



Safe, clean waterways

700 West Liberty Street | Louisville, KY 40203-1911
Phone: 502.540.6000 | LouisvilleMSD.org

December 10, 2019

Crystal Dennis
300 Sower Blvd., 3rd Floor
Frankfort, Kentucky 40601

**RE: Cedar Creek WQTC, KPDES No: KY0098540
Discharge Monitoring Report for November 2019.**

Dear Mrs. Dennis:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operator Report (MOR) for the Cedar Creek WQTC, for the month of November 2019.

Also attached are discharge reports.

There were no exceedances or bypasses to report.

If you have any questions concerning the attached DMR's, please contact me at (502)587-5849.

Sincerely,

Duane V. Wright
Process Supervisor

DVW/ Cedar Creek. 11/19.

Enclosures

Cc: V. Graves
R. Shaw

DMR Copy of Record

Permit			
Permit #:	KY0098540	Permittee:	Cedar Creek WQTC MSD
Major:	Yes	Permittee Address:	700 W Liberty St Louisville, KY 40203
Permitted Feature:	001 External Outfall	Discharge:	001-1 MUNICIPAL DISCHARGE
Facility:		Facility Location:	CEDAR CREEK WQTC MSD 8405 CEDAR CREEK RD LOUISVILLE, KY 40291

Report Dates & Status			
Monitoring Period:	From 11/01/19 to 11/30/19	DMR Due Date:	12/28/19
Status:	NetDMR Validated		

Considerations for Form Completion

Principal Executive Officer			
First Name:	James A.	Title:	Exec. Dir.
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					=	9.8					19 - mg/L	01/07 - Weekly	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					=	8			=	8.1	12 - SU	01/07 - Weekly	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	=	128	=	135	26 - lb/d		=	3	=	3	19 - mg/L	01/07 - Weekly	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					=	260			=	340	19 - mg/L	01/07 - Weekly	CP - COMPOS	
					Permit Req.												0	01/07 - Weekly	24 - COMP24
					Value NODI														
00600	Nitrogen, total [as N]	1 - Effluent Gross	0	--	Sample					=	9			=	10	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	2	--	Sample	=	23	=	50	26 - lb/d		=	0.5	=	1.1	19 - mg/L	01/07 - Weekly	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														
00665	Phosphorus, total [as P]	1 - Effluent Gross	2	--	Sample					=	1			=	1.2	19 - mg/L	01/07 - Weekly	CP - COMPOS	
					Permit Req.												0	01/07 - Weekly	24 - COMP24
					Value NODI														
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	6.261	=	7.708	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	=	5.41	=	6.864	03 - MGD							99/99 - Continuous	CN - CONTIN	
					Permit Req.												0	99/99 - Continuous	RE - Record (manual)
					Value NODI														
51040	E. coli	1 - Effluent Gross	0	--	Sample					=	3			=	18	13 - #/100mL	01/07 - Weekly	GR - GRAB	
					Permit Req.												0	01/07 - Weekly	GR - GRAB
					Value NODI														
80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0	--	Sample	=	124	=	191	26 - lb/d		=	3	=	3	19 - mg/L	01/07 - Weekly	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					=	173			=	287	19 - mg/L	01/07 - Weekly	CP - COMPOS	
					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
CC112019_COVER.pdf	pdf	454426
CedarCreek.pdf	pdf	31771
CC112019_MOR.xls	xls	333312

Report Last Saved By

Cedar Creek WQTC MSD

User: WRIGHTDUANE
Name: Duane Wright
E-Mail: duane.wright@louisvillemsd.org
Date/Time: 2019-12-19 14:24 (Time Zone: -05:00)

Report Last Signed By

User: WRIGHTDUANE
Name: Duane Wright
E-Mail: duane.wright@louisvillemsd.org
Date/Time: 2019-12-19 14:33 (Time Zone: -05:00)



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
SMNSewer Main	102886-V	10519 PROVIDENCE DR		CEDAR CREEK	GROUND

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	3173359		11/05/2019	GOODWIN	BRAZEL	REPAIRED - ISSUE RESOLVED	11/05/2019	STRUCTURAL FAILURE	UNAUTHORIZED DISCHARGE-WATERS	11/06/19 09:34 AM	

