



**Metropolitan Sewer District**

*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)*

September 21, 2010

Carolena Bentley, DMR Coordinator  
Kentucky Division of Water  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, Kentucky 40601

RE: Jeffersontown WQTC, KPDES No: KY0025194  
Discharge Monitoring Report  
August 2010

Dear Ms. Bentley:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operating Report (MOR) for the Jeffersontown WQTC KPDES No.: KY0025194 for the month of August 2010.

Also attached is a bypass letter and overflow report.

There were no exceedences.

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

Sincerely,

Duane V. Wright  
Process Supervisor Central Region

DVW/Jeffersontown 08.10.doc

Enclosures

cc: C. Roth (DOW Louisville)  
R. Shaw  
T. Singleton



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

KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM (KPDES)  
DISCHARGE MONITORING REPORT (DMR)

NAME JEFFERSONTOWN WQTC MSD  
ADDRESS C/O CEDAR CREEK WQTC  
8405 CEDAR CREEK RD  
LOUISVILLE KY 40211  
FACILITY JEFFERSONTOWN WQTC

KY0025194  
PERMIT NUMBER

0012  
DISCHARGE NUMBER

MAJOR  
(SUBR LV)  
F - FINAL JEFFE  
FLOW BOD TSS DO PH  
EFFLUENT  
[ ] No Discharge

LOCATION LOUISVILLE KY 40299

ATTN: DENNIS THOMASSON SR. METRO OPS

MONITORING PERIOD  
FROM YEAR MO DAY TO YEAR MO DAY  
10 08 01 10 08 31

NOTE: Read instructions before completing this form

| PARAMETER                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | QUANTITY OR LOADING |                 |             | QUALITY OR CONCENTRATION |               |                 |           | NO EX | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------|-------------|--------------------------|---------------|-----------------|-----------|-------|-----------------------|-------------|
|                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | AVERAGE             | MAXIMUM         | UNITS       | MINIMUM                  | AVERAGE       | MAXIMUM         | UNITS     |       |                       |             |
| OXYGEN, DISSOLVED (DO)                                                     | SAMPLE MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | *****               | *****           | ***         | 8                        | *****         | *****           | (19) MG/L | 0     | 1/1                   | GR          |
| 00300 1 0 0                                                                | PERMIT MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | *****               | *****           | ***         | 7                        | *****         | *****           | (19) MG/L |       | THREE/ WEEK           | GRAB        |
| EFFLUENT GROSS VALUE                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |                 |             | INST MIN                 |               |                 |           |       |                       |             |
| PH                                                                         | SAMPLE MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | *****               | *****           | ***         | 6.2                      | *****         | 7.3             | (12) SU   | 0     | 1/1                   | GR          |
| 00400 1 0 0                                                                | PERMIT MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | *****               | *****           | ***         | 6.0                      | *****         | 9.0             | (12) SU   |       | THREE/ WEEK           | GRAB        |
| EFFLUENT GROSS VALUE                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |                 |             | MINIMUM                  |               | MAXIMUM         |           |       |                       |             |
| SOLIDS, TOTAL SUSPENDED                                                    | SAMPLE MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2816                | 3400            | (26) LBS/DY | *****                    | 117           | 149             | (19) MG/L | 0     | 1/1                   | CP          |
| 00530 G 0 0                                                                | PERMIT MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | REPORT MO AVG       | REPORT MX WK AV | (26) LBS/DY | *****                    | REPORT MO AVG | REPORT MX WK AV | (19) MG/L |       | THREE/ WEEK           | COMPOS      |
| RAW SEW/INFLUENT                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |                 |             |                          |               |                 |           |       |                       |             |
| SOLIDS, TOTAL SUSPENDED                                                    | SAMPLE MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 136                 | 183             | (26) LBS/DY | *****                    | 5             | 8               | (19) MG/L | 0     | 1/1                   | CP          |
| 00530 1 0 0                                                                | PERMIT MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1000 MO AVG         | 1501 MX WK AV   | (26) LBS/DY | *****                    | 30 MO AVG     | 45 MX WK AV     | (19) MG/L |       | THREE/ WEEK           | COMPOS      |
| EFFLUENT GROSS VALUE                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |                 |             |                          |               |                 |           |       |                       |             |
| NITROGEN, AMMONIA TOTAL (AS N)                                             | SAMPLE MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 404                 | 420             | (26) LBS/DY | *****                    | 17            | 18              | (19) MG/L | 0     | 1/1                   | CP          |
| 00610 G 0 0                                                                | PERMIT MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | REPORT MO AVG       | REPORT MX WK AV | (26) LBS/DY | *****                    | REPORT MO AVG | REPORT MX WK AV | (19) MG/L |       | THREE/ WEEK           | COMPOS      |
| RAW SEW/INFLUENT                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |                 |             |                          |               |                 |           |       |                       |             |
| NITROGEN, AMMONIA TOTAL (AS N)                                             | SAMPLE MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 23                  | 23              | (26) LBS/DY | *****                    | 1             | 1               | (19) MG/L | 0     | 1/1                   | CP          |
| 00610 1 1 0                                                                | PERMIT MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 133 MO AVG          | 200 MX WK AV    | (26) LBS/DY | *****                    | 4 MO AVG      | 6 MX WK AV      | (19) MG/L |       | THREE/ WEEK           | COMPOS      |
| EFFLUENT GROSS VALUE                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |                 |             |                          |               |                 |           |       |                       |             |
| PHOSPHORUS, TOTAL (AS P)                                                   | SAMPLE MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 15                  | 17              | (26) LBS/DY | *****                    | 0.6           | 0.7             | (19) MG/L | 0     | 1/1                   | CP          |
| 00665 1 1 1                                                                | PERMIT MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 33 MO AVG           | 50 MX WK AV     | (26) LBS/DY | *****                    | 1.0 MO AVG    | 1.5 MX WK AV    | (19) MG/L |       | THREE/ WEEK           | COMPOS      |
| EFFLUENT GROSS VALUE                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |                 |             |                          |               |                 |           |       |                       |             |
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER                                     | I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. 1001 AND 33 U.S.C. 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.) |                     |                 |             |                          |               |                 |           |       |                       |             |
| H J SCHARDEIN<br>EXECUTIVE DIRECTOR                                        | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |                 |             | TELEPHONE                |               | DATE            |           |       |                       |             |
| TYPED OR PRINTED                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |                 |             | 502 540-6000             |               | 10 09 21        |           |       |                       |             |
| COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |                 |             | AREA CODE NUMBER         |               | YEAR MO DAY     |           |       |                       |             |
| USE MO AVG FOR BOD/TSS REMV; REPT IN MINIMUM COLUMN.                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |                 |             |                          |               |                 |           |       |                       |             |

## DISCHARGE MONITORING REPORT (DMR)

NAME JEFFERSONTOWN WQTC MSD  
 ADDRESS C/O CEDAR CREEK WQTC  
 8405 CEDAR CREEK RD  
 LOUISVILLE KY 40211  
 FACILITY JEFFERSONTOWN WQTC

LOCATION LOUISVILLE KY 40299

ATTN: DENNIS THOMASSON SR. METRO OPS

KY0025194

PERMIT NUMBER

0012

DISCHARGE NUMBER

## MONITORING PERIOD

FROM YEAR 10 MO 08 DAY 01 TO YEAR 10 MO 08 DAY 31

MAJOR  
 (SUBR LV)  
 F - FINAL JEFFE  
 FLOW BOD TSS DO PH  
 EFFLUENT  
 [ ] No Discharge

NOTE: Read instructions before completing this form

| PARAMETER                                                                          | X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | QUANTITY OR LOADING |                    |                | QUALITY OR CONCENTRATION                                        |                  |                    |               | NO<br>EX | FREQUENCY<br>OF<br>ANALYSIS | SAMPLE<br>TYPE |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------|----------------|-----------------------------------------------------------------|------------------|--------------------|---------------|----------|-----------------------------|----------------|
|                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | AVERAGE             | MAXIMUM            | UNITS          | MINIMUM                                                         | AVERAGE          | MAXIMUM            | UNITS         |          |                             |                |
| FLOW, IN CONDUIT OR<br>THRU TREATMENT PLANT<br>50050 1 0 0<br>EFFLUENT GROSS VALUE | SAMPLE<br>MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2.96                | 3.42               | (03)<br>MGD    | *****                                                           | *****            | *****              | ***           | 0        | CN                          | CN             |
|                                                                                    | PERMIT<br>MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | REPORT<br>MO AVG    | REPORT<br>MX WK AV | (03)<br>MGD    | *****                                                           | *****            | *****              | ***           |          | CONTIN<br>UOUS              | CONTIN         |
| COLIFORM, FECAL<br>GENERAL<br>74055 1 0 0<br>EFFLUENT GROSS VALUE                  | SAMPLE<br>MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | *****               | *****              | ***            | *****                                                           | 5                | 7                  | (13)<br>100ML | 0        | 1/1                         | GR             |
|                                                                                    | PERMIT<br>MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | *****               | *****              | ***            | *****                                                           | 200<br>30DA GEO  | 400<br>7 DA GEO    | (13)<br>100ML |          | THREE/<br>WEEK              | GRAB           |
| BOD, CARBONACEOUS<br>05 DAY, 20C<br>80082 G 0 0<br>RAW SEW/INFLUENT                | SAMPLE<br>MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2738                | 3509               | (26)<br>LBS/DY | *****                                                           | 117              | 155                | (19)<br>MG/L  | 0        | 1/1                         | CP             |
|                                                                                    | PERMIT<br>MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | REPORT<br>MO AVG    | REPORT<br>MX WK AV | (26)<br>LBS/DY | *****                                                           | REPORT<br>MO AVG | REPORT<br>MX WK AV | (19)<br>MG/L  |          | THREE/<br>WEEK              | COMPOS         |
| BOD, CARBONACEOUS<br>05 DAY, 20C<br>80082 1 0 0<br>EFFLUENT GROSS VALUE            | SAMPLE<br>MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 52                  | 60                 | (26)<br>LBS/DY | *****                                                           | 2                | 2                  | (19)<br>MG/L  | 0        | 1/1                         | CP             |
|                                                                                    | PERMIT<br>MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 667<br>MO AVG       | 1001<br>MX WK AV   | (26)<br>LBS/DY | *****                                                           | 20<br>MO AVG     | 30<br>MX WK AV     | (19)<br>MG/L  |          | THREE/<br>WEEK              | COMPOS         |
| BOD, CARB 5-DAY, 20<br>DEG C, PERCENT REMVL<br>80091 K 0 0<br>PERCENTREMOVAL       | SAMPLE<br>MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | *****               | *****              | ***            | 98                                                              | *****            | *****              | (23)<br>CENT  | 0        | 1/31                        | CA             |
|                                                                                    | PERMIT<br>MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | *****               | *****              | ***            | 85<br>MO AVG                                                    | *****            | *****              | (23)<br>CENT  |          | ONCE/<br>MONTH              | CALCTD         |
| SOLIDS, SUSPENDED<br>PERCENT REMOVAL<br>81011 K 0 0<br>PERCENTREMOVAL              | SAMPLE<br>MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | *****               | *****              | ***            | 95                                                              | *****            | *****              | (23)<br>CENT  | 0        | 1/31                        | CA             |
|                                                                                    | PERMIT<br>MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | *****               | *****              | ***            | 85<br>MO MIN                                                    | *****            | *****              | (23)<br>CENT  |          | ONCE/<br>MONTH              | CALCTD         |
|                                                                                    | SAMPLE<br>MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |                    |                |                                                                 |                  |                    |               |          |                             |                |
|                                                                                    | PERMIT<br>MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |                    |                |                                                                 |                  |                    |               |          |                             |                |
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER                                             | I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION<br>SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING<br>THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT<br>THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE<br>AND IMPRISONMENT. SEE 18 U.S.C. 1001 AND 33 U.S.C. 1319. (Penalties under these statutes may include fines up to \$10,000<br>and/or maximum imprisonment of between 6 months and 5 years. |                     |                    |                |                                                                 | TELEPHONE        |                    | DATE          |          |                             |                |
| H J SCHARDEIN<br>EXECUTIVE DIRECTOR                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                    |                |                                                                 | 502              | 540-6000           | 10            | 09       | 21                          |                |
| TYPED OR PRINTED                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                    |                |                                                                 | AREA<br>CODE     | NUMBER             | YEAR          | MO       | DAY                         |                |
| COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                    |                | SIGNATURE OF PRINCIPAL EXECUTIVE<br>OFFICER OR AUTHORIZED AGENT |                  |                    |               |          |                             |                |
| USE MO AVG FOR BOD/TSS REMV; REPT IN MINIMUM COLUMN.                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                    |                |                                                                 |                  |                    |               |          |                             |                |

