



Louisville and Jefferson County Metropolitan Sewer District  
700 West Liberty Street  
Louisville Kentucky 40203-1911  
502-540-6000  
[www.msdlouky.org](http://www.msdlouky.org)

January 15, 2015

Cheryl Edwards  
DMR Coordinator  
200 Fair Oaks Lane  
Frankfort, Kentucky 40601

**RE: Floyds Fork WQTC, KPDES No: KY0102784  
Discharge Monitoring Report for December of 2014**

Dear Ms. Edwards:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operator Report (MOR) for the Floyds Fork WQTC for the month of December 2014.

There were no exceedences, bypasses or overflow reports for the month of December.

Also included are the fourth quarter bio-monitoring reports.

If you have any questions concerning the attached DMR's, please contact me at (502) 587-5832

Sincerely,

A handwritten signature in black ink, appearing to read "JK", is written over a large, stylized, circular graphic element.

John Kessel  
Process Supervisor, West region

JK/ Floyds Fork 12/14

Enclosures

cc: T. Singleton  
R. Shaw  
C. Roth



*Beneficial Use of Louisville's Biosolids*  
[www.louisvillegreen.com](http://www.louisvillegreen.com)

# DMR Copy of Record

<b>Permit</b>			
Permit #:	KY0102784	Permittee:	FLOYDS FORK WQTC MSD
Major:	Yes	Permittee Address:	1100 BLUE HERRON RD LOUISVILLE, KY 40245
Permitted Feature:	001 External Outfall	Discharge:	001-1 MUNICIPAL DISCHARGE
Facility:		Facility Location:	FLOYDS FORK WQTC MSD 1100 BLUE HERRON RD LOUISVILLE, KY 40245

<b>Report Dates &amp; Status</b>			
Monitoring Period:	From 12/01/14 to 12/31/14	DMR Due Date:	01/28/15
Status:	NetDMR Validated		

<b>Principal Executive Officer</b>			
First Name:	Greg	Title:	Exec Director
Last Name:	Hetizman	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 03/07 - Three Per Week	GR - GRAB GR - GRAB
					Permit Req.	>=	7 INST MIN									19 - mg/L			
					Value NODI														
00400	pH	1 - Effluent Gross	0	--	Sample	=	6.4				=	8			12 - SU	0	01/01 - Daily 03/07 - Three Per Week	GR - GRAB GR - GRAB	
					Permit Req.	>=	6 MINIMUM			<=	9 MAXIMUM				12 - SU				
					Value NODI														
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	43	=	61	26 - lb/d	=	2	=	2	19 - mg/L	0	03/07 - Three Per Week 03/07 - Three Per Week	CP - COMPOS CP - COMPOS	
					Permit Req.	<=	813 MO AVG	<=	1220 MX WK AV	26 - lb/d	<=	30 MO AVG	<=	45 MX WK AV	19 - mg/L				
					Value NODI														
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample	=	14222	=	21623	26 - lb/d	=	556	=	710	19 - mg/L	0	03/07 - Three Per Week 03/07 - Three Per Week	CP - COMPOS CP - COMPOS	
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	26 - lb/d		Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L				
					Value NODI														
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	2	--	Sample	=	11	=	15	26 - lb/d	=	0.5	=	0.5	19 - mg/L	0	03/07 - Three Per Week 03/07 - Three Per Week	CP - COMPOS CP - COMPOS	
					Permit Req.	<=	136 MO AVG	<=	203 MX WK AV	26 - lb/d	<=	5 MO AVG	<=	7.5 MX WK AV	19 - mg/L				
					Value NODI														
00610	Nitrogen, ammonia total [as N]	G - Raw Sewage Influent	0	--	Sample	=	466	=	508	26 - lb/d	=	19	=	25	19 - mg/L	0	03/07 - Three Per Week 03/07 - Three Per Week	CP - COMPOS CP - COMPOS	
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	26 - lb/d		Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L				
					Value NODI														
00665	Phosphorus, total [as P]	1 - Effluent Gross	0	--	Sample	=		=			=	0.3	=	0.4	19 - mg/L	0	03/07 - Three Per Week 03/07 - Three Per Week	CP - COMPOS CP - COMPOS	
					Permit Req.					<=	1 MO AVG	<=	1.5 MX WK AV	19 - mg/L					
					Value NODI														
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	3.01	=	6.72	03 - MGD						0	99/99 - Continuous 99/99 - Continuous	CN - CONTIN CN - CONTIN	
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD									
					Value NODI														
74055	Coliform, fecal general	1 - Effluent Gross	0	--	Sample	=		=			=	2	=	2	13 - #/100mL	0	03/07 - Three Per Week 03/07 - Three Per Week	GR - GRAB GR - GRAB	
					Permit Req.					<=	200 30DA GEO	<=	400 7 DA GEO	13 - #/100mL					
					Value NODI														
80082	BOD, carbonaceous, 05 day, 20 C	1 - Effluent Gross	0	--	Sample	=	75	=	92	26 - lb/d	=	3	=	3	19 - mg/L	0	03/07 - Three Per Week 03/07 - Three Per Week	CP - COMPOS CP - COMPOS	
					Permit Req.	<=	271 MO AVG	<=	407 MX WK AV	26 - lb/d	<=	10 MO AVG	<=	15 MX WK AV	19 - mg/L				
					Value NODI														
80082	BOD, carbonaceous, 05 day, 20 C	G - Raw Sewage Influent	0	--	Sample	=	7792	=	13298	26 - lb/d	=	303	=	437	19 - mg/L	0	03/07 - Three Per Week 03/07 - Three Per Week	CP - COMPOS CP - COMPOS	
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	26 - lb/d		Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L				
					Value NODI														
80091	BOD, carb-5 day, 20 deg C, percent removal	K - Percent Removal	0	--	Sample	=	99								23 - %	0	01/30 - Monthly 01/30 - Monthly	CA - CALCTD CA - CALCTD	
					Permit Req.	>=	85 MO MIN							23 - %					
					Value NODI														
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample	=	100								23 - %	0	01/30 - Monthly 01/30 - Monthly	CA - CALCTD CA - CALCTD	
					Permit Req.	>=	85 MO MIN							23 - %					
					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_Cover_1220114.pdf	pdf	16497
FF122014_MOR.pdf	pdf	63997

**Report Last Saved By**

**FLOYDS FORK WQTC MSD**

User: kevin.ries@louisvillemsd.org	Date/Time: 2015-01-22 11:05 (Time Zone: -05:00)
Name: Kevin Ries	
E-Mail: kevin.ries@louisvillemsd.org	

**DMR Copy of Record**

<b>Permit</b>					
Permit #:	KY0102784	Permittee:	FLOYDS FORK WQTC MSD	Facility:	FLOYDS FORK WQTC MSD
Major:	Yes	Permittee Address:	1100 BLUE HERRON RD LOUISVILLE, KY 40245	Facility Location:	1100 BLUE HERRON RD LOUISVILLE, KY 40245
Permitted Feature:	001 External Outfall	Discharge:	001-Y QUARTERLY METALS/BIOMONITORING		

<b>Report Dates &amp; Status</b>					
Monitoring Period:	From 10/01/14 to 12/31/14	DMR Due Date:	01/28/15	Status:	NetDMR Validated

**Considerations for Form Completion**

<b>Principal Executive Officer</b>					
First Name:	Greg	Title:	Exec Director	Telephone:	502-540-6000
Last Name:	Hetizman				

**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
00900	Hardness, total [as CaCO3]	1 - Effluent Gross	0	--	Sample						=	263	=	263	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS
					Permit Req.												01/30 - Monthly	CP - COMPOS
					Value NODI													
01094	Zinc, total recoverable	1 - Effluent Gross	0	--	Sample						=	0.02	=	0.02	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS
					Permit Req.												01/90 - Quarterly	CP - COMPOS
					Value NODI													
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.001	<	0.001	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS
					Permit Req.												01/90 - Quarterly	CP - COMPOS
					Value NODI													
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.05	<	0.05	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS
					Permit Req.												01/30 - Monthly	CP - COMPOS
					Value NODI													
01119	Copper, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.001	<	0.001	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS
					Permit Req.												01/90 - Quarterly	CP - COMPOS
					Value NODI													
61406	Toxicity, final conc toxicity units	1 - Effluent Gross	0	--	Sample								<	1	2G - tox chronic	0	01/90 - Quarterly	CP - COMPOS
					Permit Req.								<=	1 DAILY MX	2G - tox chronic		01/90 - Quarterly	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**  
FLOYDS FORK WQTC MSD

User:	kevin.ries@louisvillemtd.org	Date/Time:	2015-01-22 11:03 (Time Zone: -05:00)
Name:	Kevin Ries		
E-Mail:	kevin.ries@louisvillemtd.org		

NAME OF TREATMENT PLANT FLOYDS FORK COUNTY JEFFERSON MONTH OF: December 2014  
 KPDES PERMIT NUMBER KY0102784 PLANT CAPACITY 3.5 MGD RECEIVING STREAM FLOYDS FORK

