



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

January 7, 2015

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

**RE: Cedar Creek WQTC, KPDES No: KY0098540
Discharge Monitoring Report-December 2014**

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 December 2014.

There were no exceedances, overflow or bypasses to report.

Also attached is the 4th quarter Biomonitoring report.

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

Sincerely,


Kevin Thompson
Process Supervisor Central Region

KLT/Cedar Creek 12.14.doc

Enclosures

cc: T. Singleton
R. Shaw



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

DMR Copy of Record

Permit			
Permit #:	KY0098540	Permittee:	CEDAR CREEK WQTC MSD
Major:	Yes	Permittee Address:	8405 CEDAR CREEK RD LOUISVILLE, KY 40211
Permitted Feature:	001 External Outfall	Discharge:	001-2 NEW EXPANSION
Facility:		Facility Location:	CEDAR CREEK WQTC MSD 8405 CEDAR CREEK RD LOUISVILLE, KY 40211

Report Dates & Status			
Monitoring Period:	From 12/01/14 to 12/31/14	DMR Due Date:	01/28/15
Status:	NetDMR Validated		

Considerations for Form Completion			
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Principal Executive Officer			
First Name:	Greg	Title:	Executive Director
Last Name:	Heitzman	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	=	8				=	8				19 - mg/L	0	01/01 - Daily 03/07 - Three Per Week	GR - GRAB GR - GRAB
					Permit Req.	>=	7 INST MIN								19 - mg/L				
					Value NODI														
00400	pH	1 - Effluent Gross	0	--	Sample	=	6				=	8			12 - SU	0	01/01 - Daily 03/07 - Three Per Week	GR - GRAB GR - GRAB	
					Permit Req.	>=	6 MINIMUM				<=	9 MAXIMUM		12 - SU					
					Value NODI														
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	81	=	118	26 - lb/d	=	2	=	3	19 - mg/L	0	03/07 - Three Per Week 03/07 - Three Per Week	CP - COMPOS CP - COMPOS	
					Permit Req.	<=	1876 MO AVG	<=	2815 MX WK AV	26 - lb/d	<=	30 MO AVG	<=	45 MX WK AV	19 - mg/L				
					Value NODI														
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample	=	8776	=	12586	26 - lb/d	=	249	=	335	19 - mg/L	0	03/07 - Three Per Week 03/07 - Three Per Week	CP - COMPOS CP - COMPOS	
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	26 - lb/d		Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L				
					Value NODI														
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	2	--	Sample	=	19	=	23	26 - lb/d	=	0.6	=	0.7	19 - mg/L	0	03/07 - Three Per Week 03/07 - Three Per Week	CP - COMPOS CP - COMPOS	
					Permit Req.	<=	625 MO AVG	<=	938 MX WK AV	26 - lb/d	<=	10 MO AVG	<=	15 MX WK AV	19 - mg/L				
					Value NODI														
00610	Nitrogen, ammonia total [as N]	G - Raw Sewage Influent	0	--	Sample	=	589	=	652	26 - lb/d	=	17	=	21	19 - mg/L	0	03/07 - Three Per Week 03/07 - Three Per Week	CP - COMPOS CP - COMPOS	
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	26 - lb/d		Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L				
					Value NODI														
00665	Phosphorus, total [as P]	1 - Effluent Gross	2	--	Sample	=	2	=	3	26 - lb/d	=	0.1	=	0.1	19 - mg/L	0	01/07 - Weekly 03/07 - Three Per Week	CP - COMPOS CP - COMPOS	
					Permit Req.	<=	125 MO AVG	<=	188 MX WK AV	26 - lb/d	<=	2 MO AVG	<=	3 MX WK AV	19 - mg/L				
					Value NODI														
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	4.54	=	13.433	03 - MGD						0	99/99 - Continuous 99/99 - Continuous	CN - CONTIN CN - CONTIN	
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD									
					Value NODI														
74055	Coliform, fecal general	1 - Effluent Gross	0	--	Sample						=	2	=	4	13 - #/100mL	0	03/07 - Three Per Week 03/07 - Three Per Week	GR - GRAB CP - COMPOS	
					Permit Req.						<=	200 30DA GEO	<=	400 7 DA GEO	13 - #/100mL				
					Value NODI														
80082	BOD, carbonaceous, 05 day, 20 C	1 - Effluent Gross	0	--	Sample	=	106	=	117	26 - lb/d	=	3	=	3	19 - mg/L	0	03/07 - Three Per Week 03/07 - Three Per Week	CP - COMPOS CP - COMPOS	
					Permit Req.	<=	625 MO AVG	<=	938 MX WK AV	26 - lb/d	<=	10 MO AVG	<=	15 MX WK AV	19 - mg/L				
					Value NODI														
80082	BOD, carbonaceous, 05 day, 20 C	G - Raw Sewage Influent	0	--	Sample	=	4489	=	5898	26 - lb/d	=	125	=	157	19 - mg/L	0	03/07 - Three Per Week 03/07 - Three Per Week	CP - COMPOS CP - COMPOS	
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	26 - lb/d		Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L				
					Value NODI														
80091	BOD, carb-5 day, 20 deg C, percent removal	K - Percent Removal	0	--	Sample						=	98			23 - %	0	01/30 - Monthly 01/30 - Monthly	CA - CALCTD CA - CALCTD	
					Permit Req.						>=	85 MO MIN			23 - %				
					Value NODI														
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample						=	99			23 - %	0	01/30 - Monthly 01/30 - Monthly	CA - CALCTD CA - CALCTD	
					Permit Req.						>=	85 MO MIN			23 - %				
					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
201412_CedarCreek_Coverletter.pdf	pdf	17379
201412_CedarCreek_MOR.pdf	pdf	39648

