



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

March 17, 2014

Ms. Cheryl Edwards
Kentucky Division of Water
200 Fair Oaks Lane, 4th Floor
Frankfort, Kentucky 40601

**RE: Jeffersontown WQTC, KPDES No: KY0025194
Discharge Monitoring Report February 2014**

Dear Ms. Edwards:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operating Report (MOR) for the Jeffersontown WQTC KPDES No.: KY0025194 for the month of February 2014

Also attached are a bypass/blending letter and overflow report.

There were no exceedences.

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

Sincerely,

A handwritten signature in cursive script that reads "Duane V. Wright".

Duane V. Wright
Process Supervisor Central Region

DVW/Jeffersontown 02.14doc

Enclosures

cc: R. Shaw
T. Singleton



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

DMR Copy of Record

Permit			
Permit #:	KY0025194	Permittee:	JEFFERSONTOWN WQTC MSD
Major:	Yes	Permittee Address:	10725 OLD TAYLORSVILLE RD JEFFERSONTOWN, KY 40299
Permitted Feature:	001 External Outfall	Discharge:	001-2 FLOW BOD TSS DO PH
Facility:		Facility Location:	JEFFERSONTOWN WQTC MSD 10725 OLD TAYLORSVILLE RD JEFFERSONTOWN, KY 40299

Report Dates & Status			
Monitoring Period:	From 02/01/14 to 02/28/14	DMR Due Date:	03/28/14
Status:	NetDMR Validated		

Considerations for Form Completion
USE MO AVG FOR BOD/TSS REMV;REPT IN MINIMUM COLUMN.

Principal Executive Officer			
First Name:	Greg	Title:	Exec. Dir.
Last Name:	Heitzman	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
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample	=	10				=	19 - mg/L				01/01 - Daily	GR - GRAB	
					Permit Req.	>=	7 INST MIN								03/07 - Three Per Week	GR - GRAB		
					Value NODI													
00400	pH	1 - Effluent Gross	0	--	Sample	=	6.8				=	7.9			12 - SU	01/01 - Daily	GR - GRAB	
					Permit Req.	>=	6 MINIMUM			<=	9 MAXIMUM			12 - SU	03/07 - Three Per Week	GR - GRAB		
					Value NODI													
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	355	=	926	26 - lb/d	=	7	=	15	19 - mg/L	01/01 - Daily	CP - COMPOS	
					Permit Req.	<=	1000 MO AVG	<=	1501 MX WK AV	26 - lb/d	<=	30 MO AVG	<=	45 MX WK AV	19 - mg/L	03/07 - Three Per Week	CP - COMPOS	
					Value NODI													
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample	=	7105	=	9818	26 - lb/d	=	208	=	242	19 - mg/L	01/01 - Daily	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	03/07 - Three Per Week	CP - COMPOS	
					Value NODI													
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	2	--	Sample	=	12	=	21	26 - lb/d	=	0.3	=	0.4	19 - mg/L	01/01 - Daily	CP - COMPOS	
					Permit Req.	<=	334 MO AVG	<=	500 MX WK AV	26 - lb/d	<=	10 MO AVG	<=	15 MX WK AV	19 - mg/L	03/07 - Three Per Week	CP - COMPOS	
					Value NODI													
00610	Nitrogen, ammonia total [as N]	G - Raw Sewage Influent	0	--	Sample	=	296	=	325	26 - lb/d	=	9	=	10	19 - mg/L	01/01 - Daily	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	03/07 - Three Per Week	CP - COMPOS	
					Value NODI													
00665	Phosphorus, total [as P]	1 - Effluent Gross	2	--	Sample	=	13	=	32	26 - lb/d	=	0.3	=	0.7	19 - mg/L	01/01 - Daily	CP - COMPOS	
					Permit Req.	<=	67 MO AVG	<=	100 MX WK AV	26 - lb/d	<=	2 MO AVG	<=	3 MX WK AV	19 - mg/L	03/07 - Three Per Week	CP - COMPOS	
					Value NODI													
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	4.42	=	5.373	03 - MGD						99/99 - Continuous	CN - CONTIN	
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	03 - MGD						0	99/99 - Continuous	CN - CONTIN
					Value NODI													
74055	Coliform, fecal general	1 - Effluent Gross	0	--	Sample						=	5	=	14	13 - #/100mL	01/01 - Daily	GR - GRAB	
					Permit Req.						<=	200 30DA GEO	<=	400 7 DA GEO	13 - #/100mL	03/07 - Three Per Week	GR - GRAB	
					Value NODI													
80082	BOD, carbonaceous, 05 day, 20 C	1 - Effluent Gross	0	--	Sample	=	128	=	299	26 - lb/d	=	3	=	6	19 - mg/L	01/01 - Daily	CP - COMPOS	
					Permit Req.	<=	667 MO AVG	<=	1001 MX WK AV	26 - lb/d	<=	20 MO AVG	<=	30 MX WK AV	19 - mg/L	03/07 - Three Per Week	CP - COMPOS	
					Value NODI													
80082	BOD, carbonaceous, 05 day, 20 C	G - Raw Sewage Influent	0	--	Sample	=	3483	=	4034	26 - lb/d	=	105	=	127	19 - mg/L	01/01 - Daily	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	03/07 - Three Per Week	CP - COMPOS	
					Value NODI													
80091	BOD, carb-5 day, 20 deg C, percent removal	K - Percent Removal	0	--	Sample						=	97			23 - %	01/30 - Monthly	CA - CALCTD	
					Permit Req.						>=	85 MO AV MN			23 - %	01/30 - Monthly	CA - CALCTD	
					Value NODI													
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample						=	96			23 - %	01/30 - Monthly	CA - CALCTD	
					Permit Req.						>=	85 MO MIN			23 - %	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
JTOWN022014_MOR.pdf	pdf	65358
201402_JTWQTC_OverflowReport.pdf	pdf	74632
JT022014_cover.pdf	pdf	16846
JT02052014_BLENDLTR.pdf	pdf	24290

Report Last Saved By**JEFFERSONTOWN WQTC MSD**

User:	kevin.ries@louisvillemsd.org	Date/Time:	2014-03-19 14:53 (Time Zone: -04:00)
Name:	Kevin Ries		
E-Mail:	kevin.ries@louisvillemsd.org		

NAME OF TREATMENT PLANT JEFFERSONTOWN WTP
 KPDES PERMIT NUMBER KY0025194

COUNTY JEFFERSON
 PLANT CAPACITY 4.0 MGD

MONTH OF: February 2014
 RECEIVING STREAM CHENOWETH RUN

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					
		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	RAW	PRIMARY EFFLUENT	FINAL EFFLUENT	RETURN		WAST. ED	DISSOLVED OXYGEN (mg/L)	MLSS (mg/L) x 1000	MLVSS (mg/L) x 1000	30 MIN.	60 MIN.	GALLONS x 1000	RAW		HAULED		TOTAL PHOS. (mg/L)	NH3-N (mg/L)	FECAL COLIFORM (COLONIES/100ML)
																					GAL/DAY x 1000	MLSS x 1000								% DRY SOLIDS	% VOLATILE SOLIDS	% DRY SOLIDS	% VOLATILE SOLIDS			
1	2.62			6.8	7.2	28.0			10.0		190		6	214		4	1.218	4800	36	8.3	2800	2160	200	190							0.54	0.46	8			
2	4.58			7.2	7.7	29.0			9.8		205		7	67		3	1.243	5020	49	8.5	2720	2250	180	170							0.49	0.30	4			
3	4.11			6.8	7.5	10.0			10.0		380		11	96		4	1.245	8155	32	8.4	2540	2110	180	170				0.08			0.51	0.17	10			
4	5.00			7.1	7.3	35.0			10.0		255		23	128		18	1.238	4815	43	8	2530	1980	170	160							1.90	0.67	1000			
5	10.42	3	3	6.8	7.8	42.0			11.0		18		50	15		9	1.248	7510	39	8.9	1540	1250	100	100							0.88	0.72	14			
6	6.05			7.3	7.1	10.0			11.0		200		4	74		2	1.252	8115	27	8.6	2100	1570	150	150							0.20	0.27	12			
7	4.83			7.5	7.1	10.0			10.0		28		5	46		3	1.27	10040	32	9.1	2440	1900	190	170							0.31	0.32	2			
8	4.20			7.3	7.1	10.0			11.0		72		3	40		2	1.27	6375	31	8.9	2180	1560	190	170							0.12	0.21	5			
9	3.79			7.1	7.5	23.0			11.0		88		8	65		2	1.27	7160	32	8.8	2660	2040	200	180							0.27	0.25	2			
10	3.58			6.9	7.3	0.0			10.0		45		8	81		2	1.27	7290	32	7.8	2500	1830	200	180							0.27	0.32	3			
11	3.41			7.0	6.8	10.0			10.0		75		6	109		2	1.26	6245	32	6.9	2680	1930	200	180							0.34	0.15	11			
12	3.32	3	3	7.3	7.8	5.0			11.0		195		5	137		2	1.26	6425	36	9.5	2540	2040	200	200							0.29	0.20	2			
13	3.30			6.9	7.4	19.0			11.0		600		6	230		3	1.26	6785	22	9	3040	2210	210	200							0.29	0.21	6			
14	3.79			7.0	7.4	50.0			10.0		98		5	68		2	1.27	7260	32	8.7	2930	2380	210	200							0.23	0.24	2			
15	4.27			7.0	7.5	58.0			11.0		58		6	45		2	1.25	8130	33	8.4	2720	2160	210	200							0.18	0.39	2			
16	3.80			7.5	7.6	10.0			10.0		550		3	166		2	1.26	6205	31	9.7	3030	2000	200	200							0.22	0.46	2			
17	4.98			6.9	7.4	30.0			10.0		348		3	115		2	1.25	5575	28	8.6	2640	2000	200	190				0.07			0.17	0.36	14			
18	6.35			7.5	7.0	55.0			9.9		216		8	93		2	1.24	8345	24	6.1	2390	1910	170	150				0.08			0.24	0.22	4			
19	5.51	3	3	7.0	7.9	28.0			10.0		205		3	72		2	1.24	9800	30	5.9	2220	1980	170	170							0.13	0.22	3			
20	5.05			7.3	7.8	22.0			10.0		160		3	91		2	1.25	7930	30	9	2390	1940	200	180							0.11	0.21	3			
21	5.66			7.0	7.8	10.0			10.0		152		6	96		2	1.24	8785	32	8.9	2380	1870	180	170							0.17	0.28	4			
22	4.41			7.3	7.4	16.0			9.9		58		3	42		2	1.26	8980	32	8.8	2590	2040	220	200							0.14	0.34	2			
23	3.99			7.4	7.0	10.0			10.0		90		4	47		2	1.22	5115	0	8.1	2560	2030	220	200							0.19	0.18	2			
24	3.75			7.0	7.6	18.0			11.0		345		5	144		2	1.15	7385	32	9.3	2850	2150	230	200				0.08			0.25	0.16	7			
25	3.50			7.1	7.8	42.0			11.0		210		4	132		2	1.14	7605	43	9.5	2610	2270	230	200							0.20	0.42	4			
26	3.31	3	3	7.0	7.5	28.0			11.0		216		5	127		2	1.22	7370	43	9.2	2790	2290	230	200							0.24	0.28	2			
27	3.16			7.0	7.5	15.0			11.0		450		4	217		2	1.27	6330	43	9.3	2900	2320	220	200							0.22	0.50	2			
28	2.99			6.9	7.6	25.0			11.0		324		2	183		3	1.27	6660	43	9.4	2860	2210	240	200							0.19	0.27	2			
29																																				
30																																				
31																																				
Tot.	123.76	12	12														34.83																			
Avg.	4.42	3	3	7.1	7.4	23.1			10.4		208		7	105		3	1.244	7150	32.82	8.557	2576	2014	196.4	181.4				0.078			0.33	0.31	5			

RESIDENTIAL
 COMMERCIAL
 INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT
42095 FLOW
22768 CBOD
36555 TSS

Mike Stephenson
 OPERATOR

9614
 CERT. NO.

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

(502)267-9257
 PLANT TELEPHONE



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

February 5, 2014

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

Re: Bypass (Blending) Report for the Jeffersontown WQTC – KPDES Permit KY0025194

Dear Mr. Roth:

In accordance with 401 KAR 5:065, MSD is providing this letter as a written report of the bypass (blending) event that occurred at the Jeffersontown Water Quality Treatment Center (WQTC). The bypass started at 09:30 PM on February 04, 2014 and stopped at 04:51 PM on February 05, 2014.

Mitigation activities to minimize the extent and impact of the discharge included maximization of plant peak flow through secondary treatment to minimize the total amount of wastewater that did not receive full secondary treatment prior to blending with secondary effluent before receiving UV disinfection, and then being discharged through the permitted outfall. The cause of the bypass (blending) event was due to significant precipitation in the service area. The bypassed (blended) effluent entered Chenoweth Run at mile point 5.3.

In the table listed below is the total number of gallons of wastewater by calendar day that was bypassed (blended) around the secondary treatment of the Jeffersontown WQTC.


<u>Date</u>	<u>Start Time</u>	<u>Stop Time</u>	<u>Total Plant Flow (Vol)</u>	<u>Peak Plant Rate</u>	<u>Total Blended Flow (Vol)</u>
February 04 2014	09:30 PM	11:59 PM	5.001 MG	14.770 MGD	0.289 MG
February 05 2014	12:00 AM	04:51 PM	10.421 MG	14.893 MGD	1.365 MG



Mr. Charlie Roth, District Supervisor
KY Division of Water
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Please advise if you have any questions concerning this information. You can contact me on my office telephone at (502)-587-5856, my cell phone at (502)-475-2224 or via email at kevin.thompson@louisvillemtd.org.

Sincerely,



Kevin Thompson
Process Supervisor-Operations

cc: Courtney Seitz, KDEP
Paula Purifoy, Wes Sydnor, Kevin Ries, Robert Bates - MSD

eB File



Report Selections: Period: 02/01/2014 00:00 thru 02/28/2014 23:59, treatment Plant: MSD0255 JEFFERSONTOWN, Excluding PPI Excluding CSO Excluding LAT, Result: WUS, Act Code: DISDW, DISREV

KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0025194	MSD0255	JEFFERSONTOWN	CHENOWETH RUN	CENT

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	28551	11401 GRAND AVE		CHENOWETH RUN	STREAM

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
DISREV:RAIN EVENT DISCHARGE	2107912		2/4/14 10:22 pm	GRIFFITH	GRIFFITH	DOCUMENTED	11/22/2011	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHAGE - WATERS	02/05/14 11:05 AM	

Discharge Reporting:

Discharge Amount:	1,750 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WO# 2108288
Control Zone:	CAUTION TAPE AND TEMP SIGNS PLACED
Impact:	LIGHT DEBRIS OBSERVED
Repair:	LOCATION INCLUDED IN THE IOAP
Public Notification:	PUBLIC NOTIFIED THROUGH DOOR HANGERS AND TEMPORARY SIGNS TO AVOID CONTACT WITH DISCHARGED CONTENT

Notifications:

1/30/14 1:00 pm	DISNOT	Email notification of unauthorized discharge sent to 'DischargeNotices@louisvillemsd.org, Sayre.Dennis@epamail.epa.gov'
1/30/14 1:00 pm	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to 'DischargeNotices@louisvillemsd.org, Sayre.Dennis@epamail.epa.gov'



Report Selections: Period: 02/01/2014 00:00 thru 02/28/2014 23:59, treatment Plant: MSD0255 JEFFERSONTOWN, Excluding PPI Excluding CSO Excluding LAT, Result: WUS, Act Code: DISDW, DISREV

KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0025194	MSD0255	JEFFERSONTOWN	CHENOWETH RUN	CENT

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SPL Sewer Treatment Plant	MSD0255	10725 OLD TAYLORSVILLE RD		CHENOWETH RUN	STREAM

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
DISREV:RAIN EVENT DISCHARGE	2107883		2/4/14 9:30 pm	MARKS JR	OPS CSHIFT	DOCUMENTED	01/14/2007	BLENDING AT JTOWN WQTC	UNAUTHORIZED DISCHAGE - WATERS	02/05/14 04:51 PM	

Discharge Reporting:

Discharge Amount:	1,654,887 GAL
Cause:	LACK OF CAPACITY DUE TO WEATHER EVENT
Clean Up:	PIPE DISCHARGE SUBMERGED- NO CLEANUP
Control Zone:	PERMANENT SIGNS ARE POSTED
Impact:	NO IMPACT OBSERVED
Repair:	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION
Public Notification:	PERMANENT SIGNS ARE POSTED

Plant Details:

PEAK PLANT FLOW WHEN BLENDING	14,893,000 GPD
DAILY TOTAL PLANT FLOW	15,422,000 GAL

Notifications:

1/30/14 1:00 pm	DISNOT	Email notification of unauthorized discharge sent to 'DischargeNotices@louisvillemad.org, Sayre.Dennis@epamail.epa.gov'
1/30/14 1:00 pm	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to 'DischargeNotices@louisvillemad.org, Sayre.Dennis@epamail.epa.gov'

Total Facilities Printed: 2

Total Work Orders Printed: 2