DATE	TOTAL FLOW (MILLION GALLONS)	RAW SEWAGE		pH		SETTLEABLE SOLIDS (mg/L)			DISSOLVED OXYGEN (mg/L)			SUSPENDED SOLIDS (mg/L)			5 DAY CBOD (mg/L)			ACTIVATED SLUDGE			AERATION BASIN				SLUDGE HANDLING					FINAL			
		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 WASTED X 1000	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)	FECAL COLIFORM (COLONIES/100ML)
																								30 MIN.	60 MIN.	GALLONS X 1000	% DRY SOLIDS	% VOLATILE SOLIDS	% DRY SOLIDS	% VOLATILE SOLIDS			
1	3.219	2.48	2.48	7.3	7.1				8.5		482	2	216		3	0.88	7740	45000	3.1	2670	2220	300		3.01				0	0.11	0.28			
2	3.366	2.48	2.48	7.4	7.4				8.4		534	1	257		3	0.94	7860	45000	6.9	2600	2290	270		3.183				18900	0.11	0.56	3		
3	2.880	2.48	2.48	7.6	7.5				8.7		484	1	210		3	0.86	6730	50000	7.3	2570	2220	300		2.735			1.6	63000	0.14	0.56	2		
4	2.805	2.48	2.48	7.4	7.6				8.8							0.92	6190	50000	4.5	2490	2190	300		2.639				63000			2		
5	3.663	2.48	2.48	7.3	7.7				8.6							1.21	8210	45000	2.9	2470	2130	290		3.488				88200					
6	6.716	2.48	2.48	7.3	7.6				8.1							3.80	6290	40000	2.0	2290	1980	300		8.631				18600					
7	4.359	2.48	2.48	7.5	7.7				8.7							3.48	4770	55000	7.2	2510	2160	300		4.459				0					
8	4.094	2.48	2.48	7.5	7.7				8.5		692	2	390		3	1.80	6210	50000	7.0	2450	1960	300		3.369				0	0.27	0.34			
9	3.582	2.48	2.48	7.5	7.6				8.8		685	2	491		3	1.31	7100	50000	6.5	2600	2290	280		2.908			1.147	69300	0.57	0.62	2		
10	3.313	2.48	2.48	7.2	6.4				8.4		752	2	431		3	0.92	7300	50000	5.4	2490	2150	290		2.698				81600	0.33	0.50	2		
11	2.576	2.48	2.48	7.3	7.7				8.6							0.79	7690	50000	5.6	2690	2280	280		2.492				75600			2		
12	2.421	2.48	2.48	7.3	7.6				8.5							0.75	8580	50000	5.5	2460	2120	290		2.464				63000					
13	2.511	2.48	2.48	7.4	7.6				8.6							0.90	8290	40000	4.2	2590	2080	290		2.403				0					
14	2.543	2.48	2.48	7.4	7.6				8.5							0.88	8170	40000	2.8	2580	2090	290		2.395				0					
15	2.517	2.48	2.48	7.0	7.6				8.3		748	1	453		3	0.96	6480	50000	4.1	2500	2010	300		2.297				0	0.40	0.50			
16	2.490	2.48	2.48	7.1	7.8				8.8		224	2	166		3	0.92	6280	50000	4.8	2490	2160	290		2.303			1.503	12000	0.43	0.50	2		
17	2.412	2.48	2.48	7.1	7.7				8.9		396	1	178		3	0.87	8160	50000	5.8	2400	2090	300		2.294				63000	0.51	0.34	2		
18	2.361	2.48	2.48	7.2	7.8				8.8							0.87	7070	50000	4.6	2500	2170	270		2.237				94500			2		
19	2.265	2.48	2.48	7.1	7.9				8.6							0.82	7380	50000	4.0	2400	2060	270		2.19				99300					
20	2.382	2.48	2.48	7.2	7.8				8.8							0.83	7070	40000	3.8	2360	1990	250		2.269				0					
21	2.329	2.48	2.48	7.1	7.7				8.7							0.79	8680	40000	3.0	2330	2110	250		2.22				0					
22	2.370	2.48	2.48	7.2	7.8				8.6		716	2	362		3	0.85	7110	50000	2.9	2440	2120	250		2.21				0	0.16	0.39			
23	2.994	2.48	2.48	7.2	7.8				8.8		556	2	223		3	0.94	7190	50000	3.9	2400	2100	250		2.847			1.54	68400	0.13	0.34	2		
24	3.097	2.48	2.48	7.1	7.8				8.9							1.20	5140	50000	4.5	2530	2210	270		2.997				90500			2		
25	2.961	2.48	2.48	7.2	7.8				8.7		400	2	255		3	0.78	9330	50000	5.2	2710	2280	280		2.927				37800	0.12	0.50			
26	2.685	2.48	2.48	7.2	7.8				8.9							0.92	5470	50000	5.7	2500	2150	260		2.661				48000			3		
27	2.722	2.48	2.48	7.3	7.8				8.8							0.90	5640	40000	6.0	2620	2280	260		2.585				0					
28	3.379	2.48	2.48	7.2	7.8				8.6							0.92	5910	40000	3.2	2600	2210	260		3.33				0					
29	3.072	2.48	2.48	7.3	7.8				8.5							0.84	8460	50000	4.5	2600	2270	250		2.943				0					
30	2.740	2.48	2.48	7.5	8.0				8.7							0.82	7590	50000	6.9	2660	2360	260		2.643			1.427	0					
31	2.565	2.48	2.48	7.3	8.0				8.8							1.08	7200	50000	5.9	2650	2360	250		2.576				69300					
Tot.	93.39	76.88	76.88													34.73													1124000				
Avg.	3.013	2.48	2.48	7.3	7.7				8.6		556	2	303		3	1.120323	7138.387	47419.35484	4.829	2520.97	2164.19	277.4		2.9162			1.443	36258.06452	0.27	0.45	2		

RESIDENTIAL FLOW 28692 INDUSTRIAL WASTE POPULATION EQUIVALENT 44733 COMMERCIAL FLOW 66492 TSS OPERATOR Randolph P. Kustes Jr. CERT. NO. 14555 INDUSTRIAL FLOW CBOD

TOTAL NUMBER OF SEWER CONNECTIONS 0 SEWERED POPULATION 0 PLANT TELEPHONE 502-253-9310  
 SEWER CONNECTIONS 0 X 4 = 0