



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

January 22, 2026

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 December 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 December 2025.

There were no bypasses, overflow or exceedances to report.

Also attached are the 4th quarter Biomonitoring reports and yearly pre-treatment reports.

If you have any questions concerning the attached DMR's, please contact me at (502)260-7395 or kevin.thompson@louisvillemsd.org.

Sincerely,

Kevin Thompson
Process Supervisor
KLT 12/25
Enclosures

cc: B. Tinnell
V. Graves
M. Saylor

					Value NODI															
00665	Phosphorus, total [as P]	G - Raw Sewage Influent	0	--	Sample	=	5.0	=	7.96	19 - mg/L	01/07 - Weekly	CP - Composite								
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L	0	01/07 - Weekly	24 - 24 Hour Composite							
					Value NODI															
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	50.5	=	55.534	03 - MGD	01/01 - Daily	CN - Continuous								
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	03 - MGD	0	99/99 - Continuous	RC - Recorder (auto)							
					Value NODI															
50050	Flow, in conduit or thru treatment plant	G - Raw Sewage Influent	0	--	Sample	=	50.371	=	55.893	03 - MGD	01/01 - Daily	CN - Continuous								
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	03 - MGD	0	99/99 - Continuous	RF - Recorded Flow							
					Value NODI															
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample			<	0.016	<	0.016	19 - mg/L	01/01 - Daily	GR - Grab						
					Permit Req.			<=	0.019 MO AVG	<=	0.019 MX WK AV	19 - mg/L	0	01/01 - Daily	GR - Grab					
					Value NODI															
51040	E. coli	1 - Effluent Gross	0	--	Sample	=	5.0	=	19.0	13 - #/100mL	01/01 - Daily	GR - Grab								
					Permit Req.		<=	130.0 30DA GEO	<=	240.0 7 DA GEO	13 - #/100mL	0	01/01 - Daily	GR - Grab						
					Value NODI															
81010	BOD, 5-day, percent removal	K - Percent Removal	0	--	Sample	=	89.0			23 - %	01/01 - Daily	CA - Calculated								
					Permit Req.		>=	85.0 MO AV MN		23 - %	0	01/30 - Monthly	CA - Calculated							
					Value NODI															
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample	=	95.0			23 - %	01/01 - Daily	CA - Calculated								
					Permit Req.		>=	85.0 MO AV MN		23 - %	0	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

No errors.

Comments

Attachments

Name	Type	Size
202512_DRG_COVERLETTER.pdf	pdf	40553.0
202512_DRG_MOR.pdf	pdf	136044.0

Report Last Saved By

Derek R Guthrie WQTC MSD

User: kevin.thompson@louisvillemmsd.org
 Name: Kevin Thompson
 E-Mail: kevin.thompson@louisvillemmsd.org
 Date/Time: 2026-01-22 12:34 (Time Zone: -05:00)

Report Last Signed By

User: kevin.thompson@louisvillemmsd.org
 Name: Kevin Thompson
 E-Mail: kevin.thompson@louisvillemmsd.org
 Date/Time: 2026-01-23 11:42 (Time Zone: -05:00)

