



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

June 23, 2009

Carolena Bentley, DMR Coordinator
Kentucky Division of Water
200 Fair Oaks Lane, 4th Floor
Frankfort, Kentucky 40601

RE: Jeffersontown Treatment Plant, KPDES No: KY0025194
Discharge Monitoring Report
May 2009

Dear Ms. Bentley:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operating Report (MOR) for the Jeffersontown WTP KPDES No.: KY0025194 for the month of May 2009.

Also included are copies of the Discharge Reports and plant Bypass (blending) letters.

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

Sincerely,

Duane V. Wright
Process Supervisor Central Region

DVW/Jeffersontown 0509.doc

Enclosures

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



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



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

May 11, 2009

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 WTP – 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 Wastewater Treatment Plant (WTP). The bypass started at 04:47 PM on May 08, 2009 and stopped at 08:38 AM on May 09, 2009.

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 WTP.

<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>
May 08 2009	04:47 PM	11:59 PM	6.79 MG	17.20 MGD	1.48 MG
May 09 2009	12:00 AM	08:38 AM	6.84 MG	12.88 MGD	0.45 MG

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, MSD
eB File





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

May 20, 2009

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

Re: Bypass Report for the Jeffertown WQTC (MSD0255) – KPDES Permit KY0025194

Dear Mr. Roth:

This plant experienced a bypass event and has been reported through our electronic notification system at approximately 01:00 PM on May 18, 2009, referencing Work Order 908502 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: Momentary LG&E power outage to plant caused the Ultraviolet (UV) disinfection system to fail.
- Period of noncompliance: Starting 02:29 AM on May 18, 2009 and stopping 03:10 AM on May 18, 2009.
- Steps taken or planned to reduce, eliminate and prevent recurrence: We will review our preventive maintenance records of plant UV system and evaluate the UV system's uninterrupted power supply(UPS).

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, MSD
eB File



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

MAJOR
BASIN (L)
S - FINAL
FLOW 800 TSS 60 PH.
EFFLUENT
*** NO DISCHARGE ***

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME MRS JEFFERSON TOWN STP
ADDRESS 170 CEDAR CREEK STP
170 CEDAR CREEK RD
LOUISVILLE KY 40211
FACILITY MRS JEFFERSON TOWN STP
LOCATION JEFFERSON TOWN KY 40299
ATTN DENNIS THOMASSON BR METRO OPS

KY0025194
PERMIT NUMBER
000000
DISCHARGE NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
07	05	01		07	05	01

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			
000000 EFFLUENT GROSS VALUE PH	*****	*****	*****		8	*****	*****	1.0	0	1/1	CR
000000 EFFLUENT GROSS VALUE PH	*****	*****	*****	****	INST MIN	*****	*****	MG/L		FREE/	GRAB
004000 EFFLUENT GROSS VALUE PH	*****	*****	*****	****	6.4	*****	7.1	1.0	0	1/1	CR
004000 EFFLUENT GROSS VALUE PH	*****	*****	*****	****	MINIMUM	*****	MAXIMUM	30		FREE/	GRAB
004000 SUSPENDED RAW SEW/INFLUENT	5607	5284	LBS/DY	*****	237	REPORT	REPORT	MG/L	0	1/1	CP
004000 SUSPENDED RAW SEW/INFLUENT	REPORT	REPORT	LBS/DY	*****	REPORT	REPORT	REPORT	MG/L		FREE/	COMPOS
004000 SUSPENDED EFFLUENT GROSS VALUE	196	262	LBS/DY	*****	7	30	45	MG/L	0	1/1	CP
004000 SUSPENDED EFFLUENT GROSS VALUE	1000	1501	LBS/DY	*****	MO AVG	MX WK AV	MX WK AV	MG/L		FREE/	COMPOS
006100 TOTAL (AS N) RAW SEW/INFLUENT	377	430	LBS/DY	*****	15	REPORT	REPORT	MG/L	0	1/1	CP
006100 TOTAL (AS N) RAW SEW/INFLUENT	REPORT	REPORT	LBS/DY	*****	REPORT	REPORT	REPORT	MG/L		FREE/	COMPOS
006100 TOTAL (AS N) EFFLUENT GROSS VALUE	21	65	LBS/DY	*****	0.7	4	5	MG/L	0	1/1	CP
006100 TOTAL (AS N) EFFLUENT GROSS VALUE	133	200	LBS/DY	*****	MO AVG	MX WK AV	MX WK AV	MG/L		FREE/	COMPOS
006600 TOTAL (AS P) EFFLUENT GROSS VALUE	10	13	LBS/DY	*****	0.4	1.0	1.5	MG/L	0	1/1	CP
006600 TOTAL (AS P) EFFLUENT GROSS VALUE	33	50	LBS/DY	*****	MO AVG	MX WK AV	MX WK AV	MG/L		FREE/	COMPOS

