



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

April 17, 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, March 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 March 2017.

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

Also included are the 1<sup>st</sup> Qtr Bio Monitoring DMR.

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 03/17

Enclosures

cc: V. Graves  
R. Shaw

# DMR Copy of Record

<b>Permit</b>			
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

<b>Report Dates &amp; Status</b>			
Monitoring Period:	From 03/01/17 to 03/31/17	DMR Due Date:	04/28/17
Status:	NetDMR Validated		

**Considerations for Form Completion**

<b>Principal Executive Officer</b>			
First Name:	James A.	Title:	Exec 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	01/01 - Daily	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	=	7.2					=	8			12 - SU	0	01/01 - Daily	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	=	107	=	141	26 - lb/d		=	4	=	5	19 - mg/L	1	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	1	01/07 - Weekly	24 - COMP24	
					Value NODI															
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample						=	454	=	611	19 - mg/L	0	03/07 - Three Per Week	CP - COMPOS		
					Permit Req.							Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L	0	01/07 - Weekly	24 - COMP24		
					Value NODI															
00600	Nitrogen, total [as N]	1 - Effluent Gross	0	--	Sample						=	10	=	12	19 - mg/L	0	01/07 - Weekly	CP - COMPOS		
					Permit Req.							Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L	0	01/07 - Weekly	24 - COMP24		
					Value NODI															
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	2	--	Sample	=	19	=	47	26 - lb/d		=	0.5	=	0.8	19 - mg/L	1	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	1	01/07 - Weekly	24 - COMP24	
					Value NODI															
00665	Phosphorus, total [as P]	1 - Effluent Gross	0	--	Sample	=	10.4	=	14.2	26 - lb/d		=	0.4	=	0.4	19 - mg/L	1	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	1	01/07 - Weekly	24 - COMP24	
					Value NODI															
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	3.3	=	7.52	03 - MGD							0	99/99 - Continuous	CN - CONTIN	
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	03 - MGD								0	99/99 - Continuous	RE - Record (manual)
					Value NODI															
50050	Flow, in conduit or thru treatment plant	G - Raw Sewage Influent	0	--	Sample	=	3.408	=	4.714	03 - MGD							0	99/99 - Continuous	CN - CONTIN	
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	03 - MGD								0	99/99 - Continuous	RE - Record (manual)
					Value NODI															
51040	E. coli	1 - Effluent Gross	0	--	Sample						=	1	=	2	13 - #/100mL	0	03/07 - Three Per Week	GR - GRAB		
					Permit Req.							<=	130 30DA GEO	<=	240 7 DA GEO	13 - #/100mL	0	01/07 - Weekly	GR - GRAB	
					Value NODI															
80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0	--	Sample	=	111	=	133	26 - lb/d		=	4	=	5	19 - mg/L	1	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	1	01/07 - Weekly	24 - COMP24	
					Value NODI															
80082	BOD, carbonaceous [5 day, 20 C]	G - Raw Sewage Influent	0	--	Sample						=	344	=	423	19 - mg/L	0	03/07 - Three Per Week	CP - COMPOS		
					Permit Req.							Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L	0	01/07 - Weekly	24 - COMP24		
					Value NODI															
80091	BOD, carb-5 day, 20 deg C, percent removal	K - Percent Removal	0	--	Sample						=	99			23 - %	1	01/30 - Monthly	CA - CALCTD		
					Permit Req.							>=	85 MO AV MN			23 - %	1	01/30 - Monthly	CA - CALCTD	
					Value NODI															
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample						=	99			23 - %	1	01/30 - Monthly	CA - CALCTD		
					Permit Req.							>=	85 MO AV MN			23 - %	1	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
FF_MOR_032017.xls	xls	346624
FF_Cover_032017.pdf	pdf	35137

**Report Last Saved By**

**Floyds Fork WQTC MSD**

User: kessel@louisvillemtd.org | Date/Time: 2017-04-21 12:25 (Time Zone: -04:00)  
Name: John Kessel  
E-Mail: kessel@louisvillemtd.org

## 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 01/01/17 to 03/31/17			DMR Due Date:	04/28/17				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:	Jame A.			Title:	Exec 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																			
No attachments.																			
Report Last Saved By																			
Floyds Fork WQTC MSD																			
User:	kessel@louisvillemsd.org				Date/Time:	2017-04-21 12:26 (Time Zone: -04:00)													
Name:	John Kessel																		
E-Mail:	kessel@louisvillemsd.org																		

NAME OF TREATMENT PLANT FLOYDS FORK COUNTY JEFFERSON MONTH OF: March 2017  
 KPDES PERMIT NUMBER KY0102784 PLANT CAPACITY 3.5 MGD RECEIVING STREAM FLOYDS FORK

