



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

February 27, 2025

Ms. Crystal Dennis
Kentucky Division of Water
300 Sower Blvd., 3rd Floor
Frankfort, Kentucky 40601

**Re: Derek Guthrie Water Quality Treatment Center KPDES Permit No. KY0078956,
Discharge monitoring report for January 2025.**

Dear Ms. Dennis:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operating Report (MOR) for the Derek Guthrie WQTC, KPDES No: KY0078956, for the month of January 2025.

Also attached is overflow report. There were no bypasses to report.

There were eight exceedances in the month of January. BOD weekly limit 79, permit limit 45. BOD monthly limit 46, permit limit 30. BOD lbs weekly limits 35322, permit limit 22532. BOD lbs monthly limit 24416, permit limit 15021. TSS weekly limit 47, permit limit 45. TSS monthly limit 35, permit limit 30. TSS lbs weekly limit 22983, permit limit 22532. TSS lbs monthly limit 18562, permit limit 15021

The exceedances were due to extreme weather conditions. With the freezing cold temps, along with 12" of snow and .75" ice, Waste Management was unable to get trucks on the road to haul off dewatered solids from the plant. As well, there were multiple days the landfill was closed due to the weather. This caused a build up of solids in the plant, resulting in the above exceedances.

If you have any questions concerning the attached DMR's, please contact me at (502)264-2804 or staci.huber@louisvillemsd.org.

Sincerely,

Staci Huber
Process Supervisor
SMH 01/25
Enclosures

cc: B. Tinnell
V. Graves
M. Saylor

Name of Sewage Treatment Plan West County WTP Jefferson County Month of: January 2025
KPDES Permit Number: KY0078956 Plant Capacity: 30 MGD Receiving Stream: Ohio River

Date	Total Flow (MG)	Raw Sewage		pH		Settleable Solids (mL/L)			Dissolved Oxygen (mg/L)			Suspended Solids (mg/L)			Total Solids (mg/L)			5-day BOD (mg/L)			Activated Sludge		Aeration Basin										Phosphorus mg/L		Final	Final	Final	Total mg/L		Cr +6 mg/L
		Removed (cu. ft.)	Screenings (cu. ft.)	Raw	Final	Raw	Primary (or Sec.)	Final	Stream Above	Final	Stream Below	Raw	Primary (or Sec.)	Final	Raw	Primary (or Sec.)	Final	Raw	Primary (or Sec.)	Final	Gal/Day	MLSS mg/L x 1000	WAS Gal/Day x 1000	Oxygen (mg/L) #1	Oxygen (mg/L) #2	(mg/L) x 1000 #1	MLVSS (mg/L) x 1000	30 min. SVI	60 min. SVI	% Solids	Raw	Final	Chlorine Residual (mg/L)	NH3-N (mg/L)	E. Coli (MPN)	Raw	Final	Final		
1	76.73			7.3	7.3					6.5		304.0		9.0				188.0		11.0	37.877	9330	1087000				3680	3060	230				0.016	2.10	34					
2	59.19			7.1	7.4					6.9		240.0		8.0				208.0		11.0	32.012	11000	1145400				4120	3410	280		5.13	0.26	0.016	2.20	272	18	6			
3	54.07			7.2	7.3					6.7		688.0		6.0				486.0		8.0	30.213	9660	1077100				4300	3540	300				0.016	2.70	70					
4	49.15			7.4	7.2					6.7		628.0		7.0				338.0		11.0	26.481	8030	1065300				3740	3080	240				0.016	4.50	2					
5	48.14			7.3	7.2					6.1		324.0		35.0				233.0		30.0	28.57	5800	1006900				2560	2120	180				0.016	3.50	228					
6	68.10			7.5	7.5					6.6		616.0		33.0				594.0		96.0	29.229	8600	1170000				2930	2460	200				0.016	4.40	1330					
7	65.92			7.7	7.5					6.8		248.0		16.0				910.0		94.0	31.382	10300	532000				3730	3210	220				0.016	2.90	2					
8	64.40			7.4	7.3					5.2		372.0		28.0				1070.0		94.0	37.19	10200	1500000				4550	3800	280				0.016	1.60	139					
9	58.88			7.4	7.4					5.4		756.0		37.0				569.0		94.0	37.013	11600	1500000				5020	4340	310		7.34	1.37	0.016	1.20	12	29	5			
10	56.61			7.5	7.3					6.4		524.0		36.0				411.0		47.0	36.88	11300	1500000				5340	4660	340				0.016	0.80	98					
11	54.20			7.4	7.4					6.0		676.0		29.0				964.0		89.0	35.52	11900	1500000				5180	4640	380				0.016	1.60	2					
12	53.56			7.3	7.4					2.7		388.0		60.0				401.0		82.0	38.874	12300	1000026				4860	4320	390				0.016	1.80	2					
13	66.06			7.3	7.6					5.5		356.0		27.0				350.0		43.0	43.262	9940	1700260				4820	4210	470				0.016	1.30	2					
14	63.47			7.4	7.3					6.4		756.0	133.0					436.0	105.0	28.825	10300	1750000				4180	3670	330				0.016	1.40	2						
15	57.34			7.5	7.3					6.3		416.0	64.0					348.0	67.0	24.286	10600	1515600				3770	3280	290				0.016	3.20	2						
16	53.68			7.5	7.1					6.2		548.0	160.0					384.0	141.0	21.283	7430	1016300				2480	2150	200		3.35	2.46	0.016	5.90	1950	20	21				
17	57.29			7.6	7.3					7.0		588.0	15.0					321.0	15.0	22.815	9700	1011700				3030	2590	230				0.016	6.80	81						
18	107.18			7.3	7.4					5.0		528.0	15.0					363.0	18.0	39.917	9500	1015200				3190	2720	200				0.016	5.50	2						
19	94.35			7.4	7.2					5.7		176.0	28.0					132.0	41.0	46.583	9100	1069100				3290	2820	230				0.016	2.50	18						
20	72.01			7.4	7.3					6.5		228.0	17.0					136.0	20.0	45.97	9530	1105500				4090	3550	340				0.016	2.30	9						
21	63.62			7.3	6.9					6.8		712.0	11.0					514.0	13.0	39.94	9380	1272900				4730.00	4070	400				0.016	3.50	2						
22	59.38			7.3	7.6					7.0		780.0	116.0					540.0	96.0	32.53	10000	1528600				3500	2980	280				0.016	4.80	69						
23	55.12			7.4	7.3					6.7		308.0	66.0					178.0	39.0	36.35	9130	1519100				4350.00	3760	310		4.70	0.45	0.016	5.40	9	26	11				
24	49.75			7.4	7.4					6.9		1040.0	14.0					544.0	14.0	36.54	8930	1534100				4290	3690	300				0.016	6.00	2						
25	46.86			7.3	7.3					7.0		1390.0	14.0					737.0	13.0	35.37	8400	1122000				3970	3380	330				0.016	5.50	10						
26	45.32			7.4	7.3					6.9		1180.0	16.0					593.0	17.0	35.77	8830	0				4210	3600	340				0.016	5.80	7						
27	44.64			7.3	7.3					6.8		944.0	15.0					509.0	15.0	36.43	8480	1601900				4150	3580	350				0.016	5.70	4						
28	39.87			7.3	6.9					6.4		832.0	14.0					605.0	14.0	39.71	8100	1600000				4820	4140	320				0.016	5.10	2						
29	43.57			7.4	7.4					6.7		692.0	12.0					444.0	20.0	41.347	8300	1600000				4660	4020	350				0.016	6.50	2						
30	45.49			7.5	7.1					6.6		1040.0	14.0					475.0	18.0	45.714	8130	1645600				4880	4150	330				0.016	7.20	2						
31	137.27			7.2	7.1					5.7		1250.0	50.0					614.0	58.0	69.81	7530	900000				3310	2810	160				0.016	5.10	2						
Total	1911.2	0	0																		1123.7	36591566.0																		
Avg.	61.65			7.4	7.3					6.3		629.9	35.6					470.8	46.3	36.25	9397.74	1244889.87				4055.81	3477.74	293.87		5.13	1.14	0.016	3.83	12	23	9				

Industrial Connections: 36173 34248 1907 484419 1321249 1439635
Sewer Connections X 3 = 18 102744 Flow BOD TSS
Operator: Hunter Durbin
Cert. #: 80360
Phone #: 502-540-6000

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the [NPDES eReporting Help Desk](#) for further guidance. Please note that EPA may contact you after you submit this report for more information.

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Permit

Permit #:

KY0078956

Major:

Yes

Permittee:

Derek R Guthrie WQTC MSD

Permittee Address:

700 W Liberty St
Louisville, KY 40203

Facility:

DEREK R GUTHRIE WQTC MSD

Facility Location:

11621 LOWER RIVER RD
LOUISVILLE, KY 40272

Permitted Feature:

001
External Outfall

Discharge:

001-1
SANITARY WASTEWATER

Report Dates & Status

Monitoring Period:

From 01/01/25 to 01/31/25

DMR Due Date:

02/28/25

Status:

NetDMR Validated

Considerations for Form Completion

Parameter 00610 - Use Season 1 for summer months (May, June, July, August, September, and October) and Season 2 for winter months (November, December, January, February March, and April); enter NODI=9 for the Season not needed.

Principal Executive Officer

First Name:

James

Last Name:

Parrott

Title:

Executive Director

Telephone:

502-540-6000

No Data Indicator (NODI)

Form NODI:

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Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample						=	3.0					19 - mg/L	0	01/01 - Daily	GR - Grab
					Permit Req.						>=	2.0 INST MIN					19 - mg/L		01/01 - Daily	GR - Grab
					Value NODI															
X 00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample	=	24416.0	=	39281.0	26 - lb/d			=	46.0	=	79.0	19 - mg/L	4	01/01 - Daily	24 - 24 Hour Composite
					Permit Req.	<=	15021.0 MO AVG	<=	22532.0 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
					Value NODI															
00310	BOD, 5-day, 20 deg. C	G - Raw Sewage Influent	0	--	Sample								=	471.0	=	600.0	19 - mg/L	0	01/01 - Daily	CP - Composite
					Permit Req.									Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L		01/01 - Daily	24 - 24 Hour Composite
					Value NODI															
00400	pH	1 - Effluent Gross	0	--	Sample						=	6.9			=	7.6	12 - SU	0	01/01 - Daily	GR - Grab
					Permit Req.						>=	6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU		01/01 - Daily	GR - Grab
					Value NODI															
X 00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	18562.0	=	25056.0	26 - lb/d			=	36.0	=	50.0	19 - mg/L	4	01/01 - Daily	CP - Composite
					Permit Req.	<=	15021.0 MO AVG	<=	22532.0 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
					Value NODI															
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample								=	630.0	=	925.0	19 - mg/L	0	01/01 - Daily	CP - Composite
					Permit Req.									Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L		01/01 - Daily	24 - 24 Hour Composite
					Value NODI															
00600	Nitrogen, total [as N]	1 - Effluent Gross	0	--	Sample								=	11.0	=	21.0	19 - mg/L	0	01/07 - Weekly	CP - Composite
					Permit Req.									Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L		01/07 - Weekly	24 - 24 Hour Composite
					Value NODI															
00600	Nitrogen, total [as N]	G - Raw Sewage Influent	0	--	Sample								=	23.0	=	29.0	19 - mg/L	0	01/07 - Weekly	CP - Composite
					Permit Req.									Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L		01/07 - Weekly	24 - 24 Hour Composite
					Value NODI															
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	0	--	Sample								=	4.0	=	5.0	19 - mg/L	0	01/01 - Daily	CP - Composite
					Permit Req.								<=	20.0 MO AVG	<=	30.0 MX WK AV	19 - mg/L		01/01 - Daily	24 - 24 Hour Composite
					Value NODI															
00665	Phosphorus, total [as P]	1 - Effluent Gross	0	--	Sample								=	1.0	=	2.0	19 - mg/L	0	01/07 - Weekly	CP - Composite
					Permit Req.									Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L		01/07 - Weekly	24 - 24 Hour Composite

