



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

January 12, 2018

Ms. Cheryl Edwards
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 December 2017.**

Dear Ms. Cheryl Edwards:

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 2017.

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

Also attached is the 4th quarter Biomonitoring report.

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 12/17
Enclosures

cc: C. Roth
V. Graves
R. Shaw

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-Y BIOMONITORING/METALS/QUARTERLY	

Report Dates & Status

Monitoring Period: From 10/01/17 to 12/31/17	DMR Due Date: 01/28/18	Status: NetDMR Validated
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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	Units		
00900	Hardness, total [as CaCO3]	1 - Effluent Gross	0	--	Sample						=	248		=	248	19 - mg/L	01/90 - Quarterly	CP - COMPOS			
					Permit Req.													01/90 - Quarterly	G2 - GRAB-2		
					Value NODI																
01094	Zinc, total recoverable	1 - Effluent Gross	0	--	Sample						=	0.042		=	0.042	19 - mg/L	01/90 - Quarterly	CP - COMPOS			
					Permit Req.													01/90 - Quarterly	G2 - GRAB-2		
					Value NODI																
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.0001		<	0.0001	19 - mg/L	01/90 - Quarterly	CP - COMPOS			
					Permit Req.													01/90 - Quarterly	G2 - GRAB-2		
					Value NODI																
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.001		<	0.001	19 - mg/L	01/90 - Quarterly	CP - COMPOS			
					Permit Req.													01/90 - Quarterly	G2 - GRAB-2		
					Value NODI																
01119	Copper, total recoverable	1 - Effluent Gross	0	--	Sample						=	0.005		=	0.005	19 - mg/L	01/90 - Quarterly	CP - COMPOS			
					Permit Req.													01/90 - Quarterly	G2 - GRAB-2		
					Value NODI																
61406	Toxicity, final conc toxicity units	1 - Effluent Gross	0	--	Sample									<	1	2F - tox acute	01/90 - Quarterly	GR - GRAB			
					Permit Req.											<=	1 DAILY MX	2F - tox acute	0	01/90 - Quarterly	G2 - GRAB-2
					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: WRIGHTDUANE
 Name: Duane Wright
 E-Mail: duane.wright@louisvillemsd.org
 Date/Time: 2018-01-12 09:54 (Time Zone: -05:00)

Report Last Signed By

User: kevin.thompson@louisvillemsd.org
 Name: Kevin Thompson
 E-Mail: kevin.thompson@louisvillemsd.org
 Date/Time: 2018-01-16 09:30 (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-R REASONABLE POTENTIAL																
Report Dates & Status																					
Monitoring Period:	From 12/01/17 to 12/31/17			DMR Due Date:	01/28/18			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	Units				
01032	Chromium, hexavalent [as Cr]	1 - Effluent Gross	0	--	Sample							<	0.01		<	0.01	19 - mg/L		01/30 - Monthly	CP - COMPOS	
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L	0	01/30 - Monthly	CP - COMPOS	
					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:	WRIGHTDUANE																				
Name:	Duane Wright																				
E-Mail:	duane.wright@louisvillemd.org																				
Date/Time:	2018-01-12 09:54 (Time Zone: -05:00)																				
Report Last Signed By																					
User:	kevin.thompson@louisvillemd.org																				
Name:	Kevin Thompson																				
E-Mail:	kevin.thompson@louisvillemd.org																				
Date/Time:	2018-01-16 09:29 (Time Zone: -05:00)																				

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
201712_DRG_MOR.pdf	pdf	70973
2017_DRG_coverletter_1.pdf	pdf	86738

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: 2018-01-16 09:27 (Time Zone: -05:00)

Report Last Signed By

User: kevin.thompson@louisvillemmsd.org
Name: Kevin Thompson
E-Mail: kevin.thompson@louisvillemmsd.org
Date/Time: 2018-01-16 09:28 (Time Zone: -05:00)

Name of Sewage Treatment Plant:

West County WTP

Jefferson

Month of:

December

2017

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							Digested				Final							
		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	Free Ammonia Nitrogen (mg/L) #1	Free Ammonia Nitrogen (mg/L) #2	MLSS (mg/L) X1000 #1	MLVSS (mg/L) X1000 #1	30 min. SVI	60 min. SVI	% Solids	Phosphorus (mg/L)	TKN (mg/L)	Chlorine Residual (mg/L)	NH3-N (mg/L)	Coliform Col./100ml	Hexavalent Chromium	Hardness				
1	18.30			6.6	7.2				7.0			485.0	8.0			466.0	21.0		3830							1760	1400	100													
2	18.72			7.4	7.2				7.0			1600.0	10.0			369.0	14.0		3950								1900	1510	110							0.016	5.00	2			
3	19.84			7.1	7.2				7.0			1640.0	5.0			139.0	16.0		3720								1630	1280	100							0.016	5.40	1			
4	24.38			7.0	6.6				7.0			792.0	14.0			141.0	26.0		3890								1860	1470	100							0.016	6.90	2			
5	66.98			8.4	7.2				7.0			532.0	16.0			334.0	13.0		5730								2000	1580	110			1.04	6.10	0.016	4.20	4		216			
6	52.77			7.2	7.3				7.0			368.0	4.0			243.0	6.0		6120								2260	1740	130							0.016	2.80	2		0.005	
7	45.09			7.4	7.2				7.0			420.0	5.0			242.0	16.0		5250								2410	1920	140							0.016	4.20	1			
8	40.62			7.3	7.0				7.0			405.0	10.0			231.0	14.0		5900								2310	1780	140							0.016	4.80	2			
9	39.58			7.4	6.8				7.0			335.0	12.0			260.0	18.0		5940								2450	1950	150							0.016	5.40	4			
10	37.58			7.2	7.2				7.0			408.0	10.0			340.0	16.0		6130								2600	2110	130							0.016	6.20	1			
11	31.72			7.3	6.8				7.0			184.0	6.0			148.0	12.0		6200								1950	1530	140							0.016	3.70	1			
12	20.92			7.3	6.6				7.0			328.0	7.0			216.0	10.0		6180								2550	2000	175			1.01	6.50	0.016	2.00	1					
13	27.23			7.4	6.6				7.0			276.0	11.0			234.0	26.0		4960								2400	1850	150							0.016	3.30	1			
14	25.66			7.3	6.9				7.0			256.0	8.0			209.0	10.0		4680								2530	1970	120							0.016	2.60	1			
15	19.60			7.3	6.4				7.0			360.0	8.0			245.0	8.0		4870								2550	1990	160							0.016	1.70	2			
16	19.69			7.1	6.9				8.0			465.0	7.0			361.0	8.0		4680								3130	2450	150							0.016	2.40	2			
17	20.20			7.1	7.1				7.1			520.0	6.0			337.0	7.0		4870								2970	2320	150							0.016	2.20	2			
18	19.93			7.3	7.1				8.0			290.0	6.0			246.0	9.0		4450								3850	2970	130							0.016	1.40	1			
19	20.04			7.2	6.6				8.0			583.0	8.0			321.0	8.0		4870								2440	1930	150			1.26	2.10	0.016	1.10	1					
20	18.82			7.4	7.1				8.0			437.0	10.0			352.0	29.0		4360								2600	2050	110							0.016	3.70	15			
21	19.26			7.2	6.7				7.0			537.0	6.0			348.0	11.0		4550								2520.00	1930	150							0.016	2.00	1			
22	18.06			7.3	7.0				7.0			625.0	9.0			314.0	12.0		4940								2620	2040	150							0.016	2.10	2			
23	100.01			6.9	6.6				7.0			175.0	16.0			124.0	18.0		8210								1800.00	1390	90							0.016	1.70	10			
24	48.21			7.0	6.6				7.0			230.0	10.0			197.0	4.0		7690								2750	2100	150							0.016	1.30	10			
25	35.00			7.7	7.2				7.0			240.0	9.0			246.0	12.0		4600								2280	1750	150							0.016	2.10	12			
26	28.92			7.4	7.3				8.0			380.0	7.0			390.0	17.0		4700								2600	2010	140			1.33	3.60	0.016	2.20	8					
27	25.63			7.3	7.0				8.0			608.0	6.0			449.0	6.0		4520								2880	2230	150							0.016	2.20	8			
28	24.07			7.3	7.4				7.0			1130.0	9.0			742.0	22.0		4850								2540	1930	152							0.016	2.20	4			
29	23.70			7.0	7.0				7.0			410.0	3.0			380.0	8.0		4960								2880	2220	152							0.016	1.70	6			
30	22.99			7.2	7.3				7.0			300.0	10.0			291.0	14.0		4890								2950	2310	160							0.016	2.70	8			
31	22.10			7.2	6.7				7.0			260.0	10.0			179.0	14.0		4460								2900	2180	160							0.016	2.10	18			
Total	955.6	0	0																																						
Avg.	30.83			7.3	7.0				7.2			502.5	8.6			293.4	13.7		5120.65	0.0	0.0						2476.45	1931.94	137.06			1.16	4.58	0.016	3.14	3	0.01	216			

Total Number of Sewer Connections:

36173

Industrial Waste Population Equivalent

Residential Connections:

34248

Commercial Connections:

1907

Industrial Connections:

18

Sewer Connections X 3 =

102744

190840

Flow

340897

BOD

512498

TSS

Operator

Kendrietta Hayes

Cert. #

25850

Phone #

502-540-6000