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER H. J. STEINBOCK, JR. EXECUTIVE DIRECTOR TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <i>Ernest V. Knight</i>	TELEPHONE 502 584-6000	DATE 07 01 07
--	---	---	---------------------------	------------------

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
USE MO AVG FOR BOD/TSS REMV, REPT IN MINIMUM COLUMN.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

MAJOR

(SUBR LV)

F - FINAL

FLOW BOD TES DO PH

EFFLUENT

*** NO DISCHARGE ***

JEFF

NAME MSO JEFFERSONTOWN STP
ADDRESS C/O CEDAR CREEK STP
2406 CEDAR CREEK RD
LOUISVILLE KY 40211
FACILITY MSO JEFFERSONTOWN STP
LOCATION JEFFERSONTOWN KY 40299
ATTN: DIMITS THOMASSEN OR METRO OPS

KY0025194
PERMIT NUMBER

0012
DISCHARGE NUMBER

MONITORING PERIOD

FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	07	05	01		07	05	01

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			
FLOW IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	3.30	6.54	(03)	*****	*****	*****				
80090 1 0 0	PERMIT REQUIREMENT	REPORT NO AVG	REPORT MX WK AV	MOD	*****	*****	*****	****			
EFFLUENT GROSS VALUE											
BOD, CARBONACEOUS GENERAL	SAMPLE MEASUREMENT	*****	*****		*****	4	5	(13)		0/01	GR
74095 1 0 0	PERMIT REQUIREMENT	*****	*****	****	*****	200	400	30 DA GED		FREE/	GRAB
EFFLUENT GROSS VALUE						30DA GED	7 DA GED	100HL		WEEK	
BOD, CARBONACEOUS 05 DAY, 20C	SAMPLE MEASUREMENT	3543	3543	(13)	*****	142	185	(19)		0/01	CP
80081 1 0 0	PERMIT REQUIREMENT	REPORT MO AVG	REPORT MX WK AV	LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	MG/L		FREE/	COMPOS
RAW SEW INFLUENT										WEEK	
BOD, CARBONACEOUS 05 DAY, 20C	SAMPLE MEASUREMENT	98	158	(13)	*****	3	4	(19)		0/01	CP
80082 1 0 0	PERMIT REQUIREMENT	667	1001	LBS/DY	*****	20	30	MO AVG		FREE/	COMPOS
EFFLUENT GROSS VALUE						MO AVG	MX WK AV	MG/L		WEEK	
BOD, CARBONACEOUS 05 DAY, 20C	SAMPLE MEASUREMENT	*****	*****		98	*****	*****	(20)		1/30	CA
80091 1 0 0	PERMIT REQUIREMENT	*****	*****	****	85	*****	*****	PERCENT		ONCE/	CALCUL
PERCENT REMOVAL					MG AVG					MONTH	
BOD, CARBONACEOUS 05 DAY, 20C	SAMPLE MEASUREMENT	*****	*****		97	*****	*****	(21)		0/30	CA
81011 1 0 0	PERMIT REQUIREMENT	*****	*****	****	85	*****	*****	PERCENT		ONCE/	CALCUL
PERCENT REMOVAL					MO MIN					MONTH	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
H.J. SCHWABER, JR.
EXECUTIVE DIRECTOR
TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

James V. Wright
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE
DATE
AREA CODE NUMBER YEAR MO DAY
702 544 1000 04 16 26

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
USE MO AVG FOR BOD/TES REMV REPT IN MINIMUM COLUMN.

