

700 West Liberty Street | Louisville, KY 40203-1911 Phone: 502.540.6000 | LouisvilleMSD.org

February 26th, 2024

Crystal Dennis 300 Sower Blvd., 3rd Floor Frankfort, Kentucky 40601

RE: Ohio River STP, KPDES No: KY0106143

Discharge Monitoring Report for January 2024.

Dear Ms. Dennis:

Attached are the Discharge Monitoring Report (DMR) for the Ohio River STP, for the month January 2024.

There were no overflows or bypasses. There were 4 exceedances, one for TSS monthly average permit limit of 30.0 mg/L with a result of 50.0 mg/L, one for TSS Daily maximum permit limit of 45.0mg/L with a result of 76.0 mg/L, one for pounds TSS maximum weekly average limit of 563.0 lbs./day with a result of 601.0 lbs./day and one for TSS percent removal with a permit limit of 85% with a result of 84.3%. We have found issues with the clarifier running at the time of these samples. We made repairs to the other out of service clarifier and put it into service in place of the current clarifier. The quality of the effluent should increase immediately.

If you have any questions concerning the attached DMR's, please contact me at (502) 264-2804.

Sincerely,

Alex Smither Process Supervisor

CAS/OR 1/24.

Cc: V. Teague, B. Tinnel

DMR Copy of Record

Permit

Major:

Permit #: KY0106143

Yes

Permittee: Louisville and Jefferson County MSD

Permittee Address: 700 W Liberty St

700 W Liberty St Louisville, KY 40203

Permitted Feature: 001
External Outfall

Discharge: 001-1

Domestic Wastewater from a Publicly Owned Treatment Works

Facility:

Facility Location:

OHIO RIVER WWTP

1901 LANDING RD

GOSHEN, KY 40026

Report Dates & Status

Monitoring Period: From 01/01/24 to 01/31/24 DMR Due Date: 02/28/24 Status: NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name: Tony Title: Executive Director 502-540-6533

Last Name: Parrott

orm NO	Parameter	Monitoring Location	Season # Param. NOD	1		Ou	antity or Loa	ading					Quality or Con-	centration			# of Fy	c. Frequency of Analysis	Sample Type
Code	Name	monitoring Eccation	ocason # Farani. NOD		Qualifier 1	Value 1	Qualifier 2		Units	Qualifier '	1 Value 1	Qualifier		Qualifier	3 Value 3	Units	# OI L	ti requerity of Analysis	Campie Type
				Sample						=	8.5					19 - mg/L		01/07 - Weekly	GR - GRAB
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	Permit Req.						>=	2.0 INST MIN					19 - mg/L	0	01/07 - Weekly	GR - GRAB
			-	Value NODI															
00310	BOD, 5-day, 20 deg. C			Sample	= 60.	.8	=	171.9	26 - lb/d			=	9.0	=	16.0	19 - mg/L		01/07 - Weekly	24 - COMP24
		1 - Effluent Gross	0	Permit Req.	<= 375	5.0 MO AVG	<=	563.0 MX WK AV	26 - Ib/d			<=	30.0 MO AVG	<=	45.0 MX WK AV	19 - mg/L	0	01/07 - Weekly	24 - COMP24
				Value NODI															
				Sample								=	202.0	=	287.0	19 - mg/L		01/07 - Weekly	24 - COMP24
00310	BOD, 5-day, 20 deg. C	G - Raw Sewage Influent	0	Permit Req.									Req Mon MO A	VG	Req Mon MX WK AV	40	0	01/07 - Weekly	24 - COMP24
7010		G - Naw Sewage Illildent		Value NODI															
				Sample						=	6.39			=	6.88	12 - SU		01/07 - Weekly	GR - GRAB
0400	рН	1 - Effluent Gross	0	Permit Req.						>=	6.0 MINIMUM			<=		12 - SU	0	01/07 - Weekly	GR - GRAB
J 4 00		1 - Ellidelit Gloss	0	Value NODI													0	·	
				Sample	= 305	5.9	=	601.0	26 - lb/d			=	50.0	=	76.0	19 - mg/L		05/30 - 5 Times Every Month	24 - COMP24
X 00530	Solids, total suspended	1 - Effluent Gross	0	Permit Req.				563.0 MX WK AV				<=	30.0 MO AVG	<=		19 - mg/L	3	01/07 - Weekly	24 - COMP24
		1 - Lilidelit Gloss		Value NODI													3	·	
				Sample								=	281.0	=	327.0	19 - mg/L		01/07 - Weekly	24 - COMP24
00530	Solids, total suspended	G - Raw Sewage Influent	0	Permit Req.									Req Mon MO A		Req Mon MX WK AV		0	01/07 - Weekly	24 - COMP24
				Value NODI									·		·		U	,	
				Sample								=	50.625	=	58.4	19 - mg/L		01/07 - Weekly	24 - COMP24
00600	Nitrogen, total [as N]	1 - Effluent Gross		Permit Req.								_	Req Mon MO A		Req Mon DAILY MX	-	0	01/07 - Weekly	24 - COMP24
			0	Value NODI													0	,	
				Sample								=	61.0	=	78.3	10. mg/l		01/07 - Weekly	24 - COMP24
2000	Nitrogen, total [as N]	G - Raw Sewage Influent	t 0	Permit Req.								_	Req Mon MO A		Req Mon DAILY MX			01/07 - Weekly	24 - COMP24
0600				Value NODI									, , , , , , , , , , , , , , , , , , , ,				0	, , , , , , , , , , , , , , , , , , , ,	
													0.25		0.3			01/07 - Weekly	24 - COMP24
		1 - Effluent Gross	0	Sample Permit Reg.								= <=	20.0 MO AVG	= <=		19 - mg/L 19 - mg/L		01/07 - Weekly	24 - COMP24 24 - COMP24
0610	Nitrogen, ammonia total [as N]			Value NODI									20.00 / 1.10	`	00.0 27.112.1 113.1	19 - mg/L 0	0	o in o i i i i i i i i i i i i i i i i i	
													4.55		5.40	10 "		04/07 14/	24 0014024
	Phosphorus, total [as P]	1 - Effluent Gross		Sample Permit Req.								=	4.55 Reg Mon MO A		5.42 Req Mon DAILY MX	19 - mg/L		01/07 - Weekly 01/07 - Weekly	24 - COMP24 24 - COMP24
0665			0	Value NODI									Red MOLLMO A	VO	Red MOLL PAIL LAND	19 - Hig/L	0	01/07 - Weekly	24 - COWII 24
													0.54		7.1	10 "		04/07 14/	24 0014704
	Phosphorus, total [as P]		0	Sample Permit Req.								=	6.51 Req Mon MO A		7.4 Req Mon DAILY MX	19 - mg/L		01/07 - Weekly 01/07 - Weekly	24 - COMP24 24 - COMP24
0665		G - Raw Sewage Influent											Req IVION IVIO AV	VO	req won Brazi wix	15 Hig/L	0	01/07 Weekly	24 OOWI 24
				Value NODI															
	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	Sample Darmit Dan				1.482	03 - MGD									99/99 - Continuous	RC - Recorder (a
0050				Permit Req.	Re	q Mon MO AVC	5	Req Mon DAILY M	A US - NIGD								0	99/99 - Continuous	RC - Recorder (a
				Value NODI															
	Flow, in conduit or thru treatment plant	G - Raw Sewage Influent	0	Sample				1.606	03 - MGD									99/99 - Continuous	RC - Recorder (a
0050				Permit Req.	Re	q Mon MO AVO	٥	Req Mon DAILY M	A U3 - MGD								0	99/99 - Continuous	RC - Recorder (a

	E. coli	1 - Effluent Gross			Sample			=	3.0	47.0	13 - #/100mL	01/07 - Weekly	GR - GRAB
51040			0		Permit Req.			<=	130.0 30DA GEO	= 240.0 7 DA GE) 13 - #/100mL	01/07 - Weekly	GR - GRAB
					Value NODI								
	BOD, 5-day, percent removal				Sample		=	96.0			23 - %	01/30 - Monthly	CA - CALCTD
81010		K - Percent Removal	0		Permit Req.		>=	85.0 MO AV MN			23 - %	01/30 - Monthly	CA - CALCTD
					Value NODI								
	Solids, suspended percent removal	K - Percent Removal	0		Sample		=	84.3			23 - %	01/30 - Monthly	CA - CALCTD
X 81011					Permit Req.		>=	85.0 MO AV MN			23 - %	01/30 - Monthly	CA - CALCTD
					Value 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

Parameter		Monitoring Location	Field		Description	
Code	Name	Monitoring Location	rielu		Description	Acknowledge
81011	Solids, suspended percent removal	K - Percent Removal	Quality or Concentration Sample Value 1	Soft	The provided sample value is outside the permit limit. Please verify that the value you have provided is correct.	Yes
00530	Solids, total suspended	1 - Effluent Gross	Quality or Concentration Sample Value 3	Soft	The provided sample value is outside the permit limit. Please verify that the value you have provided is correct.	Yes
00530	Solids, total suspended	1 - Effluent Gross	Quality or Concentration Sample Value 2	Soft	The provided sample value is outside the permit limit. Please verify that the value you have provided is correct.	Yes
00530	Solids, total suspended	1 - Effluent Gross	Quantity or Loading Sample Value 2	Soft	The provided sample value is outside the permit limit. Please verify that the value you have provided is correct.	Yes

Comments

Attachments

Name Type Size
OHIO_RIVER_COVER_1_24.pdf 50870.0

Report Last Saved By

Louisville and Jefferson County MSD

User: ALEX.SMITHER@LOUISVILLEMSD.ORG

Name: Charles Smither

E-Mail: alex.smither@louisvillemsd.org

Date/Time: 2024-02-26 11:28 (Time Zone: -05:00)

Report Last Signed By

User: ALEX.SMITHER@LOUISVILLEMSD.ORG

Name: Charles Smither

E-Mail: alex.smither@louisvillemsd.org

Date/Time: 2024-02-26 11:28 (Time Zone: -05:00)