



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

May 10, 2013

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 April 2013**

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 April 2013.

Also attached are bypass/blending letters and overflow reports.

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 black ink that reads "Duane V. Wright". The signature is written in a cursive style.

Duane V. Wright
Process Supervisor Central Region

DVW/Jeffersontown 04.13doc

Enclosures

cc: R. Shaw
T. Singleton



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

DMR Copy of Record

Permit

Permit #:
Major:

KY0025194
Yes

Permittee:
Permittee Address:

JEFFERSONTOWN WQTC MSD
10725 OLD TAYLORSVILLE RD
JEFFERSONTOWN, KY 40299

Facility:
Facility Location:

JEFFERSONTOWN WQTC MSD
10725 OLD TAYLORSVILLE RD
JEFFERSONTOWN, KY 40299

Permitted Feature:

001
External Outfall

Discharge:

001-2
FLOW BOD TSS DO PH

Report Dates & Status

Monitoring Period:

From 04/01/13 to 04/30/13

DMR Due Date:

05/28/13

Status:

NetDMR Validated

Considerations for Form Completion

USE MO AVG FOR BOD/TSS REMV;REPT IN MINIMUM COLUMN.

Principal Executive Officer

First Name:
Last Name:

Greg
Heitzman

Title:

Executive Director

Telephone:

502-540-6000

No Data Indicator (NODI)

Form NODI: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					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	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						=	7			=	9	12 - SU	1	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	=	231	=	378	26 - lb/d			=	7	=	9	19 - mg/L	0	01/01 - Daily 03/07 - Three Per Week	CP - COMPOS CP - COMPOS
					Permit Req.	<=	1000 MO AVG	<=	1501 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	=	7239	=	7404	26 - lb/d			=	245	=	292	19 - mg/L	0	01/01 - Daily 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	=	37	=	55	26 - lb/d			=	1	=	1	19 - mg/L	0	01/01 - Daily 03/07 - Three Per Week	CP - COMPOS CP - COMPOS
					Permit Req.	<=	334 MO AVG	<=	500 MX WK AV	26 - lb/d			<=	10 MO AVG	<=	15 MX WK AV	19 - mg/L			
					Value NODI															
00610	Nitrogen, ammonia total (as N)	G - Raw Sewage Influent	0	--	Sample	=	369	=	426	26 - lb/d			=	12	=	14	19 - mg/L	0	01/01 - Daily 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	2	--	Sample	=	28	=	31	26 - lb/d			=	0.9	=	1	19 - mg/L	0	01/01 - Daily 03/07 - Three Per Week	CP - COMPOS CP - COMPOS
					Permit Req.	<=	67 MO AVG	<=	100 MX WK AV	26 - lb/d			<=	2 MO AVG	<=	3 MX WK AV	19 - mg/L			
					Value NODI															
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	3.807	=	4.504	03 - MGD								0	99/99 - Continuous 99/99 - Continuous	CN - CONTIN CN - CONTIN
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	03 - MGD										
					Value NODI															
74055	Coliform, fecal general	1 - Effluent Gross	0	--	Sample								=	3	=	4	13 - #/100mL	0	01/01 - Daily 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	=	84	=	122	26 - lb/d			=	3	=	3	19 - mg/L	0	01/01 - Daily 03/07 - Three Per Week	CP - COMPOS CP - COMPOS
					Permit Req.	<=	667 MO AVG	<=	1001 MX WK AV	26 - lb/d			<=	20 MO AVG	<=	30 MX WK AV	19 - mg/L			
					Value NODI															
80082	BOD, carbonaceous, 05 day, 20 C	G - Raw Sewage Influent	0	--	Sample	=	4087	=	4678	26 - lb/d			=	140	=	188	19 - mg/L	0	01/01 - Daily 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						=	98					23 - %	0	01/30 - Monthly 01/30 - Monthly	CA - CALCTD CA - CALCTD
					Permit Req.						>=	85 MO AV MN					23 - %			
					Value NODI															
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample						=	97					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
JTblend4-19-13.pdf	pdf	24016
JTBlend4-24-13.pdf	pdf	24077
JT042013_cover.pdf	pdf	17313
201304JTWQTC_Overflow.pdf	pdf	69950
Report Last Saved By		
JEFFERSONTOWN WQTC MSD		
User:	kevin.ries@louisvillemsd.org	Date/Time: 2013-05-22 13:07 (Time Zone: -04:00)
Name:	kevin ries	
E-Mail:	kevin.ries@louisvillemsd.org	

NAME OF TREATMENT PLANT JEFFERSONTOWN WTP COUNTY JEFFERSON MONTH OF: April 2013
 KPDES PERMIT NUMBER KY0025194 PLANT CAPACITY 4.0 MGD RECEIVING STREAM CHENOWETH RUN

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 X1000	MLVSS X 1000	WASTE P	DISSOLVED OXYGEN (mg/L)	MLSS (mg/L) x 1000	MLVSS (mg/L) X 1000	SETTLED SLUDGE VOLUME		RAW			HAULED			TOTAL PHOS. (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	WITHDRAWN GALLONS X 1000				
1	3.11	3	3	7.2	7.9	15.0					9.8		234		10	161		4	1.42	6195	36	7.9	2940	2390	420	300								1.43	1.60	2
2	2.92			7.4	7.7	15.0					10.0		320		8	202		3	1.4	6300	36	8.4	2920	2350	350	250								1.46	1.00	2
3	2.86			7.6	8.2	30.0					10.0		296		5	199		2	1.36	6270	27	8	2690	2150	300	250								1.23	0.39	2
4	2.84			7.6	8.2	30.0					10.0		370		5	236		4	1.36	5270	26	7.9	2910	2360	330	270								1.23	0.34	2
5	2.76			7.5	8.0	20.0					10.0		384		6	214		2	1.35	6410	27	7.5	2790	2180	330	280								1.19	0.62	2
6	2.70			7.5	8.1	25.0					10.0		310		5	194		2	1.35	6125	27	7.3	2890	2320	320	270								1.26	0.50	2
7	2.72	3	3	7.7	8.5	25.0					9.8		128		4	112		2	1.35	5915	33	7.3	2940	2330	350	270								1.27	0.45	2
8	2.67			7.8	8.5	30.0					9.5		398		4	258		2	1.35	6000	33	6.8	2770	2190	350	270								1.41	1.20	2
9	2.63			8.0	7.3	30.0					9.5		240		5	169		2	1.35	6295	37	6.2	3010	2410	340	270								1.34	0.98	2
10	2.67			7.8	8.4	30.0					9.4		505		3	185		2	1.35	6615	40	6.3	2940	2320	350	280								1.23	0.84	2
11	4.16			7.7	8.4	25.0					9.2		72		7	228		3	1.3	6140	36	6.7	3020	2390	350	280								1.33	1.30	35
12	5.49			7.7	8.4	40.0					9.8		247		3	89		2	1.24	5835	22	8.1	2510	2020	310	260								0.75	1.30	2
13	3.80			7.7	8.1	31.0					9.6		261		4	170		2	1.34	6795	36	7.7	2840	2260	300	250								0.33	0.34	2
14	3.43	3	3	7.6	8.2	23.0					9.3		82		6	63		2	1.36	6155	26	8.2	2710	2120	370	280								0.46	0.62	2
15	3.16			7.6	8.5	36.0					9.8		365		6	156		2	1.39	6500	26	8.3	2590	2040	350	290								0.61	1.60	2
16	3.23			7.7	8.3	30.0					9.4		374		8	134		2	1.42	5625	26	7.2	3050	2390	390	300								0.90	1.60	2
17	4.46			7.5	8.3	30.0					9.2		194		4	115		2	1.41	6555	25	7	2730	2290	370	250								0.91	1.40	2
18	3.72			7.6	7.6	25.0					9.6		94		5	101		2	1.4	6545	25	7.4	2890	2430	300	260								0.71	0.39	270
19	7.64			7.6	7.7	40.0					9.8		135		10	67		3	1.4	4845	30	4.1	2750	2310	270	240								0.93	2.50	4
20	5.13			8.0	7.9	5.0					9.4		166		5	68		2	1.39	8065	0	6.9	2460	2080	220	200								0.23	0.50	2
21	4.18	3	3	6.8	7.0	13.0					10.0		180		3	82		2	1.38	7020	9	6.9	2930	2410	280	250								0.17	0.91	2
22	3.79			6.6	6.7	25.0					10.0		276		3	122		2	1.39	6430	14	8	2860	2350	300	250								0.28	0.62	2
23	3.54			6.8	7.0	23.0					10.0		316		5	168		2	1.38	5670	27	8	3170	2600	300	270								0.39	1.10	20
24	5.46			7.0	7.2	20.0					10.0		88		30	55		7	1.36	6815	27	7.4	3030	2580	320	280								2.03	4.30	2
25	4.70			7.4	7.5	30.0					10.0		176		6	108		3	1.42	7515	31	7.8	2440	1960	250	220								0.40	0.88	2
26	3.93			7.8	8.0	15.0					10.0		236		5	125		2	1.45	6990	36	7.6	2800	2370	300	260								0.24	0.60	2
27	3.70			7.5	7.4	20.0					9.9		146		7	63		2	1.48	7085	27	7.8	2690	2180	300	270								0.48	1.20	5
28	5.05	3	3	7.7	7.5	24.0					10.0		176		10	69		4	1.47	7565	27	7.7	2840	2360	280	250								1.29	1.10	2
29	4.13			7.8	8.0	20.0					9.8		240		14	124		3	1.51	6875	17	7.2	2980	2450	290	250								0.66	0.55	2
30	3.62			7.8	8.1	25.0					9.6		340		6	154		2	1.5	6140	14	7.6	2990	2410	300	270								0.84		2
31																																				
Tot.	114.21	15	15																41.63																	
Avg.	3.81	3	3	7.5	7.9	25.0					9.7		245		7	140		3	1.388	6419	26.77	7.373	2836	2300	319.7	263								0.90	1.05	3

RESIDENTIAL	INDUSTRIAL WASTE POPULATION EQUIVALENT					
COMMERCIAL	36256	26090	37036	Mike Stephenson	9616	
INDUSTRIAL	FLOW	CBOD	TSS	OPERATOR	CERT. NO.	
TOTAL NUMBER OF SEWER CONNECTIONS	0			(502)267-9257		
SEWER CONNECTIONS	0	X	4	=	0	SEWERED POPULATION
				PLANT TELEPHONE		



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

April 22, 2013

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 05:06 AM on April 19, 2013 and stopped at 02:52 PM on April 19, 2013.

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>
April 19 2013	05:06 AM	02:52 PM	7.635 MG	14.799 MGD	0.959 MG



Mr. Charlie Roth, District Supervisor
KY Division of Water
Page 2

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 duanw.wright@louisvillemsd.org.

Sincerely,

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

Duane V. Wright
Process Supervisor-Operations

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

eB File



Report Selections: Treatment Plant: MSD0255 JEFFERSONTOWN, Excluding PPI, CSO, Excluding LAT and SSL, Result: WUS, Act Code: DISDW, DISREV

KPDES # KY0025194	Facility ID MSD0255	Water Quality Treatment Center JEFFERSONTOWN	Receiving Stream of Treatment Center CHENOWETH RUN	Region CENT
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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 #	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
DISREV: RAIN EVENT DISCHARGE	1678108	04/19/13 05:06 AM	MARKS JR	OPS ASHIFT	DOCUMENTED	01/14/07	BLENDING AT JTOWN WQTC	UNAUTHORIZED DISCHARGE-WATER S	04/19/13 02:52 PM	

Spot Inspections:

Peak Plant Flow when Blending:	14,799,000 GPD
Total Plant Flow when Blending:	7,635,000 GAL
Discharge Amount:	958,564 GAL
Cause:	LACK OF CAPACITY DUE TO RAIN EVENT IN THE AREA
Clean Up:	PIPE DISCHARGE SUBMERGED- NO CLEAN UP
Control Zone:	PIPE DISCHARGE SUBMERGED- NO CONTROL ZONE
Impact:	NO IMPACT OBSERVED- PIPE DISCHARGE SUBMERGED
Repair:	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION.

Notifications:

04/19/13 05:54 AM	DISPUB	msd used signs to warn public
04/19/13 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov, Charlie.Roth@ky.gov
04/19/13 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov, Charlie.Roth@ky.gov



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

April 26, 2013

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 11:23 AM on April 24, 2013 and stopped at 01:33 PM on April 24, 2013.

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>
April 24 2013	11:23 AM	01:33 PM	5.457 MG	9.680 MGD	0.011 MG



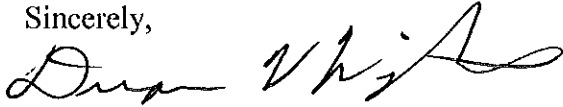
Mr. Charlie Roth, District Supervisor

KY Division of Water

Page 2

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 duane.wright@louisvillemsd.org.

Sincerely,

A handwritten signature in black ink, appearing to read "Duane V. Wright". The signature is fluid and cursive, with the first name "Duane" being more legible than the last name "Wright".

Duane V. Wright

Process Supervisor-Operations

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

eB File



Initiated Apr 01, 2013 12:00 AM thru Apr 30, 2013 11:59 PM

Report Selections: Treatment Plant: MSD0255 JEFFERSONTOWN, Excluding PPI, CSO, Excluding LAT and SSL, Result: WUS, Act Code: DISDW, DISREV

KPDES # KY0025194 (Cont'd)	Facility ID MSD0255	Water Quality Treatment Center JEFFERSONTOWN	Receiving Stream of Treatment Center CHENOWETH RUN	Region CENT
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Activity Code / Description	WO #	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
DISREV: RAIN EVENT DISCHARGE	1679762	04/24/13 11:23 AM	SINGLETON	OPS BSHIFT CENTRAL	DOCUMENTED	01/14/07	BLENDING AT JTOWN WQTC	UNAUTHORIZED DISCHARGE-WATER S	04/24/13 01:33 PM	

Spot Inspections:

Peal Plant Flow when Blending:	9,680,000 GPD
Total Plant Flow when Blending:	5,457,000 GAL
Discharge Amount:	10,794 GAL
Cause:	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT
Clean Up:	PIPE DISCHARGE SUBMERGED- NO CLEANUP
Control Zone:	PIPE DISCHARGE SUBMERGED- NO CONTROL ZONE
Impact:	NO IMPACT OBSERVED- PIPE DISCHARGE SUBMERGED
Repair:	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION.

Notifications:

04/24/13 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov, Charlie.Roth@ky.gov
04/24/13 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov, Charlie.Roth@ky.gov

Total Facilities Printed: 1
Total Work Orders Printed: 2