322	3	3.29	262	283	7	7.20	576	621	0.24	0.22	5.2	19.5	0.07	62
15	Sat	13.284	10.522	3	3,29	332	203	8	7.20	842	021	0.06	0.22	6.6	19.5	0.71	63
	Sun	10.613		3		266		5		460		0.08		7.1		0.57	52
17	Tue	9.905		4		330		7		545		0.09		7.4		0.65	54
18	Wed	10.176		3		255		8		645		0.09		7.6		0.53	45
19	Thu	9.725		3		243		7		584		0.10		8.1		0.48	39
20	Fri	9.518		2		159		7		540		0.08		6.4		0.44	35
21	Sat	8.695	10.274	3	3.00	218	258	7	6.90	529	592	0.09	0.08	6.5	7.1	0.55	40
22	Sun	8.693	10.2.1	3	0,00	217		5	0.00	362		0.07	0.00	5.1	7.1	0.73	53
23	Mon	9.358		3		234		5	-112	414		0.08		6.2		0.77	60
24	Tue	8.923		3		223		7		513		0.08		6.0		0.71	53
25	Wed	8.639		3		216		5	,	389		0.08		5.8		0.73	53
26	Thu	9.924		3		248		5		439		0.07		5.8		0.74	61
27	Fri	9.723		3		243		5		430		0.11		8.9		0.78	63
28	Sat	9.272	9.219	3	3.00	232	231	4	5.36	333	411	0.08	0.08	6.2	6.3	0.66	51
29	Sun	22.158		3		554		6 .		1,183		0.19		35.1		0.79	146
30	Mon	9.749		3		244		6		480		0.09		7.3		0.56	46
31	Tue	10.308		3		258		5		438		0.74		6.0		0.74	64
1		9,20		2				8		375.89		0.06		4.60		0,82	63
3	:	10.21 10,03		3		250,90		7 8		468.35		0.07		5.00		1.00	
		10.343		3		250,90		7		587		0.06 0.15		5.02 11.6		0.82	69 59
Avg Max		22.158	10,322	4	3	554	291	10	8	1,183	722	0.13	0.22	80.0	19.5	1.1	146
Min		8,639	9.219	2	3	159	231	4	5	333	411	0.06	0.08	4.6	6.3	0.4	35
, • 111 1																J. 1	
Data	a	31	4	31	4	31	4	31	4	31	4	31	4	31	4	31	31

	MONTHLY RE	MOVAL SUM	MARY		Total Monthly Flor	w:
Percent Removal	BOD5	S.S.	Ammonia	Phosphorus	(million gallons)	322
Primary Treatment	32.09	49.0				
	NA	NA			Percent Capacity	
Secondary Treatment	96.2	89.2			(actual flow/design)	52%
Overall Treatment	97.41	94.5	99.3	80.7		
Phosphorus limit would be	75	% removal.	(compliance	achieved)		

MONTHLY REPORT OF OPERATION ACTIVATED SLUDGE TYPE WASTEWATER TREATMENT PLANT

	SLUDG	E TO				DIGE	STER	OPERAT	ION					
	DIGES1		Anaero	bic Only										
Day Of Month	Primary SludgeGal. x 100	Waste Act. Sludge Gal. x 1000	Hd	Gas Production Cubic Ft. x 1000	Temperature - F	Supernatant Withdrawn hrs. or Gal. x 1000	Supernatant BOD5 mg/l or NH3-N mg/l	Total Solids in Incoming Sludge - %	Total Solids in Digested Sludge - %	Volatile Solids in Incoming Sludge - %	Volatile Solids in Digested Sludge - %	Digested Sludge Withdrawn hrs. or Gal. x 1000		
1	17.73	233.28	7.2		94	7, -		6.29	1.91	80.06	57.34			
2	21.15	231.84	7.3		96			3.83	1.35	82.49	71.79	123.35		
3	27.66	234.72	7.2		96	14.148		3.57	1.74	80.45	57.27	122.23		
4	28.66	233.28	7.1		99			3.61	1.68	76.46	56,98	120.73		
5	31.38	227.52	7.1		98	0.000		4.56	1.70	76.33	55.08	122.52		
6	32.01	233.28	7.2		99			4.37	1.72	76.26	59,00			
7	28.21	233.28	7.2		98	35.370		3.51	1.61	77.13	60.98			
8	32.04	216.00	7.2		98			3.43	1.70	76.59	58.26			
9	26.99	260.64	7.2		99			5.17	1.71	76,91	56.80	85.02		
10	27.06	233.28	7.3		99			3,19	1.46	74.54	57,63	121.47		
11	26.37	233.28	7.2		97			4.94	1.65	72.25	59.00	78.09		
12	37.05	233.28	7.2		98	7.074		5.73	1.66	77.80	57.55	121.29		
13	31.05	233.28	7.2		97	0.000		8.01	1.79	77.35	58.27			
14	40.49	275.04	7.3		96	0.000		3.68	1.95	76,10	56,91			
15	25.48	227.52	7.3		98	0.000		3,59	1.68	78.21	58.25			
16	29.56	262.08	7.3		97			7.83	1.81	80.37	59.26	85.91		
17	30.34	233.28	7.3		99	14.148		4.80	1.84	78.23	57.50	120.99		
18	36.15	233.28	7.2		95			3.88	1.88	77.31	56.77	121.22		
19	28.05	224.64	7.2		98			5.52	1.84	74.55	58.97	113.08		
20	34.66	233.28	7.3		98			3.58	1.89	69.64	59.06			
21	38.75	233.28	7.4		97			3.78	1.86	72.15	55.36			
22	37.54	233.28	7.3		94			5.30	1.85	74.34	56.76			
23	26,70	233.28	7.3		94	17.685		4.01	1.83	78.85	57.36	120.38		
24	27.35	221.76	7.2		97	24.759		4.21	1.90	79.02	56.15			
25	21.74	208.80	7.3		97			4.49	1.86	84.04	59.18			
26	15.25	211.68	7.3		98	7.074		4.57	1.85	77.54	59.43	119.65		
27	18.05	200.16	7.2		97	3.537		4.38	1.68	75.00	61.68	119.78		
28	25.79	208.80	7.2	· · · · · · · · · · · · · · · · · · ·	95	0.000		3.98	1.92	75.95	57.98			
29		208.80	7.4		99	42.444		3.37	1.83	77.99	56.60			
	23.24		7.3		98	21,222		4.77	1.80	73.10	56.82			
31	20.51	208.80	7.3		99			3.91	1.73	77.65	58.82	103.37		
	3													
	11.0							1144						
Δ	28.03	229.15			97	12.497		4.51	1.76	76.92	58.35	112,44		
Avg.	40.49	275.04	7.4		99	42.444		8.01	1.76	84.04	71.79	123.35		
Max.	15.25	200.16	7.4	-	99	0.000		3.19	1,35	69.64	55.08	78.09		
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Data	31	31	31	0	31	15	0	31	31	31	31	16	0	0

Once completed, this form should be converted to a pdf document, named appropriately & attached to the corresponding netDMR for submittal

MONTHLY REPORT OF OPERATION ACTIVATED SLUDGE TYPE WASTEWATER TREATMENT PLANT

State Form 10829 (R4 / 01-20)
Name of Facility Permit Num Permit Number Month Year Elkhart IN0025674 December 2024 Substitute for State Form 30530 Final Effluent Chloride **Total Nitrogen** Total Nitrogen- Ibs/day Chloride - lbs/day Total Nitrogen- mg/l CN - Effluent mg/L Cd - Effluent mg/L CN - Influent mg/L Cu - Effluent mg/L Cd - Influent mg/L Cr - Effluent mg/L Hg - Effluent ng/L Chloride - mg/l Cr - Influent mg/L Cu - Influent mg/L Ag - Influent mg/l 4g - Influent ng/L ^g - Effluent mg/L Day Of Month 0.0002 13,997 20,60 1,825 158 3 0.0003 4 5 6 7 8 9 0.0003 0.0002 10 11 12 13 14 15 16 0.0003 0.0002 17 18 19 20 21 22 23 0.0003 0.0002 24 25 26 27 28 29 30 0.0002 31 0.0002 2 158 13,997 1,825 0.0003 0.0002 21 Avg. 0.0003 0.0002 Max. 158 13,997 20.60 1824.90 0.0002 0.0002 Min. 1 1 1 1 5 5 0 0 0 0 0 0 0 0 0 0 Data

WASTEWATER TREATMENT PLANT

State Fo	orm 10829 Facility	(R4 / 01-20) Permit Number	er	Month		Year										
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Day Of Month	Ni - Influent mg/L	Ni - Effluent mg/L	Pb - Influent mg/L	Pb - Effluent mg/L	Zn - Influent mg/L	Zn - Effluent mg/L										
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BYPASS / OVERFLOW INCIDENT REPORT

State Form 48373 (R7 / 4-16) Indiana Department of Environmental Management Office of Water Quality

☐ Follow-up to Bypass report
previously sent on:

INSTRUCTIONS:

Complete all parts of this form and email signed copies to www.eports@idem.IN.gov. Submittal of this report will satisfy the Office of Water Quality (OWQ) telephone and written bypass/overflow reporting requirements of your NPDES permit. Please use and the second page of this form as necessary to identify separate locations caused by the same event. If you have any questions while filling out the report form, please contact Renee Repar at (317) 232-6770 or rrepar@idem.in.gov.

To report a spill or if the release is resulting in a fish kill or other severe environmental damage, immediately report the release to the Emergency Response Section spill response line at: (317) 233-7745 or toll free within Indiana at (888) 233-7745.

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Number	Release Began		elease Stopped	iu iiiie		tation, Force M			Min Sec)	(Deg Min	
	12/17/24 6:48	☐ AM ☐ PM 1	2/17/24 8:30	⊒ AM ⊋ PM	1606 Vict	toria Dr		41	42 20 N	85 56	28 W
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Check one:		Actual	· · · · · · · · · · · · · · · · · · ·	allons		11.5 MG			44.0 MG	D	
Sanitary S Treatment Prohibited Dry Weath Combined	ype (Select one.) ewer Overflow Bypass (at wastewa Combined Sewer Over Combined Sewer Sewer System Rele	verflow Overflow ase	none		any damage to	o aquatic life o	or receiving st	ream:			
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											n/a
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(21) Resolution	n: Actions Taken or	Planned to P	revent Recurrenc	e							
Send Informa	ition to upstream bas	sin on proper	grease disposal								
(22)											
			CERTI	IFICATION	ON AND SIGN	ATURE					
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Individual Makin Laura Ko	g Report <i>(printed)</i> O		one Number) 293-2572	Contac	t Email a.kolo@co	ei.org	Date (month, 12/18/24	day, ye	ar) / Time IDEN	// Notified	☐ AM ☐ PM

Kolo, Laura

From:

Kolo, Laura

Sent:

Wednesday, December 18, 2024 3:51 PM

To:

wwreports@idem.in.gov

Subject:

Inc Rpt IN0025674 INC RPT 2024 12 1

Attachments:

IN0025674_INC_RPT_2024_12_1.pdf

Resent - 10000 sure

delivery reciept "requested

but never did get confirmation it was

Resending with delivery confirmation.

Laura Kolo Director of Utilities



1201 South Nappanee St. Elkhart, IN 46516

City Elkhart (574) 293-2572 ext.2283 **ASF**

"Tomorrow's Elkhart Starting Today" Public Works - Street & Utility Infrastructure

R E to Aspire Elkhart.

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From: Kolo, Laura

Sent: Wednesday, December 18, 2024 1:26 PM

To: wwreports@idem.in.gov

Subject: Inc Rpt IN0025674_INC_RPT_2024_12_1

delivery receipt requested

but did not receive

carfermation 't was delevered

Please find Inc Rpt IN0025674 INC RPT 2024 12 1 attached.

Laura Kolo Director of Utilities



1201 South Nappanee St. Elkhart, IN 46516

(574) 293-2572 ext.2283 **ASPIRE** to Aspire Elkhart.

"Tomorrow's Elkhart Starting Today"

Public Works - Street & Utility Infrastructure

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BYPASS / OVERFLOW INCIDENT REPORT

State Form 48373 (R7 / 4-16) Indiana Department of Environmental Management Office of Water Quality

☐ Follow-up to Bypass report
previously sent on:

INSTRUCTIONS:

Complete all parts of this form and email signed copies to www.eports@idem.IN.gov. Submittal of this report will satisfy the Office of Water Quality (OWQ) telephone and written bypass/overflow reporting requirements of your NPDES permit. Please use and the second page of this form as necessary to identify separate locations caused by the same event. If you have any questions while filling out the report form, please contact Renee Repar at (317) 232-6770 or rrepar@idem.in.gov.

To report a spill or if the release is resulting in a fish kill or other severe environmental damage, immediately report the release to the Emergency Response Section spill response line at: (317) 233-7745 or toll free within Indiana at (888) 233-7745.

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Elknart Pt	ıblic Works	N. Carlo			iee Street		⊨IK	hart		IN0002	25674
(5) Outfall	(0) D-t- ((1/4-1)	- 17:			RMATION (L			(6)		(0) 1	
(5) Outfall Number	(6) Date (mm/dd/yy) a Release Began		(7) Date (mm/dd/yy) Release Stopped	I		Release (stree Station, Force M			atitude g Min Sec)	(9) Longil (Deg Min	
	12/25/24 1:04	☐ AM ☑ PM	12/25/24 3:33	☐ AM ☐ PM	726 Midd	•		1	40 53 N		' 31 W
1 ' '	f Flow Released		ways provide a volu unknown			(11) WWTP F 9.8 MG	low During Rele	ase	(12) WWTP P 44.0 MG	•	Flow Rate
☐ Sanitary Solution ☐ Treatment ☐ Prohibited ☐ Dry Weath ☐ Combined	pe (Select one.) ewer Overflow Bypass (at wastew Combined Sewer O er Combined Sewer Sewer System Rele	verflow Overflow ease	(14) noi	Describe ne	any damage to			ream:			
I <u></u> '	or Bypass / Overflov		•		greas	ب		,			
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Individual Makin Laura Kol	g Report <i>(printed)</i> O		elephone Number 574) 293-2572		t Email a.kolo@co	pei.org	Date (month, 12/26/24	day, ye	e <i>ar) I</i> Time IDEN	Notified	AM □ PM

Kolo, Laura

From:

Kolo, Laura

Sent:

Thursday, December 26, 2024 8:06 AM

To:

'wwreports@idem.in.gov'

Subject:

IN0025674_INC_RPT_2024_12_2

Attachments:

IN0025674_INC_RPT_2024_12_2.pdf

Please see attached incident report IN0025674_INC_RPT_2024_12_2.

Laura Kolo Director of Utilities

1201 South Nappanee St. Elkhart, IN 46516

City Elkhart (574) 293-2572 ext.2283 **ASPIRE** to Aspire Elkhart.

"Tomorrow's Elkhart Starting Today" Public Works - Street & Utility Infrastructure

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🥓 View Certification | 🔊 Download COR

Form Approved OMB No. 2040-0004 expires on 07/31/2026

DMR Copy of Submission

Expand Notices

Showing COR 1 of 31 $^{\rlap{\mbox{\scriptsize dd}}}$ $^{\rlap{\mbox{\scriptsize def}}}$ $^{\rlap{\mbox{\scriptsize def}}}$ $^{\rlap{\mbox{\scriptsize bp}}}$

ELKHART WWTP IN0025674 Permit ID: Permittee: Permit

035 - External Outfall **ELKHART WWTP** Report Dates & Status Permitted Feature: Monitoring Period: Facility:

From 10/01/24 to 12/31/24

NetDMR Validated

Status:

REPORT MONTHLY SAMPLING ON THE 001-A NETDMR. MUNICIPAL MAJOR ELKHART COUNTY Considerations for Form Completion

Utility Services Manager Laura

Last Name: Telephone:

No Data Indicator (NODI)

Principal Executive Officer

First Name:

Title:

Form NODI:

035-AQ - QUARTERLY REPORTING 1201 S NAPPANEE ST ELKHART , IN46516

01/28/25

DMR Due Date:

229 SOUTH 2ND ST ELKHART, IN46516

Permittee Address:

Major:

Facility Location:

Discharge:

Ko So

574-293-2572

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01113 Cadmium, total recoverable	Smpl.		<0.016	26 - In/d		<0.0002	19 -	0	01/90 -	24 - 24 Hour Composite
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01113 Cadmium, total recoverable	Smpl.						=0.0051	19 - mg/L	0	01/90 - Quarterly	24 - 24 Hour Composite
G - Raw Sewage Influent Season: 0	Req.		d in committee intropere and an account code in demokraticions in a code				Req Mon DAILY MX	19 -	Service Service	01/90 -	24 - 24 Hour
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01114 Lead, total recoverable 1 - Effluent Gross	Smpl.		<0.083	26 - lb/d			<0.001	19 - mg/L	0	01/90 - Quarterly	24 - 24 Hour Composite
Season: 0	Req.		Req Mon DAILY MX	26 - lb/d			Req Mon DAILY MX	19 - mg/L		01/90 - Quarterly	24 - 24 Hour Composite
NODI: -	NODI										
01114 Lead, total recoverable G - Raw Sewage Influent	Smpl.		·				=0.0015	19 - mg/L	0	01/90 - Quarterly	24 - 24 Hour Composite
Season: 0	Req.							19 - mg/L		01/90 - Quarterly	24 - 24 Hour Composite
NODI: -	NODI	*						1	:		
01118 Chromium, total recoverable 1 - Effluent Gross	Smpl.		=0.167	26 - lb/d			=0.002	19 - mg/L	0	01/90 - Quarterly	24 - 24 Hour Composite
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01118 Chromium, total recoverable G - Raw Sewage Influent	Smpl.						=0.0051	19 - mg/L	0	01/90 - Quarterly	24 - 24 Hour Composite
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01119 Copper, total recoverable 1 - Effluent Gross	Smpl.		=1.2495	26 - lb/d			=0.015	19 - mg/L	0	01/90 - Quarterly	24 - 24 Hour Composite
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Code	Code Name		Value 1 Value 2	Value 2	Units	Value 1	Value 2	Units Value 1 Value 2 Value 3 Units	Units	Anaiysis	
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Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

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ELKHART WWTP

User: Name: laura.kolo@coei.org 2025-01-27 10:17 (Time Zone:-05:00)

Laura Kolo

Payton88

Report Last Signed By

User:

Date/Time:

E-Mail:

Payton88

Name: Laura Kolo

2025-01-27 10:32 (Time Zone:-05:00)

Date/Time:

E-Mail:

laura.kolo@coei.org

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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	Elkhart		ARTHERY							Page 1	of	9		P	erm	it Number:	INO	025574	
Facility:	Elkhart P	ublic Wor	ks & Utilities	3							ı	Public Not	ific	ation Requi	rem	ents Met?	Υ		
Monitori	ing Period	l; Dec	ember	2024							Е	nter "x" if	no	CSO disch	arg	e occurred	for t	he mont	h: X
Design I	Peak Hour	ty Flow (N	/GD):	44	Design Ave	erage Flow	(MGD):	20		Measured/I	Met	ered (M) c	r E	stimated (E) mi	ust be spec	lfiec	1	
WWTF	Influent	Data		Pre	cipitation D	ata			C	SO Outfall I	No.	005			С	SO Outfall)	No.	006	
Day of	Average Dally Flow	Peak Hourly Flow	Time Precip. Began	Precip. Duration	Total Dally Precip.	Peak Intensity	Measureme nt Interval (hr, 30 m,		M or	Event Duration	M or	Event Discharg	≥	Time Discharge	M or	Event Duration	M or	Event Discharg	
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5	10.34	12.80					15 min						_						
6	10,37	12.00	10:29 AM	9.20	0.10	0.08	15 min												
7	10.32	12.10	1:56 PM	0.47	0.01	0.04	15 min												\top
8	9.74	11.40	1,001 111	0.47	0.07	0,04	15 min												
9	10.73	12,20	1:06 AM	5,25	0,10	0,16	15 min				-								
10	10.73	12.10	1,00 ,,	0,20	0,10	0.10	15 min												
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14	9.89	12.20	8:14 PM	3,83	0.16	0.08	15 min		_										
15	12.75	22.00	12:01 AM	17.08	0.33	0.16	15 min												
16	10,86	12.00	6:16 AM	5.67	0.11	0.20	15 min												
17	10.09	11.50					15 min												
18	10.18	12.70					15 min												
19	10.49	22.00					15 min												
20	10.11	11.80	11:29 AM	4.03	0.08	0.04	15 min												
21	9.15	10.90	11:49 AM	2.20	0.02	0.04	15 min												
22	9.26	10.70					15 min												
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24	9.97	11.20	8:56 AM	80,0	0.01	0,04	15 min												
25	9.26	10.80	8:46 PM	0.08	0.01	0.04	15 min												
26	10.69	11.50	12:56 AM	13.47	0.03	0.04	15 min												
27	10.30	12,50	1:06 PM	10.92	0.18	0.08	15 min												
28	10,36	13,90	12:01 AM	2.67	0.04	0.08	15 min												
29	19.08	30,00	2:26 AM	21,33	1.32	0.20	15 min												
30	10.81	12.00	12:11 AM	1.92	0.02	0.04	15 min												
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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) NT OF ENVIRONMENTAL MANAGEMENT

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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-16) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50548 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) ENT OF ENVIRONMENTAL MANAGEMENT

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National Pollutant Discharge Elimination System (NPDES) CSO Monthly Report of Operation (CSO MRO) State Form 50546 (R4 / 9-15) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Signature of Principal Executive Officer or Authorized Agent

City:	Elkhart		Page: 9 of 9	Permit Number: IN0025574
Facility	Elkhart Public Works & Utilities		Public No	tification Requirements Met? Y
Monito	ing Period: December 2024		Enter "x" i	no CSO discharge occurred for the month:
Design	Peak Hourly Flow (MGD): 44	Design Average Flow (MGD): 20		
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Month	Comments (further explanation as	to why each CSO event occurred)	Company Personal Section	
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	Laura E. Ko	lo, Utilities Services Manager		574-293-2572
I CERT	FY UNDER PENALTY OF LAW THAT THIS	DOCUMENT AND ALL ATTACHMENTS WERE P	REPARED UNDER MY DI	RECTION OR SUPERVISION IN ACCORDANCE
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01/27/25

🗐 View All Copies of Submissions | 🗓 DMR/COR Search Results 🖭 View DMR Signing Status

Figning Process Confirmation - CDX Activity ID: _9c2119dd-5d63-41dd-8572-26555f8f2175

Your DMRs are undergoing the Signing Process

Permit ID Facility		Permitted Feature	Discharge #	Facility. Permitted Feature Discharge # Discharge Description Monitoring Period End Date DMR Due Date	Monitoring Period End Date DMR Due Date	DMR Due Date
IN0025674	IN0025674 ELKHART WWTP 035	035	035-TX	SEMIANNUAL BIOMONITORING 02/28/25	02/28/25	03/28/25
IN0025674	IN0025674 ELKHART WWTP 035		035-TS	035-TS SEMIANNUAL BIOMONITORING 01/31/25	01/31/25	02/28/25

NPDES eReporting Help Desk: NPDESeReporting@epa.gov | 877-227-8965 (9:00am - 8:00pm EST) Contact Us to ask a question, provide feedback, or report a problem.

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DMR Copy of Submission

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Showing COR 1 of 2 $^{<\!\!<\!\!<\!\!<\!\!<}$ $^{<\!\!<\!\!<\!\!<}$ 1 $^{<\!\!<\!\!<\!\!>\!\!>}$

Form Approved OMB No. 2040-0004 expires on 07/31/2026

Permit ID: Permit

IN0025674

Permittee:

ELKHART WWTP

ELKHART WWTP

Permitted Feature: Facility:

035 - External Outfall

Discharge:

Facility Location:

Permittee Address:

Major:

1201 S NAPPANEE ST ELKHART , IN46516

035-TS - SEMIANNUAL BIOMONITORING

229 SOUTH 2ND ST ELKHART, IN46516

Report Dates & Status Monitoring Period: Status:

From 08/01/24 to 01/31/25

NetDMR Validated

DMR Due Date:

02/28/25

Considerations for Form Completion

SEMIANNUAL BIOMONITORING DATA: REPORT RE-TAKE INFORMATION ON THE 035-TX NETDMR. EMAIL THE FULL WETT REPORT TO wwreports@idem.in.gov. MUNICIPAL MAJOR ELKHART COUNTY

Principal Executive Officer

Laura First Name: Utility Services Manager

Last Name: Telephone:

574-293-2572 Kolo

No Data Indicator (NODI)

Title:

Form NODI:

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Biomonitor

Permittee/Location Elkhart WWTP Elkhart, IN			Permit N IN002567		1	Outfall 035	Number:
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WETT Reporting Frequency or Type: (mark one)	Monthly	Quarterly	Semi- annual	Annual	TRE	Post TRE X	First (per Reporting Frequency)

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		Toxicity (chronic)	TUc	1	8.0	Pass	Laboratory Report <u>and</u> NetDMR (Parameter Code 61426)
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		Toxicity (acute)	TUa	1	1,0	Pass	Laboratory Report <u>and</u> NetDMR (Parameter Code 61427)
		Toxicity (chronic)	TUc	1	8.0	Pass	Laboratory Report <u>and</u> NetDMR (Parameter Code 61428)

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

Name	Type	Size
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Report Last Saved By

ELKHART WWTP

User: Payton88

Name: E-Mail:

Laura Kolo laura.kolo@coei.org

2025-01-27 11:43 (Time Zone:-05:00)

Date/Time:
Report Last Signed By

Payton88

Laura Kolo

laura.kolo@coei.org

E-Mail:

Name:

User:

Date/Time: 2025-01-27 11:45 (Time Zone:-05:00)

NPDES eReporting Help Desk: NPDESeReporting@epa.gov | 877-227-8965 (9:00am - 8:00pm EST) Contact Us to ask a question, provide feedback, or report a problem.

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Form Approved OMB No. 2040-0004 expires on 07/31/2026

DMR Copy of Submission

Expand Notices

Permit ID: Permit

Permittee:

ELKHART WWTP

IN0025674

ELKHART WWTP Facility:

035 - External Outfall

Facility Location:

Discharge:

Permittee Address:

Major:

229 SOUTH 2ND ST

1201 S NAPPANEE ST ELKHART , IN46516 ELKHART, IN46516

035-TX - SEMIANNUAL BIOMONITORING

Report Dates & Status Permitted Feature: Monitoring Period:

From 09/01/24 to 02/28/25

NetDMR Validated

03/28/25

DMR Due Date:

Considerations for Form Completion

Status:

SEMIANNUAL BIOMONITORING RE-TAKE DATA - IF CORRESPONDING 035-TS DID NOT FAIL YOU ARE ALLOWED TO REPORT NODI CODE "9" ON THIS NETDMR. MUNICIPAL MAJOR ELKHART COUNTY

574-293-2572

Kolo

Last Name: Telephone:

Principal Executive Officer

Laura First Name: Utility Services Manager

Title:

No Data Indicator (NODI)

Form NODI:

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Code		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units	Ex.	ysis	- - - - - - - - - - - - - - - - - - -
61425 Toxicity [acute], Ceriodaphnia dubia	Smpl.			· · · · · · · · · · · · · · · · · · ·							
1 - Effluent Gross											
Season: 0	Req.						<=1.0 MAXIMUM	2F - tox acute	02/YR - Twice Per Year		24 - 24 Hour Composite
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61426 Toxicity [chronic], Ceriodaphnia dubia 1 - Effluent Gross	Smpl.				,						
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Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

ELKHART WWTP User:

Laura Kolo Payton88 Name:

2025-01-27 11:44 (Time Zone:-05:00) laura.kolo@coei.org Date/Time: E-Mail:

Report Last Signed By

Laura Kolo Payton88 Name: User:

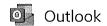
2025-01-27 11:45 (Time Zone:-05:00)

Date/Time:

E-Mail:

laura.kolo@coei.org

NPDES eReporting Help Desk: <u>NPDESeReporting@epa.gov</u> | 877-227-8965 (9:00am - 8:00pm EST) **Contact Us** to ask a question, provide feedback, or report a problem.



WETT Report Elkhart IN0025674 #1 for 2025

From Kolo, Laura <Laura.Kolo@coei.org>

Date Mon 1/27/2025 11:58 AM

To 'wwreports@idem.IN.gov' <wwreports@idem.in.gov>

Cc Kolo, Laura <Laura.Kolo@coei.org>

1 attachment (3 MB) IN0025674_035TS_2025_01.pdf;

Please find Elkhart IN0026574_035TS_2025_01 report.

Please contact me with any questions.

Laura Kolo laura.kolo@coei.org (574) 293-2572 Biomonitor 8802 West Washington Street Indianapolis, IN 46231 (317) 297-7713

Whole Effluent Toxicity Test

ELKHART WASTEWATER TREATMENT PLANT

IN0025674

Elkhart, Indiana

January 2025

GLP (Good Laboratory Practices) COMPLIANCE STATEMENT

Project Name: Elkhart Wastewater Treatment Plant

Project Date: <u>January 2025</u>

This project has been conducted under GLP standards, as stated in 40 CFR Part 160, with the following exceptions:

Quality Assurance Officer

Greg R. Bright

Date: 1/20/25

Michael Britten

Project Director Date: 1/20/25

Other Participating Personnel:

Mukang'andu Ng'andwe Arizona Fox

Copies of the raw data and final report are maintained in the archives of Biomonitor for five years from the date of completion.

Section 1 Executive Summary

Biomonitor conducted whole effluent toxicity testing for the Elkhart, IN Wastewater Treatment Plant during January 2025. The purpose of the testing was to fulfill the biomonitoring requirement for the NPDES permit.

Three samples were collected January 5-9, 2025. The water flea, *Ceriodaphnia dubia*, and Fathead minnow, *Pimephales promelas*, were used as the test organisms.

A total of six toxicity endpoints were measured. The following results were obtained:

Ceriodaphnia dubia test

48-hr LC ₅₀	>	100% effluent	TU _a <	1.0
NOEL for survival		100% effluent	TU _c =	1.0
NOEL for reproduction	=	100% effluent	TUc =	1.0

Pimephales promelas test

48-hr LC ₅₀	>	100% effluent	TU _a <	1.0
NOEL for survival	=	100% effluent	TU _c =	1.0
NOEL for growth	=	100% effluent	TU _c =	1.0

The acute toxicity limits in the NPDES permit require the 48 and/or 96-hr LC_{50} to be greater than 100% effluent (a TU_a not to exceed 1.0). The effluent samples passed the acute toxicity limits during this testing period for *Ceriodaphnia dubia* but not *Pimephales promelas*.

The chronic toxicity limits in the NPDES permit require a NOEL (No Observable Effect Level) of 12.5% effluent (a TU_c not to exceed 8.0). According to the NPDES permit, there was not a "Demonstration of Toxicity" during this sampling period.

Section 2 Introductory Information

<u>Table I</u> General

Permit number:

IN0025674

Toxicity testing requirements:

Fathead minnow larval survival and growth test

Ceriodaphnia survival and reproduction test

Plant location:

Elkhart Wastewater Treatment Plant

1201 Nappanee St. Elkhart, Indiana 46516

Name of receiving water body:

St. Joseph River

Name of WET testing laboratory:

Biomonitor

8802 West Washington St. Indianapolis, IN 46231

(317) 297-7713

<u>Table II</u> Plant Operations

Type of discharger:

Publicly owned treatment works

Wastewater consists of treated sanitary and industrial wastes

Type of waste treatment:

Class IV. Activated sludge

Design flow:

20 - MGD

Volume of wastewater flow during the sampling period:

January 5, 2025 -MGD

January 7, 2025 -MGD

January 9, 2025 -MGD

<u>Table III</u> Source of effluent and dilution water

I. Effluent samples

Sampling point:

Outfall 035

Collection dates and times:

January 5, 2025

11:00 p.m.

January 7, 2025

11:00 p.m.

January 9, 2025

11:00 p.m.

Sample collection:

24-hour composite samples

Physical and chemical data:

See Tables 9 and 15

II. Dilution water samples

Source:

Moderately Hard Synthetic Water (MHSW)

Collection date and time:

N/A

Pretreatment:

None

Physical and chemical data:

See Tables 9 and 15

ELKBART WASTEWATER TREATMENT PLANT

Section 3
Test Methods and Results

CERIODAPHNIA SURVIVAL AND REPRODUCTION TEST

Table IV METHODOLOGY Ceriodaphnia Survival and Reproduction Test

Toxicity test method used:

Ceriodaphnia survival and reproduction test

Endpoints of test:

Survival and reproduction

(LC₅₀, NOEL, and LOEL)

Reference method:

EPA-821-R-02-013

Deviations from method:

Test was completed in eight days because control

animals did not produce an average of greater than

15 young per female by until day eight.

Date and time test initiated:

January 7, 2025

10:35 a.m.

Date and time test terminated

January 15, 2025

2:35 p.m.

Type of test chambers:

Polyethylene

30 ml

Volume of solution used per chamber:

15 ml

Number of organisms per chamber:

1

Number of replicate chambers per

treatment:

10

Test temperature range:

25°C (no deviations)

Table V ORGANISMS USED Ceriodaphnia Survival and Reproduction Test

Scientific name:

Ceriodaphnia dubia

Age:

<24 hours

Life stage:

neonates

Mean length and weight:

Not applicable

Source

Laboratory culture in moderately hard reconstituted

water

Diseases and treatment

Not applicable

Table VI RESULTS Ceriodaphnia Survival and Reproduction Test

Raw Data:

See Table 8

LC₅₀ or **NOEL** obtained:

48-hr LC_{50} = greater than 100% effluent

NOEL for survival = 100% effluent

NOEL for reproduction = 100% effluent

Control survival was 100% after eight days. Control reproduction averaged greater than 15 per surviving

female.

Methods used to calculate endpoints:

Fisher's Exact Test for the survival endpoint.

Dunnett's Test for the reproduction endpoint.

No calculations necessary for the acute endpoint.

Table VII QUALITY ASSURANCE Ceriodaphnia Survival and Reproduction Test

Reference Toxicant used and source:

Copper chloride, reagent grade, from Carolina

Biological

Date and time of most recent test:

January 14-21, 2025

Dilution water used in test:

Moderately hard synthetic water

Results:

48-hr $LC_{50} = 105 \mu g/L$ as Cu

NOEL (reproduction) = $40 \mu g/L$ as Cu

LOEL (reproduction) = 80 μg/L as Cu

Comparison to recommended range:

Within the laboratory control range for both acute

and chronic endpoints (see attachment)

Table VIII
TEST DATA
Ceriodaphnia Survival and Reproduction Test

Effluent	Day		ſ	Numl	per o			eproc	duced	l		Young	Total Live
Concentration	No.					Repl	icate		-0			Per	Breeders
Concentration	NO.	Α	В	С	D	Е	F	G	Н	I	J	Female	Diecueis
A.A.		г		······································	1		1						1
	1	0	0	0	0	0	0	0	0	0	0		10
	2	0	0	0	0	0	0	0	0	0	0		10
	3	0	0	2	2	2	2	5	2	2	0		10
Control	4	4	2	4	4	3	4	4	4	4	3	16.1	10
Control	5	6	2	0	0	0	0	0	0	0	4] 10.1	10
	6	8	0	3	4	0	4	2	4	4	0		10
	7	0	5	6	6	4	5	7	0	5	4		10
	8	7	7	0	0	0	0	0	3	0	8		10
					•		•						
	1	0	0	0	0	0	0	0	0	0	0		10
	2	0	0	0	0	0	0	0	0	0	0		10
	3	0	0	2	2	2	2	2	3	0	2]	10
6.25%	4	4	4	6	6	5	4	6	4	2	7	20.4	10
6.25%	5	6	6	5	0	0	0	0	0	4	5	20.4	10
	6	8	0	0	6	5	5	3	5	0	0	1	10
	7	0	6	8	8	6	6	8	7	8	5		10
	8	9	0	0	0	0	0	0	0	0	12		10
- 14.0	1	0	0	0	0	0	0	0	0	0	0		10
	2	0	0	0	0	0	0	0	0	0	0		10
	3	0	4	0	2	2	2	4	4	0	0		10
12.5%	4	4	2	5	5	4	4	3	4	2	2	18.6	10
12.5%	5	3	9	5	0	0	0	0	0	4	4	18.0	10
	6	0	0	0	5	2	3	5	7	0	0	1	10
	7	6	8	9	8	6	4	6	8	6	6	1	10
	8	8	0	0	0	0	0	0	0	0	11	1	10

Table VIII (cont.) TEST DATA Ceriodaphnia Survival and Reproduction Test

Effluent	Day		ſ	Numl	oer o			eprod	duced	j		Young	Total Live
Concentration	No.					Repl		,				Per	Breeders
Concentration	110.	Α	В	С	D	E	F	G	Н	1	j	Female	Diceacis
	1				Г <u>о</u>	T 0				_		T	10
	1	0	0	0	0	0	0	0	0	0	0	-	10
	3	0	0	0	0 2	0	0	0	0	0	0		10
	4	0	2	4	5	4	2	0	5	3	3		10
25%	5	5	4	6	0	0	0	5	0	4	4	20.0	10
	6	0	0	0	6	5	3	0	6	0	0	_	10
	7	7	8	10	8	9	7	10	8	4	8		10
	8	12	0	0	0	0	0	0	0	0	9	_	10
		12											10
	1	0	0	0	0	0	0	0	0	0	0		10
	2	0	0	0	0	0	0	0	0	0	0	-	10
	3	0	2	2	2	0	2	4	2	0	0		10
F00/	4	4	4	5	5	4	3	6	4	2	2	24.0	10
50%	5	7	2	0	0	0	0	0	0	6	8	21.0	10
	6	0	0	2	6	7	4	5	5	0	0		10
	7	11	9	6	9	8	6	12	5	7	7		10
	8	10	0	0	0	0	0	0	0	0	15		10
		т	I	1				Υ	·	r	T	1	
	1	0	0	0	0	0	0	0	0	0	0	_	10
	2	0	0	0	0	0	0	0	0	0	0		10
	3	0	0	2	2	0	0	0	3	0	0		10
100%	4	4	3	6	9	6	5	6	6	2	0	24.9	10
	5	6	0	4	10	7	0	8	0	5	6		10
	6	0	0	0	0	0	6	10	10	0	8		10
	7	10	6	9	10	12	8	0	0	11	10		10
	8	12	11	0	0	0	0	14	0	0	2		10

Table IX WATER CHEMISTRY Ceriodaphnia Survival and Reproduction Test

Effluent Concentration	D.O. <u>Range</u> mg/L	Temp. Range °C	pH <u>Range</u> S.U.	Alk. Range CaCO ₃	Hardness Range CaCO ₃	Cond. <u>Range</u> μS
CONTROL	7.6 – 8.5	25	7.7 – 8.1	40-	90-100	310-380
6.25%	7.6 – 8.5	25	7.7 – 8.1			320-380
25%	7.6 – 8.6	25	7.8 – 8.1			380-420
100%	7.5 – 9.7	25	7.7 – 8.2	90-	200-275	690-790

				ii.																																	

FATHEAD MINNOW LARVAL SURVIVAL AND GROWTH TEST

Table X METHODOLOGY Fathead Minnow Larval Survival and Growth Test

Toxicity test method used: 7-day fathead minnow larval survival and growth

test

Endpoints of test: 96-hr LC₅₀ and no observable effect level (NOEL) for

survival and growth. TUc for survival and growth.

Reference method: EPA-821-R-02-013

Deviations from method:No Deviations

Date and time test initiated: January 7, 2025 10:45 a.m.

<u>Date and time test terminated</u> January 14, 2025 10:45 a.m.

Type of test chambers: Polyethylene 300 ml

Volume of solution used per chamber: 250 ml

Number of organisms per chamber: ten

Number of replicate chambers per four

treatment:

Test temperature range: 25°C (no deviations)

Table XI ORGANISMS USED Fathead Minnow Survival and Growth Test

Scientific name:

Pimephales promelas

Age:

<24 hours

Life stage:

larvae

Mean length and weight:

Not applicable

<u>Source</u>

Biomonitor Lab Cultures

Diseases and treatment

Not applicable

Table XII RESULTS

Fathead Minnow Larval Survival and Growth Test

Raw Data:

See Table 14

LC₅₀ or NOEL obtained:

96-hr $LC_{50} = >100\%$ effluent

NOEL for survival = 100% effluent (There was a statistically significant difference between the 50% concentration and the control. This was likely due to chance because no other concentration was affected.)

NOEL for growth = 100% effluent

Control survival and growth fell within the acceptable

range

Methods used to calculate

endpoints:

Steel's Many-One Rank Test was required for the survival

endpoint because the homogeneity of variance

assumptions could not be met.

Dunnett's Test for the growth endpoint.

No calculations necessary for the acute endpoint.

Table XIII QUALITY ASSURANCE Fathead Minnow Larval Survival and Growth Test

Reference Toxicant used and source: Potassium chloride, reagent grade,

from Sigma-Aldrich

Date and time of most recent test: January 14-21, 2025

<u>Dilution water used in test:</u> Moderately Hard Synthetic Water

Results: 96-hr LC₅₀ = 1110 mg /L as KCl

NOEL (growth) = 1000 mg/L as KCl

LOEL (growth) = 2000 mg/L as KCl

<u>Comparison to recommended range:</u> Within the laboratory control range for both acute

and chronic endpoints (see attachment)

Table XIV
TEST DATA
Fathead Minnow Larval Survival and Growth Test

Effluent Concentration	% Survival in Each Replicate				Average Dry Weight (mg) in Each Replicate			
Concentration	Α	В	С	D	Α	В	С	D
Control	100	100	100	100	270	360	290	370
6.25%	100	100	100	90	280	340	300	320
12.5%	100	70	80	100	260	280	260	370
25%	100	100	80	90	380	370	310	320
50%	80	80	50	60	220	320	200	320
100%	100	90	100	30	340	320	450	150

Table XV WATER CHEMISTRY Fathead Minnow Larval Survival and Growth Test

Effluent Concentration	D.O. <u>Range</u> mg/L	Temp. Range °C	pH <u>Range</u> S.U.	Alk. Range CaCO ₃	Hardness Range CaCO ₃	Cond. <u>Range</u> μS
CONTROL	6.6 – 8.8	25	7.4 – 8.0	40-	90-100	310-320
6.25%	6.6 – 8.8	25	7.5 – 8.0			330-
25%	6.6 – 8.9	25	7.4 – 7.9			400-430
100%	6.4 – 10.3	25	7.4 – 7.8	90-	200-275	760-810

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SAMPLE SUMMARY AND CHAIN OF CUSTODY

CLIENT NAME:	Elkhart WWTP				
PURPOSE OF SAMPLE:	Whole Effluent Toxicity				
SAMPLE IDENTIFICATION	N: Elkhart - 1	Mon	day	Jan. 2025	
DESCRIPTION: Outfal					
DATE SAMPLE COLLECT	ED: Start Date	5-25	Start Time_	12:00 Midn	ight
	End Date	5-25	End Time	12:00 M.D.	
NAME OF PERSON COLL	ECTING SAMPLE: $\frac{1}{2}$	econ dang		•	
SAMPLE VOLUME:	8 Liters		,		
NUMBER OF CONTAINER	S: Two, HDPE				
SAMPLE STORAGE:	Refrigerated/iced				
PRESERVATIVES: Relinquished by:	none				
O. K.	2025	Time: 0/:	10 pm		
Received by:	7				
Date: 1-6-202	5	Time:(`.(ο ρ	The sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sa	
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Date:		Time:			
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Date:					
темР: <u></u>					

COMMENTS:

Biomonitor

8802 W. Washington Street Indianapolis, IN 46231 317-297-7713 www.biomonitor.com

SAMPLE SUMMARY AND CHAIN OF CUSTODY

CLIENT NAME: Elkh	art WWTP		
PURPOSE OF SAMPLE: Who	le Effluent Toxicity		
SAMPLE IDENTIFICATION:	Elkhart - 2.	Wed. _M onday	Jan. 2025
DESCRIPTION: Outfall			
DATE SAMPLE COLLECTED:	Start Date	7-85 Start Time	Midnight
	End Date 1-7-	-25 End Time _	11 pm
DATE SAMPLE COLLECTED: NAME OF PERSON COLLECTIV	NG SAMPLE: <u>VC</u>	condary	•
SAMPLE VOLUME:	8 Liters	J	
NUMBER OF CONTAINERS:	Two, HDPE		
SAMPLE STORAGE:	Refrigerated/iced		
PRESERVATIVES:	none		
Relinquished by: Tyle Toller			
Date: 1.8.2025		Time: 1:04 pm	
Received by:			
Date: 1-8-25		Time: 1:04 p	
Relinquished by:	100-200-200-200-200-200-200-200-200-200-		
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TEMP: °C			

COMMENTS:

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SAMPLE SUMMARY AND CHAIN OF CUSTODY

CLIENT NAME:	Elkhart WWTP			
PURPOSE OF SAMPLE:	Whole Effluent Toxicit	у		
SAMPLE IDENTIFICATION	V: Elkhart - 3	Friday	Jan. 2025	
DESCRIPTION: Outfall				
DATE SAMPLE COLLECTI	ED: Start Date 1.	9.2025	Start Time 12:00 am (midnight
	End Date/.9	. 2025 I	End Time	
NAME OF PERSON COLLE	ECTING SAMPLE: 🔀	Secondary	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	
SAMPLE VOLUME:	8 Liters	<i>(/</i>		
NUMBER OF CONTAINER	S: Two, HDPE			
SAMPLE STORAGE:	Refrigerated/ice	ed		
PRESERVATIVES: Relinquished by: <u>Par</u>	none			
Date: 1-10-	-25	Time:	25 pm.	***************************************
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Date: 1-10-25		Time: (: 0 S	ρ	
Relinquished by:	A A AMARIAN MANAGEMENT OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE ANALYSIS OF THE	W-1444-1-1-1		
Date:		Time:	1110000000	
Received by:				
Date:				
TEMP:°C				

COMMENTS:

Ceriodaphnia dubia	
Reference Toxicant - Copper sulfate/chloride as Cu	Dilution Water - Moderately Hard Reconstituted Water

Pate	LC ₅₀	NOEL	LOEL	IC ₂₅
ım/yy	48-hr μg/L	μg/L (repro.)	μg/L (repro.)	μg/L (repro.)
09/21	67	40	80	23
09/21	92	40	80	49
10/21	73	40	80	52
11/21	113	40	160	59
12/21	75	40	80	45
2/22	105	40	80	54
3/22	75	40	80	51
4/22	113	40	80	57
5/22	95	40	80	30
6/22	113	40	80	41
7/22	75	40	80	33
8/22	86	20	40	30
9/22	80	40	80	32
11/22	70	40	80	40
12/22	77	40	80	48
1/23	75	40	80	48
2/23	86	40	80	52
4/23	80	40	80	37
5/23	80	40	80	39
06/23	113	40	160	59
07/23	75	40	80	55
09/23	80	40	80	15
10/23	113	40	80	58
11/23 01/24	86	40	80	50
02/24	99	20	40	30
03/24	86	40	80	48
04/24	80 80	40 40	80 80	48
06/24	67	20	80 40	\$1
07/24	99	20	40	32 20
09/24	98	40	80	20 55
10/24	70	40	80	70
11/24	92	40	80 80	25
01/25	105	40	80	49
erage	89	Mode 40	80	44
Dev.	14			13
per Limit	116	80	160	69
wer Lim <u>lt</u>	61	20	40	18

	Pimephales promelas	
ı	Reference Toxicant - Potassium chloride	Dilution Water - Moderately Hard Reconstituted Water

Date	LC _{so}	NOEL	LOEL	IC ₂₅
mm/yy	96-hr mg/L	mg/L (grwth)	mg/L (grwth)	mg/L (grwth)
11/21	1129	1000	2000	939
12/21	1129	500	1000	810
02/22	812	500	1000	612
03/22	946	500	1000	707
04/22	917	500	1000	703
05/22	1110	1000	2000	1223
06/22	856	500	1000	710
07/22	1130	500	1000	736
08/22	1093	500	1000	925
09/22	1278	1000	2000	950
11/22	1035	500	1000	684
12/22	1053	1000	2000	805
01/23	795	500	1000	664
02/23	1091	500	1000	741
04/23	1231	1000	2000	1121
05/23	1189	1000	2000	1110
06/23	951	500	1000	669
07/23	1091	500	1000	1091
09/23	1000	500	1000	702
10/23	1174	500	1000	768
11/23	1253	500	1000	849
01/24	1128	500	1000	699
02/24	952	1000	2000	798
03/24	1169	500	1000	908
04/24	1189	1000	2000	1037
06/24	1169	500	1000	899
07/24	1091	1000	2000	989
09/24	966	500	1000	76B
10/24	1254	1000	2000	1188
11/24	1097	500	1000	720
01/25	1110	1000	2000	829
Average	1076	Mode 500	1000	851
St. Dev.	125			166
Upper Limit	1326	1000	2000	1183
Lower Limit	827	250	500	519

Client:	Elkhart WWTP				
Project #					
Analysts:	M	MB, MN, AF			
	Start Date:	1/7/2025			
Fest Dates	Start Time:	1035			
Test	End Date:	1/15/2025			
	End Time:	1435			
Template #	E	3			

0 = Number of Live Young/ = Test Organism Deady = MaleM = Lost or Missing

Comments:

1 0 0 0 0 0	0
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3 2 0 0 0 0 4 7 3 3 0 2	+ 5
97 A 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1
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2 5 0 0 0 5	08
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y Sept.	4 W. 74		٥	0	0	0	0	0
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		7	10	10	<u> </u>	10	16	111
		1	17	9	12	12	8	10

1035 1435 MMB, MN, AF 1/7/25 1/15/25 Analyst: Test Stop- Date/Time: Test Start- Date/Time: 1//5,7,9/25 Ekihart WWTP Elkhart, IN Date Sample Collected: Discharger: Location:

Conc. Day 1 2 3 4 5 6 7 8 9 10 Young Adults Adult 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							Replicate	cate					No. of		Young per
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6 2 0 0 0 0 0 0 4 12 10 8 0 3 4 0 4 2 4 4 0 29 10 10 0 5 6 6 4 5 7 0 5 4 42 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10		4	4	2	4	4	3	4	4	4	4	3	36	10	3.6
8 0 3 4 0 4 2 4 6 6 6 4 5 7 6 6 4 5 7 0 5 4 42 10 10 7 7 7 0 0 0 0 3 0 8 25 10 10 8 15 16 9 15 18 13 15 16 10 10	Control	2	9	2	0	0	0	0	0	0	0	4	12	01	1.2
0 5 6 6 4 5 7 0 5 4 42 10 7 7 7 0 0 0 0 3 0 8 25 10 25 16 15 16 15 18 13 15 16 10 10		9	8	0	3	4	0	4	2	4	4	0	29	0T	2.9
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		Total	25	16	15	16	6	15	18	13	15	19	161	10	16.1

						Replicate	cate					No. of	No. of	Young per
Conc.	Day	T	7	m	4	2	9	7	∞	6	10	Young	Adults	Adult
	1	0	0	0	0	0	0	0	0	0	0	0	10	0.0
	2	0	0	0	0	0	0	0	0	0	0	0	10	0.0
	3	0	0	2	2	2	2	2	3	0	2	15	10	1.5
	4	4	4	9	9	2	4	9	4	2	7	48	10	4.8
%9	2	9	9	5	0	0	0	0	0	4	5	26	10	2.6
	9	8	0	0	9	5	5	3	5	0	0	32	10	3.2
	7	0	9	8	∞	9	9	8	7	∞	5	62	10	6.2
	8	6	0	0	0	0	0	0	0	0	12	21	10	2.1
	Total	27	16	21	22	18	17	19	19	14	31	204	10	20.4
			*				-		100					

						Replicate	cate	,				No. of	No. of	Young per
Conc.	Day	7	2	က	4	. 5	9	7	~	6	10	Young	Adults	Adult
	T	0	0	0	0	0	0	0	0	0	0	0	10	0.0
1	2	0	0	0	0	0	0	0	0	0	0	0	10	0.0
	3	0	4	0	2	2	2	4	4	0	0	18	0T	1.8
ì	4	4	2	5	2	4	4	33	4	2	2	32	10	3.5
12%	2	8	6	5	0	0	0	0	0	4	4	25	01	2.5
	9	0	0	0	2	2	3	2	7	0	0	22	0T	2.2
	7	9	8	6	8	9	4	9	8	9	9	29	10	6.7
	8	8	0	0	0	0	0	0	0	0	11	19	10	1.9
	Total	21	23	19	20	14	13	18	23	12	23	186	10	18.6

						Replicate	cate					No. of	No. of	Young per
Conc.	Day	T	2	8	4	5	9	2	8	6	10	Young	Aduits	Adult
	T	0	0	0	0	0	0	0	0	0	0	0	10	0.0
	2	0	0	0	0	0	0	0	0	0	0	0	10	0.0
	8	0	2	3	2	2	2	3	7	0	0	18	10	1.8
	4	4	4	4	5	4	2	0	2	3	ю	34	10	3,4
25%		5	4	9	0	0	0	5	0	4	4	28	10	2.8
L.	9	0	0	0	9	5	æ	0	9	0	0	20	10	2.0
	2	7	8	10	∞	6	7	10	8	4	8	79	10	7.9
	8	12	0	0	0	0	0	0	0	0	6	21	10	2.1
	Total	28	18	23	21	20	14	18	23	11	24	200	10	20.0
						C. I. C.	,					No of	No of	Voune ner
Conc	Dav	,	,	~	-	2	9	7	~	6	10	Young	Adults	Adult
	1	0	0	0	0	0	0	0	0	0	0	0	10	0.0
	2	0	0	0	0	0	0	0	0	0	0	0	10	0.0
	3	0	2	2	2	0	2	4	2	0	0	14	10	1.4
	4	4	4	2	5	4	3	9	4	2	2	39	10	3.9
%05	- 5	7	2	0	0	0	0	0	0	9	∞	23	10	2.3
3	9	0	0	2	9	7	4	5	5	0	0	29	10	2.9
	7	11	6	9	6	∞	9	12	5	7	7	80	10	8.0
No.	8	10	0	0	0	0	0	0	0	0	15	25	10	2.5
	Total	32	17	15	22	19	15	27	16	15	32	210	10	21.0
												CENTROL CONTRACTOR	2000	ST-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100 S-100
						Repl	Replicate					No. of	No. ot	Young per
Conc.	Day	1	2	3	4	5	9	7	8	6	10	Young	Adults	Adult
	1	0	0	0	0	0	0	0	0	0	0	. 0	10	0.0
	2	0	0	0	0	0	0	0	0	0	0	0	10	0.0
	3	0	0	2	2	0	0	0	3	0	0	۷	10	0.7
	4	4	3	9	6	9	2	9	9	2	0	47	10	4.7
700%	2	9	0	4	10	7	0	8	0	5	9	46	10	4.6
	9	0	0	0	0	0	9	10	10	0	8	34	10	3.4
		10	9	6	10	12	∞	0	0	11	10	9/	10	7.6
	8	12	11	0	0	0	0	14	0	0	7	39	10	3.9
	Total	32	20	21	31	22	19	38	19	18	97	249	10	24.9

File: ceriorep Transform: NO TRANSFORMATION

Chi-square test for normality: actual and expected frequencies

INTERVAL	<-1.5	-1.5 to <-0.5	-0.5 to 0.5	>0.5 to 1.5	>1.5
EXPECTED	4.020	14.520	22.920	14.520	4.020
OBSERVED	3	17	22	12	6

Calculated Chi-Square goodness of fit test statistic = 2.1319
Table Chi-Square value (alpha = 0.01) = 13.277

Data PASS normality test. Continue analysis.

Elkhart 1.25

File: ceriorep Transform: NO TRANSFORMATION

Hartley test for homogeneity of variance

Calculated H statistic (max Var/min Var) = 2.79

Closest, conservative, Table H statistic = 12.1 (alpha = 0.01)

Used for Table H ==> R (# groups) = 6, df (# reps-1) = 9 Actual values ==> R (# groups) = 6, df (# avg reps-1) = 9.00

Data PASS homogeneity test. Continue analysis.

NOTE: This test requires equal replicate sizes. If they are unequal but do not differ greatly, the Hartley test may still be used as an approximate test (average df are used).

File: ceriorep Transform: NO TRANSFORMATION

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 1 of 2

GRP	IDENTIFICATION	N	MIN	MAX	MEAN
1	control	10	9.000	25.000	16.100
3	6.25% 12.5%	10 10	14.000 12.000	31.000 23.000	20.400 18.600
4 5	25% 50%	10 10	11.000 15.000	28.000 32.000	20.000 21.000
6	100%	10	18.000	38.000	24.900

Elkhart 1.25

File: ceriorep Transform: NO TRANSFORMATION

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 2 of 2

GRP	IDENTIFICATION	VARIANCE	SD	SEM
1	control	17.211	4.149	1,312
2	6.25%	26.711	5.168	1.634
3	12.5%	18.044	4.248	1.343
4	25%	24.889	4.989	1.578
5	50%	48.000	6.928	2.191
6	100%	46.322	6.806	2.152

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File: ceriorep Transform: NO TRANSFORMATION

ANOVA TABLE

SOURCE	DF	SS	MS	F
B etwe en	5	421.733	84.347	2.793
Within (Error)	54	1630.600	30.196	
Total	59	2052.333		

Critical F value = 2.45 (0.05, 5, 40)

Since F > Critical F REJECT Ho: All groups equal

File: ceriorep Transform: NO TRANSFORMATION

D	UNNETTS TEST - TA	BLE 1 OF 2	Ho:Control <tr< th=""><th>reatment</th><th></th></tr<>	reat me nt	
GROUP	IDENTIFICATION	TRANSFORMED MEAN	MEAN CALCULATED IN ORIGINAL UNITS	T STAT	SIG
1 2 3 4 5 6	control 6.25% 12.5% 25% 50% 100%	16.100 20.400 18.600 20.000 21.000 24.900	16.100 20.400 18.600 20.000 21.000 24.900	-1.750 -1.017 -1.587 -1.994 -3.581	
Dunnett	table value = 2.31	(1 Tailed V	Value, P=0.05, df=40,	5)	-

