



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

April 20, 2021
Ms. Crystal Dennis
Kentucky Division of Water
200 Fair Oaks Lane
Frankfort, Kentucky 40601

**Re: Derek Guthrie Water Quality Treatment Center
KPDES Permit No. KY0078956,
Discharge monitoring report for March 2021.**

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 March 2021.

There were no exceedances, overflow or bypass reports for the Derek Guthrie WQTC.

Also attached is the 1st quarter Biomonitoring NETDMR.

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

A handwritten signature in blue ink, appearing to read 'Kevin Thompson', is written over a light blue horizontal line.

Kevin Thompson
Process Supervisor, West Region

KLT/West County 03/21
Enclosures

cc: C. Roth
V. Graves
R. Shaw

DMR Copy of Record

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:

001-2
QUARTERLY BIOMONITORING

Report Dates & Status

Monitoring Period:

From 01/01/21 to 03/31/21

DMR Due Date:

04/28/21

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:

James A.

Last Name:

Parrott

Title:

Executive Director

Telephone:

502-540-6000

No Data Indicator (NODI)

Form NODI:

--

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			
61406	Toxicity, final conc toxicity units	1 - Effluent Gross	0	--	Sample										<	1.0	2F - tox acute	0	01/90 - Quarterly	24 - COMP24
					Permit Req.										<=	1.0 MAXIMUM	2F - tox acute		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:

2021-04-20 08:43 (Time Zone: -04:00)

Report Last Signed By

User:

kevin.thompson@louisvillemSD.org

Name:

Kevin Thompson

E-Mail:

kevin.thompson@louisvillemSD.org

Date/Time:

2021-04-22 09:39 (Time Zone: -04:00)

DMR Copy of Record

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 03/01/21 to 03/31/21

DMR Due Date:

04/28/21

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 A.

Last Name:

Parrott

Title:

Executive Director

Telephone:

502-540-6000

No Data Indicator (NODI)

Form NODI: --

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						=	7.0					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															
00400	pH	1 - Effluent Gross	0	--	Sample						=	6.7			=	7.3	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															
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	3500.0	=	6640.0	26 - lb/d		=	6.0	=	9.0	19 - mg/L	0	01/01 - Daily	24 - COMP24	
					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 - COMP24	
					Value NODI															
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample								=	184.0	=	298.0	19 - mg/L	0	01/01 - Daily	24 - COMP24
					Permit Req.									Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L		01/01 - Daily	24 - COMP24
					Value NODI															
00600	Nitrogen, total [as N]	1 - Effluent Gross	0	--	Sample								=	8.8	=	12.5	19 - mg/L	0	01/07 - Weekly	24 - COMP24
					Permit Req.									Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L		01/07 - Weekly	24 - COMP24
					Value NODI															
00600	Nitrogen, total [as N]	G - Raw Sewage Influent	0	--	Sample								=	18.9	=	29.1	19 - mg/L	0	01/07 - Weekly	24 - COMP24
					Permit Req.									Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L		01/07 - Weekly	24 - COMP24
					Value NODI															
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	0	--	Sample								=	3.0	=	4.0	19 - mg/L	0	01/01 - Daily	24 - COMP24
					Permit Req.								<=	20.0 MO AVG	<=	30.0 MX WK AV	19 - mg/L		01/01 - Daily	24 - COMP24
					Value NODI															
00665	Phosphorus, total [as P]	1 - Effluent Gross	0	--	Sample								=	0.8	=	2.0	19 - mg/L	0	01/07 - Weekly	24 - COMP24
					Permit Req.									Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L		01/07 - Weekly	24 - COMP24
					Value NODI															
00665	Phosphorus, total [as P]	G - Raw Sewage Influent	0	--	Sample								=	2.77	=	5.39	19 - mg/L	0	01/07 - Weekly	24 - COMP24
					Permit Req.									Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L		01/07 - Weekly	24 - COMP24
					Value NODI															
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	57.31	=	76.063	03 - MGD								0	99/99 - Continuous	RC - Recorder (auto)
					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	=	55.36	=	72.486	03 - MGD								0	99/99 - Continuous	RF - RCDFLO
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	03 - MGD									99/99 - Continuous	RF - RCDFLO
					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								=	5.0	=	17.0	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															

80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0	--	Sample	=	4252.0	=	4892.0	26 - lb/d			=	9.0	=	9.0	19 - mg/L	0	01/01 - Daily	24 - COMP24
					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 - COMP24
					Value NODI															
80082	BOD, carbonaceous [5 day, 20 C]	G - Raw Sewage Influent	0	--	Sample								=	148.0	=	266.0	19 - mg/L	0	01/01 - Daily	24 - COMP24
					Permit Req.									Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L		01/01 - Daily	24 - COMP24
					Value NODI															
80091	BOD, carb-5 day, 20 deg C, percent removal	K - Percent Removal	0	--	Sample							=	94.0				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							=	97.0				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
202103_DRG_MOR.pdf	pdf	130999.0
202103_DRG_coverletter.pdf	pdf	34607.0

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: 2021-04-20 09:01 (Time Zone: -04:00)

Report Last Signed By

User: kevin.thompson@louisvillemsd.org

Name: Kevin Thompson

E-Mail: kevin.thompson@louisvillemsd.org

Date/Time: 2021-04-22 09:39 (Time Zone: -04:00)

Name of Sewage Treatment Plan West County WTP County Jefferson Month of: March 2021
 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 Chlorine Residual (mg/L)	Final NH3-N (mg/L)	Final E. Coli (MPN)	Total mg/L		Cr +6 mg/L
		Gallons 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	Return		WAS	Oxygen (mg/L) #1	Oxygen (mg/L) #2	(mg/L) X1000 #1&2	MLVSS (mg/L) X1000	30 min. SVI	60 min. SVI	% Solids	Raw	Final						
																						Gall/Day	MLSS mg/L X 1000														Gall/Day X 1000		
1	145.10			6.8	7.1					7.0		57.0		19.0				40.0		9.0	7340						1970	1630	120			1.16	0.33	0.016	1.60	2	9	6	
2	104.66			7.1	6.9					7.0		112.0		8.0				55.0		8.0	6240						2360	1940	200					0.016	2.50	29			
3	86.22			6.9	7.0					7.0		212.0		4.0				123.0		6.0	6900						2720	2170	250					0.016	2.90	2			
4	45.50			7.1	6.7					7.0		204.0		7.0				119.0		8.0	5900						3900	3070	370					0.016	7.60	2			
5	50.83			7.1	7.2					7.0		140.0		6.0				86.0		6.0	6300						2930	2310	320					0.016	3.90	2			
6	55.49			7.0	7.0					7.0		135.0		8.0				76.0		8.0	5960						3880	3110	300					0.016	4.60	2			
7	64.64			6.9	6.8					7.0		104.0		10.0				56.0		7.0	5840						2790	2160	250					0.016	4.50	2			
8	53.86			7.0	7.1					7.0		236.0		10.0				122.0		8.0	5560						2220	1730	275			2.71	0.88	0.016	5.20	20	25	9	
9	49.77			7.0	7.1					7.0		196.0		9.0				122.0		14.0	5740						2510	2030	255					0.016	5.20	4			
10	48.12			7.2	7.3					7.0		143.0		8.0				61.0		9.0	5960						2360	1940	290					0.016	4.70	7			
11	45.80			7.2	7.3					7.0		194.0		8.0				117.0		15.0	5760						2640	2120	310					0.016	5.30	2			
12	124.71			7.2	7.1					7.0		126.0		8.0				64.0		8.0	5740						1690	1380	175					0.016	2.50	24200			
13	99.48			7.0	7.2					7.0		184.0		5.0				96.0		5.0	6080						2520	2010	210					0.016	2.00	7			
14	75.29			7.0	7.0					7.0		92.0		3.0				60.0		4.0	5830						2700	2130	245					0.016	2.80	2			
15	78.39			6.9	7.2					7.0		83.0		6.0				51.0		6.0	5280						2700	2220	260			1.83	0.62	0.016	3.40	2	12	7	
16	71.40			7.2	7.1					7.0		184.0		4.0				250.0		9.0	4980						2430	1900	240					0.016	2.70	11			
17	39.67			7.0	7.0					7.0		202.0		5.0				69.0		7.0	5780						3190	2520	300					0.016	3.10	14			
18	64.48			6.9	7.2					7.0		190.0		7.0				121.0		11.0	6240						2320	1840	200					0.016	2.50	2250			
19	42.26			7.0	7.1					7.0		130.0		4.0				144.0		8.0	5040						2250	1700	310					0.016	2.00	2			
20	36.66			6.9	6.8					7.0		120.0		3.0				93.0		6.0	5280						3680	2740	270					0.016	2.20	2			
21	32.81			7.1	7.1					7.0		105.0		4.0				91.0		7.0	4400						2800.00	2080	250					0.016	2.00	2			
22	31.47			7.0	7.2					7.0		412.0		4.0				363.0		9.0	4340						2790	2190	250			5.39	1.51	0.016	2.10	2	29	13	
23	30.34			7.0	7.1					7.0		134.0		4.0				103.0		6.0	4700						2230.00	1830	275					0.016	2.00	2			
24	29.00			7.0	7.2					7.0		218.0		4.0				193.0		8.0	4280						1620	1280	270					0.016	2.70	2			
25	42.73			7.0	7.1					7.0		330.0		8.0				266.0		13.0	4360						2470	1860	245					0.016	4.10	2			
26	35.49			6.9	7.2					7.0		138.0		5.0				339.0		10.0	4280						2390	1890	230					0.016	2.30	2			
27	31.76			7.0	7.1					7.0		692.0		3.0				446.0		7.0	4460						2880	2320	230					0.016	2.50	2			
28	29.45			7.1	7.1					7.0		160.0		3.0				150.0		8.0	4080						2800	2280	220					0.016	2.30	2			
29	28.22			7.1	7.1					7.0		180.0		5.0				317.0		20.0	3860						1570	1130	235					0.016	3.20	2			
30	28.15			7.1	7.1					7.0		200.0		7.0				222.0		22.0	4380						2680	2040	200					0.016	3.40	2			
31	94.82			6.9	7.1					7.0		86.0		8.0				167.0		16.0	8400						870	700	135					0.016	2.40	2			
Total	1776.6	0	0																	0.0		0.0																	
Avg.	57.31			7.0	7.1					7.0		183.8		6.4				147.8		9.3	5460.97						2543.87	2008.06	248.06			2.77	0.83	0.016	3.23	5	17	8	

Industrial Connections: 36173 34248 1907 443050 312811 315666
 Sewer Connections X 3 = 18 Flow BOD TSS
 Phone # 502-540-6000

Operator Gary Phelps
 Cert. # 30428