NAME OF TREATMENT PLANT JEFFERSONTOWN WTP
 KPDES PERMIT NUMBER KY0025194

COUNTY JEFFERSON
 PLANT CAPACITY 4.0 MGD

MONTH OF: May 2009
 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 X 1000	MLVSS X 1000	WASTE	DISSOLVED OXYGEN (mg/L)	MLSS (mg/L) X 1000	MLVSS (mg/L) X 1000	30 MIN.	60 MIN.	GALLONS X 1000	% DRY SOLIDS	% VOLATILE SOLIDS	% DRY SOLIDS	% VOLATILE SOLIDS	WITHDRAWN GALLONS X 1000	TOTAL PHOS. (mg/L)	NH3-N (mg/L)	FECAL COLIFORM (COLONIES/100ML)	
																																				RETURN
1	4.39			6.7	7.1								9.3	62	10	54	3	1.51	6.62	42		8.6	2.12	1.51	170	150							0.28	1.60	4	
2	4.57			6.7	6.9								9.2	73	6	50	3	1.48		46					230	210							0.22	0.06	4	
3	3.86			6.8	7.0								9.3	114	5	74	3	1.49		57					230	220							0.29	0.06	4	
4	4.13			6.5	6.5								9.5	156	4	67	3	1.52	7.43	30		8.7	3.15	2.54	220	200							0.25	0.08	4	
5	3.36			6.4	6.4								9.5	167	5	116	3	1.53	6.05	42		8.4	3.05	2.22	240	210							0.29	0.06	4	
6	4.36	3	3	6.5	7.0								9.4	264	5	173	6	1.5	5.9	35		8.2	3.68	2.32	220	210							0.32	0.06	4	
7	4.33			6.5	6.4								9.5	187	4	115	3	1.49	9.36	35		8.3	3.06	2.49	180	170							0.30	0.06	17	
8	6.79			6.6	7.3								9.6	125	9	55	9	1.49	8.8	38		8.1	3.24	2.45	200	190							0.54	1.10	7	
9	6.84			6.5	6.9								9.6	78	8	48	3	1.4		46		7.8			140	130							0.40	1.00	4	
10	4.14			6.5	6.6								9.4	146	9	59	3	1.42		40					170	160							0.34	1.40	4	
11	3.55			6.6	6.9								9.8	81	4	96	3	1.41	8.57	40		8.2	2.93	2.28	180	160							0.23	3.00	4	
12	2.89			7.0	6.8								9.9	207	6	122	3	1.42		40		8.1	3.27	2.09	180	180							0.29	2.90	4	
13	3.05	3	3	6.4	6.7								9.1	333	6	284	3	1.49	5.77	40		7.7	3.08	2.07	190	180							0.26	3.70	4	
14	3.36			6.5	6.8								8.6	289	5	187	3	1.48	7.22	53		7.6	3.18	2.3	480	180							0.27	1.30	4	
15	2.94			6.6	6.9								9.5	143	5	192	3	1.49	6.62	53		7.9	2.98	2.13	180	180							0.34	1.10	1	
16	3.44			6.8	6.8								9.0	32	6	50	3	1.5		41		7.5			170	160							0.32	0.39	4	
17	2.52			6.7	7.0								9.3	120	7	128	3	1.5		41		7.3			170	150							0.38	0.06	4	
18	2.35			6.8	6.9								8.8	245	8	392	3	1.52	5.96	50		7.1	2.8	1.95	170	150							0.42	0.39	4	
19	2.20			6.8	6.9								9.4	206	9	160	3	1.55	5.76	50		8.8	2.77	2	150	150							0.39	0.62	4	
20	2.15	3	3	6.7	6.9								8.9	176	11	126	3	1.56	5.06	50		8.1	2.87	2.03	160	150							0.44	0.39	4	
21	2.19			6.6	6.8								9.1	162	11	144	3	1.56	5.06	50		6.7	2.77	1.88	160	150							0.55	0.73	4	
22	2.15			6.5	6.9								8.9	231	15	138	3	1.58	5.23	37		7.1	2.47	1.69	160	150							0.43	0.22	4	
23	2.22			6.6	7.1								9.0	184	9	126	3	1.58		38					170	160							0.41	0.06	10	
24	2.01			6.6	7.1								8.9	206	6	268	3	1.59		40					170	160							0.64	0.06	4	
25	2.45			6.7	6.9								8.6	146	10	135	3	1.58		38					150	150							0.48	0.06	4	
26	3.05			6.7	6.9								8.7	120	6	294	3	1.6	6.25	46		7.3	2.95	2.13	150	150							0.39	0.45	4	
27	2.54	3	3	6.7	6.9								8.4	207	7	156	3	1.54	5.93	41		7.5	2.81	2.06	150	150							0.46	0.45	4	
28	2.75			6.8	6.9								8.8	347	11	177	3	1.59	6.9	42		7.2	2.86	2.71	180	150							0.45	0.06	4	
29	2.62			7.0	7.0								8.4	361	6	192	3	1.59	7.03	53		7.4	3.05	2.19	150	150							0.32	0.06	4	
30	2.90			7.0	6.9								9.0	232	7	108	3	1.59		41					170	150							0.39	0.06	4	
31	2.08			6.8	7.1								9.0	1960	7	109	3	1.57		41					150	150							0.37	0.06	4	
Tot	102.16	12	12															47.06																		
Avg.	3.30	3	3	6.7	6.9								9.1	237	7	142	3	1.518	6.676	43.1		7.809	2.955	2.152	176.5	166.5							0.37	0.69	4	

