



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

October 10, 2015

Ms. Cheryl Edwards  
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-September 2015**

Dear Ms. Edwards:

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 September 2015.

There were no exceedances, bypasses or overflows to report.

Also attached is the 3<sup>rd</sup> quarter biomonitoring DMR's.

If you have any questions concerning the attached DMR's, please contact me at (502) 239-7574.

Sincerely,

A handwritten signature in black ink, appearing to read "Kevin Thompson".

Kevin Thompson  
Process Supervisor Central Region

KLT/Cedar Creek 09.15.doc

Enclosures

cc: T. Singleton  
R. Shaw



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

**DMR Copy of Record**

<b>Permit</b>			
Permit #:	KY0098540	Permittee:	CEDAR CREEK WQTC MSD
Major:	Yes	Permittee Address:	8405 CEDAR CREEK RD LOUISVILLE, KY 40211
Permitted Feature:	001 External Outfall	Discharge:	001-1 MUNICIPAL DISCHARGE
Facility:		Facility Location:	CEDAR CREEK WQTC MSD 8405 CEDAR CREEK RD LOUISVILLE, KY 40211

<b>Report Dates &amp; Status</b>			
Monitoring Period:	From 09/01/15 to 09/30/15	DMR Due Date:	10/28/15
Status:	NetDMR Validated		

**Considerations for Form Completion**

<b>Principal Executive Officer</b>			
First Name:	James	Title:	Executive Director
Last Name:	Parrott	Telephone:	502-540-6000

**No Data Indicator (NODI)**

Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type			
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3				Value 3	Units	
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample						=	7.4					19 - mg/L	01/01 - Daily	GR - GRAB	
					Permit Req.					>=	7 INST MIN						19 - mg/L	0	01/07 - Weekly	GR - GRAB
					Value NODI															
00400	pH	1 - Effluent Gross	0	--	Sample						=	7.4			=	8.6	12 - SU	01/01 - Daily	GR - GRAB	
					Permit Req.					>=	6 MINIMUM			<=	9 MAXIMUM	12 - SU	0	01/07 - Weekly	GR - GRAB	
					Value NODI															
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	69	=	88	26 - lb/d		=	3	=	3	19 - mg/L	03/07 - Three Per Week	CP - COMPOS		
					Permit Req.	<=	1877 MO AVG	<=	2815 MX WK AV	26 - lb/d		<=	30 MO AVG	<=	45 MX WK AV	19 - mg/L	0	01/07 - Weekly	24 - COMP24	
					Value NODI															
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample						=	243	=	359	19 - mg/L	03/07 - Three Per Week	24 - COMP24			
					Permit Req.												0	01/07 - Weekly	24 - COMP24	
					Value NODI															
00600	Nitrogen, total [as N]	1 - Effluent Gross	0	--	Sample						=	8	=	9	19 - mg/L	01/07 - Weekly	CP - COMPOS			
					Permit Req.												0	01/07 - Weekly	24 - COMP24	
					Value NODI															
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	1	--	Sample	=	3	=	4	26 - lb/d		=	0.1	=	0.2	19 - mg/L	03/07 - Three Per Week	CP - COMPOS		
					Permit Req.	<=	250 MO AVG	<=	376 MX WK AV	26 - lb/d		<=	4 MO AVG	<=	6 MX WK AV	19 - mg/L	0	01/07 - Weekly	24 - COMP24	
					Value NODI															
00665	Phosphorus, total [as P]	1 - Effluent Gross	1	--	Sample						=	0.1	=	0.1	19 - mg/L	03/07 - Three Per Week	24 - COMP24			
					Permit Req.												0	01/07 - Weekly	24 - COMP24	
					Value NODI															
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	2.874	=	3.367	03 - MGD							99/99 - Continuous	CN - CONTIN		
					Permit Req.												0	99/99 - Continuous	RE - Record (manual)	
					Value NODI															
50050	Flow, in conduit or thru treatment plant	G - Raw Sewage Influent	0	--	Sample	=	2.687	=	3.113	03 - MGD							99/99 - Continuous	RE - Record (manual)		
					Permit Req.												0	99/99 - Continuous	RE - Record (manual)	
					Value NODI															
51040	E. coli	1 - Effluent Gross	0	--	Sample						=	10	=	27	13 - #/100mL	03/07 - Three Per Week	GR - GRAB			
					Permit Req.												0	01/07 - Weekly	GR - GRAB	
					Value NODI															
80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0	--	Sample	=	46	=	58	26 - lb/d		=	2	=	2	19 - mg/L	03/07 - Three Per Week	CP - COMPOS		
					Permit Req.	<=	626 MO AVG	<=	939 MX WK AV	26 - lb/d		<=	10 MO AVG	<=	15 MX WK AV	19 - mg/L	0	01/07 - Weekly	24 - COMP24	
					Value NODI															
80082	BOD, carbonaceous [5 day, 20 C]	G - Raw Sewage Influent	0	--	Sample						=	163	=	273	19 - mg/L	03/07 - Three Per Week	24 - COMP24			
					Permit Req.												0	01/07 - Weekly	24 - COMP24	
					Value NODI															
80091	BOD, carb-5 day, 20 deg C, percent removal	K - Percent Removal	0	--	Sample						=	99			23 - %	01/30 - Monthly	CA - CALCTD			
					Permit Req.												0	01/30 - Monthly	CA - CALCTD	
					Value NODI															
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample						=	99			23 - %	01/30 - Monthly	CA - CALCTD			
					Permit Req.												0	01/30 - Monthly	CA - CALCTD	
					Value NODI															

**Submission Note**  
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

**Edit Check Errors**  
No errors.

**Comments**

**Attachments**

Name	Type	Size
201509_CedarCreek_MOR.pdf	pdf	1000730
201509_CedarCreek_COVERLETTER.pdf	pdf	421261

**Report Last Saved By**

**CEDAR CREEK WQTC MSD**

User: kevin.ries@louisvillemsd.org	Date/Time: 2015-10-26 11:28 (Time Zone: -04:00)
Name: Kevin Ries	
E-Mail: kevin.ries@louisvillemsd.org	

## DMR Copy of Record

Permit																					
Permit #:	KY0098540			Permittee:	CEDAR CREEK WQTC MSD				Facility:	CEDAR CREEK WQTC MSD											
Major:	Yes			Permittee Address:	8405 CEDAR CREEK RD LOUISVILLE, KY 40211				Facility Location:	8405 CEDAR CREEK RD LOUISVILLE, KY 40211											
Permitted Feature:	001 External Outfall			Discharge:	001-2 TOXICITY																
Report Dates & Status																					
Monitoring Period:	From 07/01/15 to 09/30/15			DMR Due Date:	10/28/15				Status:	NetDMR Validated											
Considerations for Form Completion																					
THREE 24-HOUR COMPOSITE SAMPLES ONE EACH COLLECTED EVERY OTHER DAY FOR A PERIOD OF 5 DAYS; IE - DAYS 1, 3 & 5																					
Principal Executive Officer																					
First Name:	James			Title:	Executive Director				Telephone:	502-540-6000											
Last Name:	Parrott																				
No Data Indicator (NODI)																					
Form NODI:	--																				
Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type				
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units					
61406	Toxicity, final conc toxicity units	1 - Effluent Gross	0	--	Sample										<	1	2G - tox chronic	01/90 - Quarterly	24 - COMP24		
					Permit Req.										<=	1 MAXIMUM	2G - tox chronic	01/90 - Quarterly	24 - COMP24		
					Value NODI																
Submission Note																					
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.																					
Edit Check Errors																					
No errors.																					
Comments																					
Attachments																					
No attachments.																					
Report Last Saved By																					
CEDAR CREEK WQTC MSD																					
User:	kevin.thompson@louisvillemsd.org								Date/Time:	2015-10-26 08:39 (Time Zone: -04:00)											
Name:	Kevin Thompson																				
E-Mail:	kevin.thompson@louisvillemsd.org																				

