



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)

January 26, 2010

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

RE: Cedar Creek WQTC, KPDES No: KY0098540  
Discharge Monitoring Report-December 2009

Dear Ms. Bentley:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operating Report (MOR) for the Cedar Creek WQTC, KPDES No.: KY0098540 for the month of December 2009.

Also attached is a bypass 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/Cedar Creek 1209.doc

Enclosures

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



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

NAME CEDAR CREEK WQTC MSD  
ADDRESS C/O CEDAR CREEK WQTC  
8405 CEDAR CREEK RD  
LOUISVILLE KY 40211  
FACILITY CEDAR CREEK WQTC MSD  
LOCATION LOUISVILLE KY  
ATTN: DANNIS THOMASSEN, SR METRO OPS

KY0095540  
PERMIT NUMBER

0012  
DISCHARGE NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
07	12	01	TO	07	12	01

MAJOR (SUBR LV)  
F - FINAL  
NEW EXPANSION  
EFFLUENT  
\*\*\* NO DISCHARGE [ ] \*\*\*

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			
OXYGEN, DISSOLVED (DD) 00300 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	8.0	*****	*****	( 19 )	0	03/07	CP
PH	*****	*****	*****	*****	6.8	*****	7.1	( 12 )	0	03/07	CP
EFFLUENT GROSS VALUE	*****	*****	*****	*****	INST MIN	*****	*****	MG/L			
EFFLUENT GROSS VALUE	*****	*****	*****	*****	MINIMUM	*****	MAXIMUM	SU			
SOLIDS, TOTAL SUSPENDED 00500 0 0 0 RAW SEW/INFLUENT	*****	*****	*****	( 26 )	*****	*****	*****	( 17 )	0	03/07	CP
PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT	REPORT	REPORT	MG/L			
EFFLUENT GROSS VALUE	*****	*****	*****	*****	MO AVG	MX WK AV	MX WK AV	MG/L			
SOLIDS, TOTAL SUSPENDED 00500 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	( 26 )	*****	*****	*****	( 17 )	0	03/07	CP
PERMIT REQUIREMENT	*****	*****	*****	*****	MO AVG	MX WK AV	MX WK AV	MG/L			
NITROGEN, AMMONIA TOTAL (AS N) 00610 0 0 0 RAW SEW/INFLUENT	*****	*****	*****	( 26 )	*****	*****	*****	( 17 )	0	03/07	CP
PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT	REPORT	REPORT	MG/L			
EFFLUENT GROSS VALUE	*****	*****	*****	*****	MO AVG	MX WK AV	MX WK AV	MG/L			
NITROGEN, AMMONIA TOTAL (AS N) 00610 1 2 0 EFFLUENT GROSS VALUE	*****	*****	*****	( 26 )	*****	*****	*****	( 17 )	0	03/07	CP
PERMIT REQUIREMENT	*****	*****	*****	*****	MO AVG	MX WK AV	MX WK AV	MG/L			
PHOSPHORUS, TOTAL (AS P) 00665 1 2 0 EFFLUENT GROSS VALUE	*****	*****	*****	( 26 )	*****	*****	*****	( 17 )	0	03/07	CP
PERMIT REQUIREMENT	*****	*****	*****	*****	MO AVG	MX WK AV	MX WK AV	MG/L			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
D. J. SCHARDEIN, 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  
*Diane V. Wright*

TELEPHONE DATE  
502 540 6000 10 01 25  
AREA CODE NUMBER YEAR MO DAY

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

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

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

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

KY0098540			001 E		
PERMIT NUMBER			DISCHARGE NUMBER		
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
07	12	01	07	12	01

MAJOR (SURRELV)  
 F - FINAL  
 NEW EXPANSION  
 EFFLUENT  
 \*\*\* NO DISCHARGE [ ] \*\*\*

Form Approved.  
 OMB No. 2040-0004

JEFF

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	5.63	13.18	( G3)	*****	*****	*****		0	CN	CN	
50050 I C O EFFLUENT GROSS VALUE	REPORT	REPORT		*****	*****	*****	MGD			CONTINUED	
COLIFORMS, FECAL GENERAL	*****	*****		*****	3	4	( LB)	0	03/07	CP	
74055 I C O EFFLUENT GROSS VALUE	REPORT	REPORT		*****	300	400	100ML			FREE/COMPOSE	
BOD, CARBONACEOUS 05 DAY, 20C	3614	4541	( 26)	*****	76	82	( 14)	0	03/07	CP	
80052 G C O RAW SEW/INFLUENT	REPORT	REPORT		*****	REPORT	REPORT	MG/L			FREE/COMPOSE	
BOD, CARBONACEOUS 05 DAY, 20C	100	147	( 26)	*****	2	2	( 14)	0	03/07	CP	
80082 I C O EFFLUENT GROSS VALUE	REPORT	REPORT		*****	10	15	MG/L			FREE/COMPOSE	
BOD, CARBONACEOUS 05 DAY, 20C	*****	*****		*****	*****	*****	( 23)	0	01/30	CA	
80091 M C O PERCENT REMOVAL	*****	*****		*****	*****	*****	PER-CENT			MONTH CALCUL	
SOLIDS, SUSPENDED PERCENT REMOVAL	*****	*****		*****	*****	*****	( 23)	0	01/30	CA	
81011 M C O PERCENT REMOVAL	*****	*****		*****	*****	*****	PER-CENT			MONTH CALCUL	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 H.J. SCHARDEIN, 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.

*Emanuel Wright*  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE DATE  
 502 540-6000 10 01 25  
 AREA CODE NUMBER YEAR MO DAY

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

NAME OF TREATMENT PLANT CEDAR CREEK WTP  
 KPDES PERMIT NUMBER KY0098540

COUNTY JEFFERSON

MONTH OF: December 2009

PLANT CAPACITY 7.5 MGD

RECEIVING STREAM CEDAR CREEK

DATE	TOTAL FLOW (MILLION GALLONS)	RAW SEWAGE		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	PH	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	WASTED	DISSOLVED OXYGEN (mg/L)	MLSS (mg/L) X 1000	MLVSS (mg/L) X 1000	SETTLED SLUDGE VOLUME		RAW			HAULED			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	4.17			6.9	7.0			8.2			175		2	92		2	1946	5860	58	3.4	2990	2240	400	340														
2	4.67			7.0	6.9	16.0		8.2			158		2	60		2	2273	5810	62	3.2	3005		390	340											0.28	3		
3	5.43			6.8	7.1	12.0		8.6			118		2	78		2	2540	5680	58	3.6	2940	2180	400	350											0.06	3		
4	4.82			6.9	7.0	12.0		8.4									2258	5750	52	3.4	3080		380	340											0.06	3		
5	4.60			6.8	7.0			8.7									2120		51	3.3			400	350														
6	4.68			6.9	6.9			8.8									2120		52				390	340														
7	4.19			6.8	7.0			8.8									2208	6080	54	3.6	2940	2315	400	340														
8	5.93			6.8	6.9			8.6			218		5	107		2		5400	51	3.4	2685	2215	380	300												0.90	7	
9	13.18			6.9	7.0	10.0		8.0			128		5	48		2	2505	5580	45	4	2710	2260	370	300											0.06	3		
10	7.33			7.0	7.0	16.0		8.9			70		2	50		2	3553	5600	49	5.2	2505	1955	320	260												0.28	3	
11	6.00			6.9	7.1	12.0		9.1									3876		50	3.8			320	270														
12	5.57			7.0	7.0			8.8									3776		50	4			300	270														
13	6.34			7.0	7.1			8.9									3666		53	3.8			320	270														
14	6.60			6.9	7.0			8.6									3464	4460	64	3.5	3400	2640	410	350														
15	5.76			7.0	7.1			8.8			100		2	51		2	2870	7320	62	3.8	3170	2350	410	320												0.06	3	
16	4.79			6.9	7.0	14.0		8.8			118		2	82		2	2241																			0.06	3	
17	4.56			6.9	6.9	16.0		8.6			89		2	102		2	2343	5780	60	3.2	3195	2470	400	330												0.06	3	
18	4.64			6.8	7.0	12.0		8.9									2213	7440	50	3	3450	2720	550	390													0.06	3
19	6.23			6.9	6.9			8.8									2606		54	3			530	370														
20	7.41			6.9	6.8			8.4											52	3.2			500	320														
21	6.31			7.0	6.9			8.6									3578	4650	54	3.6	2935	2260	480	340														
22	5.64			6.8	6.9			8.6			123		2	84		2	3471		51	4			480	330												0.06	3	
23	5.25	15	15	6.9	7.0	10.0		8.2			20		2	66		2	3734	4500	59	3.2	3225	2490	450	330												0.06	3	
24	5.34			6.9	6.9	9.0		8.4			96		2	95		2	3710		45				450	330												1.10	3	
25	5.81			6.9	7.0	10.0		8.2									3760		47	3.3			480	350														
26	5.48			6.9	6.9			8.4									3679		55				440	320														
27	5.20			7.0	7.0			8.6									3474		35				410	310														
28	4.72			6.9	7.0			8.8									3343	5070	30	3	3155	2475	550	420														
29	4.48			7.0	6.9			8.8									3398	4920	39	3.4	3285	2430	480	390														
30	4.37			6.7	6.8			8.4									3720	5760	61	3	3798	2950	690	480														
31	4.95			6.9	7.1			8.8									3544	6820	59	3.2	3735	2885	590	410														
Tot.	174.45	15	15														87787																					
Avg.	5.63	15	15	6.9	7.0	12.4		8.6			118		3	76		2	3027.1	5682	52.07	3.504	3122	2427	435	338.7												0.25	3	

RESIDENTIAL  
 COMMERCIAL  
 INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT

53594

21051

26316

FLOW

CBOD

TSS

Joseph Shaun Smith

17987

OPERATOR

CERT. NO.

TOTAL NUMBER OF SEWER CONNECTIONS

SEWER CONNECTIONS

0

X

4

=

0

SEWERED POPULATION

502 239 7695

PLANT TELEPHONE



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

December 10, 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: Cedar Creek WQTC- KPDES Permit: KY0098540**

Dear Mr. Roth:

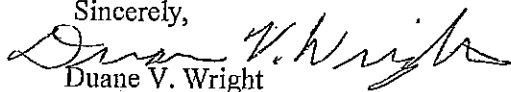
This plant experienced a bypass event and has been reported through our electronic notification system at approximately 01:00 AM on December 09, 2009, referencing Work Order 989846 as a Rain Event Discharge. This letter serves as a written report of the bypass as required by 401 KAR 5:065.

Provided below are the details of the bypass event:

- Description of the noncompliance and its cause: Rain event in area caused elevated flows to oxidation ditch resulting in high water level in ditch. Drain piping was broke and approximately 100 gallons of solids discharged to ground.
- Period of noncompliance: Starting 11:00 PM on December 08, 2009 and stopping 11:30 PM on December 08, 2009.
- Steps taken or planned to reduce, eliminate and prevent recurrence: Repair drain piping.
- Additional comments: No additional comments

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](mailto:wrightd@msdlouky.org).

Sincerely,

  
Duane V. Wright  
Process Supervisor-Operations

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





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

KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0098540	MSD0289	CEDAR CREEK	CEDAR CREEK	CENT

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMN Sewer Main	98169A-V	10200 CEDAR CREEK RD		CEDAR CREEK	GROUND

Activity Code / Description	WO #	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
DISSUS: SUSPECTED OVERFLOW EVID. FOUND	988419	12/03/09 07:37 PM	KIMBROUGH	KIMBROUGH	REPAIRED - ISSUE RESOLVED	12/03/09	STRUCTURAL FAILURE	UNAUTHORIZED DISCHAGE - WATERS	12/03/09 08:48 PM	

**Spot Inspections:**

Discharge Amount:	5 GAL
Cause:	STRUCTURAL FAILURE FORCE MAIN BREAK
Clean Up:	CLEANED AND SANITIZED THE IMPACTED AREA
Control Zone:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA
Impact:	SEWAGE/DEBRIS/SOLIDS/PERSONAL HYGIENE PRODUCTS FOUND ON THE GROUND
Repair:	REFERRED TO OPERATION FOR REPAIRS

**Notifications:**

12/03/09 07:37 PM	DISPUB	placed signs in the area
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Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # Facility ID Water Quality Treatment Center Receiving Stream of Treatment Center Region  
 KY0098540 (Cont'd) MSD0289 CEDAR CREEK CEDAR CREEK CENT

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:		Receiving Stream	Discharge to				
SPL Sewer Treatment Plant	MSD0289	8605 CEDAR CREEK RD			CEDAR CREEK	GROUND				
Activity Code / Description	WO #	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
DISREV: RAIN EVENT DISCHARGE	989846	12/08/09 11:00 PM	ELDER	MILLS	REPAIRED - ISSUE RESOLVED	12/08/09	BYPASS AT WQTC	UNAUTHORIZED DISCHARGE - WATERS	12/08/09 11:30 PM	

**Spot Inspections:**

Discharge Amount:	100 GAL
Cause:	HEAVY RAIN EVENT IN AREA & ADJUSTMENT OF CENTER WELL GATE. INSPECT DRAIN LINE FOR BREAKAGE
Clean Up:	NO CLEANUP OCCURRED DUE TO HEAVY RAIN
Control Zone:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA
Impact:	SEWAGE/WATER DISCHARGING FROM CURB BY AERATION TANK
Repair:	ADJUSTED CENTER WELL GATE TO STOP BYPASS

**Notifications:**

12/08/09 11:56 PM	DISPUB	PERMANENT SIGNS POSTED IN AREA SUPPLEMENTED BY TEMPORARY SIGNS
12/08/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Total Facilities Printed: 11  
 Total Work Orders Printed: 11