Elkhart 1.25

File: ceriorep Transform: NO TRANSFORMATION

	DUNNETTS TEST -	TABLE 2 OF	2 Ho:	Control <t< th=""><th>reatment</th></t<>	reatment
GROUP	IDENTIFICATION	NUM OF REPS	Minimum Sig Diff (IN ORIG. UNITS)	% of CONTROL	DIFFERENCE FROM CONTROL
1	control	10		M2 000 000 NO 000 100 000	
2	6.25%	10	5.677	35.3	-4.300
3	12.5%	10	5.677	35.3	-2.500
4	25%	10	5.677	35.3	-3.900
5	50%	10	5.677	35.3	-4.900
6	100%	10	5.677	35.3	-8.800

Discharger:	Elkhart WWTP	Test Dates:	01/7/25 - 01/15/25
Location:	Elkhart, IN	Analysts:	MMB, MN, AF

		100000000000000000000000000000000000000	Maria di Santa di		Day				
Conc: (Control	1	2	3	4	5	6	7	Remarks
Temp.		25	25	25	25	25	25	25	
D.O.	Initial	7.9	8.2	8.1	8,0	8.5	8.5	8.4	Template B
	Final	7.8	43	7.6	8,4	1 8.3	8.4	7.8	
pН	Initial	7.9	7.9	7.9	8.0	7.9	8.0	8.1	
	Final	7.8	7.8	۲.۲	8.0	8.0	8.1	7.8	
Alkalinit	ý	40	A NAME.	40		40,			
Hardnes	S	90		100		90		SELVEN PROVINCE	
Conduct	ivity	380	defeates per	310		310		in a state	
Chlorine			TRANSPORT				THE RESIDENCE OF	STATE OF STATE	

Conc:	6.25%	1	2	3	Day	5	T 6	7 -	Remarks
Temp.		25	25	25	25	25	25	25	
D.O.	Initial	8.0	8.2	8.2	8.1	8.5	8.5	8.4	
	Final	7.8	8.3	7.6	8.4	8.3	8.4	7.7	
PH	Initial	7.9	7.9	7.9	7.9	7.9	8.0	8.1	
	Final	7.9	7.8	7.7	8.0	8.0	8.1	7.9	
Alkalini	ty						A STATE	Policies.	,
Hardne	SS		Q*Active)		No. of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the latest of the lates		VANCOUS P		
Conduc	tivity	380	15/14/14/55	320		330	\$400 B 600 B	PARA PARA	
Chlorin	e						1000年代第	September 1	

		Table of Add Natio	100000000000000000000000000000000000000		Day		April en engles del		1
	12.5%	1	2	3	4	5	6	7	Remarks
Temp.		25	25	25	25	25	25	25	
D.O.	Initial	8.0	8.2	8,4	8.2	8,5	85	8.4	
	Final	7.8	8,3	7.7	8.4	8.3	8.4	7.7	
рH	Initial	7,9	7.9	7.9	7.9	7.9	7.9	8.1	
	Final	7.9	7.8	7.8	8.0	8.0	8.1	7.9	
Alkalinit	y						100000000000000000000000000000000000000	1984	
Hardnes	S						000000000000000000000000000000000000000		
Conduct	ivity	380		340		360	1000		
Chlorine			THE RESERVE				YOUR		

Discharger:	Elkhart WWTP	Test Dates:	01/7/25 - 01/ ₁₅ /25
Location:	Elkhart, IN	Analysts:	MMB, MN, AF

					Day				
Conc: 2	25%	1	2	3	4	- 5	6	7	Remarks
Temp.		25	25	25	25	25	25	25	
D.O.	Initial	8.1	8.2	8.6	8.3	8.6	8.5	8.5	
	Final	7.6	8.2	7.7	8.4	8.2	8.3	7.7	
рH	Initial	7,9	7.8	7.8	7.9	7,9	79	8.1	
	Final	7.9	7,9	7.9	8.0	8.0	8.1	7.9	
Alkalini	ty	1		**************************************					
Hardnes	SS				\$100,000				
Conduct	tivity	380		410		420	500000000000000000000000000000000000000		
Chlorine			1/3/1/3/1/1				VANGER		

		4,000,000,000	Assignation of the	ana ing kalangan	Day	<u>Raty Malayasin</u>	koljeja ja ekolojkj	data y tadjag kelati	1
Conc:	50%	1	2	3	4	5	6	7	Remarks
Temp.		25	25	25	25	25	25	25	
D.O.	Initial	8.3	4.8	8,8	84	8.8	9.7	8.9	
	Final	7.6	8.2	7.7	8.3	8.2	8.2	7.7	
Нq	Initial	7,8	7.8	7.8	8.5	7.8	7.8	8.1	
Territoria Salatania	Final	8.0	8.0	7.9	8.0	8.0	8.1	7.9	
Alkalin	ity		0.000		No. All States		308035-55		
Hardne	ess				1998(3)(90)		Printer and	HANNE WORK	
Condu	ctivity	470	4440000	530		560			
Chlorin	ie .		18884				The test		

		Polygram Takey	ji da keligan soo	mataking Provi	Day		siaipa A fibrialia	garanta da karangan ka	
Conc:	100%	1	2	3	4	5	6	7	Remarks
Temp.		25	25	25	25	25	25	25	
D.O.	Initial	8.7	7.1	9.5	6.7	9.4	9.6	9.7	
	Final	7,5	8. 2	ר.ר	8.3	8.2	8.Z	7.6	
рH	Initial	7,8	7.7	7.7	7.8	7.7	7.7	8.0	
	Final	8.1	8.1	1.8	8.1	8.1	8.2	7.8	
Alkalinity		90		90		90	15/03/3/3/4		
Hardness		200		275		200			
Conducti	vity	690		7 70		790	N. San	() 建铁铁铁铁	
Chlorine		N.D.	24/24/24	ND		N.D.			
Ammonia	3	N.D.	98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ろり		N.D.			

Discharger: Elkhart WWTP Test Dates 1/7/25-7/14/25
Location: Elkhart, IN Analysts: MMB, MN, AF

			No.	Surv	ving	Organi	.sms		
					Day	1 30 00 1			
Conc:	Rep.#	-0 1 - 1	2	3	4	5	6	7	Remarks
	A	10	16	10	10	10	10	10	
Control	В	10	lo	10	10	10	10	10	
901111 01	C	10	10	10	10	16	10	10	
	D	10	10	10	10	10	10	10	
	_ A	10	10	10		10	10	10	р.,
6.25%	В	10	10	10	10	10	10	10	
	C	lo_	10	10	10	10	10	10	
	D	_lo	10	9	9	9	٩	9	
	_ A	10	10	0	10	10	10	10	
12.5%	В	10	10	10	10	8	8	7	
	С	10	10	10	8	8	8	8	
	D	10	10	10	10	<u> </u>	10	10	
	A	10	10	10	[0	10	10	_16	
25%	B	10	10	10	10	10	10	10	
	C	<u>lo</u>	10	10	<u> </u>	8	8	8	
	D	10	10	10	10	16	10		
	A	10		10	10	10	9	- 8	
50%	В	10	lo	10	0	ĻŅ	٩	0	
	<u> </u>	<u> 0</u>	10	10	<u> </u>	_ عا	5	5	
	D	<u> 10</u>	10	10	10		_1	6	
	A	10	10	ID	ΪO	10	10	10	
100%	<u>B</u>	10	9	9	9		٩	9	
140	C	10	(0	10	<u> </u>	10	10	10	
	D	10	10	٩	5	4	4	3	

Comments: Start Time:

1045

FHM Source:

Biomonitor Lab Cultures

Elkhart 1.25 File: fhmsurv Transform: ARC SINE(SQUARE ROOT(Y)) Shapiro Wilks test for normality D = 0.774W = 0.904Critical W (P = 0.05) (n = 24) = 0.916Critical W (P = 0.01) (n = 24) = 0.884 Data PASS normality test at P=0.01 level. Continue analysis. Elkhart 1.25 File: finmsurv Transform: ARC SINE(SQUARE ROOT(Y)) Hartley test for homogeneity of variance Bartletts test for homogeneity of variance ______ These two tests can not be performed because at least one group has zero variance. Data FAIL to meet homogeneity of variance assumption. Additional transformations are useless.

