



Louisville and Jefferson County Metropolitan Sewer District
700 West Liberty Street
Louisville Kentucky 40203-1911
502-540-6000
www.msdlouky.org

September 16, 2011

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

**RE: Floyds Fork WQTC, KPDES No: KY0102784
Discharge Monitoring Report for Aug. 2011**

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 Aug. 2011.

Also attached is a bypass letter and overflow report.

There were no exceedences to report this month.

If you have any questions concerning the attached DMR's, please contact me at (502)587-5856.

Sincerely,

A handwritten signature in black ink, appearing to read "Kevin Thompson".

Kevin Thompson
Process Supervisor, East Region

RM/ Floyds Fork 8.11

Enclosures

cc: C. Roth (DOW Louisville)
T. Singleton
R. Shaw



Beneficial Use of Louisville's Biosolids
www.louisvillegreen.com

KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM (KPDES)
 DISCHARGE MONITORING REPORT (DMR)

NAME FLOYDS FORK WQTC MSD
 ADDRESS C/O CEDAR CREEK WQTC
 8405 CEDAR CREEK RD
 LOUISVILLE KY 40211
 FACILITY FLOYDS FORK WQTC MSD

KY0102784
 PERMIT NUMBER

001 1
 DISCHARGE NUMBER

MAJOR
 (SUBR LV)
 F - FINAL JEFFE
 MUNICIPAL DISCHARGE
 EFFLUENT
 [] No Discharge

LOCATION LOUISVILLE KY 40245
 ATTN: DENNIS THOMASSON SR. METRO OPS

MONITORING PERIOD
 FROM YEAR 11 MO 08 DAY 01 TO YEAR 11 MO 08 DAY 31

NOTE: Read instructions before completing this form

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS				
OXYGEN, DISSOLVED (DO)	SAMPLE MEASUREMENT	*****	*****	***	8	*****	*****	(19) MG/L	0	1/1	GR	
00300 1 0 0	PERMIT MEASUREMENT	*****	*****	***	7 INST MIN	*****	*****	(19) MG/L		THREE/WEEK	GRAB	
EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	***	7.1	*****	8.2	(12) SU	0	1/1	GR	
PH	PERMIT MEASUREMENT	*****	*****	***	6.0 MINIMUM	*****	9.0 MAXIMUM	(12) SU		THREE/WEEK	GRAB	
00400 1 0 0	SAMPLE MEASUREMENT	*****	*****	***	*****	199	242	(19) MG/L	0	3/7	CP	
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	REPORT MO AVG	REPORT MX WK AV	(26) LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	(19) MG/L		THREE/WEEK	COMPOS	
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	4747	5343	(26) LBS/DY	*****	2	2	(19) MG/L	0	3/7	CP	
00530 G 0 0	PERMIT MEASUREMENT	813 MO AVG	1220 MX WK AV	(26) LBS/DY	*****	30 MO AVG	45 MX WK AV	(19) MG/L		THREE/WEEK	COMPOS	
RAW SEW/INFLUENT	SAMPLE MEASUREMENT	48	51	(26) LBS/DY	*****	22	23	(19) MG/L	0	3/7	CP	
SOLIDS, TOTAL SUSPENDED	PERMIT MEASUREMENT	REPORT MO AVG	REPORT MX WK AV	(26) LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	(19) MG/L		THREE/WEEK	COMPOS	
00530 1 0 0	SAMPLE MEASUREMENT	15	23	(26) LBS/DY	*****	0.6	0.9	(19) MG/L	0	3/7	CP	
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	54 MO AVG	81 MX WK AV	(26) LBS/DY	*****	2 MO AVG	3 MX WK AV	(19) MG/L		THREE/WEEK	COMPOS	
NITROGEN, AMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	*****	*****	****	*****	0.3	0.6	(19) MG/L	0	3/7	CP	
00610 G 0 0	PERMIT MEASUREMENT	*****	*****	****	*****	1.0 MO AVG	1.5 MX WK AV	(19) MG/L		THREE/WEEK	COMPOS	
RAW SEW/INFLUENT	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	*****	(19) MG/L		THREE/WEEK	COMPOS	
NITROGEN, AMMONIA TOTAL (AS N)	PERMIT MEASUREMENT	*****	*****	****	*****	*****	*****	(19) MG/L		THREE/WEEK	COMPOS	
00610 1 1 0	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	*****	(19) MG/L		THREE/WEEK	COMPOS	
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	*****	*****	****	*****	*****	*****	(19) MG/L		THREE/WEEK	COMPOS	
PHOSPHORUS, TOTAL (AS P)	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	*****	(19) MG/L		THREE/WEEK	COMPOS	
00665 1 0 0	PERMIT MEASUREMENT	*****	*****	****	*****	*****	*****	(19) MG/L		THREE/WEEK	COMPOS	
EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	*****	(19) MG/L		THREE/WEEK	COMPOS	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C 1001 AND 33 U.S.C 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.											
H J SCHARDEIN EXECUTIVE DIRECTOR	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT								TELEPHONE 502 540-6000		DATE 11 09 16	
TYPED OR PRINTED	COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)								AREA CODE		YEAR MO DAY	

PERMITTEE NAME/ADDRESS (Include

Facility Name/Location if different)

NAME FLOYDS FORK WQTC MSD
ADDRESS C/O CEDAR CREEK WQTC
8405 CEDAR CREEK RD
LOUISVILLE KY 40211
FACILITY FLOYDS FORK WQTC MSD

KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM (KPDES)
DISCHARGE MONITORING REPORT (DMR)

KY0102784
PERMIT NUMBER

001 1
DISCHARGE NUMBER

MAJOR
(SUBR LV)
F - FINAL JEFFE
MUNICIPAL DISCHARGE
EFFLUENT
[] No Discharge

LOCATION LOUISVILLE KY 40245
ATTN: DENNIS THOMASSON SR. METRO OPS

MONITORING PERIOD
YEAR MO DAY
FROM 11 08 01 TO 11 08 31

NOTE: Read instructions before completing this form

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS				
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	2.83	3.93	(03) MGD	*****	*****	*****	***	0	CN	CN		
COLIFORM, FECAL GENERAL 74055 1 0 0 EFFLUENT GROSS VALUE	*****	*****	***	*****	5	12	(13) 100ML	0	3/7	GR		
BOD, CARBONACEOUS 05 DAY, 20C 80082 G 0 0 RAW SEW/INFLUENT	*****	*****	***	*****	200 30DA GEO	400 7 DA GEO	(13) 100ML		THREE/ WEEK	GRAB		
BOD, CARBONACEOUS 05 DAY, 20C 80082 1 0 0 EFFLUENT GROSS VALUE	2806	3124	(26) LBS/DY	*****	117	135	(19) MG/L	0	3/7	CP		
BOD, CARBONACEOUS 05 DAY, 20C 80082 1 0 0 EFFLUENT GROSS VALUE	REPORT MO AVG	REPORT MX WK AV	(26) LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	(19) MG/L		THREE/ WEEK	COMPOS		
BOD, CARBONACEOUS 05 DAY, 20C 80082 1 0 0 EFFLUENT GROSS VALUE	62	106	(26) LBS/DY	*****	3	4	(19) MG/L	0	3/7	CP		
BOD, CARBONACEOUS 05 DAY, 20C 80082 1 0 0 EFFLUENT GROSS VALUE	271 MO AVG	407 MX WK AV	(26) LBS/DY	*****	10 MO AVG	15 MX WK AV	(19) MG/L		THREE/ WEEK	COMPOS		
BOD, CARB 5-DAY, 20 DEG C, PERCENT REMVL 80091 K 0 0 PERCENTREMOVAL	*****	*****	***	98	*****	*****	(23) CENT	0	1/31	CA		
SOLIDS, SUSPENDED PERCENT REMOVAL 81011 K 0 0 PERCENTREMOVAL	*****	*****	***	85 MO MIN	*****	*****	(23) CENT		ONCE/ MONTH	CALCTD		
SOLIDS, SUSPENDED PERCENT REMOVAL 81011 K 0 0 PERCENTREMOVAL	*****	*****	***	99	*****	*****	(23) CENT	0	1/31	CA		
SOLIDS, SUSPENDED PERCENT REMOVAL 81011 K 0 0 PERCENTREMOVAL	*****	*****	***	85 MO MIN	*****	*****	(23) CENT		ONCE/ MONTH	CALCTD		
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT, SEE 18 U.S.C. 1001 AND 33 U.S.C. 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.							TELEPHONE		DATE		
H J SCHARDEIN EXECUTIVE DIRECTOR								502	540-6000	11	09	16
TYPED OR PRINTED								AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NAME OF TREATMENT PLANT FLOYDS FORK COUNTY JEFFERSON MONTH OF: August 2011
 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	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)	FECAL COLIFORM (COPIES/100ML)	
																		GAL/DAY X 1000	MLSS X 1000					GAL/DAY X 1000	30 MIN.	90 MIN.	GALLONS X 1000	% DRY SOLIDS	% VOLATILE SOLIDS	% DRY SOLIDS	% VOLATILE SOLIDS				WITHDRAWN GALLONS X 1000
1	2.810	2.48	2.48	7.3	7.9					8.9		220		2	164		2	1.14	3.86	55	2.6	2.51	1.78	300						69.3	0.17	0.73	4		
2	2.75	2.48	2.48	7.2	7.8					7.9		190		2	138		2	1.13	3.61	62	2.8	2.46	1.75	310						0	0.12	0.90	4		
3	2.780	2.48	2.48	7.3	8.0					7.8		226		2	102		2	1.14	4.32	67	2.1	2.46	1.75	300				0.681		81.9	0.18	0.67	4		
4	2.730	2.48	2.48	7.1	7.7					8.8								1.14	4.01	67	2.5	2.49	1.76	310						56.7					
5	2.740	2.48	2.48	7.2	7.8					8.1								1.2	3.21	50	2.6	2.22	1.61	300						49.6					
6	2.720	2.48	2.48	7.5	7.9					8.4								1.22	4.97	50	2.3	2.37	1.73	300						44.1					
7	3.930	2.48	2.48	7.4	8.0					8.9								1.03	5.87	46	2.5	2.34	1.64	290						67.1					
8	3.260	2.48	2.48	7.3	7.9					8.5		186		2	119		8	1.19	4.19	61	1.1	2.47	1.77	300						30.2	0.84	1.70	4		
9	3.030	2.48	2.48	7.1	7.6					7.9		188		2	106		2	1.21	3.5	61	3.1	2.36	1.68	280						69.3	0.67	0.84	4		
10	2.960	2.48	2.48	7.4	7.9					7.7		192		2	109		2	1.15	4.24	63	2.3	2.3	1.64	300						55.1	0.36	0.06	4		
11	2.860	2.48	2.48	6.9	7.1					8.6								1.26	3.61	57	2.8	2.28	1.62	290				1.344		72.4					
12	2.730	2.48	2.48	7.2	7.8					8.6								1.12	2.7	50	2.5	2.28	1.68	300						64.5					
13	3.080	2.48	2.48	7.0	7.7					8.5								1.03	2.96	0	2	2.35	1.71	280						6.3					
14	3.550	2.48	2.48	6.9	7.5					8.5								1.25	6.93	42	2.9	2.22	1.54	250						0					
15	3.220	2.48	2.48	6.9	7.6					8.4		174		2	95		2	1.27	3.86	48	4.1	2.81	2.14	290						65.5	0.13	0.06	100		
16	3.030	2.48	2.48	6.5	7.2					8.4		106		2	109		2	1.56	4.23	52.8	3	2.74	1.87	300						34.6	0.21	0.73	4		
17	2.850	2.48	2.48	6.6	7.6					8.6		180		2	86		2	1.81	4.79	55	3.2	3.07	2.25	300				1.045		118.9	0.22	0.95	4		
18	2.800	2.48	2.48	7.7	8.1					8.0								1.62	5.37	50	1.5	2.69	1.96	290						69.3					
19	2.750	2.48	2.48	7.7	8.0					8.1								1.52	4.02	61	3	2.49	1.77	250						50.4					
20	2.720	2.48	2.48	8.1	8.0					8.2								1.62	3.49	66	3	2.58	1.79	290						0					
21	2.750	2.48	2.48	7.4	7.9					8.1								1.7	3.14	55	2.9	2.55	1.74	270						18.9					
22	2.740	2.48	2.48	7.3	7.9					8.4		232		2	119		2	1.26	3.39	60	2.4	2.55	1.72	270						93.7	0.21	0.06	4		
23	2.650	2.48	2.48	7.3	7.8					8.0		242		2	130		2	1.42	3.82	60	2.4	2.66	1.77	250						67.8	0.17	0.06	4		
24	2.560	2.48	2.48	7.9	8.0					8.0		252		2	129		2	1.12	4.36	50	2.6	2.55	1.74	250				0.776		71.1	0.33	0.73	4		
25	2.680	2.48	2.48	7.3	7.7					8.0								1.33	4.2	50	3	2.31	1.6	250						71.2					
26	2.510	2.48	2.48	7.6	7.9					8.1								1.27	4.57	51.5	2.5	2.46	1.81	250						66					
27	2.590	2.48	2.48	7.6	8.0					8.4								1.36	5.03	50	2.5	2.51	1.77	250						0					
28	2.580	2.48	2.48	7.9	7.9					8.6								1.27	4.42	55	2.8	2.44	1.74	250						0					
29	2.570	2.48	2.48	7.5	8.2					8.4								0.87	4.26	55	2.8	2.55	1.8	240						66					
30	2.480	2.48	2.48	7.2	7.7					8.3								1.31	3.58	55	2.5	2.38	1.74	250						67.4					
31	2.440	2.48	2.48	7.7	8.0					8.5								1.22	5.07	48	3.2	2.5	1.79	250				1.806		69.3					
Tot.	87.85	76.88	76.88															39.74												1596.6					
Avg.	2.834	2.48	2.48	7.3	7.8					8.3		199		2	117		3	1.282	4.18	53.33	2.629	2.482	1.763	277.7				1.13		51.503	0.30	0.62	5		

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT

26989 FLOW 16289 CBOD 22396 TSS

Randolph P. Kustes Jr
OPERATOR

14555
CERT. NO.

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

502-587-5867
PLANT TELEPHONE



700 West Liberty Street
Louisville Kentucky 40203-1911
502-540-6000
www.msdlouky.org

August 11, 2011

Mr. Charlie Roth, District Supervisor
KY Division of Water
Louisville Regional Office
9116 Leesgate Road
Louisville, KY 40222-5084

Re: Bypass Report for the Floyds Fork WQTC – KPDES Permit KY0102784

Dear Mr. Roth:

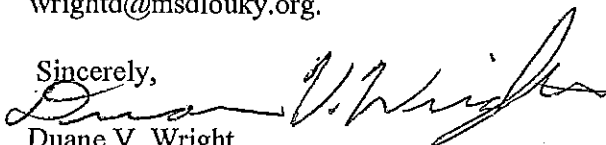
This plant experienced a bypass event and has been reported through our electronic notification system at approximately 01:00 PM on August 09, 2011, referencing Work Order 1315318 as a dry weather discharge. This letter serves as a written report of the bypass as required by 401 KAR 5:065.

Provided below are the details of the bypass event:

- Description of the noncompliance and its cause: On August 8, 2011, Floyds Fork WQTC experienced a plant bypass to waters of the US. Approximately 49,884 gallons bypassed our disinfection treatment process. The bypassed volume received full treatment except for disinfection. The plant UV system shut down due to low coolant operating level in the plant UV system. Upon investigation, MSD personnel found a leak in the UV system coolant line.
- Period of noncompliance: Starting 11:55 PM on August 08, 2011 and stopping 12:15 AM on August 09, 2011.
- Steps taken or planned to reduce, eliminate and prevent recurrence: MSD staff reset the plant UV system. We have temporarily repaired the UV coolant line and have contacted the UV manufacturer to replace its coolant lines. Currently, the manufacturers PLC is programmed for non specific alarms. On August 10, 2011, our staff added additional specific alarm programs for UV system to go to our SCADA system. Additionally, the current plant expansion includes an upgrade in our UV system which will enable specific alarms to go to our SCADA system.

Please advise if you have any questions concerning this information. You can contact me on my office telephone at (502)-239-7574, my cell phone at (502)-396-9142 or via email at wrightd@msdlouky.org.

Sincerely,


Duane V. Wright
Process Supervisor-Operations

cc: Gary Levy, KDEP
Paula Purifoy, Wes Sydnor, Kevin Ries, Robert Bates - MSD



Report Selections: Excluding PPI, CSO, Excluding LAT, Result: WUS, Act Code: DISDW, DISREV

KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0102784	MSD0294	FLOYDS FORK	FLOYDS FORK	CENT

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SPL Sewer Treatment Plant	MSD0294	1100 BLUE HERON RD		FLOYDS FORK	STREAM

Activity Code / Description	WO #	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
DISDW: DRY WEATHER DISCHARGE	1315318	08/08/11 11:55 PM	ELDER	SPENCER	REPAIRED - ISSUE RESOLVED	08/08/11	BYPASS AT WQTC	UNAUTHORIZED DISCHARGE-WATERS	08/09/11 12:15 AM	

Spot Inspections:

Discharge Amount:	49,884 GAL
Cause:	UV SYSTEM FAILURE, COOLANT HOSE BURST & SYSTEM OVERHEATED & SHUT DOWN
Clean Up:	NO CLEAN UP PERFORMED - PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM
Control Zone:	PERMANENT SIGNS ALONG CREEK, WWW PAGE UPDATED
Impact:	NONE OBSERVED
Repair:	RESTARTED UV SYSTEM MANUALLY

Notifications:

	DISPUB	PERMANENT SIGNS ALONG CREEK, WWW PAGE UPDATED project WIN
08/09/11 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/09/11 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Total Facilities Printed: 17
Total Work Orders Printed: 18