



**MSD**

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

March 23, 2009

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

RE: Cedar Creek Treatment Plant, KPDES No: KY0098540  
Discharge Monitoring Report  
February 2009

Dear Ms. Bentley:

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

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/Cedar Creek 0209.doc

Enclosures

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



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

NAME MSO CEDAR CREEK STP  
 ADDRESS C/O CEDAR CREEK STP  
 8402 CEDAR CREEK RD  
 LOUISVILLE KY 40211  
 FACILITY MSO CEDAR CREEK STP  
 LOCATION LOUISVILLE KY  
 ATTN: DONNIS THOMASSEN, SR METRO OPS

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

MY0093840	001.E
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
07	02	01	07	02	23

FROM TO

MAJOR (SWER LV)  
 F - FINAL  
 NEW EXPANSION  
 EFFLUENT  
 \*\*\* NO DISCHARGE \*\*\*  
 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			
OXYGEN, DISSOLVED (DO)	SAMPLE MEASUREMENT	*****	*****		9	*****	*****	( 19 )		03/02	LR
00300 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	7.0	*****	*****	MG/L		THREE/GRAB WEEK	
PH	SAMPLE MEASUREMENT	*****	*****		7.1	*****		( 12 )		03/02	LR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	6.0	*****	9.0	MG/L		THREE/GRAB WEEK	
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	7427	9358	( 26 )	*****	115	134	( 19 )		03/02	CP
00500 0 0 0 RAW SEW/INFLUENT	PERMIT REQUIREMENT	REPORT	REPORT	LBS/DY	*****	REPORT	REPORT	MG/L		THREE/COMPOSE WEEK	
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	238	350	( 26 )	*****	4	7	( 19 )		03/02	CP
00500 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	1876	2815	LBS/DY	*****	30	45	MG/L		THREE/COMPOSE WEEK	
NITROGEN, AMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	671	717	( 26 )	*****	11	14	( 19 )		03/02	CP
00610 0 0 0 RAW SEW/INFLUENT	PERMIT REQUIREMENT	REPORT	REPORT	LBS/DY	*****	REPORT	REPORT	MG/L		THREE/COMPOSE WEEK	
NITROGEN, AMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	16	18	( 26 )	*****	0.7	0.3	( 19 )		03/02	CP
00610 1 2 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	625	938	LBS/DY	*****	10	15	MG/L		THREE/COMPOSE WEEK	
PHOSPHORUS, TOTAL (AS P)	SAMPLE MEASUREMENT	33	60	( 26 )	*****	0.5	0.8	( 19 )		03/02	CP
00660 1 2 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	125	182	LBS/DY	*****	2.0	3.0	MG/L		THREE/COMPOSE 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 512 546-6000 09 3 23			SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT H.E. = D. 2. 5			
TYPED OR PRINTED											AREA CODE

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

NAME MSO CEDAR CREEK STP  
 ADDRESS C/O CEDAR CREEK STP  
 8402 CEDAR CREEK RD  
 LOUISVILLE KY 40211  
 FACILITY MSO CEDAR CREEK STP  
 LOCATION LOUISVILLE KY  
 ATTN: DONNIE THOMASSON, SR METRO OPS

AY0095540	0012
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
07	02	01	07	02	23

MANOR (SUBR IV)  
 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				
FLOW IN CONDUIT OR THRU TREATMENT PLANT	7.84	12.50	( 03)	*****	*****	*****			0	02	01	
EFFLUENT GROSS VALUE	NO AVG	DAILY MX	MGD	*****	*****	*****	****			CONTIN	CONTIN	
GENERAL	*****	*****		*****	3	3	( 10)		0	02/07	CP	
EFFLUENT GROSS VALUE	*****	*****	***	*****	200	400	*/			THREE/	PURPOS	
SDO, CARBONACEOUS	4459	5344	( 26)	*****	67	67	( 19)		0	03/07	CP	
RAW SEW/INFLUENT	REPORT	REPORT		*****	REPORT	REPORT				THREE/	PURPOS	
EFFLUENT GROSS VALUE	MD AVG	MX WK AV	LBS/DY	*****	MD AVG	MX WK AV	MG/L			WEEK		
SDO, CARBONACEOUS	199	250	( 26)	*****	3	3	( 19)		0	03/07	CP	
EFFLUENT GROSS VALUE	625	933		*****	10	15				THREE/	PURPOS	
EFFLUENT GROSS VALUE	MD AVG	MX WK AV	LBS/DY	*****	MD AVG	MX WK AV	MG/L			WEEK		
SDO, CARBONACEOUS	*****	*****		*****	96	*****	*****	( 23)		0	01/27	CA
DEO C, PERCENT REMVL	*****	*****	***	*****	85	*****	*****	PER-		UNCE/	MONTH	
PERCENT REMOVAL	*****	*****	***	*****	MD MIN	*****	*****	CENT		MONTH		
SOLIDS, SUSPENDED	*****	*****		*****	97	*****	*****	( 23)		0	01/27	CA
PERCENT REMOVAL	*****	*****	***	*****	85	*****	*****	PER-		UNCE/	MONTH	
PERCENT REMOVAL	*****	*****	***	*****	MD MIN	*****	*****	CENT		MONTH		

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER H.S. Schurlein, Jr. Exec. Director	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 Ken D. Schurlein	TELEPHONE	DATE			
TYPED OR PRINTED			502 541-6100	09	3	23	
			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  
 PLANT CAPACITY 7.5 MGD

MONTH OF: February 2009  
 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	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	9.60												138		4	79		3																	0.56	3		
2	11.24			6.9	7.1	12.0							122		2	57		3																		0.06	3	
3	9.18			6.8	7.1	14.0							73		2	57		3																		0.06	3	
4	7.35			7.0	7.2	12.0																																
5	6.59	3	3																																			
6	6.53																																					
7	8.62																																					
8	9.78												137		3	99		3																		0.50	3	
9	7.83			7.1	7.1	10.0							86		3	50		3																		0.06	3	
10	8.82			7.2	7.2	14.0							96		4	53		3																		0.06	3	
11	12.50			7.2	7.1	12.0																																
12	10.08	3	3																																			
13	8.07																																					
14	7.62																																					
15	6.88												118		3	90		3																		0.78	3	
16	6.04			7.2	7.3	14.0							144		2																					0.06	3	
17	6.22			7.3	7.1	11.0							140		15	67		3																		0.06	3	
18	6.13			7.2	7.2	16.0																																
19	6.11	3	3																																			
20	5.65																																					
21	6.31																																					
22	6.72												80		4	50		3																		0.06	3	
23	5.89			7.2	7.2	14.0							113		2	56		3																		0.62	3	
24	5.51			7.2	7.1	16.0							128		2	78		3																		0.06	3	
25	5.63			7.1	7.2	16.0																																
26	8.22	3	3																																			
27	11.11																																					
28	9.17																																					
29																																						
30																																						
31																																						
Tot.	219.40	12	12																																			
Avg.	7.84	3	3	7.1	7.2	13.4							9.5		4	67		3																		0.24	3	

RESIDENTIAL  
 COMMERCIAL  
 INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT

74626 FLOW      25721 CBOD      35657 TSS

Joseph Smith

17987

OPERATOR

CERT. NO.

TOTAL NUMBER OF SEWER CONNECTIONS

SEWER CONNECTIONS 0 X 4 = 0 SEWERED POPULATION

(502) 239-7695

PLANT TELEPHONE

Month

Tot. Exc. =		Cedar Creek WTP Data - February-09											
DATE	Influent FLOW (MGD)	Effluent Flow (MGD)	Infl. BOD (mg/L)	Effl. BOD (mg/L)	Infl. TSS (mg/L)	Effl. TSS (mg/L)	Infl. NH3 (mg/L)	Effl. NH3 (mg/L)	< >	FECAL (mg/L)	Infl. T-Phos. (mg/L)	Effl. T-Phos. (mg/L)	Effl. D.O. (mg/L)
2/1/2009		9.60	79	3	138	4	8	0.56		3	2.49	0.436	
2/2/2009		11.2	57	3	122	2	7.5	0.055		3	2.18	0.287	
2/3/2009		9.18	57	3	73	2.0	8.4	0.055		3	2.89	0.281	
2/4/2009		7.35											
2/5/2009		6.59											
2/6/2009		6.53											
2/7/2009		8.62											
2/8/2009		9.78	99	3	137	3	10.5	0.5		3	2.97	0.411	
2/9/2009		7.83	50	3	86	3	9.2	0.055		3	2.1	0.376	
2/10/2009		8.82	53	3	96	4	5.2	0.055		3	0.444	1.64	
2/11/2009		12.5											
2/12/2009		10.08											
2/13/2009		8.07											
2/14/2009		7.62											
2/15/2009		6.88	90	3	118	3	14.2	0.78		3	3.67	0.445	
2/16/2009		6.04			144	2	10.9	0.055		3	2.67	0.415	
2/17/2009		6.22	67	3	140	15	15.2	0.055		3	3.04	0.446	
2/18/2009		6.13											
2/19/2009		6.11											
2/20/2009		5.65											
2/21/2009		6.31											
2/22/2009		6.72	50	3	80	4	8.6	0.055		3	2.04	0.513	
2/23/2009		5.89	56	3	113	2	15.1	0.62		3	4.04	0.453	
2/24/2009		5.51	78	3	128	2	18.4	0.055		3	3.96	0.417	
2/25/2009		5.63											
2/26/2009		8.22											
2/27/2009		11.11											
2/28/2009		9.17											
3/1/2009													
3/2/2009													
3/3/2009													
<b>TOTAL</b>	0.00	219.40											
<b>AVERAGE*</b>	<b>0.00</b>	<b>7.84</b>	<b>67</b>	<b>3</b>	<b>115</b>	<b>4</b>	<b>10.9</b>	<b>0.24</b>		<b>3</b>	<b>2.71</b>	<b>0.51</b>	<b>0.00</b>

Month

<b>MINIMUM</b>	0.00	5.51	50	3	73	2	5.2	0.1		3	0.44	0.28	<b>0.0</b>
<b>MAXIMUM</b>	0.00	12.50	99	3	144	15	18.4	0.8		3	4.04	1.64	0.0
*For Fecal: Calculation is for Geometric Mean (not Average).										** AS = Above Stream; BS = Below Stream (i			
Max.Wk		<b>9.24</b>	<b>67</b>	<b>3</b>	<b>134</b>	<b>7</b>	<b>14.0</b>	<b>0.30</b>		<b>3</b>	3.35	0.81	
Exceed.		28		0		0		0		0			0
MxWkAvg				0		0		0		0			
Mo Avg				0		0		0		0			0
Klbs Treated			116.94		202.65								



Month

0.0	0	0	0	0	0	0	0	0	0	0	0	0
0.0	0	0	0	0	0	0	0	0	0	0	0	0
n receiving stream)												
0												
0												
0												



Month

		<b>February</b>		<b>2009</b>							
WAS GAL. x1000	GAL. HAULED x1000	Influent BOD pounds	Effluent BOD pounds	Influent TSS pounds	Effluent TSS pounds	Influent NH3 pounds	Eff NH3 pounds	Inf Phos. pounds	Eff. Phos. pounds	% Remov BOD	% Remov TSS
		6325.056	240.192	11048.83	320.256	640.512	44.83584	199.3594	34.9079	0.962025	0.971014
		5343.271	281.2248	11436.48	187.4832	703.062	5.155788	204.3567	26.90384	0.947368	0.983607
		4363.988	229.6836	5588.968	153.1224	643.1141	4.210866	221.2619	21.5137	0.947368	0.972603
0	0	49048	2193.50	89129.8	2861.04	8048.0	189.07	2034.6	401.78		
#DIV/0!	#DIV/0!	<b>4458.93</b>	<b>199.41</b>	<b>7427.49</b>	<b>238.42</b>	<b>670.67</b>	<b>15.76</b>	<b>169.55</b>	<b>33.48</b>	<b>95.5%</b>	<b>96.7%</b>

Month

0	0	2751	137.86	4483.6	91.91	382.5	2.53	32.7	19.16	94.0%	89.3%
0	0	8075	281.22	11436.5	778.12	856.4	44.84	242.2	120.64		
		11	11	12	12	12	12	12	12		
		<b>5344.11</b>	<b>250.37</b>	<b>9358.09</b>	<b>350.34</b>	<b>717.45</b>	<b>18.07</b>		<b>59.57</b>		
			0		0		0			0	0
			0		0		0				
			0		0		0			0	0