



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

December 16, 2024

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

**Re: Derek Guthrie Water Quality Treatment Center KPDES Permit No. KY0078956,  
Discharge monitoring report for November 2024.**

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 November 2024.

Also attached is the overflow report.

There were no bypasses during this reporting period.

There was an exceedance for E-Coli maximum weekly average with a result of 321#/100ml, the permit limit is 240#/100ml. This exceedance was due to elevated flow from excessive rain over a several days period.

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

Sincerely,

Staci Huber  
Process Supervisor

SMH 11/24

Enclosures

cc: B. Tinnell  
V. Graves  
M. Saylor

Name of Sewage Treatment Plant  
 KPDES Permit Number: KY0078956  
 West County WTP  
 Jefferson County  
 Receiving Stream: Ohio River  
 November 2024

Plant Capacity: 30 MGD

County

Month of: November 2024

Ohio River

Date	Raw Sewage		pH		Settleable Solids (m/L)		Dissolved Oxygen (m/L)		Suspended Solids (m/L)		Total Solids (m/L)		5-day BOD (m/L)		Activated Sludge		Aeration Basin		Phosphorus		Chlorine Residual (m/L)		NH3-N (m/L)		E-Coil (MPN)		Total Cr +6 (m/L)			
	Raw	Final	Raw	Final	Raw	Final	Raw	Final	Raw	Final	Raw	Final	Raw	Final	Raw	Final	Raw	Final	Raw	Final	Raw	Final	Raw	Final	Raw	Final	Raw	Final		
1	35.65	7.7	7.1	7.7	6.0	536.0	11.0	11.0	34.0	11.0	354.0	14.0	24.152	9600	1000	4200	3420	200	0.016	7.00	2.3	0.016	7.00	2.3	0.016	7.00	2.3	2.3		
2	30.59	7.2	7.1	7.2	6.0	384.0	11.0	11.0	34.0	11.0	344.0	19.0	21.615	6800	1000	3580	2950	180	0.016	5.70	2.2	0.016	5.70	2.2	0.016	5.70	2.2	2.2		
3	31.47	7.3	7.1	7.3	6.3	500.0	11.0	11.0	47.0	11.0	477.0	11.0	22.98	6240	1000	3510	2890	200	0.016	8.60	1.1	0.016	8.60	1.1	0.016	8.60	1.1	1.1		
4	31.39	7.3	7.0	7.2	6.0	492.0	12.0	12.0	37.0	12.0	377.0	15.0	22.184	6660	1000	4080	3390	200	0.016	5.20	2.2	0.016	5.20	2.2	0.016	5.20	2.2	2.2		
5	30.41	7.1	7.2	7.1	6.0	672.0	11.0	11.0	42.0	11.0	423.0	12.0	21.98	7100	1000	3600	2970	220	0.016	4.90	2.2	0.016	4.90	2.2	0.016	4.90	2.2	2.2		
6	50.07	7.2	7.2	7.2	6.0	648.0	9.0	9.0	44.0	9.0	443.0	11.0	28.248	6900	1000	3830	3150	220	0.016	5.10	2.2	0.016	5.10	2.2	0.016	5.10	2.2	2.2		
7	54.99	7.2	7.0	7.2	6.0	288.0	11.0	11.0	22.0	11.0	220.0	15.0	32.555	6520	1000	4460	3650	200	0.016	4.60	1.860	0.016	4.60	1.860	0.016	4.60	1.860	1.860		
8	42.03	7.3	7.2	7.3	5.8	336.0	9.0	9.0	22.0	9.0	223.0	12.0	32.08	7320	1000	11000	8920	180	0.016	2.50	2.2	0.016	2.50	2.2	0.016	2.50	2.2	2.2		
9	36.91	7.3	7.1	7.3	5.9	504.0	8.0	8.0	31.0	8.0	310.0	10.0	31.935	7430	1000	4240	3460	230	0.016	3.10	1.3	0.016	3.10	1.3	0.016	3.10	1.3	1.3		
10	88.80	7.2	7.2	7.2	5.9	448.0	7.0	7.0	28.0	7.0	285.0	8.0	41.056	7300	1000	4000	3300	230	0.016	4.30	4.8	0.016	4.30	4.8	0.016	4.30	4.8	4.8		
11	96.17	7.3	7.0	7.3	5.5	216.0	8.0	8.0	12.0	8.0	122.0	8.0	49.172	6370	1000	2880	2340	150	0.016	0.74	24200	0.016	0.74	24200	0.016	0.74	24200	17	5	
12	60.43	7.1	7.1	7.1	6.0	228.0	6.0	6.0	12.0	6.0	129.0	9.0	42.189	6530	1000	3480	2800	200	0.016	1.20	1450	0.016	1.20	1450	0.016	1.20	1450	17	5	
13	55.52	7.2	7.0	7.2	6.3	252.0	8.0	8.0	14.0	8.0	144.0	19.0	32.549	7660	1000	2120	1700	180	0.016	1.10	332	0.016	1.10	332	0.016	1.10	332	332	332	
14	166.98	7.0	7.0	7.0	3.5	272.0	20.0	20.0	15.0	20.0	157.0	22.0	53.871	6430	1000	1780	1360	100	0.016	1.40	24200	0.016	1.40	24200	0.016	1.40	24200	17	5	
15	108.72	7.0	7.1	7.1	6.3	104.0	22.0	22.0	67.0	22.0	67.0	15.0	54.076	6670	1000	3080	2480	150	0.016	0.20	17	0.016	0.20	17	0.016	0.20	17	17	17	
16	81.38	7.3	7.1	7.3	5.8	74.0	7.0	7.0	69.0	7.0	69.0	6.0	50.567	5600	1000	2680	2130	150	0.016	0.66	5010	0.016	0.66	5010	0.016	0.66	5010	17	17	
17	67.10	7.2	7.1	7.2	6.0	148.0	6.0	6.0	109.0	6.0	109.0	8.0	51.578	5670	1000	3760	3040	150	0.016	0.79	495	0.016	0.79	495	0.016	0.79	495	17	17	
18	68.44	7.3	7.2	7.3	5.9	320.0	7.0	7.0	163.0	7.0	163.0	8.0	48.1	6500	1000	3990	3180	190	0.016	1.40	2	0.016	1.40	2	0.016	1.40	2	2	2	
19	82.08	7.1	7.1	7.1	6.0	344.0	5.0	5.0	17.0	5.0	17.0	7.0	46.986	8370	1000	3400	2740	200	0.016	2.10	2	0.016	2.10	2	0.016	2.10	2	2	2	
20	72.17	7.0	7.0	7.0	5.9	200.0	7.0	7.0	112.0	7.0	112.0	10.0	43.597	7670	1000	3420	2700	210	0.016	0.60	2	0.016	0.60	2	0.016	0.60	2	2	2	
21	59.89	7.1	7.4	7.1	5.8	236.0	4.0	4.0	160.0	4.0	160.0	6.0	37.779	7970	1000	3400.00	2740	210	0.016	1.00	4	0.016	1.00	4	0.016	1.00	4	4	4	
22	46.96	7.3	7.2	7.3	6.1	292.0	10.0	10.0	197.0	10.0	197.0	10.0	48.279	7970	1000	3500.00	2780	200	0.016	4.10	7	0.016	4.10	7	0.016	4.10	7	7	7	
23	54.30	7.1	7.2	7.1	6.1	402.0	8.0	8.0	246.0	8.0	246.0	9.0	30.05	8430	1000	3580	2860	210	0.016	3.20	2	0.016	3.20	2	0.016	3.20	2	2	2	
24	45.60	7.3	7.2	7.3	6.2	288.0	10.0	10.0	186.0	10.0	186.0	11.0	26.29	7200	1000	3300	2690	200	0.016	4.00	31	0.016	4.00	31	0.016	4.00	31	31	31	
25	45.78	7.1	7.5	7.1	6.2	292.0	8.0	8.0	205.0	8.0	205.0	9.0	19.99	7800	1000	3360	2750	200	0.016	4.10	2	0.016	4.10	2	0.016	4.10	2	2	2	
26	43.92	7.1	7.2	7.1	6.5	440.0	8.0	8.0	187.0	8.0	187.0	13.0	19.344	8240	1000	3630	2890	200	0.016	4.90	18	0.016	4.90	18	0.016	4.90	18	18	18	
27	41.67	7.3	7.2	7.3	6.5	380.0	6.0	6.0	258.0	6.0	258.0	9.0	19.28	8780	1000	3330	2710	200	0.016	3.70	39	0.016	3.70	39	0.016	3.70	39	39	39	
28	55.57	7.3	7.2	7.3	6.0	380.0	6.0	6.0	242.0	6.0	242.0	8.0	19.19	10200	1000	3020	2420	190	0.016	5.00	24200	0.016	5.00	24200	0.016	5.00	24200	116	116	
29	45.61	7.3	7.3	7.3	6.4	228.0	9.0	9.0	173.0	9.0	173.0	10.0	19.119	9470	1000	3040	2540	200	0.016	5.20	116	0.016	5.20	116	0.016	5.20	116	116	116	
30	41.57	7.3	7.1	7.3	6.5	300.0	8.0	8.0	195.0	8.0	195.0	9.0	19.361	8730	1000	3560	2840	205	0.016	5.40	9	0.016	5.40	9	0.016	5.40	9	9	9	
31	1761.6	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
Total	58.72	7.2	7.1	7.2	6.0	338.8	9.1	9.1	226.5	9.1	226.5	11.1	33.67	7541.00	1010.2	3693.00	2992.67	191.83	0.08	3.39	36	0.016	3.39	36	0.016	3.39	36	36	36	
Flow	456481	1907	34248	36173	6.0	338.8	9.1	9.1	226.5	9.1	226.5	11.1	33.67	7541.00	1010.2	3693.00	2992.67	191.83	0.08	3.39	36	0.016	3.39	36	0.016	3.39	36	36	36	
BOD	549631	1907	34248	36173	6.0	338.8	9.1	9.1	226.5	9.1	226.5	11.1	33.67	7541.00	1010.2	3693.00	2992.67	191.83	0.08	3.39	36	0.016	3.39	36	0.016	3.39	36	36	36	
TSS	687327	1907	34248	36173	6.0	338.8	9.1	9.1	226.5	9.1	226.5	11.1	33.67	7541.00	1010.2	3693.00	2992.67	191.83	0.08	3.39	36	0.016	3.39	36	0.016	3.39	36	36	36	
Operator	Gary Phelps																													
Cert. #	30428																													
Phone #	502-540-6000																													

Industrial Connections:  
 36173  
 34248  
 1907  
 18

Sewer Connections X 3 =

102744

456481

549631

687327

TSS

30428

502-540-6000



					Value NODI														
00665	Phosphorus, total [as P]	G - Raw Sewage Influent	0	--	Sample = 6.1														
					Permit Req. = 6.7														
					Value NODI														
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample = 58.719														
					Permit Req. = 77.254														
					Value NODI														
50050	Flow, in conduit or thru treatment plant	G - Raw Sewage Influent	0	--	Sample = 58.392														
					Permit Req. = 76.476														
					Value NODI														
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample < 0.016														
					Permit Req. <= 0.019 MO AVG														
					Value NODI														
X 51040	E. coli	1 - Effluent Gross	0	--	Sample = 36.0														
					Permit Req. <= 130.0 30DA GEO														
					Value NODI														
81010	BOD, 5-day, percent removal	K - Percent Removal	0	--	Sample = 95.0														
					Permit Req. >= 85.0 MO AV MN														
					Value NODI														
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample = 97.0														
					Permit Req. >= 85.0 MO AV MN														
					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					
51040	E. coli	1 - Effluent Gross	Quality or Concentration Sample Value 3	Soft	The provided sample value is outside the permit limit. <b>Please verify that the value you have provided is correct.</b>	Yes

**Comments**

**Attachments**

Name	Type	Size
DRGOverflow.pdf	pdf	108180.0
DRGcoverletter.pdf	pdf	44691.0
DRGMOR.pdf	pdf	132478.0

**Report Last Saved By**

**Derek R Guthrie WQTC MSD**

User: CURT.OTTO@LOUISVILLEMSD.ORG  
 Name: Curt Otto  
 E-Mail: curt.otto@louisvillemsd.org  
 Date/Time: 2024-12-18 10:58 (Time Zone: -05:00)

**Report Last Signed By**

User: CURT.OTTO@LOUISVILLEMSD.ORG  
 Name: Curt Otto  
 E-Mail: curt.otto@louisvillemsd.org  
 Date/Time: 2024-12-18 11:04 (Time Zone: -05:00)



**IMSAST0004  
Overflow Report**

**11/1/2024 12:00:00 AM to 11/30/2024 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 Manhole	81440	423 ECHAPPE LN	DEREK R. GUTHRIE	BEE LICK CREEK	GROUND						
Activity Code / Description	WO #	Ref #	Initiated on	Initiated By	Assigned To	Dish Status	Event Date	Problem Desc	Result	Completed	Condition
DISREV:RAIN EVENT DISCHARGE	3869680		11/14/2024 7:30:00 AM	SMITH		QUEUED FOR INVESTIGATION N / REPAIR	11/14/2024 12:00:00 AM	MECHANICAL FAILURE	UNAUTHORIZED DISCHARGE- WATERS	11/14/24 04:36 PM	

**Discharge Reporting:**

Discharge Amount:	50 GAL
Cause:	LACK OF SYSTEM CAPACITY.
Clean Up:	PIPE DISCHARGING UNDERGROUND.
Control Zone:	PLACED TEMPORARY SIGNS AND BARRICADES AROUND THE IMPACTED AREA.
Impact:	ROADWAY AT THE END OF ECHAPPE LANE HAS BALLONED UPWARD FROM PRESSURE
Repair:	REFERRED TO CREW FOR INSPECTION.
Public Notification:	ADVISED CUSTOMER ON SITE.

**Notifications:**

11/15/24 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
------------------	--------	--------------------------------------------------------------------------------------------------------------------------



**IMSAST0004  
Overflow Report**

**11/1/2024 12:00:00 AM to 11/30/2024 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 Manhole	81443	420 ECHAPPE LN	DEREK R. GUTHRIE	BEE LICK CREEK	DITCH						
Activity Code / Description	WO #	Ref #	Initiated on	Initiated By	Assigned To	Dish Status	Event Date	Problem Desc	Result	Completed	Condition
DISREV:RAIN EVENT DISCHARGE	3869679		11/14/2024 3:42:00 PM	JACKSON-BRITTLE		DOCUMENTED	9/9/2018 12:00:00 AM	MECHANICAL FAILURE	UNAUTHORIZED DISCHARGE-WATERS	11/14/24 03:30 PM	MAIN

**Discharge Reporting:**

Discharge Amount:	50 GAL
Cause:	LACK OF SYSTEM CAPACITY.
Clean Up:	NO CLEAN UP PERFORMED – PIPE DISCHARGING UNDERGROUND, DIRECTLY INTO STREAM.
Control Zone:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA.
Impact:	NONE OBSERVED.
Repair:	N/A
Public Notification:	ADVISED CUSTOMER ON SITE.

**Notifications:**

11/15/24 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
------------------	--------	-----------------------------------------------------------------------------------------------------------------------