					Value NODI																	
00665	Phosphorus, total [as P]	G - Raw Sewage Influent	0	--	Sample									=	5.1	=	7.3	19 - mg/L	0	01/07 - Weekly	CP - Composite	
					Permit Req.															19 - mg/L	01/07 - Weekly	24 - 24 Hour Composite
					Value NODI																	
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	61.652	=	72.208	03 - MGD									0	99/99 - Continuous	CN - Continuous	
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	03 - MGD											99/99 - Continuous	RC - Recorder (auto)
					Value NODI																	
50050	Flow, in conduit or thru treatment plant	G - Raw Sewage Influent	0	--	Sample	=	61.546	=	71.273	03 - MGD									0	99/99 - Continuous	CN - Continuous	
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	03 - MGD											99/99 - Continuous	RF - Recorded Flow
					Value NODI																	
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample									<	0.016	<	0.016	19 - mg/L	0	01/01 - Daily	GR - Grab	
					Permit Req.									<=	0.019 MO AVG	<=	0.019 MX WK AV	19 - mg/L		01/01 - Daily	GR - Grab	
					Value NODI																	
51040	E. coli	1 - Effluent Gross	0	--	Sample									=	12.0	=	50.0	13 - #/100mL	0	01/01 - Daily	GR - Grab	
					Permit Req.									<=	130.0 30DA GEO	<=	240.0 7 DA GEO	13 - #/100mL		01/01 - Daily	GR - Grab	
					Value NODI																	
81010	BOD, 5-day, percent removal	K - Percent Removal	0	--	Sample						=	90.0						23 - %	0	01/30 - Monthly	CA - Calculated	
					Permit Req.						>=	85.0 MO AV MN								23 - %	01/30 - Monthly	CA - Calculated
					Value NODI																	
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample						=	94.0						23 - %	0	01/30 - Monthly	CA - Calculated	
					Permit Req.						>=	85.0 MO AV MN								23 - %	01/30 - Monthly	CA - Calculated
					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	Type	Description	Acknowledge
Code	Name					
00530	Solids, total suspended	1 - Effluent Gross	Quantity or Loading 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	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
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	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
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	Quantity or Loading Sample Value 1	Soft	The provided sample value is outside the permit limit. Please verify that the value you have provided is correct.	Yes
00310	BOD, 5-day, 20 deg. C	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
00310	BOD, 5-day, 20 deg. C	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
00310	BOD, 5-day, 20 deg. C	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

Comments

Attachments

Name	Type	Size
DRGOverflow.pdf	pdf	63886.0
SDRG-ADMIN-25022713510.pdf	pdf	53221.0
DRGMOR.pdf	pdf	139957.0

Report Last Saved By

Derek R Guthrie WQTC MSD

User:	staci.huber@louisvillemsd.org
Name:	Staci Huber
E-Mail:	staci.huber@louisvillemsd.org
Date/Time:	2025-02-27 13:56 (Time Zone: -05:00)

Report Last Signed By

User:	staci.huber@louisvillemsd.org
Name:	Staci Huber
E-Mail:	staci.huber@louisvillemsd.org
Date/Time:	2025-02-27 13:56 (Time Zone: -05:00)



**IMSAST0004
Overflow Report**

1/1/2025 12:00:00 AM to 1/31/2025 12:00:00 AM

KPDES #	Facility ID	Water Quality Treatment Center			Receiving Stream of Discharge		Region				
KY0078956	MSD0277	DEREK R. GUTHRIE			OHIO RIVER		NA				
Facility Type	Facility ID	Facility Address		If Pump Station, Name of Station			Receiving Stream		Discharge To		
Sewer Lift Station	SSPSDG-MOWA	6500 MOUNT WASHINGTON RD		DEREK R. GUTHRIE			PENNSYLVANIA RUN		DITCH		
Activity Code / Description	WO #	Ref #	Initiated on	Initiated By	Assigned To	Dish Status	Event Date	Problem Desc	Result	Completed	Condition
DISDW: DRY WEATHER DISCHARGE	3894563		1/25/2025 7:44:00 PM	PARKER	PARKER	REPAIRED - ISSUE RESOLVED	1/25/2025 12:00:00 AM	MECHANICAL FAILURE	UNAUTHORIZED DISCHARGE-WATERS	01/26/25 01:42 PM	

Discharge Reporting:

Discharge Amount:	3,000 GAL
Cause:	STRUCTURAL FAILURE (FORCE MAIN BREAK).
Clean Up:	MSD CONTRACTOR CLEANED AND SANITIZED THE IMPACTED AREA.
Control Zone:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA.
Impact:	SEWAGE/DEBRIS/SOLIDS/PERSONAL HYGIENE PRODUCTS FOUND IN THE RIVER.
Repair:	HAULED SEWAGE UNTIL POWER COULD BE RESTORED AND/OR REPAIRS MADE.
Public Notification:	PAGE SENT.

Notifications:

1/26/25 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO: DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
1/26/25 1:00 AM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION