

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

September 17th, 2024

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

RE: Kentucky State Reformatory STP, KPDES No: KY00400126 Discharge Monitoring Report for August 2024.

Dear Ms. Dennis:

Attached are the Discharge Monitoring Report (DMR) for the Kentucky State Reformatory STP, for the month August 2024.

There were no exceedances or overflows.

There was one bypass reported due to a power outage.

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

Sincerely,

Alex Smither Process Supervisor

CAS 8/24

Cc: V. Teague, B. Tinnel

DMR Copy of Record

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Permit					
Permit #:	KY0040126	Permittee:	Louisville and Jefferson County MSD	Facility:	KY STATE REFORMATORY WWTP
Major:	Yes		700 West Liberty St Louisville, KY 40203	Facility Location:	3001 W HWY 146 LA GRANGE, KY 40031
Permitted Feature:	001 External Outfall		001-1 SANITARY WASTEWATER		
Report Dates & Status					
Monitoring Period:	From 08/01/24 to 08/31/24	DMR Due Date:	09/28/24	Status:	NetDMR Validated
Considerations for Form Completion	n				
Principal Executive Officer					
First Name:	Tony	Title:	Executive Director	Telephone:	502-540-6533
Last Name:	Parrott				
No Data Indicator (NODI)					
Form NODI:					

	Parameter	Monitoring Location	Season #	Param, NODI		Q	uantity or Loa	ading					Quality or Conce	ntration			# of Ex	Frequency of Analysis	Sample Typ
Code	Name	omorning Ecocution	2000011 #	. arann 140Di	Qualifier		Qualifier 2		Units (Qualifier 1	Value 1	Qualifier 2	•	Qualifier 3	Value 3	Units	J OI LA		Campio Typ
					Sample				-		7.8					19 - mg/L		01/07 - Weekly	GR - GRAB
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0		Permit Req.				>	·=	7.0 INST MIN					19 - mg/L	0	01/07 - Weekly	GR - GRAB
0000	Oxygen, dissolved [DO]	1 - Lindent Gross	U		Value NODI														
					Sample				-	=	7.0			=	8.0	12 - SU		01/07 - Weekly	GR - GRAB
00400	nH	1 - Effluent Gross	0		Permit Req.				>	·=	6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU	0	01/07 - Weekly	GR - GRAB
30 100	P	1 Lindon Grood			Value NODI														
					Sample =	64.9	=	136.1	26 - Ib/d			=	12.0	=	23.0	19 - mg/L		01/07 - Weekly	CP - COMPOS
0530	Solids, total suspended	1 - Effluent Gross	0		Permit Req. <=	250.0 MO AVG	<=	376.0 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							=	165.0	=	260.0	19 - mg/L		01/07 - Weekly	CP - COMPOS
0530	Solids, total suspended	G - Raw Sewage Influent	0		Permit Req.								Req Mon MO AVG	3	Req Mon MX WK AV	19 - mg/L	0	01/07 - Weekly	24 - COMP24
.0000	Contas, total suspended	C Haw Cowago miliacin	U		Value NODI														
					Sample							=	26.88	=	31.8	19 - mg/L		01/07 - Weekly	CP - COMPOS
00600	Nitrogen, total [as N] 1 - Effluent Gross	1 - Effluent Gross	0		Permit Req.								Req Mon MO AVG	3	Req Mon DAILY MX	19 - mg/L	0	01/07 - Weekly	24 - COMP24
					Value NODI														
					Sample							=	38.85	=	53.0	19 - mg/L		01/07 - Weekly	CP - COMPOS
00600	Nitrogen, total [as N]	G - Raw Sewage Influent	0		Permit Req.								Req Mon MO AVG	3	Req Mon DAILY MX	19 - mg/L	0	01/07 - Weekly	24 - COMP24
	, , ,				Value NODI														
					Sample								0.2			19 - mg/L			CP - COMPOS
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	1		Permit Req.							<=	2.0 MO AVG	<=	3.0 DAILY MX	19 - mg/L	0	01/07 - Weekly	24 - COMP24
					Value NODI														
					Sample							=	5.59	=	5.89	19 - mg/L		01/07 - Weekly	CP - COMPOS
00665	Phosphorus, total [as P]	1 - Effluent Gross	0		Permit Req.								Req Mon MO AVG	3	Req Mon DAILY MX	19 - mg/L	0	01/07 - Weekly	24 - COMP24
					Value NODI														
		G - Raw Sewage Influent			Sample							=	7.43	=	9.29	19 - mg/L		,	CP - COMPOS
00665	Phosphorus, total [as P]		0		Permit Req.								Req Mon MO AVG	6	Req Mon DAILY MX	19 - mg/L	0	01/07 - Weekly	24 - COMP24
	, , <u>, , , , , , , , , , , , , , , , , </u>				Value NODI														
					Sample								255.5			19 - mg/L			CP - COMPOS
00900	Hardness, total [as CaCO3]	1 - Effluent Gross	0		Permit Req.								Req Mon MO AVG	3	Req Mon MX WK AV	19 - mg/L	0	01/07 - Weekly	24 - COMP24