Discharge Reporting:

Discharge Amount:	5 GAL
Cause:	STRUCTURAL FAILURE IN FORCE MAIN.
Clean Up:	MSD PERSONNEL TO CLEAN AFFECTED AREA.
Control Zone:	TEMPORARY SIGNS IN PLACE AT EDGE OF STREAM.
Impact:	GREEN DYE AND ODOR PRESENT IN STREAM.
Repair:	CONTRACTOR REPAIRING FORCE MAIN.
Public Notification:	TEMPORARY SIGNS IN PLACE AT EDGE OF STREAM.

Notifications:

11/6/19 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
-----------------	--------	---

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
SMHSewer Manhole	28984	5410 SPRIGWOOD LN		CEDAR CREEK	GROUND

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	3181522		11/30/2019	ANDERSON	SMITH	DOCUMENTE D	01/24/2002	LACK OF SYSTEM CAPAC	UNAUTHORIZED DISCHARGE-WATER	11/30/19 06:25 PM	MAIN

Discharge Reporting:

Discharge Amount:	15 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	OPERATION DISCLN
Control Zone:	TAPE
Impact:	OBSERVED SEWAGE AND DEBRIS
Repair:	A SOLUTION FOR THIS IS INCLUDED IN THE IOAP
Public Notification:	MSD ADVISED CUSTOMER ON SITE

Notifications:

12/1/19 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
-----------------	--------	--

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
SMHSewer Manhole	28998	5600 HOFELICH CT		CEDAR CREEK	GROUND

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Ref No</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>
: DISREV: RAIN EVENT DISCHARGE	3181517		11/30/2019	ANDERSON	SMITH	QUEUED FOR REPAIR	11/30/2019	LACK OF SYSTEM CAPAC	UNAUTHORIZED DISCHARGE-WATER	11/30/19 06:20 PM	MAIN

Discharge Reporting:

Discharge Amount:	15 GAL
Cause:	LACK OF SYSTEM CAPACITY- HEAVY RAIN.
Clean Up:	WO # 3181528
Control Zone:	CAUTION TAPE AROUND AREA.
Impact:	OBSERVED SEWAGE AND DEBRIS.
Repair:	A SOLUTION FOR THIS IS INCLUDED IN THE IOAP.
Public Notification:	PERMANET SIGNS ARE OUT.

Notifications:

12/1/19 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
-----------------	--------	---

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
SMNSewer Main	78207	10801 FAIRMOUNT RD		CEDAR CREEK	STREAM

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Ref No</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	3181130		11/26/2019	GOODWIN	BRAZEL	REPAIRED - ISSUE RESOLVED	09/27/2018	STRUCTURAL FAILURE	UNAUTHORIZED DISCHARGE-WATERS	11/27/19 04:21 PM	

Discharge Reporting:

Discharge Amount:	30,040 GAL
Cause:	STRUCTURAL FAILURE, FORCE MAIN BREAK.
Clean Up:	PLACED BAILS OF STRAW TO CATCH DEBRIS, MSD PERSONNEL TO CLEAN AND DISINFECT FOLLOWING REPAIR.
Control Zone:	PLACED TEMPORARY SIGNS AND CONES AROUND AFFECTED AREA.
Impact:	SEWAGE FOUND ON GROUND AND IN STREAM.
Repair:	CONTRACTOR TO REPAIR FORCE MAIN.
Public Notification:	PLACED TEMPORARY SIGNS AROUND AFFECTED AREA.

Notifications:

11/27/19 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
11/27/19 1:00 AM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

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
SMHSewer Manhole	98022	9719 COLLIER LN		CEDAR CREEK	STREAM

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	3182265		11/30/2019	WRIGHT	WRIGHT	REPAIRED - ISSUE RESOLVED	09/24/2018	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE-WATERS	12/01/19 12:15 AM	

Discharge Reporting:

Discharge Amount:	12,540 GAL
Cause:	LACK OF SYSTEM CAPACITY.
Clean Up:	NO DEBRIS ON SITE.
Control Zone:	PERMENATE SIGNS.
Impact:	MH UNDERWATER.
Repair:	LOCATION IN THE IOAP.
Public Notification:	PERMANENT OVERFLOW WARNING SIGNS POSTED ALONG CREEK.

Notifications:

12/2/19 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
-----------------	--------	---

Total Facilities Printed: 5

Total Work Orders Printed: 5

NAME OF TREATMENT PLANT CEDAR CREEK WTP COUNTY JEFFERSON MONTH OF: November 2019
 KPDES PERMIT NUMBER KY0098540 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		TOTAL FLOW INF. (MILLION GALLONS)									
		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	DISSOLVED OXYGEN (mg/L)	MLSS (mg/L) X 1000	MLVSS (mg/L) X 1000	SETTLED SLUDGE VOLUME		RAW		HAULED		NH3-N (mg/L)		ECOLI	Total Phosphorus	Total Nitrogen						
																								30 MIN.	60 MIN.	GALLONS X 1000	% DRY SOLIDS	% VOLATILE SOLIDS	% DRY SOLIDS						% VOLATILE SOLIDS	WITHDRAWN GALLONS X 1000				
																		RETURN	WASTED																					
1	8.42															4	6910	45000	6.6	2080	1810	170															7.48818			
2	7.28															4		45000	2.9			170															6.63625			
3	5.26										234		3	176		3		45000	4.6			160											0.20		1.1	8.81	4.93811			
4	5.23			7.5	8.1				10.2							3	6810	90000	5.2	4040	3470	400													18		4.60075			
5	4.96															2	8500	55000	4.9	3220	2800	260															4.05572			
6	4.58															2	7580	60000	3.4	2930	2550	300															3.83355			
7	6.31															3	6100	80000	2.8	3150	2720	280															6.71446			
8	6.93															4	5400	65000	4.1	2240	2120	210															6.03058			
9	5.73															4		60000	3.0			260															5.16685			
10	5.40										230		3	154		3	4	60000	2.8			270												1.10	0.708	9.18	4.88005			
11	4.86			7.3	8.0				9.8							4	5930	65000	2.8	2600	2260	300													1		4.43332			
12	5.50															4	6080	60000	6.1	2430	2190	280															4.77632			
13	4.97															4	5390	80000	3.6	2850	2460	320															4.44513			
14	5.69															3	5820	80000	4.1	3910	3330	310															4.29044			
15	4.59															2	6630	53000	6.5	2800	2430	300																3.99313		
16	4.48															2		50000	6.5			330															4.04934			
17	4.65										340		3	287		1	2	50000	5.7			320												0.51	1.18	10.2	4.11077			
18	4.19			7.5	8.0				9.8							2	6920	60000	5.4	2600	2410	300														2		3.75815		
19	4.38															2	6640	75000	6.7	3300	2890	300																3.7126		
20	4.25															2	6660	65000	6.8	2810	2480	290																3.79809		
21	4.24															2	6970	65000	7.0	2830	2470	300																3.69321		
22	6.22															3	5680	65000	4.4	3150	2800	270																6.43932		
23	7.84															4		60000	3.2			280																6.78603		
24	7.62										237		2	74		3	4	60000	2.7			320													0.20	1.01	7.67	6.62659		
25	6.20			7.4	8.1				10.1							4	6240	60000	3.4	3000	2700	350															2		5.34986	
26	5.57															4	5920	30000	3.2	3460	3060	360																4.94755		
27	11.98															4	8690	32000	3.7	1900	1790	210																	10.47903	
28	8.52															4		40000	2.7			210																7.4218		
29	6.39															4		40000	2.4			240																5.59733		
30	15.58																	30000	4.8			200																9.24391		
31																																								
Tot.	187.84															98.83																							162.29642	
Avg.	6.26			7.4	8.1				10.0		260		3	173		3	3.408	6572	57500	4.4	2911	2565	275.7													0.50	3	1	8.965	5.409880667

RESIDENTIAL
 COMMERCIAL
 INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT
 FLOW CBOD TSS

59631 53064 64714

Joseph Shaun Smith 20987
 OPERATOR CERT. NO.

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

502-540-6000
 PLANT TELEPHONE