DATE	TOTAL FLOW (MILLION GALLONS)	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 Nitrogen	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	GAL/DAY X 1000	MLSS X 1000	GAL/DAY X 1000	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					
																									30 MIN.	60 MIN.	% DRY SOLIDS	% VOLATILE SOLIDS	% DRY SOLIDS	% VOLATILE SOLIDS WITHDRAWN GALLONS X 1000								
																																				GALLONS X 1000	% DRY SOLIDS	
1	7.52	2.48	2.48	7.2	7.4				8.3			238		3	172		3	2.370	5940	53000	4.8	1920	1540	220		8.82			1.61			0.30	2.00			7.24	8.81608	
2	6.25	2.48	2.48	7.1	7.4				8.5			260		3	182		2	0.788	7470	48000	4.3	2290	1810	210		5.97					0.30	0.20			2	5.97106		
3	3.87	2.48	2.48	7.1	7.2				10.0									0.649	6090	58000	6.6	2210	1610	200		4.08									2	4.08136		
4	3.36	2.48	2.48	7.2	7.2				9.1									0.744	6110	40000	5.9	2050	1500	200		3.60											3.59859	
5	3.16	2.48	2.48	7.2	7.3				8.9			288		3	319		4	0.600	6120	40000	6.1	2010	1580	200		3.38					0.31	0.22					3.38285	
6	3.24	2.48	2.48	7.3	7.4				9.3									0.592	5660	55000	5.9	1920	1410	190		3.19								2		3.19108		
7	4.06	2.48	2.48	7.4	7.5				10.0									0.560	7690	42000	6.0	1970	1630	200		3.96											3.95687	
8	3.84	2.48	2.48	7.3	7.8				9.3			740		3	487		4	0.543	6860	47000	7.1	1960	1620	200		4.04			1.84		0.34	0.17		9.55		4.04658		
9	3.27	2.48	2.48	7.3	7.7				9.5			462		4	301		3	0.560	6070	54000	8.2	2010	1690	200		3.47					0.32	0.11	1				3.47273	
10	2.92	2.48	2.48	7.3	7.7				9.3									0.616	7810	43000	8.0	2050	1660	200		3.24								1			3.14026	
11	2.90	2.48	2.48	7.2	7.9				9.4									0.532	5550	40000	7.3	1890	1520	200		3.07											3.06891	
12	2.80	2.48	2.48	7.2	8.0				10.0			408		3	439		4	0.525	6300	40000	6.7	1890	1610	200		3.00					0.48	0.20					3.00289	
13	2.83	2.48	2.48	7.4	7.9				10.0									0.549	7760	37000	6.9	1760	1260	200		2.79								1				2.78986
14	2.62	2.48	2.48	7.5	7.7				10.0									0.532	6500	52000	5.5	2050	1710	200		2.71											2.70632	
15	2.50	2.48	2.48	7.4	7.7				9.9			386		3	318		4	0.541	6350	52000	3.8	2030	1730	200		2.63					0.42	0.20		11.6			2.63279	
16	2.33	2.48	2.48	7.4	7.4				10.0			360		4	247		3	0.557	6380	51000	4.3	2000	1680	200		2.80			1.54		0.40	0.20	1				2.79457	
17	2.67	2.48	2.48	7.4	7.4				9.4									0.738	5200	70000	4.3	2210	1660	200		2.58								1			2.58024	
18	2.60	2.48	2.48	7.2	7.5				9.3									0.814	4550	40000	3.3	1870	1570	200		2.66											2.66459	
19	2.59	2.48	2.48	7.1	7.3				9.7			468		3	390		5	0.745	4720	40000	3.4	2090	1730	200		2.70						0.41					2.69888	
20	2.47	2.48	2.48	7.2	7.4				9.1									0.705	5620	59000	3.4	2010	1870	200		2.51								1				2.50967
21	2.45	2.48	2.48	7.2	7.2				9.2									0.684	5700	57000	3.2	2000	1600	200		2.48											2.47502	
22	2.34	2.48	2.48	7.2	7.7				9.1			802		6	548		4	0.707	6120	55000	3.5	2040	1710	200		2.44			1.4		0.31	0.48		9.9			2.44056	
23	2.37	2.48	2.48	7.3	7.7				9.2			580		4	343		5	0.646	6000	55000	3.2	2000	1680	200		2.43					0.30	0.20	1				2.42768	
24	2.31	2.48	2.48	7.2	7.3				9.3									0.638	6900	48000	3.1	2010	1700	200		2.35								1			2.35303	
25	2.50	2.48	2.48	7.3	7.4				9.2									0.667	6590	40000	4.0	2020	1650	200		2.54											2.53865	
26	3.59	2.48	2.48	7.3	7.4				9.3			450		6	378		7	0.565	5660	40000	3.8	2120	1700	210		3.56					0.41	1.50					3.56166	
27	3.33	2.48	2.48	7.1	7.6				8.3									1.200	6060	54000	2.6	2000	1670	200		3.73								3			3.73254	
28	5.02	2.48	2.48	7.3	7.3				9.6									0.231	5960	50000	6.2	2450	1960	210		4.68											4.67946	
29	3.82	2.48	2.48	7.2	7.5				9.8									0.778	7210	45000	9.0	1990	1590	180		3.59											3.59288	
30	3.19	2.48	2.48	7.3	7.4				9.0									0.713	7210	45000	4.9	2010	1700	190		3.18											3.17741	
31	3.63	2.48	2.48	7.2	7.5				9.0									0.813	6040	55000	5.1	2230	1820	200		3.56											3.56368	
Tot.	102.33	76.88	76.88															21.902								105.742											105.65	
Avg.	3.301	2.48	2.48	7.3	7.5				9.4			454		4	344		4	0.70652	6264.5	48548.39	5.174	2034	1651	200.3		3.41103			1.598		0.35	0.49	1	9.573		3.408		

RESIDENTIAL  
 COMMERCIAL  
 INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT  
 31437 FLOW  
 55652 CBOD  
 59450 TSS

Randolph P. Kustes Jr  
 OPERATOR  
 502-540-6000

14555  
 CERT. NO.

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

PLANT TELEPHONE