



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

March 14, 2017

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

**RE: Floyds Fork WQTC, KPDES No: KY0102784  
Discharge Monitoring Report, February 2017**

Dear Ms. Edwards:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operating Report (MOR) for the Floyds Fork WQTC for the month of February 2017.

There were no exceedances, bypass or overflow reports for the month of February.

If you have any questions concerning the attached DMR's, please contact me at (502) 239-7574.

Sincerely,

John Kessel  
Treatment Supervisor

JK/Floyds Fork 02/17

Enclosures

cc: V. Graves  
R. Shaw

**DMR Copy of Record**

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

<b>Report Dates &amp; Status</b>			
<b>Monitoring Period:</b>	<b>From 02/01/17 to 02/28/17</b>	<b>DMR Due Date:</b>	<b>03/28/17</b>
<b>Status:</b>	<b>NetDMR Validated</b>		

**Considerations for Form Completion**

<b>Principal Executive Officer</b>			
<b>First Name:</b>	James A.	<b>Title:</b>	Exec Director
<b>Last Name:</b>	Parrott	<b>Telephone:</b>	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					=	9					19 - mg/L	01/01 - Daily	GR - GRAB				
					Permit Req.					>=	7 INST MIN					19 - mg/L	01/07 - Weekly	GR - GRAB				
					Value NODI																	
00400	pH	1 - Effluent Gross	0	--	Sample					=	6.9			=	7.8	12 - SU	01/01 - Daily	GR - GRAB				
					Permit Req.					>=	6 MINIMUM			<=	9 MAXIMUM	12 - SU	01/07 - Weekly	GR - GRAB				
					Value NODI																	
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	67	=	77	26 - lb/d			=	3	=	4	19 - mg/L	03/07 - Three Per Week	CP - COMPOS			
					Permit Req.	<=	1626 MO AVG	<=	2439 MX WK AV	26 - lb/d			<=	30 MO AVG	<=	45 MX WK AV	19 - mg/L	01/07 - Weekly	24 - COMP24			
					Value NODI																	
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample							=	492	=	574	19 - mg/L	03/07 - Three Per Week	CP - COMPOS				
					Permit Req.																	
					Value NODI																	
00600	Nitrogen, total [as N]	1 - Effluent Gross	0	--	Sample							=	10	=	11	19 - mg/L	01/07 - Weekly	CP - COMPOS				
					Permit Req.																	
					Value NODI																	
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	2	--	Sample	=	6	=	8	26 - lb/d			=	0.3	=	0.4	19 - mg/L	03/07 - Three Per Week	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	01/07 - Weekly	24 - COMP24			
					Value NODI																	
00665	Phosphorus, total [as P]	1 - Effluent Gross	0	--	Sample	=	7.7	=	8.4	26 - lb/d			=	0.4	=	0.4	19 - mg/L	03/07 - Three Per Week	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	01/07 - Weekly	24 - COMP24			
					Value NODI																	
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	2.58	=	2.76	03 - MGD								99/99 - Continuous	CN - CONTIN			
					Permit Req.																	
					Value NODI																	
50050	Flow, in conduit or thru treatment plant	G - Raw Sewage Influent	0	--	Sample	=	2.71	=	2.87	03 - MGD								99/99 - Continuous	CN - CONTIN			
					Permit Req.																	
					Value NODI																	
51040	E. coli	1 - Effluent Gross	0	--	Sample							=	1	=	1	13 - #/100mL	03/07 - Three Per Week	GR - GRAB				
					Permit Req.											<=	130 30DA GEO	<=	240 7 DA GEO	13 - #/100mL	01/07 - Weekly	GR - GRAB
					Value NODI																	
80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0	--	Sample	=	60	=	64	26 - lb/d			=	3	=	3	19 - mg/L	03/07 - Three Per Week	CP - COMPOS			
					Permit Req.	<=	325 MO AVG	<=	488 MX WK AV	26 - lb/d			<=	6 MO AVG	<=	9 MX WK AV	19 - mg/L	01/07 - Weekly	24 - COMP24			
					Value NODI																	
80082	BOD, carbonaceous [5 day, 20 C]	G - Raw Sewage Influent	0	--	Sample							=	436	=	465	19 - mg/L	03/07 - Three Per Week	CP - COMPOS				
					Permit Req.																	
					Value NODI																	
80091	BOD, carb-5 day, 20 deg C, percent removal	K - Percent Removal	0	--	Sample							=	99			23 - %	01/30 - Monthly	CA - CALCTD				
					Permit Req.																	
					Value NODI																	
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample							=	99			23 - %	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
FFMOR022017.xls	xls	346112
FF_cover_022017.pdf	pdf	136954
Report Last Saved By		
<b>Floyds Fork WQTC MSD</b>		
User: kessel@louisvillemsd.org	Date/Time:	2017-03-20 13:42 (Time Zone: -04:00)
Name: John Kessel		
E-Mail: kessel@louisvillemsd.org		

NAME OF TREATMENT PLANT FLOYDS FORK COUNTY JEFFERSON MONTH OF: February 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		WAST. ED	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	% VOLATILE SOLIDS					
1	2.401	2.48	2.48	7.2	7.4				9.9		536		3	462		3	0.54	2130	37000	6.7	2130	1900	200		2.40					55000	0.30	0.20		11.13	2.60108	
2	2.301	2.48	2.48	7.3	7.6				9.2		608		3	455		3	0.54	2040	55000	4.7	2040	1700	210		2.30					49500	0.30	0.20	1		2.58148	
3	2.256	2.48	2.48	7.4	7.5				9.7								0.65	2030	46000	4.8	2030	1730	210		2.48					43500			1		2.48303	
4	2.376	2.48	2.48	6.8	6.9				9.4								0.48	2340	54000	4.7	2340	1970	200		2.62					12600					2.62265	
5	2.495	2.48	2.48	6.9	7.3				9.3		426		3	479		3	0.42	1900	38000	4.7	1900	1600	200		2.71				0	0.30	0.80			2.71158		
6	2.397	2.48	2.48	7.1	7.4				9.6								5.69	2030	42000	3.6	2030	1810	200		2.52					31500			1		2.52158	
7	3.100	2.48	2.48	7.0	7.4				9.4								0.69	2040	48000	3.1	2040	1850	200		3.12					55500					3.1191	
8	3.153	2.48	2.48	7.3	7.7				10.0		240		3	394		3	5.38	1910	37000	7.4	1910	1720	200		3.29				1.78	87000	0.30	0.20		10.01	3.29421	
9	2.839	2.48	2.48	7.3	7.5				10.0		412		3	264		2	0.78	2080	42000	6.6	2080	1810	200		3.11					87000	0.30	0.20	1		3.11081	
10	2.634	2.48	2.48	7.5	7.7				9.8								0.76	2020	50000	7.3	2020	1800	200		2.85					68400			1		2.85134	
11	2.716	2.48	2.48	7.3	7.5				9.5								0.73	1970	40000	6.4	1970	1780	240		2.87				0					2.87437		
12	2.674	2.48	2.48	7.4	7.3				9.3		324		3	436		3	0.70	2140	40000	3.6	2140	1940	240		2.80				0	0.46	0.20			2.79611		
13	2.446	2.48	2.48	7.2	7.7				10.0								0.71	2000	47000	7.4	2000	1780	210		2.65					49500			1		2.64937	
14	2.483	2.48	2.48	7.2	7.5				9.7								0.70	1990	54000	4.2	1990	1780	210		2.57					87000					2.569	
15	2.372	2.48	2.48	7.2	7.5				9.5		391		3	429		3	0.68	1950	54000	3.9	1950	1710	220		2.57				1.18	93000	0.43	0.20		10.13	2.57332	
16	2.343	2.48	2.48	7.2	7.5				9.5		608		3	417		3	0.66	1890	42000	4.2	1890	1670	220		2.49					105000	0.49	0.29	1		2.49037	
17	2.264	2.48	2.48	7.3	7.4				9.1								0.70	2000	58000	4.1	2000	1760	210		2.10					81000			1		2.40482	
18	2.447	2.48	2.48	7.2	7.5				9.7								0.60	2070	40000	4.1	2070	1690	220		2.48				0					2.48325		
19	2.485	2.48	2.48	7.4	7.5				9.3		640		3	508		3	0.58	1930	40000	4.7	1930	1760	210		2.55				1.12	0	0.36	0.20			2.55533	
20	2.335	2.48	2.48	7.2	7.5				9.7								0.67	2010	55000	4.6	2010	1820	230		2.43					49800			1		2.43176	
21	2.314	2.48	2.48	7.2	7.7				9.3								0.63	2060	52000	4.2	2060	1720	230		2.34					87000					2.34269	
22	2.250	2.48	2.48	7.3	7.6				9.5		788		3	501		3	0.65	2000	44000	5.4	2000	1690	230		2.32					62000	0.47	0.20		10.53	2.31717	
23	2.331	2.48	2.48	7.3	7.6				9.3		708		3	433		3	0.66	2010	56000	4.6	2010	1730	220		2.40				0	0.40	0.36	1		2.40739		
24	2.526	2.48	2.48	7.3	7.6				9.7								0.50	2010	61000	4.8	2010	1720	220		2.56					0			1		2.55544	
25	3.374	2.48	2.48	7.3	7.5				9.4								0.85	2000	40000	4.9	2000	1700	220		3.52					63000					3.51909	
26	2.788	2.48	2.48	7.5	7.6				9.8		226		5	448		2	0.62	2000	40000	5.8	2000	1770	200		3.02				0	0.30	0.34			3.0216		
27	2.721	2.48	2.48	7.2	7.8				9.8								0.76	2190	52000	5.1	2190	1770	220		2.77				0				1		2.76704	
28	3.350	2.48	2.48	7.4	7.7				9.3								0.68	2010	52000	5.4	2010	1720	240		3.32					76					3.32525	
29																																				
30																																				
31																																				
Tot.	72.17	69.44	69.44														27.99																			
Avg.	2.578	2.48	2.48	7.2	7.5				9.6		492		3	436		3	1	2027	47000	5.036	2027	1764	214.6		2.685				1.425	41692.011	0.37	0.28	1	10.45	2.714	

RESIDENTIAL COMMERCIAL INDUSTRIAL                       
 INDUSTRIAL WASTE POPULATION EQUIVALENT  
24549 FLOW      55072 CBOD      50392 TSS      Randolph P. Kustes Jr. OPERATOR      14555 CERT. NO.

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

502-540-6000  
 PLANT TELEPHONE