



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

December 16, 2020

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

**RE: Cedar Creek WQTC, KPDES No: KY0098540
Discharge Monitoring Report for November 2020.**

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 2020.

There were no exceedances, bypasses, or discharges to report.

If you have any questions concerning the attached DMR's, please contact me at (502) 540-6952.

Sincerely,

William E. Ford
Process Supervisor-Operations

WEF/ Cedar Creek. 11/20.

Enclosures

Cc: V. Graves
R. Shaw

DMR Copy of Record

Permit

Permit #:

KY0098540

Major:

Yes

Permitted Feature:

001
External Outfall

Permittee:

Cedar Creek WQTC MSD

Permittee Address:

700 W Liberty St
Louisville, KY 40203

Discharge:

001-1
MUNICIPAL DISCHARGE

Facility:

CEDAR CREEK WQTC MSD

Facility Location:

8405 CEDAR CREEK RD
LOUISVILLE, KY 40291

Report Dates & Status

Monitoring Period:

From 11/01/20 to 11/30/20

DMR Due Date:

12/28/20

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:

James A.

Last Name:

Parrott

Title:

Executive Director

Telephone:

502-540-6000

No Data Indicator (NODI)

Form NODI:

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Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					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	=	9.2									19 - mg/L		0	01/07 - Weekly	GR - GRAB
					Permit Req.	>=	7.0 INST MIN									19 - mg/L			01/07 - Weekly	GR - GRAB
					Value NODI															
00400	pH	1 - Effluent Gross	0	--	Sample	=	7.1								=	8.2	12 - SU	0	01/07 - Weekly	GR - GRAB
					Permit Req.	>=	6.0 MINIMUM								<=	9.0 MAXIMUM	12 - SU		01/07 - Weekly	GR - GRAB
					Value NODI															
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	256.0	=	350.0	26 - lb/d			=	4.0	=	7.0	19 - mg/L	0	01/07 - Weekly	CP - COMPOS
					Permit Req.	<=	1877.0 MO AVG	<=	2815.0 MX WK AV	26 - lb/d			<=	30.0 MO AVG	<=	45.0 MX WK AV	19 - mg/L		01/07 - Weekly	24 - COMP24
					Value NODI															
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample								=	208.0	=	222.0	19 - mg/L	0	01/07 - Weekly	CP - COMPOS
					Permit Req.									Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L		01/07 - Weekly	24 - COMP24
					Value NODI															
00600	Nitrogen, total [as N]	1 - Effluent Gross	0	--	Sample								=	9.0	=	12.0	19 - mg/L	0	01/07 - Weekly	CP - COMPOS
					Permit Req.									Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L		01/07 - Weekly	24 - COMP24
					Value NODI															
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	2	--	Sample	=	132.0	=	225.0	26 - lb/d			=	2.0	=	4.5	19 - mg/L	0	01/07 - Weekly	CP - COMPOS
					Permit Req.	<=	626.0 MO AVG	<=	939.0 MX WK AV	26 - lb/d			<=	10.0 MO AVG	<=	15.0 MX WK AV	19 - mg/L		01/07 - Weekly	24 - COMP24
					Value NODI															
00665	Phosphorus, total [as P]	1 - Effluent Gross	2	--	Sample								=	0.3	=	0.4	19 - mg/L	0	01/07 - Weekly	CP - COMPOS
					Permit Req.								<=	2.0 MO AVG	<=	3.0 MX WK AV	19 - mg/L		01/07 - Weekly	24 - COMP24
					Value NODI															
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	6.857	=	7.372	03 - MGD								0	99/99 - Continuous	CN - CONTIN
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	03 - MGD									99/99 - Continuous	RE - Record (manual)
					Value NODI															
50050	Flow, in conduit or thru treatment plant	G - Raw Sewage Influent	0	--	Sample	=	5.842	=	6.428	03 - MGD								0	99/99 - Continuous	CN - CONTIN
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	03 - MGD									99/99 - Continuous	RE - Record (manual)
					Value NODI															
51040	E. coli	1 - Effluent Gross	0	--	Sample								=	2.0	=	5.0	13 - #/100mL	0	01/07 - Weekly	GR - GRAB
					Permit Req.								<=	130.0 30DA GEO	<=	240.0 7 DA GEO	13 - #/100mL		01/07 - Weekly	GR - GRAB
					Value NODI															
80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0	--	Sample	=	155.0	=	233.0	26 - lb/d			=	3.0	=	3.0	19 - mg/L	0	01/07 - Weekly	CP - COMPOS
					Permit Req.	<=	626.0 MO AVG	<=	939.0 MX WK AV	26 - lb/d			<=	10.0 MO AVG	<=	15.0 MX WK AV	19 - mg/L		01/07 - Weekly	24 - COMP24
					Value NODI															
80082	BOD, carbonaceous [5 day, 20 C]	G - Raw Sewage Influent	0	--	Sample								=	129.0	=	162.0	19 - mg/L	0	01/07 - Weekly	CP - COMPOS
					Permit Req.									Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L		01/07 - Weekly	24 - COMP24
					Value NODI															
80091	BOD, carb-5 day, 20 deg C, percent removal	K - Percent Removal	0	--	Sample						=	98.0					23 - %	0	01/30 - Monthly	CA - CALCTD
					Permit Req.						>=	85.0 MO AV MN					23 - %		01/30 - Monthly	CA - CALCTD
					Value NODI															

NAME OF TREATMENT PLANT CEDAR CREEK WTP COUNTY JEFFERSON MONTH OF: November 2020
 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		Total Phosphorus	Total Nitrogen	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	RETURN		WAST ID	DISSOLVED OXYGEN (mg/L)	MLSS (mg/L) x 1000	MLVSS (mg/L) x 1000	SETTLED SLUDGE VOLUME		RAW		HAULED					NH3-N (mg/L)	ECOLI			
																		GAL/DAY x 1000	MLSS x 1000					GAL/DAY x 1000	30 MIN.	60 MIN.	GALLONS x 1000	% DRY SOLIDS	% VOLATILE SOLIDS						% DRY SOLIDS	% VOLATILE SOLIDS	WITHDRAWN GALLONS x 1000
1	9.29										170		3	91		3	2.91		65000	2.8			250							0	2.00			0.3	7.05	8.4184904	
2	7.45			7.8	8.0				9.9								4.1	8970	65000	2.6	4060	3540	550							75600		1			6.2535105		
3	7.47																3.85	9490	65000	2.8	4140	3520	500							75600					5.522296		
4	6.18																3.81	8610	85000	3	4710	3970	550							75600					5.1750283		
5	5.63																3.94	8440	75000	2.9	4130	3570	520							151200					4.9523683		
6	5.43																4	7720	80000	3.9	4160	3510	510							144900					4.7760181		
7	5.52																3.61	0	40000	3.7	0	0	500							12600					4.7293787		
8	5.43									220		3	136		3	3.65	0	40000	2.7	0	0	550							0	0.22		0.3	6.45	4.7159772			
9	5.21			8.1	8.1				9.2								3.95	7990	80000	2.7	4220	3630	500							69300		5			4.4533906		
10	5.16																3.82	7270	90000	3.4	4380	3630	520							182700					4.3627872		
11	6.85																3.78	7060	80000	3.6	3760	3360	460							151200					5.8835349		
12	6.09																3.62	7910	75000	4.1	3900	3280	540							107100					5.1574163		
13	5.62																3.61	7610	75000	5.4	3680	3200	550							151200					4.8137178		
14	5.65																3.55	0	60000	4.9	0	0	450							31500					4.7149873		
15	9.15									218		4	128		2	3.58	0	70000	4.4	0	0	460							0	1.80		0.427	10.6	8.0113478			
16	7.78			7.7	8.2				10.2								3.65	5190	65000	5.1	2210	1940	250							75600		1			6.5381289		
17	6.57																3.67	8000	65000	4	3410	2880	440							75600					5.5381699		
18	7.05																2.39	7300	70000	3.3	3480	2930	450							107100					5.1800652		
19	6.10																1.85	8900	55000	3.1	3190	2720	400							120100					5.0240779		
20	5.67																1.9	8640	50000	3.1	3000	2600	380							113400					4.8148775		
21	5.76																1.81	0	60000	2.7	0	0	400							37800					4.8149805		
22	6.00									222		7	162		2	1.75	0	60000	2.9	0	0	380							0	4.50		0.3	11.5	5.0624189			
23	5.80			7.9	7.1				9.4								1.88	10100	60000	2.1	3170	2740	390							107100		2			4.8848		
24	5.66																1.98	7890	60000	3.2	3160	2730	360							151200					4.6935196		
25	7.89																3	7120	60000	3.1	2810	2450	350							214200					7.9266939		
26	10.98																3	0	60000	3.2	0	0	260							0					9.4200382		
27	8.08																3.55	0	60000	3.1	0	0	350							119700					6.8889499		
28	7.19																3.55	0	60000	3	0	0	380							88200					6.1198096		
29	6.93																3.53	0	60000	3.5	0	0	490							0					5.7748675		
30	12.11																3.46	10030	40000	3.8	2870	2490	380							113400					10.638672		
31																																					
Tot.	205.71																96.75														2551900					175.2603189	
Avg.	6.86			7.9	7.9				9.7		208		4	129		3	3.225	5318.62	64333	3.403	2360	2024	435.7								85063.33	2.13	2	0.332	8.9	5.84201063	

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT
65305 FLOW 43479 CBOD 56506 TSS

M. Stephenson
OPERATOR

36033
CERT. NO.

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

502-540-6000
PLANT TELEPHONE