



MSD

Louisville and Jefferson County Metropolitan Sewer District  
700 West Liberty Street  
Louisville Kentucky 40203-1911  
502-540-6000  
[www.msdlouky.org](http://www.msdlouky.org)

November 26, 2007

Ms. Kathy Thurman  
Kentucky Division of Water  
14 Reilly Road  
Frankfort, Kentucky 40601

RE: Cedar Creek Treatment Plant, KPDES No: KY0098540  
Discharge Monitoring Report  
October 2007

Dear Ms. Thurman:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operating Report (MOR) report for the Cedar Creek Wastewater Treatment Plant, for the month of October 2007. If you have any questions concerning the attached DMR's, please contact me at (502) 239-7695).

Sincerely,

James E. Porter Jr.  
Process Supervisor Central Region

JEP/Cedar Creek 1007.doc

Enclosures

cc: C. Roth (DOW Louisville)  
P. Burgin  
E. Brady  
T. Singleton  
R. Shaw



Beneficial Use of Louisville's Biosolids  
[www.louisvillegreen.com](http://www.louisvillegreen.com)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME HSO CEDAR CREEK STP  
ADDRESS 8405 CEDAR CREEK RD  
LOUISVILLE KY 40291

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER KY00078540  
DISCHARGE NUMBER 001 2

MAJOR (SUBR LV)  
F - FINAL

Form Approved.  
OMB No. 2040-0004

JEFF

FACILITY HSO CEDAR CREEK STP  
LOCATION LOUISVILLE KY

| MONITORING PERIOD |    |     |    |      |    |     |
|-------------------|----|-----|----|------|----|-----|
| YEAR              | MO | DAY |    | YEAR | MO | DAY |
| 07                | 10 | 01  | TO | 07   | 10 | 31  |

NEW EXPANSION  
EFFLUENT

\*\*\* NO DISCHARGE 1 1 \*\*\*

NOTE: Read Instructions before completing this form.

| PARAMETER                                 | X                  | QUANTITY OR LOADING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |        | QUALITY OR CONCENTRATION |         |              |        | NO. EX | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|-------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|--------------------------|---------|--------------|--------|--------|-----------------------|-------------|
|                                           |                    | AVERAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MAXIMUM  | UNITS  | MINIMUM                  | AVERAGE | MAXIMUM      | UNITS  |        |                       |             |
| WYOM. DISSOLVED (DO)                      | SAMPLE MEASUREMENT | *****                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | *****    |        | 8.2                      | *****   | *****        | ( 17 ) | 0      | 3/1                   | GLASS       |
| WYOM. DISSOLVED (DO)                      | PERMIT REQUIREMENT | *****                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | *****    | ****   | 7.0                      | *****   | *****        | MG/L   |        | THREE/GRAB            |             |
| EFFLUENT GROSS VALUE                      |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          | ****   | INST MIN                 |         |              |        |        | WEEK                  |             |
| WYOM. DISSOLVED (DO)                      | SAMPLE MEASUREMENT | *****                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | *****    |        | 7.1                      | *****   | 7.4          | ( 12 ) | 0      | 3/1                   | GLASS       |
| WYOM. DISSOLVED (DO)                      | PERMIT REQUIREMENT | *****                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | *****    | ****   | 6.0                      | *****   | 9.0          | MG/L   |        | THREE/GRAB            |             |
| EFFLUENT GROSS VALUE                      |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          | ****   | MINIMUM                  |         | MAXIMUM      |        |        | WEEK                  |             |
| SOLIDS, TOTAL SUSPENDED                   | SAMPLE MEASUREMENT | 5131.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 9577.9   | ( 26 ) | *****                    | 151     | 171          | ( 17 ) | 0      | 3/1                   | COMB        |
| SOLIDS, TOTAL SUSPENDED                   | PERMIT REQUIREMENT | REPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | REPORT   |        | *****                    | REPORT  | REPORT       | MG/L   |        | THREE/COMPOS          |             |
| RAW SEW/INFLUENT                          |                    | MO AVG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MX WK AV | LB/DY  |                          | MO AVG  | MX WK AV     |        |        | WEEK                  |             |
| SOLIDS, TOTAL SUSPENDED                   | SAMPLE MEASUREMENT | 75.36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 237.11   | ( 26 ) | *****                    | 1       | 2            | ( 17 ) | 0      | 3/1                   | COMB        |
| SOLIDS, TOTAL SUSPENDED                   | PERMIT REQUIREMENT | 1875                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2815     |        | *****                    | 30      | 45           | MG/L   |        | THREE/COMPOS          |             |
| EFFLUENT GROSS VALUE                      |                    | MO AVG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MX WK AV | LB/DY  |                          | MO AVG  | MX WK AV     |        |        | WEEK                  |             |
| NITROGEN, AMMONIA TOTAL (AS N)            | SAMPLE MEASUREMENT | 609.47                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 753.66   | ( 26 ) | *****                    | 22.7    | 28.9         | ( 17 ) | 0      | 3/1                   | COMB        |
| NITROGEN, AMMONIA TOTAL (AS N)            | PERMIT REQUIREMENT | REPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | REPORT   |        | *****                    | REPORT  | REPORT       | MG/L   |        | THREE/COMPOS          |             |
| RAW SEW/INFLUENT                          |                    | MO AVG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MX WK AV | LB/DY  |                          | MO AVG  | MX WK AV     |        |        | WEEK                  |             |
| NITROGEN, AMMONIA TOTAL (AS N)            | SAMPLE MEASUREMENT | 9.72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 17.97    | ( 26 ) | *****                    | 0.36    | 0.61         | ( 17 ) | 0      | 3/1                   | COMB        |
| NITROGEN, AMMONIA TOTAL (AS N)            | PERMIT REQUIREMENT | 250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 375      |        | *****                    | 4       | 6            | MG/L   |        | THREE/COMPOS          |             |
| EFFLUENT GROSS VALUE                      |                    | MO AVG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MX WK AV | LB/DY  |                          | MO AVG  | MX WK AV     |        |        | WEEK                  |             |
| PHOSPHORUS, TOTAL (AS P)                  | SAMPLE MEASUREMENT | 29.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 65.36    | ( 26 ) | *****                    | 0.79    | 1.01         | ( 17 ) | 0      | 3/1                   | COMB        |
| PHOSPHORUS, TOTAL (AS P)                  | PERMIT REQUIREMENT | 63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 94       |        | *****                    | 1.0     | 1.5          | MG/L   |        | THREE/COMPOS          |             |
| EFFLUENT GROSS VALUE                      |                    | MO AVG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MX WK AV | LB/DY  |                          | MO AVG  | MX WK AV     |        |        | WEEK                  |             |
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER    |                    | I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. |          |        |                          |         | TELEPHONE    |        | DATE   |                       |             |
| H. J. SCHARDEIN JR.<br>EXECUTIVE DIRECTOR |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |        |                          |         | 505 540-6000 |        | 07     | 11                    | 21          |
| TYPED OR PRINTED                          |                    | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |        |                          |         | AREA CODE    | NUMBER | YEAR   | MO                    | DAY         |

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PAGE 1 OF 1

NAME OF TREATMENT PLANT CEDAR CREEK WTPCOUNTY JEFFERSONMONTH OF: October 2007KPDES PERMIT NUMBER KY0098540PLANT CAPACITY 7.5 MGDRECEIVING STREAM CEDAR CREEK

| DATE | TOTAL FLOW<br>(MILLION GALLONS) | RAW SEWAGE                   |                            | pH  |       | SETTLEABLE 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<br>(CUBIC FEET) | SCREENINGS<br>(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-ED         | 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) |
|      |                                 |                              |                            |     |       |                          |                  |                         |              |                         |              |                   |                  |                  |     |                  |                | 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    | 2.24                            |                              |                            |     |       |                          |                  |                         |              |                         | 169          |                   | 1                | 124              |     |                  | 2              | 2012           | 4400        | 520            | 3.6             | 2690                    | 4400               | 370                 | 320                   |         |                |              |                   |              |                   | 0.10                     | 3            |                                 |
| 2    | 2.36                            |                              |                            | 7.2 | 7.3   |                          |                  |                         | 8.2          |                         | 177          |                   | 1                | 141              |     |                  | 2              | 2086           | 4710        | 480            | 3.2             | 2660                    | 4710               | 360                 | 320                   |         | 1.8            | 82           |                   |              |                   | 0.28                     | 3            |                                 |
| 3    | 4.65                            |                              |                            | 7.1 | 7.4   |                          |                  |                         | 8.4          |                         | 164          |                   | 1                | 116              |     |                  | 2              | 2021           | 4300        | 520            | 3.6             | 2675                    | 4300               | 300                 | 270                   |         |                |              |                   |              |                   | 1.20                     | 3            |                                 |
| 4    | 2.00                            | 3                            | 3                          | 7.4 | 7.3   |                          |                  |                         | 8.2          |                         |              |                   |                  |                  |     |                  |                | 2131           | 4960        | 490            | 3.4             | 2555                    | 4960               | 320                 | 280                   |         |                |              |                   |              |                   |                          |              |                                 |
| 5    | 2.23                            |                              |                            |     |       |                          |                  |                         |              |                         |              |                   |                  |                  |     |                  |                | 2253           | 5150        | 500            | 3.8             | 2640                    | 5150               | 340                 | 300                   |         |                |              |                   |              |                   |                          |              |                                 |
| 6    | 2.48                            |                              |                            |     |       |                          |                  |                         |              |                         |              |                   |                  |                  |     |                  |                | 2266           |             | 510            | 3.4             |                         |                    | 320                 | 290                   |         |                |              |                   |              |                   |                          |              |                                 |
| 7    | 2.81                            |                              |                            |     |       |                          |                  |                         |              |                         |              |                   |                  |                  |     |                  |                | 2234           |             | 493            | 3.6             |                         |                    | 330                 | 300                   |         |                |              |                   |              |                   |                          |              |                                 |
| 8    | 2.30                            |                              |                            |     |       |                          |                  |                         |              |                         | 174          |                   | 1                | 106              |     |                  | 2              | 2205           | 3830        | 570            | 3.4             | 3360                    | 3830               | 450                 | 350                   |         |                |              |                   |              |                   | 0.45                     | 3            |                                 |
| 9    | 2.42                            |                              |                            | 7.2 | 7.3   |                          |                  |                         | 8.6          |                         | 180          |                   | 1                | 110              |     |                  | 2              | 2039           | 4230        | 520            | 3.6             | 2820                    | 4230               | 360                 | 300                   |         | 1.4            | 78           |                   |              |                   | 0.10                     | 3            |                                 |
| 10   | 2.37                            |                              |                            | 7.4 | 7.2   |                          |                  |                         | 8.8          |                         | 157          |                   | 1                | 119              |     |                  | 2              | 2155           | 4660        | 500            | 3.6             | 2800                    | 4660               | 380                 | 310                   |         |                |              |                   |              |                   | 1.28                     | 3            |                                 |
| 11   | 1.58                            | 3                            | 3                          | 7.2 | 7.4   |                          |                  |                         | 8.4          |                         |              |                   |                  |                  |     |                  |                | 1993           | 3970        | 420            | 3               | 2590                    | 3970               | 370                 | 300                   |         |                |              |                   |              |                   |                          |              |                                 |
| 12   | 1.96                            |                              |                            |     |       |                          |                  |                         |              |                         |              |                   |                  |                  |     |                  |                | 2163           | 4060        | 500            | 2.8             | 2540                    | 4060               | 300                 | 300                   |         |                |              |                   |              |                   |                          |              |                                 |
| 13   | 1.71                            |                              |                            |     |       |                          |                  |                         |              |                         |              |                   |                  |                  |     |                  |                | 1480           |             | 470            |                 |                         |                    | 330                 | 310                   |         |                |              |                   |              |                   |                          |              |                                 |
| 14   | 2.75                            |                              |                            |     |       |                          |                  |                         |              |                         |              |                   |                  |                  |     |                  |                | 1480           |             | 485            |                 |                         |                    | 320                 | 310                   |         |                |              |                   |              |                   |                          |              |                                 |
| 15   | 2.23                            |                              |                            |     |       |                          |                  |                         |              |                         | 176          |                   | 1                | 146              |     |                  | 2              | 2049           | 3960        | 450            | 3.8             | 2540                    | 3960               | 320                 | 270                   |         |                |              |                   |              |                   | 0.45                     | 3            |                                 |
| 16   | 1.38                            |                              |                            | 7.4 | 7.2   |                          |                  |                         | 8.8          |                         | 164          |                   | 1                | 107              |     |                  | 2              | 1976           | 3390        | 480            | 3.6             | 2670                    | 3390               | 300                 | 280                   |         | 1.4            | 80           |                   |              |                   | 0.10                     | 3            |                                 |
| 17   | 3.19                            |                              |                            | 7.3 | 7.3   |                          |                  |                         | 8.6          |                         | 173          |                   | 1                | 108              |     |                  | 2              | 2189           | 4620        | 500            | 3               | 2540                    | 4620               | 320                 | 290                   |         |                |              |                   |              |                   | 0.10                     | 3            |                                 |
| 18   | 4.25                            | 3                            | 3                          | 7.2 | 7.4   |                          |                  |                         | 8.4          |                         |              |                   |                  |                  |     |                  |                | 2198           | 5210        | 500            | 3.2             | 2580                    | 5210               | 300                 | 300                   |         |                |              |                   |              |                   |                          |              |                                 |
| 19   | 3.56                            |                              |                            |     |       |                          |                  |                         |              |                         |              |                   |                  |                  |     |                  |                | 2186           | 6030        | 400            | 2.8             | 2400                    | 6030               | 330                 | 260                   |         |                |              |                   |              |                   |                          |              |                                 |
| 20   | 3.44                            |                              |                            |     |       |                          |                  |                         |              |                         |              |                   |                  |                  |     |                  |                | 2105           |             | 425            | 2.8             |                         |                    |                     | 280                   |         |                |              |                   |              |                   |                          |              |                                 |
| 21   | 2.71                            |                              |                            |     |       |                          |                  |                         |              |                         |              |                   |                  |                  |     |                  |                | 2121           |             | 636            | 3.1             |                         |                    | 200                 | 290                   |         |                |              |                   |              |                   |                          |              |                                 |
| 22   | 9.67                            |                              |                            |     |       |                          |                  |                         |              |                         |              |                   |                  |                  |     |                  |                | 2108           | 4530        | 450            | 3.4             | 2665                    | 4530               |                     | 300                   |         |                |              |                   |              |                   |                          |              |                                 |
| 23   | 17.39                           |                              |                            |     |       |                          |                  |                         |              |                         | 109          |                   | 4                | 32               |     |                  | 2              | 2333           |             | 460            |                 |                         |                    | 320                 |                       |         | 1.6            | 82           |                   |              |                   | 0.01                     | 14           |                                 |
| 24   | 11.59                           |                              |                            | 7.1 | 7.3   |                          |                  |                         | 8.8          |                         | 113          |                   | 1                | 42               |     |                  | 2              | 5253           | 6310        | 450            |                 | 1830                    | 6310               | 300                 |                       |         |                |              |                   |              |                   | 0.10                     | 3            |                                 |
| 25   | 4.41                            | 3                            | 3                          | 7.2 | 7.1   |                          |                  |                         | 8.8          |                         | 58           |                   | 1                | 82               |     |                  | 2              | 5565           |             | 450            |                 |                         |                    | 290                 | 260                   |         |                |              |                   |              |                   | 0.10                     | 3            |                                 |
| 26   | 4.41                            |                              |                            | 7.3 | 7.1   |                          |                  |                         | 8.9          |                         |              |                   |                  |                  |     |                  |                | 4808           | 6010        | 580            | 3.9             | 2830                    | 6010               | 340                 | 270                   |         |                |              |                   |              |                   |                          |              |                                 |
| 27   | 4.97                            |                              |                            |     |       |                          |                  |                         |              |                         |              |                   |                  |                  |     |                  |                | 4002           |             | 540            |                 |                         |                    | 330                 | 250                   |         |                |              |                   |              |                   |                          |              |                                 |
| 28   | 3.48                            |                              |                            |     |       |                          |                  |                         |              |                         |              |                   |                  |                  |     |                  |                | 3623           |             | 431            |                 |                         |                    | 330                 | 300                   |         |                |              |                   |              |                   |                          |              |                                 |
| 29   | 4.07                            |                              |                            |     |       |                          |                  |                         |              |                         |              |                   |                  |                  |     |                  |                | 3886           | 4820        | 580            | 3.6             | 2665                    | 4820               | 330                 | 300                   |         |                |              |                   |              |                   |                          |              |                                 |
| 30   | 1.91                            |                              |                            |     |       |                          |                  |                         |              |                         |              |                   |                  |                  |     |                  |                | 2580           | 7270        | 400            | 3.8             | 2550                    | 7270               | 330                 | 310                   |         |                |              |                   |              |                   |                          |              |                                 |
| 31   | 2.14                            |                              |                            |     |       |                          |                  |                         |              |                         |              |                   |                  |                  |     |                  |                | 1671           | 6260        | 450            | 3.6             | 2525                    | 6260               | 330                 | 310                   |         |                |              |                   |              |                   |                          |              |                                 |
| Tot. | #####                           | 12                           | 12                         |     |       |                          |                  |                         |              |                         |              |                   |                  |                  |     |                  |                | 79171          |             |                |                 |                         |                    |                     |                       |         |                |              |                   |              |                   |                          |              |                                 |
| Avg. | 3.83                            | 3                            | 3                          | 7.3 | 7.3   |                          |                  |                         | 8.6          |                         | 151          |                   | 1                | 103              |     |                  | 2              | 2554           | 4890        | 489            | 3.4             | 2625                    | 4890               | 328.3               | 294.1                 |         | 1.55           | 80.5         |                   |              |                   | 0.36                     | 3            |                                 |

RESIDENTIAL  
COMMERCIAL  
INDUSTRIALINDUSTRIAL WASTE POPULATION EQUIVALENT  
36455  
FLOW

19295

CBOD

22980

TSS

OPERATOR

CERT. NO.

TOTAL NUMBER OF SEWER CONNECTIONS

0

SEWER CONNECTIONS

0

X

4

=

0

SEWERED POPULATION

PLANT TELEPHONE