Report Last Saved By

CEDAR CREEK WQTC MSD

User: kevin.thompson@louisvillemsd.org

Date/Time: 2015-01-26 12:25 (Time Zone: -05:00)

Name: Kevin Thompson

E-Mail: kevin.thompson@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-Y METALS/BIOMONITORING/QUARTERLY		

Report Dates & Status					
Monitoring Period:	From 10/01/14 to 12/31/14	DMR Due Date:	01/28/15	Status:	NetDMR Validated

Considerations for Form Completion

Principal Executive Officer					
First Name:	Greg	Title:	Executive Director	Telephone:	502-540-6000
Last Name:	Heitzman				

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
00900	Hardness, total [as CaCO3]	1 - Effluent Gross	0	--	Sample						=	213	=	213	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS
					Permit Req.													
					Value NODI													
01025	Cadmium, dissolved [as Cd]	1 - Effluent Gross	0	--	Sample						<	0.001	<	0.001	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS
					Permit Req.													
					Value NODI													
01040	Copper, dissolved [as Cu]	1 - Effluent Gross	0	--	Sample						<	0.002	<	0.002	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS
					Permit Req.													
					Value NODI													
01049	Lead, dissolved [as Pb]	1 - Effluent Gross	0	--	Sample						<	0.05	<	0.05	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS
					Permit Req.													
					Value NODI													
01090	Zinc, dissolved [as Zn]	1 - Effluent Gross	0	--	Sample						=	0.022	=	0.022	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS
					Permit Req.													
					Value NODI													
01094	Zinc, total recoverable	1 - Effluent Gross	0	--	Sample						=	0.03	=	0.03	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS
					Permit Req.													
					Value NODI													
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.001	<	0.001	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS
					Permit Req.													
					Value NODI													
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.05	<	0.05	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS
					Permit Req.													
					Value NODI													
01119	Copper, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.002	<	0.002	19 - mg/L	0	01/90 - Quarterly	CP - COMPOS
					Permit Req.													
					Value NODI													
61406	Toxicity, final conc toxicity units	1 - Effluent Gross	0	--	Sample								<	1	2G - tox chronic	0	01/90 - Quarterly	CP - COMPOS
					Permit Req.								<=	1 DAILY MX	2G - tox chronic			
					Value NODI													

Submission Note
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Edit Check Errors
No errors.

Comments

Attachments
No attachments.

Report Last Saved By
CEDAR CREEK WQTC MSD

User:	kevin.thompson@louisvillemsd.org	Date/Time:	2015-01-26 12:26 (Time Zone: -05:00)
Name:	Kevin Thompson		
E-Mail:	kevin.thompson@louisvillemsd.org		

NAME OF TREATMENT PLANT CEDAR CREEK WTP
 KPDES PERMIT NUMBER KY0098540

COUNTY JEFFERSON
 PLANT CAPACITY 7.5 MGD

MONTH OF: December 2014
 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	GAL/DAY X 1000	WASTE P	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)	Total Phosphorus						
																									30 MIN.	60 MIN.	GALLONS X 1000	% DRY SOLIDS	% VOLATILE SOLIDS	% DRY SOLIDS				% VOLATILE SOLIDS	WITHDRAWN GALLONS X 1000				
1	4.99			6.8	6.8							9.3		212		3	129			3	2.09	6470	75000	2.5	3040	2550	390	330							0.67		0.102		
2	4.69			7.5	7.2							9.6		110		1	69			3	2.15	5700	75000	3.2	2610	2260	350	300							0.34	6	0.046		
3	4.40			6.7	6.7							8.8		246		1	137			3	3.45	5330	75000	3.1	3170	2790	410	320							0.62	3	0.045		
4	4.41			7.3	7.3							9.2								4.50	7270	75000	3.0	3390	2860	430	350								3				
5	5.47			6.3	6.5							9.3								4.59	8070	95000	2.8	3330	2720	450	360												
6	13.43			6.2	6.3							9.1								4.40		75000	4.7																
7	6.93			6.5	6.5							9.5										80000	2.3			440	360												
8	5.13			6.6	6.5							9.0		260		3	116			3	3.88	7030	85000	2.5	3210	2580	500	350							0.62		0.045		
9	4.42			6.7	6.7							9.3		480		1	237			3	4.31	6350	85000	3.2	3360	2700	520	340							0.39	2	0.038		
10	4.06			6.5	6.6							9.4		264		2	118			3	4.23	6500	92000	2.8	3420	2870	500	350							0.56	2	0.06		
11	3.67			6.7	6.8							9.2								4.17	6840	95000	2.6	3420	2840	480	360								2				
12	3.49			6.6	6.7							9.0								4.22	5870	95000	2.6	3370	2840	440	360							1.3					
13	3.57			6.6	6.8							9.4								4.31		95000	3.8			350	300												
14	3.55			7.6	8.0							8.2								3.55		95000	1.4			380	350												
15	3.28			6.9	7.3							8.6		212		2	92			3	4.22	5690	95000	3.2	3170	2640	410	340							0.34		0.063		
16	3.80			6.7	7.0							8.8		194		2	103			3	4.36	5050	95000	3.8	3170	2630	430	300							0.45	2	0.069		
17	3.74			6.8	6.6							9.2		178		2	104			3	3.55	7600	95000	3.5	3300	2670	400	330							0.50	2	0.052		
18	3.13			6.6	6.8							8.9								2.16	6730	95000	2.9	2960	2490	370	300								2				
19	3.07			6.7	6.9							8.5								2.19	5930	90000	2.6	2920	2410	350	300												
20	3.22			6.8	6.9							8.8								2.21		90000	3.1			340	290												
21	3.29			6.7	7.0							8.9								2.18		85000	2.4			340	280												
22	3.04			6.9	6.8							8.6		356		3	118			3	2.17	6090	85000	2.5	2830	2370	340	300							1.4		1.20	0.054	
23	4.63			6.8	6.9							8.8		238		3	98			3	2.21	5870	75000	2.6	2760	2310	340	300							0.50	2	0.064		
24	4.89			6.6	7.1							9.1								2.10		75000	2.5			350	300									2			
25	4.85			6.8	6.9							8.9		240		4	180			3	2.03	75000	2.9			300	250								0.45		0.058		
26	4.56			6.7	6.8							8.7								1.93		75000	3.0			320	250									4			
27	4.24			6.6	6.7							8.9								1.93		75000	3.2			310	240												
28	5.45			6.9	6.8							8.8								2.08		75000	2.7			320	250												
29	4.80			6.4	6.5							8.5								1.80	8320	75000	2.9	3010		330	250												
30	4.26			6.6	6.6							8.7								2.13	8680	80000	2.8	3210	2480	310	280								1.6				
31	4.26			6.2	6.4							9.8								2.15	8770	80000	3.0	2880		330	290												
Tot.	140.73																			91.25																			
Avg.	4.54			6.7	6.8							9.0		249		2	125			3	3.042	6708	84097	2.906	3127	2612	384.3	309.3							1.45		0.55	2	0.058

RESIDENTIAL
 COMMERCIAL
 INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT
 43235 FLOW
 27857 CBOD
 44922 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