NAME OF TREATMENT PLANT JEFFERSON TOWN WTP  
 KPDES PERMIT NUMBER KY0025194

COUNTY JEFFERSON  
 PLANT CAPACITY 4.0 MGD

MONTH OF: August 2010  
 RECEIVING STREAM CHENOWETH RUN

| 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            |                | WASTED<br>MLVSS<br>X 1000 | DISSOLVED OXYGEN (mg/L) | MLSS (mg/L)<br>X 1000 | MLVSS (mg/L)<br>X 1000 | SETTLED SLUDGE VOLUME |         | RAW               |              |                   | HAULED       |                   |                                | TOTAL PHOS.<br>(mg/L) | NH3-N (mg/L) | FECAL COLIFORM<br>(COLONIES/100ML) |
|      |                                 |                              |                            |     |       |                          |                  |                         |              |                         |              |                   |                  |                  |     |                  |                | GAL/DAY<br>X 1000 | MLSS<br>X 1000 |                           |                         |                       |                        | 30 MIN.               | 60 MIN. | GALLONS<br>X 1000 | % DRY SOLIDS | % VOLATILE SOLIDS | % DRY SOLIDS | % VOLATILE SOLIDS | WITHDRAWN<br>GALLONS<br>X 1000 |                       |              |                                    |
|      |                                 |                              |                            |     |       |                          |                  |                         |              |                         |              |                   |                  |                  |     |                  |                |                   |                |                           |                         |                       |                        |                       |         |                   |              |                   |              |                   |                                |                       |              |                                    |
| 1    | 3.35                            |                              |                            | 6.3 | 6.2   | 7.0                      |                  |                         | 8.4          |                         | 175          |                   | 4                | 120              |     | 2                | 1.736          | 3.75              | 33             | 6.3                       | 2.47                    | 1.72                  | 130                    | 120                   |         |                   |              |                   |              |                   | 0.49                           | 0.95                  | 4            |                                    |
| 2    | 3.05                            |                              |                            | 6.7 | 6.5   | 15.0                     |                  |                         | 8.1          |                         | 186          |                   | 3                | 185              |     | 2                | 2.12           | 4.44              | 26             | 4.1                       | 1.59                    | 1.27                  | 150                    | 140                   |         |                   |              |                   |              |                   | 0.51                           | 0.95                  | 4            |                                    |
| 3    | 2.88                            |                              |                            | 6.4 | 6.5   | 12.0                     |                  |                         | 8.2          |                         | 194          |                   | 4                | 234              |     | 2                | 1.749          | 4.49              | 31             | 5.6                       | 2.24                    | 1.74                  | 140                    | 130                   |         |                   |              |                   |              |                   | 0.52                           | 1.30                  | 4            |                                    |
| 4    | 2.73                            | 3                            | 3                          | 6.4 | 6.7   | 13.0                     |                  |                         | 7.7          |                         | 112          |                   | 3                | 94               |     | 2                | 1.746          | 4.595             | 27             | 5.1                       | 2.03                    | 1.41                  | 140                    | 130                   |         |                   |              |                   |              |                   | 0.51                           | 0.95                  | 4            |                                    |
| 5    | 2.92                            |                              |                            | 6.4 | 6.7   | 8.0                      |                  |                         | 8.0          |                         | 127          |                   | 2                | 141              |     | 2                | 1.63           | 3.98              | 37             | 6.1                       | 2.25                    | 1.75                  | 150                    | 140                   |         |                   |              |                   |              |                   | 0.52                           | 0.73                  | 4            |                                    |
| 6    | 2.71                            |                              |                            | 6.5 | 6.5   | 20.0                     |                  |                         | 8.0          |                         | 71           |                   | 5                | 80               |     | 2                | 1.549          | 4.26              | 34             | 6.2                       | 2.54                    | 1.75                  | 150                    | 140                   |         |                   |              |                   |              |                   | 0.59                           | 1.00                  | 140          |                                    |
| 7    | 2.56                            |                              |                            | 7.0 | 6.4   | 9.0                      |                  |                         | 8.1          |                         | 100          |                   | 2                | 73               |     | 2                | 1.557          | 4.36              | 35             | 6.1                       | 2.72                    | 1.94                  | 140                    | 140                   |         |                   |              |                   |              |                   | 0.46                           | 0.56                  | 4            |                                    |
| 8    | 2.41                            |                              |                            | 6.5 | 6.8   | 8.0                      |                  |                         | 8.1          |                         | 52           |                   | 4                | 86               |     | 2                | 1.555          | 4.2               | 31             | 6.6                       | 2.4                     | 1.84                  | 150                    | 150                   |         |                   |              |                   |              |                   | 0.57                           | 1.10                  | 4            |                                    |
| 9    | 2.46                            |                              |                            | 7.0 | 6.5   | 5.0                      |                  |                         | 8.0          |                         | 73           |                   | 4                | 164              |     | 2                | 1.555          | 4.25              | 28             | 6.3                       | 2.28                    | 1.62                  | 150                    | 150                   |         |                   |              |                   |              |                   | 0.64                           | 0.78                  | 4            |                                    |
| 10   | 2.47                            |                              |                            | 6.5 | 6.4   | 4.0                      |                  |                         | 7.9          |                         | 101          |                   | 4                | 142              |     | 2                | 1.565          | 3.675             | 35             | 6                         | 2.55                    | 1.85                  | 150                    | 140                   |         |                   |              |                   |              |                   | 0.67                           | 0.90                  | 4            |                                    |
| 11   | 2.54                            | 3                            | 3                          | 6.2 | 6.3   | 3.0                      |                  |                         | 7.8          |                         | 95           |                   | 3                | 98               |     | 2                | 1.55           | 4.69              | 35             | 6.1                       | 2.33                    | 1.69                  | 150                    | 140                   |         |                   |              |                   |              |                   | 0.65                           | 0.95                  | 4            |                                    |
| 12   | 2.51                            |                              |                            | 6.5 | 6.8   | 3.0                      |                  |                         | 7.9          |                         | 151          |                   | 2                | 110              |     | 2                | 1.54           | 4.175             | 35             | 6.1                       | 2.3                     | 1.66                  | 150                    | 140                   |         |                   |              |                   |              |                   | 0.73                           | 1.10                  | 4            |                                    |
| 13   | 3.20                            |                              |                            | 6.4 | 6.8   | 11.0                     |                  |                         | 8.1          |                         | 77           |                   | 8                | 61               |     | 2                | 1.545          | 4.485             | 41             | 5.9                       | 2.52                    | 1.73                  | 150                    | 150                   |         |                   |              |                   |              |                   | 0.63                           | 1.10                  | 4            |                                    |
| 14   | 5.22                            |                              |                            | 6.3 | 6.5   | 5.0                      |                  |                         | 7.6          |                         | 43           |                   | 12               | 18               |     | 3                | 1.53           | 5.815             | 36             | 5.7                       | 2.43                    | 1.82                  | 150                    | 150                   |         |                   |              |                   |              |                   | 0.72                           | 0.67                  | 3            |                                    |
| 15   | 4.78                            |                              |                            | 6.3 | 6.6   | 3.0                      |                  |                         | 7.8          |                         | 38           |                   | 2                | 37               |     | 2                | 1.526          | 6.765             | 35             | 5.6                       | 2.07                    | 1.53                  | 150                    | 130                   |         |                   |              |                   |              |                   | 0.43                           | 0.06                  | 3            |                                    |
| 16   | 3.57                            |                              |                            | 6.3 | 6.9   | 2.0                      |                  |                         | 8.3          |                         | 121          |                   | 3                | 69               |     | 2                | 1.53           | 5.275             | 38             | 6.1                       | 2.29                    | 1.96                  | 150                    | 130                   |         |                   |              |                   |              |                   | 0.51                           | 0.78                  | 4            |                                    |
| 17   | 3.14                            |                              |                            | 6.4 | 6.6   | 10.0                     |                  |                         | 8.1          |                         | 114          |                   | 6                | 111              |     | 2                | 1.53           | 6.245             | 34             | 6.2                       | 2.39                    | 1.72                  | 140                    | 140                   |         |                   |              |                   |              |                   | 0.58                           | 0.84                  | 4            |                                    |
| 18   | 2.96                            | 3                            | 3                          | 6.5 | 6.6   | 6.0                      |                  |                         | 8.1          |                         | 155          |                   | 4                | 88               |     | 2                | 1.53           | 5.07              | 38             | 6.3                       | 2.46                    | 1.84                  | 140                    | 130                   |         |                   |              |                   |              |                   | 0.63                           | 1.00                  | 4            |                                    |
| 19   | 2.81                            |                              |                            | 6.4 | 6.7   | 5.0                      |                  |                         | 8.0          |                         | 82           |                   | 6                | 88               |     | 2                | 1.54           | 4.8               | 33             | 6.1                       | 1.96                    | 1.68                  | 130                    | 120                   |         |                   |              |                   |              |                   | 0.77                           | 0.84                  | 4            |                                    |
| 20   | 2.67                            |                              |                            | 6.9 | 6.4   | 8.0                      |                  |                         | 8.0          |                         | 118          |                   | 8                | 90               |     | 3                | 1.54           | 6.125             | 33             | 6.2                       | 2.38                    | 1.8                   | 120                    | 120                   |         |                   |              |                   |              |                   | 0.72                           | 1.40                  | 24           |                                    |
| 21   | 4.01                            |                              |                            | 6.6 | 6.5   | 6.0                      |                  |                         | 8.0          |                         | 117          |                   | 8                | 77               |     | 2                | 1.53           | 4.585             | 32             | 6.1                       | 2.37                    | 1.75                  | 120                    | 120                   |         |                   |              |                   |              |                   | 0.69                           | 0.08                  | 4            |                                    |
| 22   | 3.24                            |                              |                            | 6.4 | 6.4   | 5.0                      |                  |                         | 8.1          |                         | 111          |                   | 6                | 99               |     | 2                | 1.53           | 4.56              | 32             | 6                         | 2.61                    | 1.81                  | 110                    | 100                   |         |                   |              |                   |              |                   | 0.66                           | 0.67                  | 4            |                                    |
| 23   | 2.98                            |                              |                            | 6.5 | 6.4   | 6.0                      |                  |                         | 8.0          |                         | 133          |                   | 4                | 127              |     | 2                | 1.53           | 5.51              | 39             | 5.5                       | 2.5                     | 1.75                  | 120                    | 120                   |         |                   |              |                   |              |                   | 0.58                           | 1.20                  | 7            |                                    |
| 24   | 2.83                            |                              |                            | 6.5 | 6.6   | 5.0                      |                  |                         | 8.2          |                         | 125          |                   | 6                | 159              |     | 2                | 1.53           | 3.86              | 30             | 6.4                       | 2.36                    | 1.62                  | 120                    | 120                   |         |                   |              |                   |              |                   | 0.65                           | 0.73                  | 4            |                                    |
| 25   | 2.69                            | 3                            | 3                          | 6.5 | 6.8   | 5.0                      |                  |                         | 8.1          |                         | 149          |                   | 3                | 144              |     | 2                | 1.52           | 4.08              | 36             | 5.2                       | 2.2                     | 1.51                  | 130                    | 130                   |         |                   |              |                   |              |                   | 0.54                           | 0.84                  | 4            |                                    |
| 26   | 2.57                            |                              |                            | 6.8 | 7.3   | 8.0                      |                  |                         | 8.2          |                         | 160          |                   | 21               | 114              |     | 2                | 1.52           | 5.58              | 23             | 5.3                       | 2.29                    | 1.63                  | 130                    | 120                   |         |                   |              |                   |              |                   | 0.70                           | 0.95                  | 3            |                                    |
| 27   | 2.57                            |                              |                            | 6.8 | 7.0   | 10.0                     |                  |                         | 8.1          |                         | 242          |                   | 12               | 295              |     | 2                | 1.52           | 4.9               | 23             | 6.1                       | 2.44                    | 1.92                  | 140                    | 130                   |         |                   |              |                   |              |                   | 0.60                           | 0.78                  | 4            |                                    |
| 28   | 2.47                            |                              |                            | 6.7 | 6.7   | 6.0                      |                  |                         | 8.1          |                         | 126          |                   | 5                | 145              |     | 2                | 1.52           | 4.625             | 27             | 6.5                       | 2.68                    | 1.95                  | 140                    | 130                   |         |                   |              |                   |              |                   | 0.54                           | 1.20                  | 4            |                                    |
| 29   | 2.50                            |                              |                            | 6.6 | 7.2   | 8.0                      |                  |                         | 7.9          |                         | 57           |                   | 4                | 70               |     | 2                | 1.54           | 4.05              | 28             | 5.6                       | 2.73                    | 1.75                  | 140                    | 130                   |         |                   |              |                   |              |                   | 0.60                           | 3.00                  | 4            |                                    |
| 30   | 2.52                            |                              |                            | 6.6 | 6.9   | 2.0                      |                  |                         | 8.1          |                         | 107          |                   | 4                | 142              |     | 2                | 1.52           | 4.925             | 28             | 6.7                       | 2.54                    | 1.84                  | 120                    | 120                   |         |                   |              |                   |              |                   | 0.73                           | 1.80                  | 17           |                                    |
| 31   | 2.48                            |                              |                            | 6.6 | 6.7   | 6.0                      |                  |                         | 8.0          |                         | 111          |                   | 6                | 155              |     | 2                | 1.53           | 5.075             | 20             | 6.5                       | 2.43                    | 1.71                  | 110                    | 100                   |         |                   |              |                   |              |                   | 0.91                           | 1.40                  | 4            |                                    |
| Tot. | 91.78                           | 12                           | 12                         |     |       |                          |                  |                         |              |                         |              |                   |                  |                  |     |                  | 48.91          |                   |                |                           |                         |                       |                        |                       |         |                   |              |                   |              |                   |                                |                       |              |                                    |
| Avg. | 2.96                            | 3                            | 3                          | 6.5 | 6.6   | 7.2                      |                  |                         | 8.0          |                         | 117          |                   | 5                | 117              |     | 2                | 1.578          | 4.748             | 32.03          | 5.955                     | 2.366                   | 1.728                 | 137.4                  | 130.6                 |         |                   |              |                   |              |                   | 0.62                           | 0.99                  | 5            |                                    |

RESIDENTIAL  
 COMMERCIAL  
 INDUSTRIAL

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

INDUSTRIAL WASTE POPULATION EQUIVALENT  
25197 FLOW  
16943 CBOD  
13742 TSS

Mike Stephenson  
 OPERATOR

9616  
 CERT. NO.

(502)267-9257  
 PLANT TELEPHONE



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)

August 16, 2010

Mr. Charlie Roth, District Supervisor  
KY Division of Water  
Louisville Regional Office  
9116 Leesgate Road  
Louisville, KY 40222-5084

**Re: Bypass (Blending) Report for the Jeffersontown WQTC – KPDES Permit KY0025194**

Dear Mr. Roth:

In accordance with 401 KAR 5:065, MSD is providing this letter as a written report of the bypass (blending) event that occurred at the Jeffersontown Water Quality Treatment Center (WQTC). The bypass started at 06:29 PM on August 14, 2010 and stopped at 10:45 PM on August 14, 2010.

Mitigation activities to minimize the extent and impact of the discharge included maximization of plant peak flow through secondary treatment to minimize the total amount of wastewater that did not receive full secondary treatment prior to blending with secondary effluent before receiving UV disinfection, and then being discharged through the permitted outfall. The cause of the bypass (blending) event was due to significant precipitation in the service area. The bypassed (blended) effluent entered Chenoweth Run at mile point 5.3.

In the table listed below is the total number of gallons of wastewater by calendar day that was bypassed (blended) around the secondary treatment of the Jeffersontown WQTC.

| <u>Date</u>    | <u>Start Time</u> | <u>Stop Time</u> | <u>Total Plant Flow (Vol)</u> | <u>Peak Plant Rate</u> | <u>Total Blended Flow (Vol)</u> |
|----------------|-------------------|------------------|-------------------------------|------------------------|---------------------------------|
| August 14 2010 | 06:29 PM          | 10:45 PM         | 4.42 MG                       | 14.59 MGD              | 0.27 MG                         |
|                |                   |                  |                               |                        |                                 |

Please advise if you have any questions concerning this information. You can contact me on my office telephone at (502)-239-7574, my cell phone at (502)-396-9142 or via email at [wrightd@msdlouky.org](mailto:wrightd@msdlouky.org).

Sincerely,

Duane V. Wright  
Process Supervisor-Operations

cc: Gary Levy, KDEP  
Paula Purifoy, MSD  
eB File





Metropolitan Sewer District

IMSAST0004

Overflow Report

Initiated Aug 01, 2010 12:00 AM thru Aug 31, 2010 11:59 PM

Report Selections: Excluding PPI, CSO, Prob Code: BLEND, Result: WUS, Act Code: DISDW, DISREV, DISSUS

|                                    |                        |                                                 |                           |                     |                                                       |                     |                   |                           |                                       |                      |                  |
|------------------------------------|------------------------|-------------------------------------------------|---------------------------|---------------------|-------------------------------------------------------|---------------------|-------------------|---------------------------|---------------------------------------|----------------------|------------------|
| KPDES #<br>KY0025194               | Facility ID<br>MSD0255 | Water Quality Treatment Center<br>JEFFERSONTOWN |                           |                     | Receiving Stream of Treatment Center<br>CHENOWETH RUN |                     |                   | Region<br>CENT            |                                       |                      |                  |
| <hr/>                              |                        |                                                 |                           |                     |                                                       |                     |                   |                           |                                       |                      |                  |
| Facility Type                      |                        | Facility ID                                     | Facility Address          |                     | If Pump Station, Name of Pump Station:                |                     |                   | Receiving Stream          |                                       | Discharge to         |                  |
| SPL Sewer Treatment Plant          |                        | MSD0255                                         | 10725 OLD TAYLORSVILLE RD |                     |                                                       |                     |                   | CHENOWETH RUN             |                                       | STREAM               |                  |
| <hr/>                              |                        |                                                 |                           |                     |                                                       |                     |                   |                           |                                       |                      |                  |
| <u>Activity Code / Description</u> |                        | <u>WO #</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<br>DISCHARGE    |                        | 1120818                                         | 08/14/10 06:29 PM         | ELDER               | WRIGHT                                                | DOCUMENTED          | 01/14/07          | BLENDING AT JTOWN<br>WQTC | UNAUTHORIZED<br>DISCHARGE -<br>WATERS | 08/14/10 10:45<br>PM |                  |

**Spot Inspections:**

|                                    |                                                                           |
|------------------------------------|---------------------------------------------------------------------------|
| Peak Plant Flow<br>when Blending:  | 14,592,000 GPD                                                            |
| Total Plant Flow<br>when Blending: | 4,426,000 GAL                                                             |
| Discharge Amount                   | 275,497 GAL                                                               |
| Cause:                             | LACK OF SYSTEM CAPACITY - HEAVY RAIN IN AREA                              |
| Clean Up:                          | NO CLEAN UP PERFORMED - PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM |
| Control Zone:                      | PERMANENT SIGN IN PLACE - NO ADDITIONAL CONTROL ZONE SET UP               |
| Impact:                            | NO IMPACT OBSERVED - FACILITY UNDER ELEVATED CREEK LEVEL                  |
| Repair:                            | THIS LOCATION IS SCHEDULED FOR ELIMINATION BY DECEMBER 2015               |

**Notifications:**

|                   |        |                                                                                                                                            |
|-------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 08/14/10 07:34 PM | DISPUB | Permanent signs posted in area<br><a href="http://www.msdlouky.org/projectwin/">http://www.msdlouky.org/projectwin/</a>                    |
| 08/14/10 01:00 PM | DISNOT | Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov                       |
| 08/14/10 01:00 PM | DISSNO | Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov |

Total Facilities Printed: 1

Total Work Orders Printed: 1

9/20/2010

Page 1 of 1

9:46:53 AM