Name of Sewage Treatment Plan West County WTP Jefferson County Month of: December 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			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	Gal/Day X 1000	Oxygen (mg/L) #1	Oxygen (mg/L) #2	(mg/L) X 1000 #1 & #2	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	43.15			7.3	7.3					7.7			252.0		11.0		174.0		17.0		6660					3010	2510	205				0.016	5.30	2					
2	51.11			7.5	7.3					7.5			580.0		11.0		320.0		17.0		6780					2760	2380	185	7.96	1.86	0.016	5.60	26	32	14				
3	47.82			7.3	7.3					7.9			276.0		15.0		1280.0		91.0		8000					3420	2960	200			0.016	3.50	443						
4	40.64			6.9	7.3					7.9			388.0		22.0		254.0		95.0		7820					3750	3220	270			0.016	1.70	268						
5	48.84			7.4	7.3					7.3			444.0		24.0		232.0		29.0		7240					3000	2610	200			0.016	2.20	4						
6	45.81			7.4	7.4					8.3			404.0		25.0		235.0		23.0		7480					2780	2390	200			0.016	4.70	4						
7	46.59			7.2	7.3					7.7			252.0		21.0		188.0		23.0		6600					2470	2110	180			0.016	5.20	10						
8	45.70			7.3	7.2					7.8			236.0		18.0		161.0		21.0		6960					2870	2450	185			0.016	4.80	2						
9	47.01			7.4	7.3					7.8			592.0		20.0		409.0		22.0		6260					2740	2350	190	3.64	0.62	0.016	4.60	21	21	11				
10	49.46			7.3	7.2					7.3			408.0		22.0		214.0		28.0		6260					2970	2550	200			0.016	4.10	4						
11	48.26			7.3	7.3					7.0			328.0		18.0		244.0		50.0		6460					2840	2430	190			0.016	4.10	2						
12	49.39			7.4	7.4					6.7			288.0		14.0		216.0		17.0		5760					2590	2160	200			0.016	4.10	2						
13	53.32			7.2	7.2					4.4			248.0		20.0		649.0		95.0		7080					3020	2650	180			0.016	5.30	4						
14	49.80			7.3	7.4					5.6			224.0		17.0		201.0		21.0		6720					3010	2620	205			0.016	2.50	2						
15	47.62			7.3	7.2					7.0			284.0		20.0		193.0		26.0		7500					3030	2610	230			0.016	4.80	4						
16	41.24			7.3	7.2					8.2			700.0		39.0		381.0		35.0		7500					3080	2640	230	3.19	0.68	0.016	5.60	4	34	10				
17	34.20			7.2	7.2					7.9			448.0		25.0		296.0		25.0		7920					3350	2900	255			0.016	5.20	2						
18	43.11			7.4	7.3					8.1			492.0		11.0		328.0		16.0		6700					3720	3170	260			0.016	2.40	4						
19	100.80			7.4	7.0					6.4			416.0		23.0		333.0		69.0		6740					2920	2440	180			0.016	4.60	48						
20	63.64			7.3	7.2					7.8			196.0		20.0		130.0		18.0		8340					3550	3020	240			0.016	1.50	2						
21	58.13			7.3	7.2					8.3			204.0		14.0		144.0		14.0		7740					3310.00	2830	230			0.016	2.30	51						
22	56.69			7.3	7.2					8.2			200.0		12.0		128.0		12.0		7560					2950	2490	210			0.016	4.00	9						
23	52.75			7.3	7.2					8.1			476.0		11.0		234.0		11.0		7840					2880.00	2540	205	5.29	0.15	0.016	4.40	2	27	10				
24	48.83			7.3	7.3					8.0			448.0		11.0		261.0		14.0		7220					6940	5850	170			0.016	4.30	2						
25	47.03			7.3	7.3					7.9			360.0		11.0		218.0		14.0		6180					3470	2920	180			0.016	4.40	2						
26	47.80			7.3	7.2					8.1			408.0		12.0		235.0		14.0		6560					3040	2600	180			0.016	5.20	9						
27	44.42			7.5	7.2					7.8			400.0		14.0		217.0		20.0		6580					2520	2170	170			0.016	5.90	2						
28	44.29			7.3	7.4					7.8			236.0		13.0		149.0		17.0		6540					2490	2110	175			0.016	5.80	2						
29	62.76			7.4	7.3					8.0			228.0		13.0		165.0		19.0		6760					2180	1830	140			0.016	5.60	2						
30	54.49			7.3	7.2					8.5			252.0		13.0		162.0		20.0		6560					2480	2120	170			0.016	3.80	2						
31	50.80			7.4	7.2					8.4			332.0		14.0		182.0		23.0		6940					2350	1990	155			0.016	4.80	2						
Total	1565.5	0	0																	0.0		0.0																	
Avg.	50.50			7.3	7.3					7.6			354.8		17.2		274.6		29.5		7008.39					3083.55	2632.90	199.03			5.02	0.83	0.016	4.27	5	28	11		

Industrial Connections: 36173 34248 1907 378208 577601 608910 Operator Dontay Mason
 Sewer Connections X 3 = 18 18 18 18 18 18 Flow Flow BOD BOD TSS TSS Cert. # 84838
 Phone # 502-540-6000