



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

November 9, 2017

Cheryl Edwards
300 Sower Blvd., 3rd Floor
Frankfort, Kentucky 40601

**RE: Cedar Creek WQTC, KPDES No: KY0098540
Discharge Monitoring Report for October 2017.**

Dear Ms. Edwards:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operator Report (MOR) for the Cedar Creek WQTC, for the month of October 2017.

There were no exceedances, discharges or bypasses to report.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Duane V. Wright".

Duane V. Wright
Process Supervisor

DVW/ Cedar Creek. 10/17.

Enclosures

Cc: V. Graves
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: | 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 10/01/17 to 10/31/17 | DMR Due Date: | 11/28/17 |
| Status: | NetDMR Validated | | |

Considerations for Form Completion

| | | | |
|------------------------------------|----------|-------------------|--------------|
| Principal Executive Officer | | | |
| First Name: | James A. | Title: | Exec. Dir. |
| Last Name: | Parott | 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 | | | | | | | | | 19 - mg/L | 0 | 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 | | | 12 - SU | 0 | 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 | = | 176 | = | 314 | 26 - lb/d | | = | 4 | = | 4 | 19 - mg/L | 0 | 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 | | | | | | = | 264 | = | 360 | 19 - mg/L | 0 | 01/07 - Weekly | CP - COMPOS | | |
| | | | | | Permit Req. | | | | | | | Req Mon MO AVG | | Req Mon MX WK AV | 19 - mg/L | 0 | 01/07 - Weekly | 24 - COMP24 | | |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 00600 | Nitrogen, total [as N] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | = | 10 | = | 13 | 19 - mg/L | 0 | 01/07 - Weekly | CP - COMPOS | | |
| | | | | | Permit Req. | | | | | | | Req Mon MO AVG | | Req Mon MX WK AV | 19 - mg/L | 0 | 01/07 - Weekly | 24 - COMP24 | | |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 00610 | Nitrogen, ammonia total [as N] | 1 - Effluent Gross | 1 | -- | Sample | = | 39 | = | 78 | 26 - lb/d | | = | 0.8 | = | 1.4 | 19 - mg/L | 0 | 01/07 - Weekly | 24 - COMP24 | |
| | | | | | 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 | | | | | | = | 0.4 | = | 0.6 | 19 - mg/L | 0 | 01/07 - Weekly | 24 - COMP24 | | |
| | | | | | Permit Req. | | | | | | | <= | 1 MO AVG | <= | 1.5 MX WK AV | 19 - mg/L | 0 | 01/07 - Weekly | 24 - COMP24 | |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 50050 | Flow, in conduit or thru treatment plant | 1 - Effluent Gross | 0 | -- | Sample | = | 5.542 | = | 8.752 | 03 - MGD | | | | | | | 0 | 99/99 - Continuous | CN - CONTIN | |
| | | | | | Permit Req. | | Req Mon MO AVG | | Req Mon MX WK AV | 03 - MGD | | | | | | | | 0 | 99/99 - Continuous | RE - Record (manual) |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 50050 | Flow, in conduit or thru treatment plant | G - Raw Sewage Influent | 0 | -- | Sample | = | 5.079 | = | 8.03 | 03 - MGD | | | | | | | 0 | 99/99 - Continuous | CN - CONTIN | |
| | | | | | Permit Req. | | Req Mon MO AVG | | Req Mon MX WK AV | 03 - MGD | | | | | | | | 0 | 99/99 - Continuous | RE - Record (manual) |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 51040 | E. coli | 1 - Effluent Gross | 0 | -- | Sample | | | | | | = | 15 | = | 126 | 13 - #/100mL | 0 | 01/07 - Weekly | GR - GRAB | | |
| | | | | | Permit Req. | | | | | | | <= | 130 30DA GEO | <= | 240 7 DA GEO | 13 - #/100mL | 0 | 01/07 - Weekly | GR - GRAB | |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 80082 | BOD, carbonaceous [5 day, 20 C] | 1 - Effluent Gross | 0 | -- | Sample | = | 128 | = | 235 | 26 - lb/d | | = | 3 | = | 3 | 19 - mg/L | 0 | 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 | | | | | | = | 200 | = | 283 | 19 - mg/L | 0 | 01/07 - Weekly | CP - COMPOS | | |
| | | | | | Permit Req. | | | | | | | | Req Mon MO AVG | | Req Mon MX WK AV | 19 - mg/L | 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 - % | 0 | 01/30 - Monthly | CA - CALCTD | | |
| | | | | | Permit Req. | | | | | | | | | | >= | 85 MO AV MN | 23 - % | 0 | 01/30 - Monthly | CA - CALCTD |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 81011 | Solids, suspended percent removal | K - Percent Removal | 0 | -- | Sample | | | | | | = | 99 | | | 23 - % | 0 | 01/30 - Monthly | CA - CALCTD | | |
| | | | | | Permit Req. | | | | | | | | | | >= | 85 MO AV MN | 23 - % | 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 |
|--------------------|------|--------|
| CC102017_MOR.pdf | pdf | 47761 |
| CC102017_COVER.pdf | pdf | 377566 |

Report Last Saved By
Cedar Creek WQTC MSD

User: WRIGHTDUANE
Name: Duane Wright
E-Mail: duane.wright@louisvillemsd.org
Date/Time: 2017-11-14 08:20 (Time Zone: -05:00)

Report Last Signed By

User: WRIGHTDUANE
Name: Duane Wright
E-Mail: duane.wright@louisvillemsd.org
Date/Time: 2017-11-14 08:20 (Time Zone: -05:00)

NAME OF TREATMENT PLANT CEDAR CREEK WTP COUNTY JEFFERSON MONTH OF: October 2017
 KPDES PERMIT NUMBER KY0098540 PLANT CAPACITY 7.5 MGD RECEIVING STREAM CEDAR CREEK

| DATE | TOTAL FLOW (MILLION GALLONS) | RAW SEWAGE | | 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 | | WASTED | 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 | | | |
| | | RAW | | FINAL | | RAW | | PRIMARY EFFLUENT | | FINAL EFFLUENT | | RAW | | PRIMARY EFFLUENT | | FINAL EFFLUENT | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 3.37 | | | | | | | | | | 360 | | 3 | 283 | | 2 | 2 | 5660 | 70000 | 2.9 | 2610 | 2330 | 300 | 280 | | | | | | | | | | 1.40 | | 0.3 | 12.75 | 3.22717 | | |
| 2 | 3.23 | | | 7.4 | 8.1 | | | | | 8.4 | | | | | | | 2 | 4930 | 80000 | 2.8 | 4650 | 3930 | 270 | 250 | | | | | | | | | | 11 | | | | 2.93676 | | |
| 3 | 3.03 | | | | | | | | | | | | | | | | 2 | 4040 | 80000 | 4.8 | 2330 | 2060 | 300 | 260 | | | | | | | | | | | | | | | 2.87804 | |
| 4 | 2.98 | | | | | | | | | | | | | | | | 2 | 3920 | 70000 | 3.8 | 1850 | 1410 | 270 | 250 | | | | | | | | | | | | | | | 2.81322 | |
| 5 | 2.98 | | | | | | | | | | | | | | | | 2 | 4470 | 75000 | 3.2 | 2130 | 1820 | 280 | 250 | | | | | | | | | | | | | | | 2.75417 | |
| 6 | 3.09 | | | | | | | | | | | | | | | | 2 | 4140 | 80000 | 4.8 | 2210 | 2030 | 270 | 250 | | | | | | | | | | | | | | | 2.78526 | |
| 7 | 3.20 | | | | | | | | | | | | | | | | 2 | 4340 | 80000 | 4.5 | 2230 | 1950 | 260 | 240 | | | | | | | | | | | | | | | 2.88371 | |
| 8 | 9.40 | | | | | | | | | | 248 | | 4 | 117 | | 3 | 2 | 4240 | 80000 | 4.3 | 2200 | 1930 | 270 | 250 | | | | | | | | | | 1.00 | | 0.3 | | | 10.38468 | |
| 9 | 11.76 | | | 7.5 | 7.6 | | | | | 8.7 | | | | | | | 3 | 3870 | 0 | 3.4 | 1220 | 1180 | 140 | 130 | | | | | | | | | | 126 | | | | 9.92316 | | |
| 10 | 9.71 | | | | | | | | | | | | | | | | 6 | 4380 | 57000 | 2.9 | 1640 | 1500 | 180 | 160 | | | | | | | | | | | 6.35 | | | 8.674 | | |
| 11 | 11.84 | | | | | | | | | | | | | | | | 6 | 4320 | 45000 | 3.8 | 1330 | 1200 | 150 | 150 | | | | | | | | | | | | | | | 10.68555 | |
| 12 | 8.12 | | | | | | | | | | | | | | | | 6 | 7930 | 58000 | 4.1 | 3000 | 2600 | 260 | 230 | | | | | | | | | | | | | | | 6.7549 | |
| 13 | 5.48 | | | | | | | | | | | | | | | | 5 | 7680 | 56000 | 4.0 | 2760 | 2390 | 300 | 290 | | | | | | | | | | | | | | | 5.15587 | |
| 14 | 4.96 | | | | | | | | | | | | | | | | 4 | 6880 | 63000 | 3.9 | 2900 | 2430 | 300 | 270 | | | | | | | | | | | | | | | 4.63475 | |
| 15 | 4.77 | | | | | | | | | | 222 | | 3 | 177 | | 2 | 4 | 6680 | 68000 | 3.8 | 3040 | 2570 | 300 | 270 | | | | | | | | | 0.20 | | 0.573 | 7.46 | | | 4.38749 | |
| 16 | 5.12 | | | 7.5 | 8.3 | | | | | 8.4 | | | | | | | 4 | 5960 | 77000 | 3.9 | 2940 | 2570 | 310 | 290 | | | | | | | | | | | | 19 | | | | 3.93434 |
| 17 | 4.08 | | | | | | | | | | | | | | | | 3 | 7210 | 60000 | 3.8 | 2720 | 2420 | 290 | 270 | | | | | | | | | | | | | | | 3.7111 | |
| 18 | 3.77 | | | | | | | | | | | | | | | | 2 | 6110 | 60000 | 3.7 | 2410 | 2070 | 270 | 250 | | | | | | | | | | | | | | | 3.55477 | |
| 19 | 3.67 | | | | | | | | | | | | | | | | 2 | 5380 | 60000 | 3.6 | 2230 | 1950 | 270 | 260 | | | | | | | | | | | | | | | 3.42824 | |
| 20 | 3.63 | | | | | | | | | | | | | | | | 2 | 5690 | 65000 | 2.8 | 2500 | 2200 | 270 | 260 | | | | | | | | | | | | | | | 3.34278 | |
| 21 | 3.70 | | | | | | | | | | | | | | | | 2 | 4940 | 60000 | 3.6 | 2250 | 1930 | 270 | 260 | | | | | | | | | | | | | | | 3.39479 | |
| 22 | 3.78 | | | | | | | | | | | | | | | | 2 | 4780 | 60000 | 3.2 | 2320 | 2070 | 270 | 270 | | | | | | | | | | | | | | | 3.50176 | |
| 23 | 5.55 | | | 7.5 | 8.2 | | | | | 11.0 | 224 | | 4 | 223 | | 3 | 2 | 5740 | 78000 | 2.6 | 2850 | 2520 | 300 | 270 | | | | | | | | | 0.67 | 2 | 0.3 | 12.19 | | | 5.84357 | |
| 24 | 6.46 | | | | | | | | | | | | | | | | 3 | 6640 | 57000 | 5.1 | 2600 | 2400 | 250 | 250 | | | | | | | | | | | | | | | 5.58313 | |
| 25 | 5.01 | | | | | | | | | | | | | | | | 5 | 6210 | 65000 | 3.7 | 2710 | 2320 | 300 | 280 | | | | | | | | | | | | | | | 4.60681 | |
| 26 | 4.43 | | | | | | | | | | | | | | | | 4 | 9500 | 38000 | 4.2 | 2500 | 2180 | 300 | 280 | | | | | | | | | | | | | | | 4.09105 | |
| 27 | 4.58 | | | | | | | | | | | | | | | | 4 | 6300 | 65000 | 3.8 | 2730 | 2380 | 300 | 280 | | | | | | | | | | | | | | | 4.19927 | |
| 28 | 11.66 | | | | | | | | | | | | | | | | 4 | 6980 | 60000 | 3.6 | 2440 | 2070 | 280 | 240 | | | | | | | | | | | | | | | 10.5465 | |
| 29 | 7.85 | | | | | | | | | | | | | | | | 4 | 6520 | 52000 | 3.3 | 2300 | 1960 | 260 | 230 | | | | | | | | | | | | | | | 6.94561 | |
| 30 | 5.76 | | | | | | | | | | | | | | | | 4 | 4940 | 55000 | 5.3 | 1860 | 1650 | 200 | 180 | | | | | | | | | | | | | | | 5.32028 | |
| 31 | 4.83 | | | | | | | | | | | | | | | | 4 | 7440 | 63000 | 3.4 | 2990 | 2620 | 350 | 300 | | | | | | | | | | | | | | | 4.56344 | |
| Tot. | 171.80 | | | | | | | | | | | | | | | | 98.73 | | | | | | | | | | | | | | | | | | | | | | 157.44617 | |
| Avg. | 5.54 | | | 7.5 | 8.1 | | | | | 9.1 | 264 | | 4 | 200 | | 3 | 3.185 | 5736 | 62484 | 3.761 | 2466 | 2150 | 269 | 248.4 | | | | | | | | | | 0.82 | 15 | 0.368 | 9.688 | 5.07890871 | | |

RESIDENTIAL _____ INDUSTRIAL WASTE POPULATION EQUIVALENT _____
 COMMERCIAL _____ FLOW _____ 52781 _____ 54377 _____ 57996 _____
 INDUSTRIAL _____ CBOD _____ TSS _____ Joseph Smith _____ 20987 _____
 OPERATOR _____ CERT. NO. _____

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

502-540-6000 _____
 PLANT TELEPHONE _____