				Value NODI													
				Sample						=	0.022	=	0.041	19 - mg/L		01/07 - Weekly	CP - COMPOS
01119	Copper, total recoverable	1 - Effluent Gross	0	 Permit Req.							Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L		01/07 - Weekly	24 - COMP24
				Value NODI													
				Sample						=	5.0			28 - ug/L		01/07 - Weekly	CP - COMPOS
34306	Chlorodibromomethane	1 - Effluent Gross	0	 Permit Req.						<=	13.0 MO AVG			28 - ug/L		01/07 - Weekly	24 - COMP24
				Value NODI													
				Sample =	0.578	=	1.101	03 - MGD								99/99 - Continuous	RC - Recorder (auto
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	 Permit Req.	Req Mon MO AVG		Req Mon MX WK A	V 03 - MGD							0	99/99 - Continuous	RC - Recorder (auto
				Value NODI													
				Sample =	0.708	=	1.455	03 - MGD								01/07 - Weekly	CA - CALCTD
50050	Flow, in conduit or thru treatment plant	G - Raw Sewage Influent	0	 Permit Req.	Req Mon MO AVG		Req Mon MX WK A	V 03 - MGD							0	01/07 - Weekly	CA - CALCTD
				Value NODI													
	060 Chlorine, total residual 1 - Effluent Gross		0	Sample						=	0.01	=	0.01	19 - mg/L		01/07 - Weekly	GR - GRAB
50060		1 - Effluent Gross		 Permit Req.						<=	0.011 MO AVG	<=	0.019 DAILY MX	19 - mg/L	0	01/07 - Weekly	GR - GRAB
				Value NODI													
				Sample						=	1.0	=		13 - #/100mL		01/07 - Weekly	GR - GRAB
51040	E. coli 1 - Effluent Gross	1 - Effluent Gross	0	 Permit Req.						<=	130.0 30DA GEO	<=	240.0 7 DA GEO	13 - #/100mL	0	01/07 - Weekly	GR - GRAB
				Value NODI													
				Sample =	27.0	=	47.0	26 - Ib/d		=	5.0	=	8.0	19 - mg/L		01/07 - Weekly	CP - COMPOS
80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0	 Permit Req. <=	83.5 MO AVG	<=	125.0 MX WK AV	26 - Ib/d		<=	10.0 MO AVG	<=	15.0 MX WK AV	19 - mg/L	0	01/07 - Weekly	24 - COMP24
				Value NODI													
				Sample						-	225.0	=	376.0	19 - mg/L		01/07 - Weekly	CP - COMPOS
80082	BOD, carbonaceous [5 day, 20 C]	G - Raw Sewage Influent	0	 Permit Req.							Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L	0	01/07 - Weekly	24 - COMP24
		-		Value NODI													
				Sample				=	97.7					23 - %		01/30 - Monthly	CA - CALCTD
80091	BOD, carb-5 day, 20 deg C, percent removal	K - Percent Removal	0	 Permit Req.				>=	85.0 MO AV MN					23 - %	0	01/30 - Monthly	CA - CALCTD
				Value NODI													
				Sample				=	92.6					23 - %		01/30 - Monthly	CA - CALCTD
81011	Solids, suspended percent removal	K - Percent Removal	0	 Permit Req.				>=	85.0 MO AV MN					23 - %	0	01/30 - Monthly	CA - CALCTD
				Value NODI											Ü		

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
KSR_COVER_8_24.pdf	pdf	30170.0
KSROverflow.pdf	pdf	60252.0

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: 2024-09-25 08:22 (Time Zone: -04:00)

Report Last Signed By

User: ALEX.SMITHER@LOUISVILLEMSD.ORG

Name: Charles Smither

E-Mail: alex.smither@louisvillemsd.org

Date/Time: 2024-09-25 08:23 (Time Zone: -04:00)



IMSAST0004 Overflow Report 8/1/2024 12:00:00 AM to 8/31/2024 12:00:00 AM

KPDES#	Facility ID	Water C	Water Quality Treatment Center			am of Discharge	Region								
KY0040126	MSD0411	KSR			CEDAR CREEK	<	NA								
Facility Type	Facility ID	Facility	Address	If Pump Statio	n, Name of Statio	n	Recieving St	ream	Discharge To						
Sewer Treatment Plant	MSD0411	1612 [AWKINS RD	KSR			CEDAR CREEK		STREAM						
Activity Code / Description	WO#	Ref#	Initiated on	Initiated By	Assigned To	Dish Status	Event Date	Problem Desc	Result	Completed	Condition				
DISDW:DRY WEATHER DISCHARGE	3830623		8/16/2024 2:06:00 AM	SMITHER	SMITHER	REPAIRED - ISSUE RESOLVED	8/16/2024 12:00:00 AM	BYPASS AT WQTC	UNAUTHORIZED DISCHARGE- WATERS	08/16/24 04:45 AM	OTHER				

Discharge Reporting:

Discharge Amount:	5,000 GAL
Cause:	POWER OUTAGE (LG&E) CAUSING DISINFECTION CHEMCIALS NOT TO BE FED, NO SEWAGE LOSS.
Clean Up:	RESTORE POWER TO PLANT.
Control Zone:	NONE NEEDED.
Impact:	NO IMPACT OBSERVED.
Repair:	DISCUSSING FUTURE SECONDARY POWER TO PLANT.
Public Notification:	NONE NEEDED.

Notifications:

8/16/24 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE,DENNIS@EPAMAIL.EPA.GOV
8/16/24 1:00 PM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION