



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

January 14, 2023

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 December 2022.**

Dear Ms. Crystal 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 2022.

There were no bypasses or exceedances for the Derek Guthrie WQTC.

Also attached are overflow and 4<sup>th</sup> quarter Biomonitoring reports.

If you have any questions concerning the attached DMR's, please contact me at (502)540-6031.

Sincerely,

Kevin Thompson  
Process Supervisor, West Region

KLT/West County 12/22

Enclosures

cc: B. Tinnell  
V. Graves  
M. Saylor



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	=	27.0	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									=	97.0			23 - %	0	01/30 - Monthly	CA - CALCTD			
					Permit Req.								>=	85.0 MO AV MN			23 - %						01/30 - Monthly	CA - CALCTD
					Value NODI																			
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample									=	98.0			23 - %	0	01/30 - Monthly	CA - CALCTD			
					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**

No errors.

**Comments**

**Attachments**

Name	Type	Size
SDRG-ADMIN-23011507340.pdf	pdf	37633.0
SDRG-ADMIN-23011507341.pdf	pdf	131120.0

**Report Last Saved By**

**Derek R Guthrie WQTC MSD**

User: kevin.thompson@louisvillemsd.org  
Name: Kevin Thompson  
E-Mail: kevin.thompson@louisvillemsd.org  
Date/Time: 2023-01-23 09:23 (Time Zone: -05:00)

**Report Last Signed By**

User: kevin.thompson@louisvillemsd.org  
Name: Kevin Thompson  
E-Mail: kevin.thompson@louisvillemsd.org  
Date/Time: 2023-01-23 09:23 (Time Zone: -05:00)

## DMR Copy of Record

Permit																			
Permit #:		KY0078956			Permittee:				Derek R Guthrie WQTC MSD			Facility:		DEREK R GUTHRIE WQTC MSD					
Major:		Yes			Permittee Address:				700 W Liberty St Louisville, KY 40203			Facility Location:		11621 LOWER RIVER RD LOUISVILLE, KY 40272					
Permitted Feature:		001 External Outfall			Discharge:				001-2 QUARTERLY BIOMONITORING										
Report Dates & Status																			
Monitoring Period:		From 10/01/22 to 12/31/22			DMR Due Date:				01/28/23			Status:		NetDMR Validated					
Considerations for Form Completion																			
Principal Executive Officer																			
First Name:		James A.			Title:				Executive Director			Telephone:		502-540-6000					
Last Name:		Parrott																	
No Data Indicator (NODI)																			
Form NODI:		--																	
Code	Parameter Name	Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type	
						Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3				Value 3
61406	Toxicity, final conc toxicity units	1 - Effluent Gross	0	--	Sample						<	1.0	2F - tox acute					01/90 - Quarterly	24 - COMP24
					Permit Req.					<=	1.0 MAXIMUM	2F - tox acute					0	01/90 - Quarterly	24 - COMP24
					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																			
No attachments.																			
Report Last Saved By																			
Derek R Guthrie WQTC MSD																			
User:		kevin.thompson@louisvillemsd.org																	
Name:		Kevin Thompson																	
E-Mail:		kevin.thompson@louisvillemsd.org																	
Date/Time:		2023-01-15 07:38 (Time Zone: -05:00)																	
Report Last Signed By																			
User:		kevin.thompson@louisvillemsd.org																	
Name:		Kevin Thompson																	
E-Mail:		kevin.thompson@louisvillemsd.org																	
Date/Time:		2023-01-23 09:23 (Time Zone: -05:00)																	

Name of Sewage Treatment Plan West County WTP Jefferson County Month of: December 2022  
 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	Raw	Final	Final						
1	26.68			7.1	6.9					7.1			590.0		15.0				380.0		18.0					2600						13.90	1.86	0.016	2.80	19											
2	22.35			6.9	7.1					6.9			584.0		13.0				427.0		13.0					1980								0.016	3.80	2											
3	23.74			7.0	7.1					6.1			544.0		14.0				431.0		17.0					1940								0.016	4.50	2											
4	23.18			7.1	7.1					6.0			568.0		15.0				303.0		18.0					2080	1740	120						0.016	4.00	6	47	18									
5	21.80			7.2	7.1					6.0			775.0		19.0				479.0		17.0					1900		120						0.016	3.40	2											
6	21.88			7.0	6.9					6.4			620.0		22.0				385.0		24.0					2440		130						0.016	3.30	2											
7	46.80			6.8	6.8					6.3			544.0		15.0				318.0		15.0					2640		100						0.016	1.50	24200											
8	44.29			7.3	7.2					7.5			396.0		15.0				255.0		20.0					3280		180		8.45	1.38	0.016	2.40	154													
9	38.59			7.1	7.2					6.6			564.0		12.0				296.0		11.0					3040		180						0.016	0.94	2											
10	29.67			7.0	7.3					6.4			564.0		13.0				419.0		10.0					2880		170						0.016	1.30	2											
11	27.24			7.0	7.1					6.5			848.0		13.0				746.0		15.0					2720	2260	170						0.016	1.90	11	61	14									
12	23.57			7.2	7.2					6.5			672.0		8.0				477.0		10.0					2580		160						0.016	1.50	6											
13	22.81			7.3	7.2					7.6			800.0		10.0				512.0		13.0					3980		150						0.016	1.10	5670											
14	57.12			7.1	7.0					6.6			412.0		19.0				219.0		19.0					5020		150						0.016	2.40	47											
15	106.89			7.1	7.0					6.6			276.0		11.0				194.0		15.0					2040		120		4.60	0.61	0.016	1.50	161													
16	41.46			7.1	7.1					7.8			428.0		8.0				284.0		8.0					2980		180						0.016	1.50	63											
17	30.57			7.2	7.3					7.3			464.0		8.0				491.0		10.0					2840		170						0.016	2.00	28											
18	26.99			7.1	7.3					6.7			580.0		12.0				447.0		14.0					2400	1920	150						0.016	2.50	10	48	16									
19	24.69			7.1	7.2					7.0			536.0		11.0				381.0		13.0					1920		140						0.016	2.70	4											
20	23.58			7.1	7.1					7.9			1200.0		9.0				544.0		10.0					2410		140						0.016	2.40	2											
21	22.07			7.0	6.9					6.0			644.0		10.0				488.0		14.0					2780.00		150						0.016	2.10	2											
22	23.10			7.2	7.1					6.7			780.0		10.0				572.0		14.0					2180		140						0.016	2.70	29											
23	26.30			7.0	7.1					8.2			396.0		14.0				311.0		17.0					2260.00		140						0.016	2.80	2											
24	26.31			7.1	7.1					8.6			416.0		10.0				295.0		11.0					2240		130						0.016	2.70	2											
25	24.05			7.1	7.1					8.6			356.0		10.0				308.0		10.0					1660	1400	110						0.016	3.40	2											
26	23.52			7.1	7.0					8.0			1170.0		13.0				516.0		14.0					3890		100		22.20	2.97	0.016	3.50	2	82	18											
27	25.33			7.0	7.0					8.0			804.0		12.0				562.0		17.0					2800		180						0.016	2.30	15											
28	24.11			7.1	7.2					8.5			600.0		9.0				358.0		14.0					2580		170						0.016	1.60	25											
29	26.14			7.1	7.0					8.2			548.0		10.0				465.0		10.0					2900		180						0.016	1.30	2											
30	25.03			7.1	7.1					8.2			528.0		8.0				409.0		10.0					3220		180						0.016	1.50	7											
31	33.16			7.2	7.1					8.0			308.0		11.0				302.0		15.0					2540		160						0.016	1.70	85											
Total	963.0	0	0																																												
Avg.	31.07			7.1	7.1					7.2			597.3		12.2				405.6		14.1				4831.61		0.0	0.0					2553.55	1830.00	146.13				12.29	1.71	0.016	2.36	12	58	16		

Industrial Connections: 36173 Flow 193115 BOD 515418 TSS 634111  
34248 Flow 1907 BOD 515418 TSS 634111  
 Sewer Connections X 3 = 18 Flow 102744 BOD 515418 TSS 634111

Operator Kendrietta Hayes  
 Cert. # 25850  
 Phone # 502-540-6000