6

File: fhmsurv Transform: ARC SINE (SQUARE ROOT (Y))

STEELS MANY-ONE RANK TEST - Ho:Control<Treatment</p> TRANSFORMED RANK CRIT.
MEAN SUM VALUE GROUP IDENTIFICATION MEAN VALUE df SIG

 control
 1.412

 6.25%
 1.371
 16.00
 10.00
 4.00

 12.5%
 1.231
 14.00
 10.00
 4.00

 25%
 1.295
 14.00
 10.00
 4.00

 50%
 0.971
 10.00
 10.00
 4.00

 100%
 1.163
 14.00
 10.00
 4.00

 3 4 5

Critical values use k = 5, are 1 tailed, and alpha = 0.05

Discharge: Elkhart WWTP Test Date(s):

Location: Elkhart, IN Weighing Date:

Analyst: MMB, MN, AF

est Date(s): 1/7-14/25 eighing Date: 1/15/25

Drying Temp (°C): Drying Time (h):

100

W. Carlotte Co.	off (Second) was a series of the			and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	May man to the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of 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second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the s	HERONOM COMPANY CONTROL OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE	
Conc:	Rep. No.	Wgt. of boat (g)	Dry wgt: foil and larvae (g)	Total dry wgt of larvae (mg)	No. of larvae	Avg. dry wgt of Iarvae (g)	Remarks
	A	0.91900	0.92170	2.70	10	0.270	
l contract	8	0.91800	0.92160	3.60	10	0.360	-
ioning.	ပ	0.90800	0.91090	2.90	10	0.290	
	۵	0.91230	0.91600	3.70	10	0.370	
	A	0.91580	0.91860	2.80	10	0.280	
Conc:	8	0.90480	0.90820	3.40	10	0.340	
6.25%	ြ	09606.0	0.91260	3.00	10	0.300	
	۵	0.906.0	0.90920	3.20	6	0.320	
	A	0.90740	0.91000	2.60	10	0.260	
Conc:	8	0.90910	0.91190	2.80	7	0.280	
12.5%	၁	0.91160	0.91420	2.60	8	0.260	
	۵	0.90920	0.91290	3.70	10	0.370	
	٨	0.92610	0.92990	3.80	10	0380	
Conc:	В	0.91970	0.92340	3.70	10	0.370	
25%)	0.91150	0.91460	3.10	8	0.310	
	Q	0.91300	0.91620	3.20	6	0.320	
	A	0.93200	0.93420	2.20	8	0.220	
Conc:	B	0.92180	0.92500	3.20	8	0.320	
20%	U	0.91490	0.91690	2.00	5	0.200	
	٥	0.90440	0.90760	3.20	9	0.320	
	A	0.92100	0.92440	3.40	10	0.340	
Conc:	B	0.92730	0.93050	3.20	6	0.320	
100%	3	0.91540	0.91990	4.50	10	0.450	
		03606'0	0.91100	1.50	3	0.150	

File: fhm_grow Transform: NO TRANSFORMATION

Chi-square test for normality: actual and expected frequencies

INTERVAL	<-1.5	-1.5 to <-0.5	-0.5 to 0.5	>0.5 to 1.5	>1.5
	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s			· · · · · · · · · · · · · · · · · · ·	
EXPECTED OBSERVED	1.608 0	5.808 10	9.168 5	5.808 9	1.608 0

Calculated Chi-Square goodness of fit test statistic = 9.8908 Table Chi-Square value (alpha = 0.01) = 13.277

Data PASS normality test. Continue analysis.

Elkhart 1.25

File: fhm grow Transform: NO TRANSFORMATION

Hartley test for homogeneity of variance

Calculated H statistic (max Var/min Var) = 23.05

Closest, conservative, Table H statistic = 184.0 (alpha = 0.01)

Used for Table H ==> R (# groups) = 6, df (# reps-1) = 3 Actual values ==> R (# groups) = 6, df (# avg reps-1) = 3.00

Data PASS homogeneity test. Continue analysis.

NOTE: This test requires equal replicate sizes. If they are unequal but do not differ greatly, the Hartley test may still be used as an approximate test (average df are used).

File: fhm grow Transform: NO TRANSFORMATION

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 1 of 2

GRP	IDENTIFICATION	N	MIN	MAX	MEAN
1	control	4	0.270	0.370	0.323
2	6.25%	4	0.280	0.340	0.310
3	12.5%	4	0.260	0.370	0.293
4	25%	4	0.310	0.380	0.345
5	50%	4	0.200	0.320	0.265
6	100%	4	0.150	0.450	0.315

Elkhart 1,25

File: fhm_grow Transform: NO TRANSFORMATION

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 2 of 2

GRP	IDENTIFICATION	VARIANCE	SD	SEM
1	contro1	0.002	0.050	0.025
2	6.25%	0.001	0.026	0.013
3	12.5%	0.003	0.053	0.026
4 .	25%	0.001	0.035	0.018
5	50%	0.004	0.064	0.032
6	100%	0.015	0.124	0.062

Elkhart 1.25

File: fhm grow Transform: NO TRANSFORMATION

ANOVA TABLE

SOURCE	DF	SS	MS	F
B etwe en	5	0.015	0.003	0.750
Within (Error)	18	0.080	0.004	
Total	23	0.095		

Critical F value = 2.77 (0.05,5,18)

Since F < Critical F FAIL TO REJECT Ho: All groups equal

File: fhm grow Transform: NO TRANSFORMATION

DUNNETTS TEST - TABLE 1 OF 2 Ho:Control<Treatment GROUP IDENTIFICATION MEAN ORIGINAL UNITS T STAT SIG
 control
 0.323
 0.323

 6.25%
 0.310
 0.310
 0.260

 12.5%
 0.293
 0.293
 0.671

 25%
 0.345
 0.345
 -0.503

 50%
 0.265
 0.265
 1.286

 100%
 0.315
 0.315
 0.168
 2 3 4

Dunnett table value = 2.41 (1 Tailed Value, P=0.05, df=18,5)

Elkhart 1.25

File: fhm grow Transform: NO TRANSFORMATION

	DUNNETTS TEST - T	ABLE 2 OF	2 Ho:	Control <t< th=""><th>reatment</th></t<>	reat me nt
GROUP	IDENTIFICATION	NUM OF REPS	Minimum Sig Diff (IN ORIG. UNITS)	% of CONTROL	DIFFERENCE FROM CONTROL
1	control	4			
2	6.25%	4	0.108	33.4	0.012
3	12.5%	4	0.108	33.4	0.030
4	25%	4	0.108	33.4	-0.022
5	50%	4	0.108	33.4	0.058
6	100%	4	0.108	33.4	0.008

Discharger:	Elkhart WWTP	Test Dates:	01/7/25 -01/14/25
Location:	Elkhart, IN	Analysts:	MMB, MN, AF

	5400000	an Vivora		Day			89 SP 50 A S	
Conc: Control	1	2	3	4	5	6	7	Remarks
Temp.	25	25	25	25	25	25	25	
D.O. Initial	8.1	8.3	8,1	8.1	8.8	8.8	7.9	
Final	6.9	6.6	1.1	7.8	7,4	7.0	7.9	
pH Initial	7.7	7.7	፞፞፞፞፞፞፞፞፞ጜቔ	7,9	8.0	8.0	7.7	
Final	7.4	7.6	7.8	8.0	8.0	7.7		
Alkalinity	40		40		40			
Hardness	90		100		90			
Conductivity	320		320	1000000	310			
Chlorine		\$1,500,000						

		Sajbigus a			Day	516) BUS			1
Conc:	6.25%	1	2	3	4	5	6	7	Remarks
Temp.		25	25	25	25	25	25	25	
D.O.	Initial	8.1	8,2	8.2	8.2	8.8	8.8	8.0	
	Final	6.8	6.6	7.0	7.7	7.3	7.0	7.9	
рН	Initial	7.7	7.7	7.8	7.8	8.0	8.0	7.7	
	Final	7.5	7.6	7.8	8.0	8.0	7.7	7.7	
Alkalin	ity		14-31 E. S. C.						
Hardne	ess				350000000000000000000000000000000000000				
Condu	ctivity	330		33 ე		330			
Chlorin	1e -		49355		1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1				

		popularity (
Conc:	12.5%	1	2	3	4	5	6	7	Remarks
Temp.		25	25	25	25	25	25	25	
D.O.	Initial	8.1	8-1	8,3	8.2	8.8	8,8	8.1	
	Final	6.8	6.6	6.9	7,4	7.3	6.9	7.8	
рН	Initial	7.7	7.7	7.7	7.8	7.9	8.0	7.6	
	Final	7.5	7.6	₹.8	0.8	8.0	7.7	7.7	
Alkalin			NAME OF				生物 经银金		
Hardne					No. 19				
Conduc		350	NAME OF THE	360		370			
Chlorin			15/10/20/10/20		100000000000000000000000000000000000000				

Discharger:	Elkhart WWTP	Test Dates:	01/7/25 -01/14/25
Location:	Elkhart, IN	Analysts:	MMB, MN, AF

	i	Day							
Conc: 2	25%	1 1	2	3	4	5	6	7	Remarks
Temp.		25	25	25	25	25	25	25	
D.O.	Initial	8.2	8.1	8.4	8.5	8.9	8.9	8.2	
	Final	67	6.4	6.7	7.1	6.8	6.9	7.6	
pН	Initial	7.7	7.7	7.7	7.8	7.9	7.9	7.6	
	Final	7.4	7.6	7.8	79	7.9	הר	7.6	
Alkalini	ty								
Hardne	SS								
Conduc	tivity	400		430		420			
Chlorine	9								

		ALL PRIMARY	stringstring and Asia	ideljajana maj	Day				
Conc:	50%	1	2	3	4	5	6	7	Remarks
Temp.		25	25	25	25	25	25	25	
D.O.	Initial	8.4	8.2	€.7	8.8	9.1	9.0	4.8	
-	Final	6.7	6.6	6.6	7.0	6.8	6.8	7.6	
рH	Initial	7.6	7.7	7.6	7.7	7.8	7.9	7.0	
	Final	7.4	7.5	7.8	7.9	7,9	7.6	7.6	
Alkalin	ity -								
Hardne	ess				100 100 100 100				
Condu	ctivity	520		550		570			
Chlorir	ne								

		QUARTER SAVER	harijan kajan j		Day				
Conc:	100%	. 1	2	3	4	5	6	7	Remarks
Temp.		25	25	25	25	25	25	25	
D.O.	Initial	9.4	8.9	9.3	9.2	10.3	9.9	9.2	
	Final	6.7	6.4	6.4	6.9	6.8	6.0	7.6	
Hq	Initial	7.5	7.5	7.5	7.	7.7	7.7	7.5	
	Final	7.4	7.4	7.8	7.8	7.9	7.5	7.5	
Alkalini	ty	90		90		90			
Hardnes	SS	200		275		200		S. W.	
Conduc	tivity	760		810		800			
Chlorine	е	N.D.		ND		N.D.			
Ammon	nia	N.D.		20		N.D.			