RESIDENTIAL COMMERCIAL INDUSTRIAL FLOW
 31385

INDUSTRIAL WASTE POPULATION EQUIVALENT
 22920 CBOD
 31072 TSS

mike stephenson OPERATOR
 9616 CERT. NO.

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

(502) 267-9257
 PLANT TELEPHONE
 (502) 267-9257



Metropolitan Sewer District

IMSAST0004

Overflow Report

Initiated May 01, 2009 12:00 AM thru May 31, 2009 11:59 PM

Report Selections: Excluding PPI, CSO, Prob Code: BLEND, Result: WUS, Act Code: DISDW, DISREV, DISSUS

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

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

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Status Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	905866	05/08/09 04:47 PM	ELDER	PFEISTER	DOCUMENTED	01/14/07	BLENDING AT JTOWN WQTC	UNAUTHORIZED, DISCHARGE - WATERS	05/09/09 08:38 AM	

Spot Inspections:

Peak Plant Flow when Blending:	17,200,000 GPD
Total Plant Flow when Blending:	13,630,000 GAL
Discharge Amount:	1,934,989 GAL
Cause:	RAIN EVENT IN AREA
Clean Up:	NO CLEANUP NECESSARY
Control Zone:	PERMANENT SIGNS ALONG CREEK
Impact:	NONE OBSERVED
Repair:	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION

Notifications:

05/08/09 05:11 PM	DISPUB	Permenant signs placed along creek
05/08/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
05/08/09 01:00 PM	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: 1
Total Work Orders Printed: 1



Metropolitan Sewer District

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

KPDES # KY0025194 (Cont'd)	Facility ID MSD0255	Water Quality Treatment Center JEFFERSONTOWN	Receiving Stream of Treatment Center CHENOWETH RUN	Region CENT
--------------------------------------	-------------------------------	--	--	-----------------------

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	908502	05/18/09 02:29 AM	ELDER	LAMB DIN JR	DOCUMENTED	01/14/07	BYPASS AT WQTC	UNAUTHORIZED DISCHARGE - WATERS	05/18/09 03:10 AM	

Spot Inspections:

Discharge Amount:	62,383 GAL
Cause:	POWER FAIL LG&E (BLIP) CAUSED DEVICENET TO SHUT DOWN
Clean Up:	NOT POSSIBLE, FLOWS DIRECT TO CREEK
Control Zone:	PERMANANT SIGNS ALONG CREEK
Impact:	NONE OBSERVED
Repair:	PUT UV IN MANUAL & RESET DEVICE NET TO RESTORE UV SYSTEM TO SERVICE

Notifications:

05/18/09 07:24 AM	DISPUB	Permanant signs along creek
05/18/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov