



**MSD**

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

February 25, 2009

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

RE: Jeffersontown Treatment Plant, KPDES No: KY0025194  
Discharge Monitoring Report  
January 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 January 2009. Also attached is the Discharge Reports and a Bypass (Blending) Report for the month of January.

If you have any questions concerning the attached DMR's, please contact me at (502) 239-7695.

Sincerely,

Kevin D. Ries  
Process Supervisor Central Region

KDR/Jeffersontown 1208.doc

Enclosures

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



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

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

MAJOR  
(SUBR LV)

F - FINAL  
FLOW 800 TSS 80 PH  
EFFLUENT

JEFF

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

NOTE: Read Instructions before completing this form.

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

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

KY0025194  
PERMIT NUMBER

001 2  
DISCHARGE NUMBER

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

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	*****	*****		9	*****	*****	( 19 )		03/07	LR
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	INST MIN	*****	*****	MG/L		THREE/WEEK	GRAB
PH	00400 1 0 0	*****	*****		6.8	*****	7.7	( 12 )		03/07	LR
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	MINIMUM	*****	MAXIMUM	BU		THREE/WEEK	GRAB
SOLIDS, TOTAL SUSPENDED	00530 8 0 0	5447	8011	( 26 )	*****	232	393	( 19 )		03/07	CP
RAW SEW/INFLUENT	PERMIT REQUIREMENT	REPORT	REPORT		*****	REPORT	REPORT			THREE/WEEK	COMPL
		MO AVG	MX WK AV	LBS/DY		MO AVG	MX WK AV	MG/L			
SOLIDS, TOTAL SUSPENDED	00530 1 0 0	205	224	( 26 )	*****	8	9	( 19 )		03/07	CP
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	1000	1502		*****	30	45			THREE/WEEK	COMPL
		MO AVG	MX WK AV	LBS/DY		MO AVG	MX WK AV	MG/L			
NITROGEN, AMMONIA TOTAL (AS N)	00610 8 0 0	372	407	( 26 )	*****	15	19	( 19 )		03/07	CP
RAW SEW/INFLUENT	PERMIT REQUIREMENT	REPORT	REPORT		*****	REPORT	REPORT			THREE/WEEK	COMPL
		MO AVG	MX WK AV	LBS/DY		MO AVG	MX WK AV	MG/L			
NITROGEN, AMMONIA TOTAL (AS N)	00610 1 2 0	23	32	( 26 )	*****	1	2	( 19 )		03/07	CP
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	334	500		*****	10	15			THREE/WEEK	COMPL
		MO AVG	MX WK AV	LBS/DY		MO AVG	MX WK AV	MG/L			
PHOSPHORUS, TOTAL (AS P)	00665 1 2 1	15	20	( 26 )	*****	0.6	0.7	( 19 )		03/07	CP
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	87	100		*****	2.0	3.0			THREE/WEEK	COMPL
		MO AVG	MX WK AV	LBS/DY		MO AVG	MX WK AV	MG/L			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
H.J. Schradin, Jr.  
Exec 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  
H.J. Schradin, Jr.

TELEPHONE  
502 546-6000  
DATE  
9 7 07  
AREA CODE NUMBER YEAR MO DAY

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

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

MAJOR  
(SUBR LV)

F - FINAL

FLOW BOD TSS DO PH

EFFLUENT

\*\*\* NO DISCHARGE \*\*\*

NOTE: Read Instructions before completing this form.

JEFFE

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

NAME MSD JEFFERSONTOWN STP

ADDRESS C/O CEDAR CREEK STP

8405 CEDAR CREEK RD

LOUISVILLE

KY 40211

FACILITY MSD JEFFERSONTOWN STP

LOCATION JEFFERSONTOWN

KY 40299

ATTN: DENNIS THOMASSON, SR METRO OPS

KY0025194

001 2

PERMIT NUMBER

DISCHARGE NUMBER

MONITORING PERIOD

YEAR	MO	DAY	TO	YEAR	MO	DAY
07	01	01		07	01	31

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	3.07	3.34	( G3)	*****	*****	*****	*****	*****	0	CN	CN
COLIFORM, FECAL GENERAL 74055 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	*****	*****	*****	0	03/07	CR
BOD, CARBONACEOUS 05 DAY, 20C 20082 0 0 0 RAW SEW/INFLUENT	4096	7159	( 26)	*****	*****	*****	*****	*****	0	03/07	CP
BOD, CARBONACEOUS 05 DAY, 20C 20082 1 0 0 EFFLUENT GROSS VALUE	104	136	( 26)	*****	*****	*****	*****	*****	0	03/07	CP
BOD, CARBONACEOUS 05 DAY, 20C 20091 0 0 0 PERCENT REMOVAL	*****	*****	*****	*****	*****	*****	*****	*****	0	01/31	CA
SOLIDS, SUSPENDED PERCENT REMOVAL 51011 0 0 0 PERCENT REMOVAL	*****	*****	*****	*****	*****	*****	*****	*****	0	01/31	CA

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
H. J. Schardain, Jr.  
Exec. 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  
H. J. Schardain, Jr.

TELEPHONE  
502 546-6010  
DATE  
9 2 75  
AREA CODE NUMBER YEAR MO DAY

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

NAME OF TREATMENT PLANT JEFFERSONTOWN WTP  
 KPDES PERMIT NUMBER KY0025194

COUNTY JEFFERSON  
 PLANT CAPACITY 4.0 MGD

MONTH OF: January 2009  
 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	GAL/DAY X 1000	MLSS X 1000	MLVSS X 1000	DISSOLVED OXYGEN (mg/L)	MLSS (mg/L) X 1000	MLVSS (mg/L) X 1000	30 MIN.	60 MIN.	SETTLED SLUDGE VOLUME	RAW			HAULED			TOTAL PHOS. (mg/L)	NH3-N (mg/L)	FECAL COLIFORM (COLONIES/100ML)
																											GALLONS X 1000	% DRY SOLIDS	% VOLATILE SOLIDS	% DRY SOLIDS	% VOLATILE SOLIDS	WITHDRAWN GALLONS X 1000			
1	3.13			7.3	7.7						80	7	60	3	1.33		40	7			2.56	2.37	210	200							0.49	0.06	3		
2	3.10			7.4	7.5	18.0					112	6	96	3	1.37		41	7.2					220	200							0.62	0.62	3		
3	3.17			7.4	7.3	12.0					55	7	46	3	1.39		41	7.4					190	190							0.52	0.73	3		
4	3.11			7.4	7.2	14.0					75	5	58	3	1.41		41						180	170							0.55	0.06	3		
5	2.50			7.2	7.0	7.0					216	6			1.39	6.95	51	7.2	2.8	1.99			170	160							0.57	0.39	3		
6	3.40			7.2	7.7	17.0					137	9	82	3	1.39	7.41	48	7	2.82	2.2			160	150							0.57	1.20	8		
7	4.28	3	3	7.3	6.8	10.0					150	7	114	3	1.37	8.29	49	7.4	3.11	2.34			150	140							0.62	0.95	3		
8	3.30			7.1	7.2	13.0					152	7	105	3	1.41	7.23	49	9	2.87	2.09			160	160							0.48	0.82	3		
9	3.55			7.2	7.3						230	6	59	3	1.38	6.76	49	9.5	2.74	2.03			170	170							0.51	1.10	3		
10	3.80			7.2	7.2						128	14	21	11	1.38		49	8					180	170							1.17	0.06	3		
11	3.35			7.0	7.3	13.0					96	8	99	3	1.37		42						150	140							0.71	0.56	7		
12	3.77			7.7	7.6	13.0					270	3			1.38	8.39	47	8.1	3.05	2.27			150	140							0.65	1.90	3		
13	2.96			6.9	7.2	15.0					280	3			1.37	7.84	45	7.9	2.88	2.21			150	130							0.57	1.70	3		
14	2.65	3	3	6.9	7.0	26.0					9.6				1.36	7.52	50	7.8	2.79	2.16			150	140											
15	2.35			6.9	7.2	20.0					10.4	274	5	117	3	1.4	4.87	51	8.2	3.03	2.25			150	150							0.47	1.80	3	
16	2.13			7.6	7.7	18.0					10.2	283	14			1.41	6.6	46	7.9	3.33	2.5			160	150							0.47	1.10	3	
17	2.36			6.8	7.3	16.0					10.0	229	6	362	6	1.42		48					160	150							0.59	0.50	3		
18	2.51			7.0	6.8	18.0					10.2	126	6	90	3	1.41		50	7.8				170	160							0.46	0.84	3		
19	2.34			6.6	6.9	12.0					10.1	170	7	143	3	1.42		40	7.6				140	130							0.56	1.20	3		
20	2.35			7.2	7.1	18.0					9.8	298	8	304	3	1.42	6.58	46	7.8	2.29	1.76			140	130							0.51	1.10	3	
21	2.18	3	3	7.0	7.3	22.0					9.9	158	9			1.43	5.81	45	7.9	2.64	1.97			150	130							0.58	1.00	3	
22	2.32			7.4	7.2	16.0					10.1	288	8	228	3	1.43	6.77	45	7.7	2.65	1.99			150	140							0.69	1.70	3	
23	2.39			6.8	7.2	60.0					9.6	299	8	288	3	1.42	5.95	49	7.8	3.03	2.29			150	140							0.81	1.10	3	
24	2.08			6.9	7.1						9.8	508	10	276	3	1.4		49	7.4				160	150							0.72	1.80	3		
25	2.15			6.9	7.2						9.6	1030	10	880	3	1.39		43	7.6				160	140							0.57	1.50	3		
26	2.40			7.0	7.1	41.0					10.1	244	7			1.4	5.79	47	7.5	3.07	2.31			150	150							0.50	1.80	10	
27	2.36			7.0	7.3	21.0					10.2	270	7	373	5	1.39	6.31	54	7.4	3.02	2.36			150	150							0.71	2.40		
28	7.43	3	3	7.3	7.3	15.0					10.6	114	10	79	8	1.43	7.83	64	7.6	2.37	1.77			130	130							0.71	0.50		
29	4.85			6.9	7.1	13.0					10.2	160	12	138	3	1.37	10.17	53	7.2	2.71	2.09			140	140							0.40	0.06	45	
30	3.87			7.6	6.7	16.0					10.6	411	8	135	3	1.4	8.26	51	8.1	2.82	2.12			170	160							0.36	0.78	3	
31	3.37			7.2	7.0	23.0					10.4	124	12	158	3	1.41		48	7				170	160							0.40	0.73	3		
Tot.	95.51	12	12													43.25																			
Avg.	3.08	3	3	7.1	7.2	18.9					9.8	232	8	180	4	1.395	7.123	47.45	7.714	2.829	2.154			161	152.3							0.58	0.99	4	

RESIDENTIAL  
 COMMERCIAL  
 INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT  
 29343 FLOW  
 27150 CBOD  
 28334 TSS

Michael Stphenson  
 OPERATOR

9616  
 CERT. NO.

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

(502) 267-9257

PLANT TELEPHONE



**MSD**

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

February 2, 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 05:10 AM on January 28, 2009 and stopped at 04:51 PM on January 28, 2009.

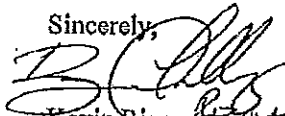
Mitigation activities to minimize the extent and impact of the discharge included maximization of plant peak flow through secondary treatment to minimize the total amount of wastewater that did not receive full secondary treatment prior to blending with secondary effluent before receiving UV disinfection, 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.

Date	Start Time	Stop Time	Total Plant Flow (Vol)	Peak Plant Rate	Total Blended flow (Vol)
January 28, 2009	05:10 AM	04:51 PM	07.425 MG	13.573 MGD	00.054 MG
, 20	AM	AM	MG	MGD	MG

Please advise if you have any questions concerning this information. You can contact me on my office telephone at (502)-231-0982, my cell phone at (502)-396-7543 or via email at [ries@msdlouky.org](mailto:ries@msdlouky.org).

Sincerely,

  
Kevin Ries *REGULATORY ENGINEER*  
Process Supervisor-Operations

cc: Gary Levy, KDEP  
Paula Purifoy, MSD  
eB File





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

**KPDES #** KY0025194      **Facility ID** MSD0255      **Treatment Plant Name** JEFFERSONTOWN      **Receiving Stream of Treatment Plant** CHENOWETH RUN      **Region** 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

<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>
DISREV: RAIN EVENT DISCHARGE	868576	01/28/09 05:10 AM	MULLER		DOCUMENTED	01/14/07	BLENDING AT JTOWN WTP	UNAUTHORIZED DISCHARGE - WATERS	01/28/09 04:51 PM	

**Spot Inspections:**

Peak Plant Flow when Blending:	13,573,000 GPD
Total Plant Flow when Blending:	7,425,000 GAL
Discharge Amount:	547,071 GAL
Cause:	LACK OF SYSTEM CAPACITY CAUSED BY ICE AND SNOW STORM
Clean Up:	NO CLEAN UP REQUIRED
Control Zone:	PERMANENT SIGNS POSTED AT OUTFALL AND ALONG CREEK
Impact:	NO IMPACT OBSERVED
Repair:	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION

**Notifications:**

02/02/09 09:53 AM	DISPUB	PERMANENT SIGNS POSTED AT OUTFALL AND ALONG CREEK
02/02/09 09:54 AM	DISNOT	Email notification of unauthorized discharge manually sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Total Facilities Printed: 1  
Total Work Orders Printed: 1



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

<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> SMH Sewer Manhole	<b>Facility ID</b> 86109	<b>Facility Address</b> 4606 DOVE LAKE CT	<b>If Pump Station, Name of Pump Station:</b> 	<b>Receiving Stream</b> RAZOR BRANCH	<b>Discharge to</b> GROUND

<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>
DISREV: RAIN EVENT DISCHARGE	868192	01/29/09 10:32 AM	ELDER	CISSELL	REPAIRED - ISSUE RESOLVED	01/31/09	POWER OUTAGE (LG&E)	UNAUTHORIZED DISCHARGE - WATERS	01/31/09 04:00 AM	

**Spot Inspections:**

Discharge Amount:	43,800 GAL
Cause:	LOSS OF LG&E POWER DUE TO ICE STORM
Clean Up:	CLEAN UP NOT POSSIBLE DUE TO SNOW
Control Zone:	TEMPORARY SIGNS POSTED AROUND AFFECTED AREA
Impact:	CLEAR EFFLUENT, NO DEBRIS
Repair:	LG&E RESTORED POWER TO THE AREA

**Notifications:**

01/29/09 12:51 PM	DISPUB	Temporary signs posted around affected area
01/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov