



**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)*

March 24, 2009

Ms. Carolena Bentley  
Kentucky Division of Water  
200 Fair Oaks Lane  
Frankfort, Kentucky 40601

**Re: MSD Metro Operations  
McNeely Lake WTP; KPDES No.: KY0029416  
Discharge Monitoring Reports – February 2009.**

Dear Ms. Bentley:

Attached are the Discharge Monitoring Reports (DMRs) and the Monthly Operating Report (MOR) for the McNeely Lake WTP, KPDES No.: KY0029416 for the month of February 2009.

During the month of February we failed to meet our requirement for TSS daily max. Although we are unable to pinpoint the exact reason, we feel this may have been from young sludge not settling well. An additional sample the next day revealed that we were back in compliance and well below our limits.

If you have any questions concerning the attached DMRs, please contact me at (502)540-6031.

Sincerely,

John Kessel  
Process Supervisor West Operations

JMK/McNeely 0209

Enclosures

cc: T. Singleton  
R. Shaw  
C. Roth



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

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

NAME MCNEELY LAKE SUBD STP MSD

ADDRESS C/O CEDAR CREEK STP

8405 CEDAR CREEK RD

LOUISVILLE

KY 40211

FACILITY MCNEELY LAKE SUBD STP MSD

LOCATION LOUISVILLE KY

ATTN: DENNIS THOMASSON, SR METRO OPS

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

KY0029416

PERMIT NUMBER

001 1

DISCHARGE NUMBER

MINOR

(SUBR LV)

F - FINAL

SANITARY WASTEWATER

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     |        |                       |             |
| OXYGEN, DISSOLVED (DO)                   | SAMPLE MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *****               | *****    |        | 7.0                      | *****                                                        | *****    | ( 19 )    |        |                       |             |
| 00300 1 0 0                              | PERMIT REQUIREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *****               | *****    | ****   | 7                        | *****                                                        | *****    |           |        | WEEKLY GRAB           |             |
| EFFLUENT GROSS VALUE                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                     |          | ****   | INST MIN                 |                                                              |          | MG/L      |        |                       |             |
| PH                                       | SAMPLE MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *****               | *****    |        | 6.2                      | *****                                                        | 6.5      | ( 12 )    |        |                       |             |
| 00400 1 0 0                              | PERMIT REQUIREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *****               | *****    | ****   | 6.0                      | *****                                                        | 9.0      |           |        | WEEKLY GRAB           |             |
| EFFLUENT GROSS VALUE                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                     |          | ****   | MINIMUM                  |                                                              | MAXIMUM  | SU        |        |                       |             |
| SOLIDS, TOTAL SUSPENDED                  | SAMPLE MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 21.0                | 42.0     | ( 26 ) | *****                    | 24.0                                                         | 61.0     | ( 19 )    | 1      |                       |             |
| 00530 1 0 0                              | PERMIT REQUIREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 51                  | 103      |        | *****                    | 30                                                           | 60       |           |        | WEEKLY COMPOS         |             |
| EFFLUENT GROSS VALUE                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 30DA AVG            | DAILY MX | LBS/DY |                          | 30DA AVG                                                     | DAILY MX | MG/L      |        |                       |             |
| NITROGEN, AMMONIA TOTAL (AS N)           | SAMPLE MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2.0                 | 4.0      | ( 26 ) | *****                    | 2.0                                                          | 3.0      | ( 19 )    |        |                       |             |
| 00610 1 2 0                              | PERMIT REQUIREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 17                  | 34       |        | *****                    | 10                                                           | 20       |           |        | WEEKLY COMPOS         |             |
| EFFLUENT GROSS VALUE                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 30DA AVG            | DAILY MX | LBS/DY |                          | 30DA AVG                                                     | DAILY MX | MG/L      |        |                       |             |
| PHOSPHORUS, TOTAL (AS P)                 | SAMPLE MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *****               | *****    |        | *****                    | 2.2                                                          | 4.7      | ( 19 )    |        |                       |             |
| 00665 1 0 0                              | PERMIT REQUIREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *****               | *****    | ****   | *****                    | REPORT                                                       | REPORT   |           |        | ONCE/ COMPOS          |             |
| EFFLUENT GROSS VALUE                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                     |          | ****   |                          | 30DA AVG                                                     | DAILY MX | MG/L      |        | MONTH                 |             |
| FLOW, IN CONDUIT OR THRU TREATMENT PLANT | SAMPLE MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.133               | 0.221    | ( 03 ) | *****                    | *****                                                        | *****    |           |        |                       |             |
| 50050 1 0 0                              | PERMIT REQUIREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | REPORT              | REPORT   |        | *****                    | *****                                                        | *****    | ****      |        | CONTIN CONTIN         |             |
| EFFLUENT GROSS VALUE                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 30DA AVG            | INST MAX | MGD    |                          |                                                              |          | ****      |        | UOUS                  |             |
| CHLORINE, TOTAL RESIDUAL                 | SAMPLE MEASUREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *****               | *****    |        | *****                    | <0.010                                                       | <0.010   | ( 19 )    |        |                       |             |
| 50060 1 0 0                              | PERMIT REQUIREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *****               | *****    | ****   | *****                    | 0.011                                                        | 0.019    |           |        | WEEKLY GRAB           |             |
| EFFLUENT GROSS VALUE                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                     |          | ****   |                          | 30DA AVG                                                     | DAILY MX | MG/L      |        |                       |             |
| 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      |        |                       |             |
| TYPED OR PRINTED                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                     |          |        |                          | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT |          | AREA CODE | NUMBER | YEAR                  | MO          |

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

TSS daily mx Exceedance, please See Cover letter

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

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DISCHARGE MONITORING REPORT (DMR)

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JEFF

| PARAMETER                     |                    | QUANTITY OR LOADING |          |        | QUALITY OR CONCENTRATION |          |          |        | NO. EX | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|-------------------------------|--------------------|---------------------|----------|--------|--------------------------|----------|----------|--------|--------|-----------------------|-------------|
|                               |                    | AVERAGE             | MAXIMUM  | UNITS  | MINIMUM                  | AVERAGE  | MAXIMUM  | UNITS  |        |                       |             |
| COLIFORM, FECAL GENERAL       | SAMPLE MEASUREMENT | *****               | *****    |        | *****                    | 1.0      | 1.0      | ( 13 ) |        |                       |             |
| 74055 1 0 0                   | PERMIT REQUIREMENT | *****               | *****    | ****   | *****                    | 200      | 400      | #/     |        | WEEKLY                | GRAB        |
| EFFLUENT GROSS VALUE          |                    |                     |          | ****   |                          | 30DA GED | 7 DA GED | 100ML  |        |                       |             |
| BOD, CARBONACEOUS 05 DAY, 20C | SAMPLE MEASUREMENT | 12.0                | 32.0     | ( 26 ) | *****                    | 12.0     | 23.0     | ( 19 ) |        |                       |             |
| 80082 1 0 0                   | PERMIT REQUIREMENT | 26                  | 51       |        | *****                    | 15       | 30       |        |        | WEEKLY                | COMPOS      |
| EFFLUENT GROSS VALUE          |                    | 30DA AVG            | DAILY MX | LBS/DY |                          | 30DA AVG | DAILY MX | MG/L   |        |                       |             |
|                               | SAMPLE MEASUREMENT |                     |          |        |                          |          |          |        |        |                       |             |
|                               | PERMIT REQUIREMENT |                     |          |        |                          |          |          |        |        |                       |             |
|                               | SAMPLE MEASUREMENT |                     |          |        |                          |          |          |        |        |                       |             |
|                               | PERMIT REQUIREMENT |                     |          |        |                          |          |          |        |        |                       |             |
|                               | SAMPLE MEASUREMENT |                     |          |        |                          |          |          |        |        |                       |             |
|                               | PERMIT REQUIREMENT |                     |          |        |                          |          |          |        |        |                       |             |
|                               | SAMPLE MEASUREMENT |                     |          |        |                          |          |          |        |        |                       |             |
|                               | PERMIT REQUIREMENT |                     |          |        |                          |          |          |        |        |                       |             |
|                               | SAMPLE MEASUREMENT |                     |          |        |                          |          |          |        |        |                       |             |
|                               | PERMIT REQUIREMENT |                     |          |        |                          |          |          |        |        |                       |             |

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                              |           |        |      |    |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-----------|--------|------|----|
| 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. | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | TELEPHONE | DATE   |      |    |
| TYPED OR PRINTED                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                              | AREA CODE | NUMBER | YEAR | MO |

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

| McNeely Lake |           | Report for | Feb-09         |      | Tot. Exc.= |        | 1 Violation |       |            |
|--------------|-----------|------------|----------------|------|------------|--------|-------------|-------|------------|
| Tot. Flow=   | 3.711     |            | Concentrations |      |            |        | Pounds      |       |            |
| Date         | Flow      | TSS        | BOD            | NH3  | Fecal      | TSS    | BOD         | NH3   | Tot. Phos. |
| 2/1/09       | 0.17      |            |                |      |            |        |             |       |            |
| 2/2/09       | 0.189     |            |                |      |            |        |             |       |            |
| 2/3/09       | 0.165     | 13         | 23             | 2.6  | 1          | 17.889 | 31.650      | 3.578 |            |
| 2/4/09       | 0.13      |            |                |      |            |        |             |       |            |
| 2/5/09       | 0.12      |            |                |      |            |        |             |       | 3.35       |
| 2/6/09       | 0.117     |            |                |      |            |        |             |       |            |
| 2/7/09       | 0.152     |            |                |      |            |        |             |       |            |
| 2/8/09       | 0.164     |            |                |      |            |        |             |       |            |
| 2/9/09       | 0.129     |            |                |      |            |        |             |       |            |
| 2/10/09      | 0.172     | 10         | 4              | 1.3  | 1          | 14.345 | 5.738       | 1.865 | 0.244      |
| 2/11/09      | 0.221     |            |                |      |            |        |             |       |            |
| 2/12/09      | 0.179     |            |                |      |            |        |             |       |            |
| 2/13/09      | 0.138     |            |                |      |            |        |             |       |            |
| 2/14/09      | 0.127     |            |                |      |            |        |             |       |            |
| 2/15/09      | 0.121     |            |                |      |            |        |             |       |            |
| 2/16/09      | 0.104     |            |                |      |            |        |             |       |            |
| 2/17/09      | 0.112     |            |                |      |            |        |             |       |            |
| 2/18/09      | 0.118     | 17         | 3              | 1.3  | 1          | 16.730 | 2.952       | 1.279 | 0.386      |
| 2/19/09      | 0.105     |            |                |      |            |        |             |       |            |
| 2/20/09      | 0.089     |            |                |      |            |        |             |       |            |
| 2/21/09      | 0.107     |            |                |      |            |        |             |       |            |
| 2/22/09      | 0.116     |            |                |      |            |        |             |       |            |
| 2/23/09      | 0.097     |            |                |      |            |        |             |       |            |
| 2/24/09      | 0.083     | 61         | 22             | 1.2  | 1          | 42.225 | 15.229      | 0.831 | 4.65       |
| 2/25/09      | 0.088     | 18         | 8              |      |            | 13.211 | 5.871       |       |            |
| 2/26/09      | 0.091     |            |                |      |            |        |             |       |            |
| 2/27/09      | 0.155     |            |                |      |            |        |             |       |            |
| 2/28/09      | 0.152     |            |                |      |            |        |             |       |            |
| 3/1/09       |           |            |                |      |            |        |             |       |            |
| 3/2/09       |           |            |                |      |            |        |             |       |            |
| 3/3/09       |           |            |                |      |            |        |             |       |            |
| Average      | 0.133     | 23.80      | 12.00          | 1.60 | 1.00       | 20.88  | 12.29       | 1.89  | 2.16       |
| Maximum      | 0.221     | 61.00      | 23.00          | 2.60 | 1.00       | 42.23  | 31.65       | 3.58  | 4.65       |
| Exceed.      | 1         | 1          | 0              | 0    | 0          | 0      | 0           | 0     |            |
| Day Viol.    |           | 1          |                |      |            |        |             |       |            |
| Mo. Viol     |           |            |                |      |            |        |             |       |            |
| Minimum      | 0.083 MIN | MAX        |                |      |            |        |             |       |            |