NAME OF TREATMENT PLANT CEDAR CREEK WTP

COUNTY JEFFERSON

MONTH OF: September 2015

KPDES PERMIT NUMBER KY0098540

PLANT CAPACITY 7.5 MGD

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.	RAW			HAULED			NH3-N (mg/L)	ECOLI	Total Phosphorus	Total Nitrogen		
																		GAL/DAY X 1000	MLSS X 1000							GAL/DAY X 1000	GALLONS X 1000	% DRY SOLIDS	% VOLATILE SOLIDS	% DRY SOLIDS	% VOLATILE SOLIDS					WITHDRAWN GALLONS X 1000	
1	2.44			7.7	7.8						236		3	121		2	2.08	5450	70000	3.2	2240	1820	270	240									0.10		0.068	8.09	
2	2.42			7.9	8.0						255		3	151		2	2.28	4110	65000	3.3	2190	1840	250	230									0.24	10	0.025		
3	2.37			7.9	8.3						137		3	156		2	2.37	3780	60000	3.4	2200	1780	250	200									0.11	5	0.057		
4	2.26			7.9	8.5												2.41	4020	60000	3.5	2370	1890	260	210											41		
5	2.33			7.8													2.36		60000	3.8			240	210													
6	2.27			7.9	8.1												2.37		60000	3.2			250	210													
7	2.52			7.8	8.3												2.38		60000	3.8			250	210													
8	2.35			7.5	8.2								3	202		2	2.26	4480	60000	3.7	2260	1800	280	250									0.12		0.047	9.22	
9	3.40			7.9	8.6								3	92		2	2.21	6250	65000		2480	2050	270	240									0.09	5	0.045		
10	4.77			7.4	7.4								3	83		2	2.18	8560	65000	3.2	2750	2270	270	240										0.15	273	0.043	
11	3.62			7.3	8.0												2.18	6080	65000	3.1	2300	1910	260	230											15		
12	3.43			7.4	8.1												2.16			3.9			270	240													
13	3.17			7.3	8.1												2.20			4.3			250	210													
14	2.83			7.8	8.2												2.34	6600	65000	4.1	2180	1770	260	210													
15	2.64			7.3	8.0								3	93		2	2.36	6230	65000	3.6	2640	2110	250	220									0.09		0.048	7.73	
16	2.66			7.4	8.1								3	105		2	2.38	4880	65000	4.0	2120	1790	240	200										0.09	10	0.105	
17	2.58			7.7	7.8								3	137		2	2.31	6000	65000	2.9	2590	2180	230	220										0.25	8	0.071	
18	2.45			7.5	8.0												2.34	5640	65000	3.8	2380	2020	230	220											2		
19	2.59			7.5	7.8												2.30		65000	4.2			230	220													
20	2.67			7.6	7.9												2.37		65000	4.4			240	220													
21	2.38			7.5	7.9												2.38	4670	80000	3.6	2480	2020	250	230													
22	2.41			7.3	8.0								3	152		2	2.34	6410	80000	3.7	2640	2210	250	230										0.17		0.047	7.77
23	2.55			7.4	8.1								3	194		2	2.33	4620	80000	3.5	2550	2150	250	230										0.11	4	0.082	
24	2.30			7.6	8.0								3	474		2	2.30	5860	60000	3.6	2580	2140	250	230											1	0.054	
25	2.30			7.6	8.0												2.34	5880	65000	3.6	2890	2400	250	230											22		
26	2.50			7.5	8.2												2.42		90000	3.8			250	230													
27	2.59			7.6	8.0												2.49		70000	3.6			250	240													
28	2.46			7.3	7.6												2.05	6720	72500	2.4	2680	2190	250	240													
29	5.02			7.2	7.8												2.32	5950	90000	2.6	2620	2150	250	240											1.5		
30	5.95			7.3	7.6												4.78	7530		2.6	3340	2710	270	150													
31																																					
Tot.	86.23																71.59																				
Avg.	2.87			7.6	8.0								3	163		2	2.386	5701	67870.4	3.543	2499		252.3	222.7									1.56	0.14	10	0.058	8.203

RESIDENTIAL  
COMMERCIAL  
INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT  
27374 FLOW  
23032 CBOD  
27682 TSS

Joseph Shaun Smith  
OPERATOR

20987  
CERT. NO.

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

502-239-7695  
PLANT TELEPHONE