



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

January 24, 2017

Cheryl Edwards
300 Sower Blvd., 3rd Floor
Frankfort, Kentucky 40601

**RE: Floyds Fork WQTC, KPDES No: KY0102784
 Discharge Monitoring Report for December 2017.**

Dear Ms. Edwards:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operator Report (MOR) for the Floyds Fork Water Quality Treatment Center, for the month of December 2017.

Also, attached is the 4th Quarter Biomonitoring Report.

There were no exceedances, overflows, or bypasses.

If you have any questions concerning the attached DMR's, please contact me at (502)540-6952.

Sincerely,

William Ford
Process Supervisor-Operations

WF/ Floyds Fork 12/17.

Cc: V. Teague
 R. Shaw

DMR Copy of Record

Permit			
Permit #:	KY0102784	Permittee:	Floyds Fork WQTC MSD
Major:	Yes	Permittee Address:	700 W Liberty St Louisville, KY 40203
Permitted Feature:	001 External Outfall	Discharge:	001-1 MUNICIPAL DISCHARGE
Facility:		Facility Location:	FLOYDS FORK WQTC MSD 1100 BLUE HERON RD LOUISVILLE, KY 40245

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
Last Name:	Parrott	Telephone:	502-540-6000

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
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample	=	8									19 - mg/L	0	01/07 - Weekly	GR - GRAB
					Permit Req.	>=	7 INST MIN									19 - mg/L	0	01/07 - Weekly	GR - GRAB
					Value NODI														
00400	pH	1 - Effluent Gross	0	--	Sample	=	6.6					=	7			12 - SU	0	01/07 - Weekly	GR - GRAB
					Permit Req.	>=	6 MINIMUM				<=	9 MAXIMUM			12 - SU	0	01/07 - Weekly	GR - GRAB	
					Value NODI														
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	68	=	81	26 - lb/d		=	3	=	3	19 - mg/L	0	01/07 - Weekly	CP - COMPOS
					Permit Req.	<=	1626 MO AVG	<=	2439 MX WK AV	26 - lb/d		<=	30 MO AVG	<=	45 MX WK AV	19 - mg/L	0	01/07 - Weekly	24 - COMP24
					Value NODI														
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample						=	218	=	262	19 - mg/L	0	01/07 - Weekly	CP - COMPOS	
					Permit Req.														
					Value NODI														
00600	Nitrogen, total [as N]	1 - Effluent Gross	0	--	Sample						=	14	=	16	19 - mg/L	0	01/07 - Weekly	CP - COMPOS	
					Permit Req.														
					Value NODI														
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	2	--	Sample	=	36	=	53	26 - lb/d		=	2	=	2.5	19 - mg/L	0	01/07 - Weekly	CP - COMPOS
					Permit Req.	<=	163 MO AVG	<=	244 MX WK AV	26 - lb/d		<=	3 MO AVG	<=	4.5 MX WK AV	19 - mg/L	0	01/07 - Weekly	24 - COMP24
					Value NODI														
00665	Phosphorus, total [as P]	1 - Effluent Gross	0	--	Sample	=	6.8	=	8.1	26 - lb/d		=	0.3	=	0.3	19 - mg/L	0	01/07 - Weekly	CP - COMPOS
					Permit Req.	<=	27.1 MO AVG	<=	40.7 MX WK AV	26 - lb/d		<=	0.5 MO AVG	<=	0.75 MX WK AV	19 - mg/L	0	01/07 - Weekly	24 - COMP24
					Value NODI														
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	2.86	=	3.763	03 - MGD							0	99/99 - Continuous	CN - CONTIN
					Permit Req.														
					Value NODI														
50050	Flow, in conduit or thru treatment plant	G - Raw Sewage Influent	0	--	Sample	=	2.965	=	3.894	03 - MGD							0	99/99 - Continuous	CN - CONTIN
					Permit Req.														
					Value NODI														
51040	E. coli	1 - Effluent Gross	0	--	Sample						=	21	=	51	13 - #/100mL	0	01/07 - Weekly	GR - GRAB	
					Permit Req.														
					Value NODI														
80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0	--	Sample	=	57	=	81	26 - lb/d		=	3	=	3	19 - mg/L	0	01/07 - Weekly	CP - COMPOS
					Permit Req.	<=	325 MO AVG	<=	488 MX WK AV	26 - lb/d		<=	6 MO AVG	<=	9 MX WK AV	19 - mg/L	0	01/07 - Weekly	24 - COMP24
					Value NODI														
80082	BOD, carbonaceous [5 day, 20 C]	G - Raw Sewage Influent	0	--	Sample						=	218	=	244	19 - mg/L	0	01/07 - Weekly	CP - COMPOS	
					Permit Req.														
					Value NODI														
80091	BOD, carb-5 day, 20 deg C, percent removal	K - Percent Removal	0	--	Sample						=	99			23 - %	0	01/30 - Monthly	CA - CALCTD	
					Permit Req.														
					Value NODI														
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample						=	99			23 - %	0	01/30 - Monthly	CA - CALCTD	
					Permit Req.														
					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
FF_CoverLetter_122017.pdf	pdf	30525
FF_MOR_PDF122017.pdf	pdf	71316

Report Last Saved By

Floyds Fork WQTC MSD

User: kevin.thompson@louisvillemmsd.org
Name: Kevin Thompson
E-Mail: kevin.thompson@louisvillemmsd.org
Date/Time: 2018-01-24 14:15 (Time Zone: -05:00)

Report Last Signed By

User: WILLIAM.FORD@LOUISVILLEMSD.ORG
Name: William Ford
E-Mail: william.ford@louisvillemmsd.org
Date/Time: 2018-01-24 14:35 (Time Zone: -05:00)

DMR Copy of Record

Permit																						
Permit #:	KY0102784			Permittee:	Floyds Fork WQTC MSD				Facility:	FLOYDS FORK WQTC MSD												
Major:	Yes			Permittee Address:	700 W Liberty St Louisville, KY 40203				Facility Location:	1100 BLUE HERON RD LOUISVILLE, KY 40245												
Permitted Feature:	001 External Outfall			Discharge:	001-2 TOXICITY																	
Report Dates & Status																						
Monitoring Period:	From 10/01/17 to 12/31/17			DMR Due Date:	01/28/18				Status:	NetDMR Validated												
Considerations for Form Completion																						
THREE 24-HOUR COMPOSITE SAMPLES ONE EACH COLLECTED EVERY OTHER DAY FOR A PERIOD OF 5 DAYS; IE - DAYS 1, 3 & 5																						
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						
61406	Toxicity, final conc toxicity units	1 - Effluent Gross	0	--	Sample										<	1	2G - tox chronic		01/90 - Quarterly	24 - COMP24		
					Permit Req.										<=	1 MAXIMUM	2G - tox chronic		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																						
										Name						Type						Size
										FF_CoverLetter_122017.pdf						pdf						30525
Report Last Saved By																						
Floyds Fork WQTC MSD																						
User:	WILLIAM.FORD@LOUISVILLEMSD.ORG																					
Name:	William Ford																					
E-Mail:	william.ford@louisvillemmsd.org																					
Date/Time:	2018-01-24 14:44 (Time Zone: -05:00)																					
Report Last Signed By																						
User:	WILLIAM.FORD@LOUISVILLEMSD.ORG																					
Name:	William Ford																					
E-Mail:	william.ford@louisvillemmsd.org																					
Date/Time:	2018-01-24 14:44 (Time Zone: -05:00)																					

NAME OF TREATMENT PLANT FLOYDS FORK

COUNTY JEFFERSON

MONTH OF: December 2017

KPDES PERMIT NUMBER KY0102784

PLANT CAPACITY 3.5 MGD

RECEIVING STREAM FLOYDS FORK

DATE	RAW SEWAGE			pH		SETTLABLE SOLIDS (mg/L)		DISSOLVED OXYGEN (mg/L)			SUSPENDED SOLIDS (mg/L)			5 DAY CBOD (mg/L)			ACTIVATED SLUDGE			AERATION BASIN						SLUDGE HANDLING				FINAL					
	TOTAL FLOW (MILLION GALLONS)	GRIT REMOVED (CUBIC FEET)	SCREENINGS (CUBIC FEET)	RAW	FINAL	RAW	PRIMARY EFFLUENT	FINAL EFFLUENT	STREAM ABOVE	FINAL EFFLUENT	STREAM BELOW	RAW	PRIMARY EFFLUENT	FINAL EFFLUENT	RAW	PRIMARY EFFLUENT	FINAL EFFLUENT	RETURN		WASTED	DISSOLVED OXYGEN (mg/L)	MLSS (mg/L) x 1000	MLVSS (mg/L) x 1000	SETTLED SLUDGE VOLUME		RAW		HAULED		PHOSPHORUS TOTAL (mg/L)	NH3-N (mg/L)	ECOLI	Total Nitrogen	TOTAL FLOW (MILLION GALLONS)	
																		GAL/DAY X 1000	MLSS X1000					GAL/DAY X 1000	30 MIN.	60 MIN.	GALLONS X 1000	% DRY SOLIDS	% VOLATILE SOLIDS						% DRY SOLIDS
1	2.284	2.48	2.48	7.1														0.81	6840	52000	2.5	2180	1810	350		2.40				56700					2.40372
2	2.341	2.48	2.48	7.1														0.80	4110	45000	3.8	2230	1880	350		2.50				0					2.5033
3	2.381	2.48	2.48	7.2							202		3	244		2	0.80	4710	45000	3.4	2210	1950	350		2.54				0	0.30	1.90		16	2.54472	
4	2.379	2.48	2.48	7.0	7.0				6.2								0.82	6780	55000	3.1	2270	1890	350		2.42			1.56		73800				8	2.42285
5	3.989	2.48	2.48	6.9													0.76	8110	45000	2.7	2250	1900	360		4.04				31500					4.03993	
6	3.198	2.48	2.48	6.9													0.85	7990	45000	4.0	2210	1770	360		3.42				37800					3.41712	
7	2.872	2.48	2.48	7.0													0.82	6020	50000	3.9	2390	1910	350		3.02				67500					3.01967	
8	2.641	2.48	2.48	6.9													0.80	7240	50000	4.4	2150	1850	400		2.77				31500					2.76966	
9	2.670	2.48	2.48														0.82		40000	4.0			380		2.75				0					2.75359	
10	2.640	2.48	2.48								230		3	200		3	0.79		40000	3.8			400		2.76				0	0.30	2.10		14.84	2.76365	
11	2.550	2.48	2.48	7.1	6.6				9.4								0.84	5580	50000	4.0	2250	1920	350		2.82			1.54		31500				51	2.8239
12	2.506	2.48	2.48	7.0													0.84	5600	50000	3.6	2180	1850	340		2.67				93000					2.6784	
13	2.520	2.48	2.48	7.0													0.86	5890	50000	3.8	2190	1750	340		2.55				61500					2.5513	
14	2.406	2.48	2.48	6.9													0.80	6680	50000	3.5	2300	1910	380		2.53				48900					2.53019	
15	2.380	2.48	2.48	7.0													0.79	6020	50000	3.7	2370	2030	400		2.45				55200					2.45251	
16	2.438	2.48	2.48														0.82		40000	3.6			410		2.56				0					2.56002	
17	2.542	2.48	2.48								262		3	228		2	0.80		40000	3.1			410		2.55				0	0.30	2.50		15.15	2.55236	
18	2.530	2.48	2.48	7.2	7.0				8.4								0.79	7480	50000	3.0	2490	2070	350		2.49			1.26		54600				30	2.49349
19	2.389	2.48	2.48	7.1													0.79	6430	50000	2.6	2390	2070	400		2.43				61500					2.42535	
20	2.152	2.48	2.48	7.1													0.74	6300	50000	3.2	2560	2160	400		2.44				60000					2.43669	
21	2.555	2.48	2.48	7.0													0.78	6350	50000	4.5	2520	2080	400		2.43				60000					2.43445	
22	2.485	2.48	2.48	6.9													0.56	6080	50000	4.2	2520	2080	380		2.45				61500					2.44887	
23	6.075	2.48	2.48	7.0													2.68		40000	4.5			360		6.74				0					6.73996	
24	4.664	2.48	2.48														2.44		40000	4.2			350		4.89				0					4.88921	
25	3.490	2.48	2.48														2.02		40000	5.0			350		3.67				0					3.69979	
26	3.248	2.48	2.48	7.1	6.6				9.0		179		3	200		3	1.79	6370	40000	4.7	2140	1980	350		3.37			1.65		37800	0.30	0.20		8.59	3.36687
27	3.301	2.48	2.48	7.0													1.35	5100	50000	7.5	2760	2360	450		3.13				31500					16	3.13175
28	3.081	2.48	2.48	7.0													0.90	7640	50000	3.8	2210	1970	310		2.98				44100					2.98371	
29	2.722	2.48	2.48	7.0													0.89	7240	50000	3.0	2450	1930	400		2.84				109400					2.8353	
30	2.666	2.48	2.48														0.86		40000	3.2			360		2.79				0					2.78618	
31	2.636	2.48	2.48														0.86		40000	3.4			350		2.78				0					2.77655	
Tot.	88.73	76.88	76.88														31.2																		91.92
Avg.	2.862	2.48	2.48	7.0	6.8				8.8		218		3	218		3	1.007	6389	46354.8	3.797	2326	1960	370.6		2.9636			1.503		35783.871	0.30	1.68	21	13.65	2.965

RESIDENTIAL
 COMMERCIAL
 INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT
 FLOW 27260
 CBOD 30612
 TSS 24810

Randolph P. Kustes Jr.
 OPERATOR
 14555
 CERT. NO.

TOTAL NUMBER OF SEWER CONNECTIONS 0
 SEWER CONNECTIONS 0 X 4 = 0 SEWERED POPULATION

502-540-6000
 PLANT TELEPHONE