



MSD

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)

March 25, 2008

Ms. Kathy Thurman  
Kentucky Division of Water  
14 Reilly Road  
Frankfort, Kentucky 40601

RE: Jeffersontown Treatment Plant, KPDES No: KY0025194  
Discharge Monitoring Report  
February 2008

Dear Ms. Thurman:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operating Report (MOR) report for the Jeffersontown Wastewater Treatment Plant, for the month of February 2008. Also enclosed are the discharge reports for JTWTP and the letters associated with each blending event. If you have any questions concerning the attached DMR's, please contact me at (502) 239-7695.

Sincerely,

James E. Porter Jr.  
Process Supervisor Central Region

JEP/Jeffersontown 0208.doc

Enclosures

cc: C. Roth (DOW Louisville)  
E. Brady  
R. Shaw  
P. Burgin  
T. Singleton



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

NAME OF TREATMENT PLANT JEFFERSONTOWN WTP  
 KPDES PERMIT NUMBER KY0025194

COUNTY JEFFERSON  
 PLANT CAPACITY 4.0 MGD

MONTH OF: February 2008  
 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	GALDAYS X 1000	MLSS X 1000	MLVSS X 1000	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	GALLONS X 1000	% DRY SOLIDS	% VOLATILE SOLIDS	% DRY SOLIDS	% VOLATILE SOLIDS	WITHDRAWN GALLONS X 1000								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	4.88																1.05	9.61	29	6.5	3.1	2.38	300	260															
2	4.32																1.1		38					340	310														
3	4.32										190	6	74	3	1.08		38	5.6					320	280									0.41	0.06	18				
4	5.17			7.3	6.8		22.0		8.7	178	8	112	3	1.11	8.15	42	5	3.18	2.44				340	270									0.56	0.06	3				
5	11.13			6.9	7.0		16.0		8.0					1.06	9.29	45	5.2	2.89	2.37				400	300											0.85	2.10	2350		
6	11.10	3	3							66	28	62	7	1.11		21	2.2						200	170															
7	6.36			7.2	6.8		8.0		9.6					2.2	9.7	17	4.2	2.13	1.61				200	180															
8	5.42													1.18	7.93	10	4	1.78	1.34				170	150															
9	4.91													1.38		24	3.6						180	170															
10	4.44									184	6	98	3	1.31		33	4.2						180	160									0.26	0.84	3				
11	4.10			6.8	6.8		15.0		8.2	271	7	165	3	1.26	7.01	39	3.4	2.76	2.14				370	270									0.36	0.06	13				
12	10.63			7.3	6.7		34.0		9.8					1.17	7.75	43	4.4	2.68	1.73				400	350															
13	7.82	3	3							36	27	44	9	1.1	10.7	38	4.2	2.42	1.89				270	200									1.04	1.60	12				
14	6.03			6.7	7.3		10.0		9.2					1.82	8.37	28	4.6	1.86	1.41				210	180															
15	4.99													1.02	8.84	30	4.4	2.32	1.79				240	200															
16	6.59													0.98		23							260	220															
17	6.52									75	7	51	3	1.19		23							250	210										0.48	1.30	64			
18	6.31			6.8	6.7		10.0		9.0	131	10	95	4	1.15	11.2	30	4.2	2.51	2.16				300	200									0.48	3.80	60				
19	4.85			6.7	7.0		7.0		9.2	132	8	187	5	1.13	8.75	26	4.4	2.37	1.83				300	240									0.57	1.10	13				
20	3.89	3	3	6.7	6.9		5.0		8.8					1.17	9.34	26	4	2.52	1.95				300	230															
21	3.89													1.19	6.89	52	4.2	2.79	2.13				350	270															
22	7.81													1.16	9.18	50	4.3	2.31	1.73				270	210															
23	6.69													1.15		53	4.5						300	250															
24	4.92									98	14	248	3	1.08		35	4						300	230									0.70	0.78	200				
25	4.37			6.6	7.0		10.0		8.8	134	6	41	3	1.24	9.47	28	4.2	2.71	2.1				290	240									0.63	0.06	31				
26	5.03			7.0	6.9		6.0		9.8	167	6	89	3	1.26	8.5	36	5.6	2.71	2.08				280	220									0.83	0.78	8				
27	4.45	3	3	6.7	6.8		8.0		9.6					1.2	8.69	41	4.9	2.87	2.22				290	240															
28	4.03													1.17	8.01	36	5.8	2.74	2.13				320	240															
29	4.44													1.19	7.89	40	5.5	3.02	2.38				300	250															
30																																							
31																																							
Tot.	####	12	12														35.21																						
Avg.	5.84	3	3		6.9		12.6		9.1	139	11	106	4	1.214	8.764	33.59	4.504	2.584	1.991				283.8	231								0.60	1.04	27					

RESIDENTIAL  
 COMMERCIAL  
 INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT  
 55635      30235      32132  
 FLOW      CBOD      TSS

OPERATOR

CERT. NO.

TOTAL NUMBER OF SEWER CONNECTIONS

SEWER CONNECTIONS      X 4 = 0 SEWERED POPULATION

PLANT TELEPHONE

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

MAJOR  
(SUBR LV)  
F - FINAL  
FLOW 800 TSS 80 PH  
EFFLUENT

JEFFE

\*\*\* NO DISCHARGE [ ] \*\*\*

NOTE: Read Instructions before completing this form.

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

NAME MSB JEFFERSONTOWN STP  
ADDRESS C/O CEDAR CREEK STP  
8405 CEDAR CREEK RD  
LOUISVILLE KY 40211  
FACILITY MSB JEFFERSONTOWN STP  
LOCATION JEFFERSONTOWN KY 40299  
ATTN: DENNIS THOMASSON, SR METRO OPS

KY0025194  
PERMIT NUMBER

001 2  
DISCHARGE NUMBER

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	05	02	01		05	02	27

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
OXYGEN, DISSOLVED (DO)	00300 1 0 0	*****	*****		8.0	*****	*****	( 19)		3/4	WEEK
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	INST MIN	*****	*****	MG/L		3/4	WEEK
PH	00400 1 0 0	*****	*****		6.7	*****	7.4	( 12)		3/4	WEEK
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	MINIMUM	*****	MAXIMUM	SU		3/4	WEEK
SOLIDS, TOTAL SUSPENDED	00530 0 0 0	*****	*****	( 26)	*****	*****	*****	( 19)		3/4	WEEK
RAW SEW/INFLUENT	PERMIT REQUIREMENT	*****	*****	*****	REPORT	REPORT	REPORT	MG/L		3/4	WEEK
SOLIDS, TOTAL SUSPENDED	00500 1 0 0	*****	*****	( 26)	*****	*****	*****	( 19)		3/4	WEEK
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	MD AVG	MX WK AV	MX WK AV	MG/L		3/4	WEEK
NITROGEN, AMMONIA TOTAL (AS N)	00610 0 0 0	*****	*****	( 26)	*****	*****	*****	( 19)		3/4	WEEK
RAW SEW/INFLUENT	PERMIT REQUIREMENT	*****	*****	*****	REPORT	REPORT	REPORT	MG/L		3/4	WEEK
NITROGEN, AMMONIA TOTAL (AS N)	00610 1 2 0	*****	*****	( 26)	*****	*****	*****	( 19)		3/4	WEEK
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	MD AVG	MX WK AV	MX WK AV	MG/L		3/4	WEEK
PHOSPHORUS, TOTAL (AS P)	00665 1 2 1	*****	*****	( 26)	*****	*****	*****	( 19)		3/4	WEEK
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	MD AVG	MX WK AV	MX WK AV	MG/L		3/4	WEEK
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	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.							TELEPHONE	DATE		
H. J. SCHEIDT SR.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT										
TYPED OR PRINTED								AREA CODE	NUMBER	YEAR	MO

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

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

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

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)  
NAME HSB JEFFERSONTOWN STP  
ADDRESS C/O CEDAR CREEK STP  
8405 CEDAR CREEK RD  
LOUISVILLE KY 40211  
FACILITY HSB JEFFERSONTOWN STP  
LOCATION JEFFERSONTOWN KY 40299  
ATTN: DENNIS THOMASSON, SR METRO DPS

KY0025194  
PERMIT NUMBER

001 2  
DISCHARGE NUMBER

MAJOR (SUBR LV)  
F - FINAL JEFFE  
FLOW BOD TSS DO PH  
EFFLUENT  
\*\*\* NO DISCHARGE [ ] \*\*\*

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
08	02	01		08	02	27

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 80050 1 0 0	5.84	11.13	( 03 )	*****	*****	*****					
EFFLUENT GROSS VALUE	REPORT	REPORT	MGD	*****	*****	*****	****			CONTIN. CONTIN.	
COLIFORM, FECAL GENERAL 74055 1 0 0	*****	*****	****	*****	27.00	50.25	( 13 )			FREE/GRAB	
EFFLUENT GROSS VALUE	REPORT	REPORT	****	*****	30DA GED	7 DA GED	100ML			WEEK	
BOD, CARBONACEOUS 05 DAY, 20C 80052 2 0 0	4676.00	5135.0	( 26 )	*****	106.00	126.00	( 19 )			WEEK	
RAW SEW/INFLUENT	REPORT	REPORT	LBS/DY	*****	REPORT	REPORT	MG/L			WEEK	
BOD, CARBONACEOUS 05 DAY, 20C 80052 1 0 0	218.00	295.00	( 26 )	*****	4.00	5.00	( 19 )			WEEK	
EFFLUENT GROSS VALUE	667	1001	LBS/DY	*****	20	30	MG/L			WEEK	
BOD, CARB-5 DAY, 20 DEG C, PERCENT REMVL 80091 1 0 0	*****	*****	****	94.3	95	*****	( 23 )			MONTH	
PERCENT REMOVAL	*****	*****	****	MD AVG	*****	*****	PER-CENT			MONTH	
SOLIDS, SUSPENDED PERCENT REMOVAL 81011 1 0 0	*****	*****	****	85.3	85	*****	( 23 )			MONTH	
PERCENT REMOVAL	*****	*****	****	MD MIN	*****	*****	PER-CENT			MONTH	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER D. J. SCHWABER, JR. BY SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER 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>Dennis Thomasson, Sr.</i>	TELEPHONE 510 540-6000	DATE 08 23 24
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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
USE MD AVG FOR BOD/TSS REMV; REPT IN MINIMUM COLUMN.



**MSD**

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

February 15, 2008

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:

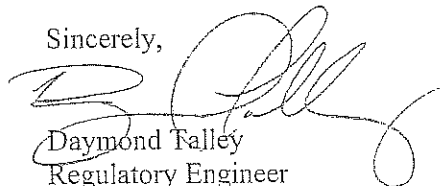
This plant experienced a bypass (blending) event starting at 11:40 AM on February 12, 2008 and stopping at 8:40 PM on February 13, 2008. MSD is providing this letter as a written report of the bypass as required per 401 KAR 5:065.

In the table listed below is the total number of gallons of wastewater that was bypassed (blended) around the secondary treatment train of the plant. Mitigation activities to minimize the extent and impact of the discharge included maximization of the peak flow through secondary treatment to minimize the total amount of wastewater that did not receive full secondary treatment prior to receiving UV disinfection, and then discharged through the permitted outfall. The cause of the bypass (blending) event was a combination of a snow, and rain/ice mixture storm that impacted the Jeffersontown collection system. The bypassed (blended) flow entered Chenoweth Run at mile point 5.3.

Date	Start Time	Stop Time	Total Plant Flow	Peak Plant Flow	Total Blended flow
February 12, 2008	11:40 AM	11:59 PM	8.449 MGD	13.451 MGD	1.807 MGD
February 13, 2008	12:00 AM	8:40 PM	8.720 MGD	11.654 MGD	1.696 MGD

Please advise if you have any questions concerning this information. You can contact me on my office telephone at (502) 540-6980, my cell phone at (502) 552-7970 or via email at [talley@msdlouky.org](mailto:talley@msdlouky.org).

Sincerely,

  
Daymond Talley  
Regulatory Engineer

cc: D. Guthrie R. Shaw B. Bingham  
D. Thomasson M. Jenkins J. Porter



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



MSD

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

February 25, 2008

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:

This plant experienced a bypass (blending) event starting at 12:40 PM on February 22, 2008 and stopping at 5:49 AM on February 23, 2008. MSD is providing this letter as a written report of the bypass as required per 401 KAR 5:065.

In the table listed below is the total number of gallons of wastewater that was bypassed (blended) around the secondary treatment train of the plant. Mitigation activities to minimize the extent and impact of the discharge included maximization of the peak flow through secondary treatment to minimize the total amount of wastewater that did not receive full secondary treatment prior to receiving UV disinfection, and then discharged through the permitted outfall. The cause of the bypass (blending) event was a combination of a snow, and rain/ice mixture storm that impacted the Jeffersontown collection system. The bypassed (blended) flow entered Chenoweth Run at mile point 5.3.

Date	Start Time	Stop Time	Total Plant Flow	Peak Plant Flow	Total Blended flow
February 22, 2008	12:40 PM	11:59 PM	7.831 MGD	9.818 MGD	0.945 MGD
February 23, 2008	12:00 AM	5:49 AM	6.515 MGD	7.969 MGD	0.111 MGD

Please advise if you have any questions concerning this information. You can contact me on my office telephone at (502) 540-6980, my cell phone at (502) 552-7970 or via email at [talley@msdlouky.org](mailto:talley@msdlouky.org).

Sincerely,

Daymond Talley  
Regulatory Engineer

cc: D. Guthrie  
D. Thomasson

R. Shaw  
M. Jenkins

B. Bingham  
J. Porter



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

<b>KPDES #</b> KY0025194	<b>Facility ID</b> MSD0255	<b>Treatment Plant Name</b> JEFFERSONTOWN		<b>Receiving Stream of Treatment Plant</b> CHENOWETH RUN		<b>Region</b> CENT			
<b>Facility Type</b> SPL Sewer Treatment Plant	<b>Facility ID</b> MSD0255	<b>Facility Address</b> 10725 OLD TAYLORSVILLE RD	<b>If Pump Station, Name of Pump Station:</b>		<b>Receiving Stream</b> CHENOWETH RUN	<b>Discharge to</b> STREAM			
<u>Activity Code / Description</u> DISREV: RAIN EVENT DISCHARGE	<u>WO #</u> 751281	<u>Initiated</u> 02/12/08 11:43 AM	<u>Initiated By</u> MARKS JR	<u>Assigned To</u> PORTER JR	<u>Disch Stat</u> D	<u>Event Date</u> 01/14/07	<u>Problem</u> BLENDING AT JTOWN WTP	<u>Resolution</u> DISCHARGE TO WATERS OF THE US	<u>Completed</u> 02/13/08 08:40 PM

**Spot Inspections:**

Discharge Amount:	2,894,355 GAL
Cause:	LACK OF SYSTEM CAPACITY DUE TO RAIN
Clean Up:	NO CLEANUP REQUIRED, EFFLUENT RECEIVED PRIMARY AND UV TREATMENT
Control Zone:	SIGNS POSTED
Impact:	NO IMPACTS OBSERVED
Repair:	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION



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

KPDES #	Facility ID	Treatment Plant Name	Receiving Stream of Treatment Plant	Region
KY0025194 (Cont'd)	MSD0255	JEFFERSONTOWN	CHENOWETH RUN	CENT

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Stat</u>	<u>Event Date</u>	<u>Problem</u>	<u>Resolution</u>	<u>Completed</u>
DISREV: RAIN EVENT DISCHARGE	745234	02/22/08 12:39 PM	ELDER	PORTER JR	D	01/14/07	BLENDING AT JTOWN WTP	DISCHARGE TO WATERS OF THE US	02/23/08 05:49 AM

**Spot Inspections:**

Discharge Amount:	1,056,000 GAL
Cause:	LACK OF SYSTEM CAPACITY DUE TO RAIN
Clean Up:	NO CLEANUP REQUIRED, EFFLUENT RECEIVED PRIMARY AND UV TREATMENT
Control Zone:	NO CONTROL ZONE REQUIRED
Impact:	NO IMPACTS OBSERVED
Repair:	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION

**Notifications:**

02/22/08 12:58 PM	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
02/22/08 12:58 PM	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov