

MSD

Metropolitan Sewer District

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

February 23, 2010

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

RE: Cedar Creek WQTC, KPDES No: KY0098540
Discharge Monitoring Report-January 2010

Dear Ms. Bentley:

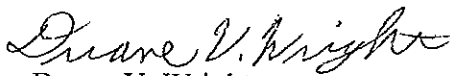
Attached are the Discharge Monitoring Report (DMR) and the Monthly Operating Report (MOR) for the Cedar Creek WQTC, KPDES No.: KY0098540 for the month of January 2010.

Also attached is an overflow report.

There were no exceedences or bypass reports.

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/Cedar Creek 01.10.doc

Enclosures

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



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

KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM (KPDES)
DISCHARGE MONITORING REPORT (DMR)

NAME CEDAR CREEK WQTC MSD
ADDRESS C/O CEDAR CREEK WQTC
8405 CEDAR CREEK RD
LOUISVILLE KY 40211
FACILITY CEDAR CREEK WQTC MSD

KY0098540
PERMIT NUMBER

001 1
DISCHARGE NUMBER

MAJOR (SUBR LV)
F - FINAL JEFFE
MUNICIPAL DISCHARGE
EFFLUENT
[] No Discharge

LOCATION LOUISVILLE KY 40291
ATTN: DENNIS THOMMASSON SR. METRO OPS

MONITORING PERIOD							
YEAR	MO	DAY	TO	YEAR	MO	DAY	
FROM	10	01	01	TO	10	01	31

NOTE: Read instructions before completing this form

PARAMETER	MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
OXYGEN, DISSOLVED (DO)	SAMPLE MEASUREMENT	*****	*****	***	8.4	*****	*****	(19) MG/L	0	01/01	GR
00300 1 0 0	PERMIT MEASUREMENT	*****	*****	***	7.0 INST MIN	*****	*****	(19) MG/L		THREE/WEEK	GRAB
EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	***	6.8	*****	7.2	(12) SU	0	30/31	GR
PH	PERMIT MEASUREMENT	*****	*****	***	6.0 MINIMUM	*****	9.0 MAXIMUM	(12) SU		THREE/WEEK	GRAB
00400 1 0 0	SAMPLE MEASUREMENT	7579	10348	(26) LBS/DY	*****	164	225	(19) MG/L	0	03/07	CP
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	REPORT MO AVG	REPORT MX WK AV	(26) LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	(19) MG/L		THREE/WEEK	COMPOS
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	253	547	(26) LBS/DY	*****	5	6	(19) MG/L	0	03/07	CP
00530 G 0 0	PERMIT MEASUREMENT	1876 MO AVG	2815 MX WK AV	(26) LBS/DY	*****	30 MO AVG	45 MX WK AV	(19) MG/L		THREE/WEEK	COMPOS
RAW SEW/INFLUENT	SAMPLE MEASUREMENT	675	727	(26) LBS/DY	*****	16	20	(19) MG/L	0	03/07	CP
SOLIDS, TOTAL SUSPENDED	PERMIT MEASUREMENT	REPORT MO AVG	REPORT MX WK AV	(26) LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	(19) MG/L		THREE/WEEK	COMPOS
00530 1 0 0	SAMPLE MEASUREMENT	12	26	(26) LBS/DY	*****	0.3	0.7	(19) MG/L	0	03/07	CP
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	625 MO AVG	938 MX WK AV	(26) LBS/DY	*****	10 MO AVG	15 MX WK AV	(19) MG/L		THREE/WEEK	COMPOS
NITROGEN, AMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	5	13	(26) LBS/DY	*****	0.1	0.2	(19) MG/L	0	03/07	CP
00610 G 0 0	PERMIT MEASUREMENT	125 MO AVG	156 MX WK AV	(26) LBS/DY	*****	2.0 MO AVG	2.5 MX WK AV	(19) MG/L		THREE/WEEK	COMPOS
RAW SEW/INFLUENT	SAMPLE MEASUREMENT	12	26	(26) LBS/DY	*****	0.3	0.7	(19) MG/L	0	03/07	CP
NITROGEN, AMMONIA TOTAL (AS N)	PERMIT MEASUREMENT	625 MO AVG	938 MX WK AV	(26) LBS/DY	*****	10 MO AVG	15 MX WK AV	(19) MG/L		THREE/WEEK	COMPOS
EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	5	13	(26) LBS/DY	*****	0.1	0.2	(19) MG/L	0	03/07	CP
PHOSPHORUS, TOTAL (AS P)	PERMIT MEASUREMENT	125 MO AVG	156 MX WK AV	(26) LBS/DY	*****	2.0 MO AVG	2.5 MX WK AV	(19) MG/L		THREE/WEEK	COMPOS
00665 1 0 0	SAMPLE MEASUREMENT	5	13	(26) LBS/DY	*****	0.1	0.2	(19) MG/L	0	03/07	CP
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	125 MO AVG	156 MX WK AV	(26) LBS/DY	*****	2.0 MO AVG	2.5 MX WK AV	(19) MG/L		THREE/WEEK	COMPOS
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. 1001 AND 33 U.S.C. 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.				TELEPHONE		DATE				
H J SCHARDEIN EXECUTIVE DIRECTOR					502	540-6000	10	02	25		
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT				AREA CODE	NUMBER	YEAR	MO	DAY		
COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)											

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

KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM (KPDES)
DISCHARGE MONITORING REPORT (DMR)

KY0098540
 PERMIT NUMBER

001 1
 DISCHARGE NUMBER

MAJOR (SUBR LV)
 F - FINAL JEFFE
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ATTN: DENNIS THOMMASSON SR. METRO OPS

MONITORING PERIOD						
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10	01	01		10	01	31

NOTE: Read instructions before completing this form

PARAMETER	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	SAMPLE MEASUREMENT	5.90	14.6	(03) MGD	*****	*****	*****	***	0	CN	CN
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	REPORT MO AVG	REPORT DAILY MX	(03) MGD	*****	*****	*****	***		CONTINUOUS	CONTIN
COLIFORM, FECAL GENERAL 74055 1 0 0	SAMPLE MEASUREMENT	*****	*****	***	*****	4	5	(13) 100ML	0	03/07	GR
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	*****	*****	***	*****	200 30 DA GEO	400 7 DA GEO	(13) 100ML		THREE/WEEK	GRAB
BOD, CARBONACEOUS 05 DAY, 20C 80082 G 0 0	SAMPLE MEASUREMENT	3799	4609	(26) LBS/DY	*****	90	128	(19) MG/L	0	03/07	CP
RAW SEW/INFLUENT	PERMIT MEASUREMENT	REPORT MO AVG	REPORT MX WK AV	(26) LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	(19) MG/L		THREE/WEEK	COMPOS
BOD, CARBONACEOUS 05 DAY, 20C 80082 1 0 0	SAMPLE MEASUREMENT	126	275	(26) LBS/DY	*****	2	3	(19) MG/L	0	03/07	CP
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	625 MO AVG	938 MX WK AV	(26) LBS/DY	*****	10 MO AVG	15 MX WK AV	(19) MG/L		THREE/WEEK	COMPOS
BOD, CARB 5-DAY, 20 DEG C, PERCENT REMVL 80091 K 0 0	SAMPLE MEASUREMENT	*****	*****	***	98	*****	*****	(23) CENT	0	01/31	CA
PERCENTREMOVAL	PERMIT MEASUREMENT	*****	*****	***	85 MO MIN	*****	*****	(23) CENT			
SOLIDS, SUSPENDED PERCENT REMOVAL 81011 K 0 0	SAMPLE MEASUREMENT	*****	*****	***	97	*****	*****	(23) CENT	0	01/31	CA
PERCENTREMOVAL	PERMIT MEASUREMENT	*****	*****	***	85 MO MIN	*****	*****	(23) CENT			
	SAMPLE MEASUREMENT										
	PERMIT MEASUREMENT										
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER H J SCHARDEIN EXECUTIVE DIRECTOR	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C 1001 AND 33 U.S.C 1319. (Penalties under those statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.				SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE		DATE		
TYPED OR PRINTED					<i>Dennis Thommasson Sr.</i>		502	540-6000	10	02	25
COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)							AREA CODE	NUMBER	YEAR	MO	DAY

NAME OF TREATMENT PLANT CEDAR CREEK WTP
 KPDES PERMIT NUMBER KY0098540

COUNTY JEFFERSON
 PLANT CAPACITY 7.5 MGD

MONTH OF: January 2010
 RECEIVING STREAM CEDAR CREEK

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	RETURN		WASTED	DISSOLVED OXYGEN (mg/L)	MLSS (mg/L) X 1000	MLVSS (mg/L) X 1000	30 MIN.	60 MIN.	SETTLED SLUDGE VOLUME	RAW		HAULED		NH3-N (mg/L)	FECAL COLIFORMA (COLONIES/100ML)						
																		GAL/DAY X 1000	MLSS X 1000								GAL/DAY X 1000	GALLONS X 1000	% DRY SOLIDS	% VOLATILE SOLIDS			% DRY SOLIDS	% VOLATILE SOLIDS				
1	4.73			7.0	7.1					8.8							3567	8.8	55	3.5			620	440														
2	5.67			7.1	7.0					8.4							3541	59	3.1				590	400														
3	5.02			7.0	7.1					8.7			206		2	139		2541	66	3.6			500	390											0.06	3		
4	4.18			7.0	7.1	16.0				8.8			163		2	111		1918	5840	51	3.4	3590	2790	480	390										0.06	3		
5	3.97			7.1	7.2	12.0				9.0			241		2	125		2069	5520	54	3.6	3325	2655	460	390											0.50	3	
6	3.88			7.0	7.0	12.0				8.9							1994	5640	32	3.4	3440	2805	440	360														
7	4.00			7.1	7.1					9.1							1928	5380	51	3.8	3360	2695	720	350														
8	3.96			7.0	7.1					9.1							1892	5440	55	3.9	3550	2950	650															
9	4.01			7.1	7.0					9.0							1969		50	3.2			630	460														
10	4.24			6.9	6.9					8.9			190		4	179		1971		51	2.9			670	400										2.10	3		
11	3.91			6.9	6.9	8.0				8.7			328		8	104		2011	5840	34	2.2	3485	2740	640	460										0.06	3		
12	3.74			7.0	7.0	14.0				8.8			158		4	100		2049	5720	55	3.4	3690	3035	680	400											0.06	3	
13	3.75			6.9	7.0	11.0				8.6							2237	5750	73	3	3680	2840	650	410														
14	3.77			6.8	6.9					8.8							2370	5410	75	3.6	3265	2635	600	460														
15	3.74			6.8	6.9					8.6							2264	5760	70	3.2	3370	2575	650	400														
16	4.19									8.6							2096		60				590	400														
17	5.42			6.9	7.0					8.4			86		4	55		1850		60																0.06	5	
18	5.83			6.8	7.0	9.0				8.7			152		7	94		1840		56			550	410											0.06	3		
19	4.94			6.8	6.8	11.0				8.6			97		3	63		2154	8140	72	3.7	3350	2700	540	370										0.06	3		
20	5.57			6.8	6.9	11.0				8.6							1655	6670	65	3.5	3280	2610	450	340														
21	14.60			6.9	6.9					8.7							1953	8500	51	3.6	2705	2185	330	280														
22	11.45			6.8	7.0					8.6							2491	10740	38	3.5	2175	1755	270	230														
23	8.62			6.9	7.1					9.1							3927		36	3.8			350	300														
24	12.08			6.8	7.0					8.9			131		7	20		2557	6260	40		2730		320	250										0.30	7		
25	11.63			6.9	7.0	16.0				9.1			125		5	43		2875	6110	40	5.2	2805	2200	330	250											0.06	5	
26	7.71			6.8	7.1	12.0				8.8			89		7	48		2580	10000	63	4.8	3170	2760	320	300											0.06	3	
27	6.44			6.8	7.1	12.0				8.9							3082	7550	58	4.6	3260	2875	500	370														
28	5.86			6.9	7.0					9.1							3175	7390	60	4.2	3160	2465	530	350														
29	5.24			6.8	6.9					9.0							2850	7150	58	3.6	3235	2225	560	360														
30	5.45			6.7	7.0					8.9							4210		38	3.8			550	340														
31	5.23			7.0	6.8					9.0							2099		38	3.6			560	350														
Tot.	182.83																75695																					
Avg.	5.90			6.9	7.0	12.0				8.8			164		5	90		2441.8	6740.5	53.68	3.619	3231	2605	524.3	365.9										0.28	4		

RESIDENTIAL
 COMMERCIAL
 INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT

56169 FLOW 26064 CBOD 38374 TSS

Joseph Shaun Smith OPERATOR 17987 CERT. NO.

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

502-239-7695
 PLANT TELEPHONE



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

KPDES # KY0098540	Facility ID MSD0289	Water Quality Treatment Center CEDAR CREEK	Receiving Stream of Treatment Center CEDAR CREEK	Region CENT
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Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	98799	7100 HAWKINS RILL DR		CEDAR CREEK	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>
DISDW: DRY WEATHER DISCHARGE	1002426	01/18/10 06:30 PM	BRIGHT	BRIGHT	REPAIRED - ISSUE RESOLVED	01/18/10	OBSTRUCTION-NOT GREASE / ROOTS	UNAUTHORIZED DISCHARGE - WATERS	01/18/10 07:05 PM	MAIN

Spot Inspections:

Discharge Amount:	200 GAL
Cause:	OBSTRUCTION IN MAIN SEWER
Clean Up:	NO CLEAN UP PERFORMED. MANHOLE DISCHARGING DIRECTLY INTO STREAM
Control Zone:	PLACED TEMPORARY SIGNS AROUND IMPACTED AREA AND DOWNSTREAM ALONG THE CREEK
Impact:	SEWAGE/WATER DISCHARGING FROM MANHOLE
Repair:	WORK ORDER 1002438 AND 1002439 - FLUSHED THE MAIN SEWER AND REMOVED OBSTRUCTION

Notifications:

01/18/10 07:05 PM	DISPUB	MSD PERSONNEL PLACED TEMPORARY SIGNS ALONG CREEK ON BOTH SIDES WARNING ANYONE WHO WOULD GET NEAR STREAM.
01/18/10 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: 12
 Total Work Orders Printed: 18