



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)

July 15, 2013

Ms. Cheryl Edwards  
Kentucky Division of Water  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, Kentucky 40601

**RE: Cedar Creek WQTC, KPDES No: KY0098540  
Discharge Monitoring Report-June 2013**

Dear Ms. Edwards:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operating Report (MOR) for the Cedar Creek WQTC, KPDES No.: KY0098540 for the month of June 2013.

Also attached are the 2<sup>nd</sup> quarter biomonitoring DMR's.

There were no exceedences, bypasses or overflows to report.

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

Sincerely,

A handwritten signature in cursive script that reads "Duane V. Wright".

Duane V. Wright  
Process Supervisor Central Region

DVW/Cedar Creek 06.13.doc

Enclosures

cc: T. Singleton  
R. Shaw



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

**DMR Copy of Record**

|                           |                                 |                           |   |                           |   |
|---------------------------|---------------------------------|---------------------------|---|---------------------------|---|
| <b>Permit</b>             |                                 |                           |   |                           |   |
| <b>Permit #:</b>          | <b>KY0098540</b>                | <b>Permittee:</b>         | <b>CEDAR CREEK WQTC MSD</b>                         | <b>Facility:</b>          | <b>CEDAR CREEK WQTC MSD</b>                         |
| <b>Major:</b>             | <b>Yes</b>                      | <b>Permittee Address:</b> | <b>8405 CEDAR CREEK RD<br/>LOUISVILLE, KY 40211</b> | <b>Facility Location:</b> | <b>8405 CEDAR CREEK RD<br/>LOUISVILLE, KY 40211</b> |
| <b>Permitted Feature:</b> | <b>001<br/>External Outfall</b> | <b>Discharge:</b>         | <b>001-2<br/>NEW EXPANSION</b>                      |                           |   |

|                                  |                                  |                      |                 |                |                         |
|----------------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|
| <b>Report Dates &amp; Status</b> |                                  |                      |                 |                |                         |
| <b>Monitoring Period:</b>        | <b>From 06/01/13 to 06/30/13</b> | <b>DMR Due Date:</b> | <b>07/28/13</b> | <b>Status:</b> | <b>NetDMR Validated</b> |

**Considerations for Form Completion**

|                                    |                 |               |                           |                   |                     |
|------------------------------------|-----------------|---------------|---------------------------|-------------------|---------------------|
| <b>Principal Executive Officer</b> |                 |               |                           |                   |                     |
| <b>First Name:</b>                 | <b>Greg</b>     | <b>Title:</b> | <b>Executive Director</b> | <b>Telephone:</b> | <b>502-540-6000</b> |
| <b>Last Name:</b>                  | <b>Heitzman</b> |               |                           |                   |                     |

|                                 |           |  |  |  |
|---------------------------------|-----------|--|--|--|
| <b>No Data Indicator (NODI)</b> |           |  |  |  |
| <b>Form NODI:</b>               | <b>--</b> |  |  |  |

| Code  | Parameter Name                             | Monitoring Location     | Season # | Param. NODI | Quantity or Loading |         |                |         |                  | Quality or Concentration |           |                |         |                  | # of Ex.     | Frequency of Analysis | Sample Type                                      |   |                        |
|-------|--|-------------------------|----------|-------------|---------------------|---------|----------------|---------|------------------|--------------------------|-----------|----------------|---------|------------------|--------------|-----------------------|--|---|------------------------|
|       |  |                         |          |             | Qualifier 1         | Value 1 | Qualifier 2    | Value 2 | Units            | Qualifier 1              | Value 1   | Qualifier 2    | Value 2 | Qualifier 3      |              |                       |  | Value 3                                 | Units                  |
| 00300 | Oxygen, dissolved (DO)                     | 1 - Effluent Gross      | 0        | --          | Sample              | =       | 7              |         |                  |                          | =         | 7              |         |                  |              | 19 - mg/L             | 0  | 01/01 - Daily<br>03/07 - Three Per Week | GR - GRAB<br>GR - GRAB |
|       |  |                         |          |             | Permit Req.         | >=      | 7 INST MIN     |         |                  |                          |           |                |         |                  | 19 - mg/L    |                       |  |   |                        |
|       |  |                         |          |             | Value NODI          |         |                |         |                  |                          |           |                |         |                  |              |                       |  |   |                        |
| 00400 | pH   | 1 - Effluent Gross      | 0        | --          | Sample              | =       | 7              |         |                  |                          | =         | 8              |         |                  | 12 - SU      | 0                     | 01/01 - Daily<br>03/07 - Three Per Week          | GR - GRAB<br>GR - GRAB                  |                        |
|       |  |                         |          |             | Permit Req.         | >=      | 6 MINIMUM      |         |                  | <=                       | 9 MAXIMUM |                |         | 12 - SU          |              |                       |  |   |                        |
|       |  |                         |          |             | Value NODI          |         |                |         |                  |                          |           |                |         |                  |              |                       |  |   |                        |
| 00530 | Solids, total suspended                    | 1 - Effluent Gross      | 0        | --          | Sample              | =       | 40             | =       | 45               | 26 - lb/d                | =         | 2              | =       | 2                | 19 - mg/L    | 0                     | 03/07 - Three Per Week<br>03/07 - Three Per Week | CP - COMPOS<br>CP - COMPOS              |                        |
|       |  |                         |          |             | Permit Req.         | <=      | 1876 MO AVG    | <=      | 2815 MX WK AV    | 26 - lb/d                | <=        | 30 MO AVG      | <=      | 45 MX WK AV      | 19 - mg/L    |                       |  |   |                        |
|       |  |                         |          |             | Value NODI          |         |                |         |                  |                          |           |                |         |                  |              |                       |  |   |                        |
| 00530 | Solids, total suspended                    | G - Raw Sewage Influent | 0        | --          | Sample              | =       | 5437           | =       | 7322             | 26 - lb/d                | =         | 267            | =       | 355              | 19 - mg/L    | 0                     | 03/07 - Three Per Week<br>03/07 - Three Per Week | CP - COMPOS<br>CP - COMPOS              |                        |
|       |  |                         |          |             | Permit Req.         |         | Req Mon MO AVG |         | Req Mon MX WK AV | 26 - lb/d                |           | Req Mon MO AVG |         | Req Mon MX WK AV | 19 - mg/L    |                       |  |   |                        |
|       |  |                         |          |             | Value NODI          |         |                |         |                  |                          |           |                |         |                  |              |                       |  |   |                        |
| 00610 | Nitrogen, ammonia total (as N)             | 1 - Effluent Gross      | 1        | --          | Sample              | =       | 45             | =       | 136              | 26 - lb/d                | =         | 2              | =       | 6                | 19 - mg/L    | 0                     | 03/07 - Three Per Week<br>03/07 - Three Per Week | CP - COMPOS<br>CP - COMPOS              |                        |
|       |  |                         |          |             | Permit Req.         | <=      | 250 MO AVG     | <=      | 375 MX WK AV     | 26 - lb/d                | <=        | 4 MO AVG       | <=      | 6 MX WK AV       | 19 - mg/L    |                       |  |   |                        |
|       |  |                         |          |             | Value NODI          |         |                |         |                  |                          |           |                |         |                  |              |                       |  |   |                        |
| 00610 | Nitrogen, ammonia total (as N)             | G - Raw Sewage Influent | 0        | --          | Sample              | =       | 438            | =       | 466              | 26 - lb/d                | =         | 22             | =       | 25               | 19 - mg/L    | 0                     | 03/07 - Three Per Week<br>03/07 - Three Per Week | CP - COMPOS<br>CP - COMPOS              |                        |
|       |  |                         |          |             | Permit Req.         |         | Req Mon MO AVG |         | Req Mon MX WK AV | 26 - lb/d                |           | Req Mon MO AVG |         | Req Mon MX WK AV | 19 - mg/L    |                       |  |   |                        |
|       |  |                         |          |             | Value NODI          |         |                |         |                  |                          |           |                |         |                  |              |                       |  |   |                        |
| 00665 | Phosphorus, total (as P)                   | 1 - Effluent Gross      | 1        | --          | Sample              | =       | 4              | =       | 9                | 26 - lb/d                | =         | 0.2            | =       | 0.5              | 19 - mg/L    | 0                     | 03/07 - Three Per Week<br>03/07 - Three Per Week | CP - COMPOS<br>CP - COMPOS              |                        |
|       |  |                         |          |             | Permit Req.         | <=      | 63 MO AVG      | <=      | 94 MX WK AV      | 26 - lb/d                | <=        | 1 MO AVG       | <=      | 1.5 MX WK AV     | 19 - mg/L    |                       |  |   |                        |
|       |  |                         |          |             | Value NODI          |         |                |         |                  |                          |           |                |         |                  |              |                       |  |   |                        |
| 50050 | Flow, in conduit or thru treatment plant   | 1 - Effluent Gross      | 0        | --          | Sample              | =       | 2.55           | =       | 5.87             | 03 - MGD                 |           |                |         |                  |              | 0                     | 99/99 - Continuous<br>99/99 - Continuous         | CN - CONTIN<br>CN - CONTIN              |                        |
|       |  |                         |          |             | Permit Req.         |         | Req Mon MO AVG |         | Req Mon DAILY MX | 03 - MGD                 |           |                |         |                  |              |                       |  |   |                        |
|       |  |                         |          |             | Value NODI          |         |                |         |                  |                          |           |                |         |                  |              |                       |  |   |                        |
| 74055 | Coliform, fecal general                    | 1 - Effluent Gross      | 0        | --          | Sample              |         |                |         |                  |                          | =         | 4              | =       | 11               | 13 - #/100mL | 0                     | 03/07 - Three Per Week<br>03/07 - Three Per Week | GR - GRAB<br>CP - COMPOS                |                        |
|       |  |                         |          |             | Permit Req.         |         |                |         |                  |                          | <=        | 200 30DA GEO   | <=      | 400 7 DA GEO     | 13 - #/100mL |                       |  |   |                        |
|       |  |                         |          |             | Value NODI          |         |                |         |                  |                          |           |                |         |                  |              |                       |  |   |                        |
| 80082 | BOD, carbonaceous, 05 day, 20 C            | 1 - Effluent Gross      | 0        | --          | Sample              | =       | 40             | =       | 45               | 26 - lb/d                | =         | 2              | =       | 2                | 19 - mg/L    | 0                     | 03/07 - Three Per Week<br>03/07 - Three Per Week | CP - COMPOS<br>CP - COMPOS              |                        |
|       |  |                         |          |             | Permit Req.         | <=      | 625 MO AVG     | <=      | 938 MX WK AV     | 26 - lb/d                | <=        | 10 MO AVG      | <=      | 15 MX WK AV      | 19 - mg/L    |                       |  |   |                        |
|       |  |                         |          |             | Value NODI          |         |                |         |                  |                          |           |                |         |                  |              |                       |  |   |                        |
| 80082 | BOD, carbonaceous, 05 day, 20 C            | G - Raw Sewage Influent | 0        | --          | Sample              | =       | 2320           | =       | 2914             | 26 - lb/d                | =         | 116            | =       | 140              | 19 - mg/L    | 0                     | 03/07 - Three Per Week<br>03/07 - Three Per Week | CP - COMPOS<br>CP - COMPOS              |                        |
|       |  |                         |          |             | Permit Req.         |         | Req Mon MO AVG |         | Req Mon MX WK AV | 26 - lb/d                |           | Req Mon MO AVG |         | Req Mon MX WK AV | 19 - mg/L    |                       |  |   |                        |
|       |  |                         |          |             | Value NODI          |         |                |         |                  |                          |           |                |         |                  |              |                       |  |   |                        |
| 80091 | BOD, carb-5 day, 20 deg C, percent removal | K - Percent Removal     | 0        | --          | Sample              |         |                |         |                  |                          | =         | 98             |         |                  | 23 - %       | 0                     | 01/30 - Monthly<br>01/30 - Monthly               | CA - CALCTD<br>CA - CALCTD              |                        |
|       |  |                         |          |             | Permit Req.         |         |                |         |                  |                          | >=        | 85 MO MIN      |         |                  | 23 - %       |                       |  |   |                        |
|       |  |                         |          |             | Value NODI          |         |                |         |                  |                          |           |                |         |                  |              |                       |  |   |                        |
| 81011 | Solids, suspended percent removal          | K - Percent Removal     | 0        | --          | Sample              |         |                |         |                  |                          | =         | 99             |         |                  | 23 - %       | 0                     | 01/30 - Monthly<br>01/30 - Monthly               | CA - CALCTD<br>CA - CALCTD              |                        |
|       |  |                         |          |             | Permit Req.         |         |                |         |                  |                          | >=        | 85 MO MIN      |         |                  | 23 - %       |                       |  |   |                        |
|       |  |                         |          |             | Value NODI          |         |                |         |                  |                          |           |                |         |                  |              |                       |  |   |                        |

**Submission Note**  
 If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

**Edit Check Errors**  
 No errors.

**Comments**

**Attachments**

| Name               | Type | Size  |
|--------------------|------|-------|
| CC062013_MOR.pdf   | pdf  | 52526 |
| CC062013_cover.pdf | pdf  | 17178 |

**Report Last Saved By**

**CEDAR CREEK WQTC MSD**

|         |                                |            |                                      |
|---------|--------------------------------|------------|--------------------------------------|
| User:   | wrightd                        | Date/Time: | 2013-07-24 12:40 (Time Zone: -04:00) |
| Name:   | Duane Wright                   |            |                                      |
| E-Mail: | duane.wright@louisvillemsd.org |            |                                      |

# DMR Copy of Record

|                    |                         |                    |   |                    |   |
|--------------------|-------------------------|--------------------|---|--------------------|---|
| <b>Permit</b>      |                         |                    |   |                    |   |
| Permit #:          | KY0098540               | Permittee:         | CEDAR CREEK WQTC MSD                        | Facility:          | CEDAR CREEK WQTC MSD                        |
| Major:             | Yes                     | Permittee Address: | 8405 CEDAR CREEK RD<br>LOUISVILLE, KY 40211 | Facility Location: | 8405 CEDAR CREEK RD<br>LOUISVILLE, KY 40211 |
| Permitted Feature: | 001<br>External Outfall | Discharge:         | 001-Y<br>METALS/BIOMONITORING/QUARTERLY     |                    |   |

|                                  |                           |               |          |         |                  |
|----------------------------------|---------------------------|---------------|----------|---------|------------------|
| <b>Report Dates &amp; Status</b> |                           |               |          |         |                  |
| Monitoring Period:               | From 04/01/13 to 06/30/13 | DMR Due Date: | 07/28/13 | Status: | NetDMR Validated |

**Considerations for Form Completion**

|                                    |          |        |                    |            |              |
|------------------------------------|----------|--------|--------------------|------------|--------------|
| <b>Principal Executive Officer</b> |          |        |                    |            |              |
| First Name:                        | Greg     | Title: | Executive Director | Telephone: | 502-540-6000 |
| Last Name:                         | Heitzman |        |                    |            |              |

|                                 |    |  |  |  |  |
|---------------------------------|----|--|--|--|--|
| <b>No Data Indicator (NODI)</b> |    |  |  |  |  |
| Form NODI:                      | -- |  |  |  |  |

| Code  | Parameter Name                      | Monitoring Location | Season # | Param. NODI | Quantity or Loading |         |             |         |       | Quality or Concentration |         |                |         |                  | # of Ex.         | Frequency of Analysis | Sample Type       |             |
|-------|-------------------------------------|---------------------|----------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|---------|----------------|---------|------------------|------------------|-----------------------|-------------------|-------------|
|       |                                     |                     |          |             | Qualifier 1         | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1              | Value 1 | Qualifier 2    | Value 2 | Qualifier 3      |                  |                       |                   | Value 3     |
| 00900 | Hardness, total (as CaCO3)          | 1 - Effluent Gross  | 0        | --          | Sample              |         |             |         |       |                          | =       | 243            | =       | 243              | 19 - mg/L        | 0                     | 01/90 - Quarterly | CP - COMPOS |
|       |                                     |                     |          |             | Permit Req.         |         |             |         |       |                          |         | Req Mon MO AVG |         | Req Mon DAILY MX | 19 - mg/L        |                       |                   |             |
|       |                                     |                     |          |             | Value NODI          |         |             |         |       |                          |         |                |         |                  |                  |                       |                   |             |
| 01025 | Cadmium, dissolved (as Cd)          | 1 - Effluent Gross  | 0        | --          | Sample              |         |             |         |       |                          | <       | 0.001          | <       | 0.001            | 19 - mg/L        | 0                     | 01/90 - Quarterly | CP - COMPOS |
|       |                                     |                     |          |             | Permit Req.         |         |             |         |       |                          |         | Req Mon MO AVG |         | Req Mon DAILY MX | 19 - mg/L        |                       |                   |             |
|       |                                     |                     |          |             | Value NODI          |         |             |         |       |                          |         |                |         |                  |                  |                       |                   |             |
| 01040 | Copper, dissolved (as Cu)           | 1 - Effluent Gross  | 0        | --          | Sample              |         |             |         |       |                          | <       | 0.006          | <       | 0.006            | 19 - mg/L        | 0                     | 01/90 - Quarterly | CP - COMPOS |
|       |                                     |                     |          |             | Permit Req.         |         |             |         |       |                          |         | Req Mon MO AVG |         | Req Mon DAILY MX | 19 - mg/L        |                       |                   |             |
|       |                                     |                     |          |             | Value NODI          |         |             |         |       |                          |         |                |         |                  |                  |                       |                   |             |
| 01049 | Lead, dissolved (as Pb)             | 1 - Effluent Gross  | 0        | --          | Sample              |         |             |         |       |                          | <       | 0.08           | <       | 0.08             | 19 - mg/L        | 0                     | 01/90 - Quarterly | CP - COMPOS |
|       |                                     |                     |          |             | Permit Req.         |         |             |         |       |                          |         | Req Mon MO AVG |         | Req Mon DAILY MX | 19 - mg/L        |                       |                   |             |
|       |                                     |                     |          |             | Value NODI          |         |             |         |       |                          |         |                |         |                  |                  |                       |                   |             |
| 01090 | Zinc, dissolved (as Zn)             | 1 - Effluent Gross  | 0        | --          | Sample              |         |             |         |       |                          | =       | 0.029          | =       | 0.029            | 19 - mg/L        | 0                     | 01/90 - Quarterly | CP - COMPOS |
|       |                                     |                     |          |             | Permit Req.         |         |             |         |       |                          |         | Req Mon MO AVG |         | Req Mon DAILY MX | 19 - mg/L        |                       |                   |             |
|       |                                     |                     |          |             | Value NODI          |         |             |         |       |                          |         |                |         |                  |                  |                       |                   |             |
| 01094 | Zinc, total recoverable             | 1 - Effluent Gross  | 0        | --          | Sample              |         |             |         |       |                          | =       | 0.031          | =       | 0.031            | 19 - mg/L        | 0                     | 01/90 - Quarterly | CP - COMPOS |
|       |                                     |                     |          |             | Permit Req.         |         |             |         |       |                          |         | Req Mon MO AVG |         | Req Mon DAILY MX | 19 - mg/L        |                       |                   |             |
|       |                                     |                     |          |             | Value NODI          |         |             |         |       |                          |         |                |         |                  |                  |                       |                   |             |
| 01113 | Cadmium, total recoverable          | 1 - Effluent Gross  | 0        | --          | Sample              |         |             |         |       |                          | <       | 0.001          | <       | 0.001            | 19 - mg/L        | 0                     | 01/90 - Quarterly | CP - COMPOS |
|       |                                     |                     |          |             | Permit Req.         |         |             |         |       |                          |         | Req Mon MO AVG |         | Req Mon DAILY MX | 19 - mg/L        |                       |                   |             |
|       |                                     |                     |          |             | Value NODI          |         |             |         |       |                          |         |                |         |                  |                  |                       |                   |             |
| 01114 | Lead, total recoverable             | 1 - Effluent Gross  | 0        | --          | Sample              |         |             |         |       |                          | <       | 0.08           | <       | 0.08             | 19 - mg/L        | 0                     | 01/90 - Quarterly | CP - COMPOS |
|       |                                     |                     |          |             | Permit Req.         |         |             |         |       |                          |         | Req Mon MO AVG |         | Req Mon DAILY MX | 19 - mg/L        |                       |                   |             |
|       |                                     |                     |          |             | Value NODI          |         |             |         |       |                          |         |                |         |                  |                  |                       |                   |             |
| 01119 | Copper, total recoverable           | 1 - Effluent Gross  | 0        | --          | Sample              |         |             |         |       |                          | <       | 0.01           | <       | 0.01             | 19 - mg/L        | 0                     | 01/90 - Quarterly | CP - COMPOS |
|       |                                     |                     |          |             | Permit Req.         |         |             |         |       |                          |         | Req Mon MO AVG |         | Req Mon DAILY MX | 19 - mg/L        |                       |                   |             |
|       |                                     |                     |          |             | Value NODI          |         |             |         |       |                          |         |                |         |                  |                  |                       |                   |             |
| 61406 | Toxicity, final conc toxicity units | 1 - Effluent Gross  | 0        | --          | Sample              |         |             |         |       |                          |         |                | <       | 1                | 2G - tox chronic | 0                     | 01/90 - Quarterly | CP - COMPOS |
|       |                                     |                     |          |             | Permit Req.         |         |             |         |       |                          |         |                | <=      | 1 DAILY MX       | 2G - tox chronic |                       |                   |             |
|       |                                     |                     |          |             | Value NODI          |         |             |         |       |                          |         |                |         |                  |                  |                       |                   |             |

**Submission Note**  
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

**Edit Check Errors**  
No errors.

**Comments**

| <b>Attachments</b> |      |       |
|--------------------|------|-------|
| Name               | Type | Size  |
| CC062013_cover.pdf | pdf  | 17178 |

**Report Last Saved By**  
CEDAR CREEK WQTC MSD

|       |              |            |                                      |
|-------|--------------|------------|--------------------------------------|
| User: | wrightd      | Date/Time: | 2013-07-24 12:37 (Time Zone: -04:00) |
| Name: | Duane Wright |            |                                      |



NAME OF TREATMENT PLANT CEDAR CREEK WTP

COUNTY JEFFERSON

MONTH OF: June 2013

KPDES PERMIT NUMBER KY0098540

PLANT CAPACITY 7.5 MGD

RECEIVING STREAM CEDAR CREEK

| DATE | TOTAL FLOW (MILLION GALLONS) | RAW SEWAGE                |                         | 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 (CUBIC FEET) | SCREENINGS (CUBIC FEET) | RAW                      | FINAL | RAW  | PRIMARY EFFLUENT        | FINAL EFFLUENT | STREAM ABOVE | FINAL EFFLUENT          | STREAM BELOW | RAW | PRIMARY EFFLUENT  | FINAL EFFLUENT | RAW | PRIMARY EFFLUENT | FINAL EFFLUENT | RETURN         |                | WASTED | DISSOLVED OXYGEN (mg/L) | MLSS (mg/L) x 1000 | MLYSS (mg/L) x 1000 | SETTLED SLUDGE VOLUME |                 | RAW     |                |              | HAULED            |              | NH3-N (mg/L) | FECAL COLIFORM (COLONIES/100ML) | Total Phosphorus |                   |                          |  |  |
|      |                              |                           |                         |                          |       |      |                         |                |              |                         |              |     |                   |                |     |                  |                | GAL/DAY X 1000 | MLSS X 1000    |        |                         |                    |                     | GAL/DAY X 1000        | 30 MIN.         | 60 MIN. | GALLONS X 1000 | % DRY SOLIDS | % VOLATILE SOLIDS | % DRY SOLIDS |              |                                 |                  | % VOLATILE SOLIDS | WITHDRAWN GALLONS X 1000 |  |  |
| 1    | 2.94                         |                           |                         | 6.8                      | 7.6   |      |                         |                |              |                         |              |     |                   |                |     |                  | 1.90           |                | 60000          | 2.5    |                         |                    | 360                 | 300                   |                 |         |                |              |                   |              |              |                                 |                  |                   |                          |  |  |
| 2    | 2.74                         |                           |                         | 8.2                      | 8.1   |      |                         |                |              |                         | 560          |     | 2                 | 190            |     | 2                | 1.92           |                | 60000          | 2.7    |                         |                    | 340                 | 290                   |                 |         |                |              |                   |              |              |                                 | 1.10             | 2                 | 0.1                      |  |  |
| 3    | 2.36                         |                           |                         | 7.6                      | 7.6   | 18.0 |                         |                |              |                         | 275          |     | 2                 | 115            |     | 2                | 1.90           | 5390           | 60000          | 2.6    | 2810                    | 2310               | 340                 | 300                   |                 |         |                |              |                   |              |              | 1.40                            | 2                | 0.1               |                          |  |  |
| 4    | 2.23                         |                           |                         | 7.5                      | 7.5   | 21.0 |                         |                |              |                         | 202          |     | 2                 | 115            |     | 2                | 1.90           | 5560           | 60000          | 2.9    | 2760                    | 2220               | 340                 | 290                   |                 |         |                |              |                   |              |              | 1.20                            | 2                | 0.1               |                          |  |  |
| 5    | 2.14                         |                           |                         | 7.6                      | 7.6   | 16.0 |                         |                |              |                         |              |     |                   |                |     |                  | 1.94           | 6280           | 60000          | 2.8    | 2660                    | 2190               | 340                 | 290                   |                 |         |                |              |                   |              |              |                                 |                  |                   |                          |  |  |
| 6    | 2.22                         |                           |                         | 7.5                      | 7.5   |      |                         |                |              |                         |              |     |                   |                |     |                  | 1.88           | 4830           | 70000          | 2.7    | 2890                    | 2280               | 500                 | 390                   |                 |         |                |              |                   |              |              |                                 |                  |                   |                          |  |  |
| 7    | 2.27                         |                           |                         | 6.5                      | 6.5   |      |                         |                |              |                         |              |     |                   |                |     |                  | 1.88           | 3910           | 60000          | 2.8    | 2980                    | 2440               | 330                 | 280                   |                 |         |                |              |                   |              |              |                                 |                  |                   |                          |  |  |
| 8    | 2.19                         |                           |                         | 6.7                      | 6.9   |      |                         |                |              |                         |              |     |                   |                |     |                  | 1.88           |                | 70000          | 2.4    |                         |                    | 330                 | 290                   |                 |         |                |              |                   |              |              |                                 |                  |                   |                          |  |  |
| 9    | 2.25                         |                           |                         | 6.9                      | 6.8   |      |                         |                |              |                         | 375          |     | 2                 | 127            |     | 2                | 1.82           |                | 70000          |        |                         |                    | 340                 | 280                   |                 |         |                |              |                   |              |              |                                 | 0.84             | 3                 | 0.1                      |  |  |
| 10   | 2.52                         |                           |                         | 6.5                      | 7.0   | 14.0 |                         |                |              |                         | 335          |     | 2                 | 126            |     | 2                | 1.78           | 5420           | 60000          | 2.6    | 2840                    | 2220               | 310                 | 300                   |                 |         |                |              |                   |              |              | 0.73                            | 6                | 0.1               |                          |  |  |
| 11   | 2.33                         |                           |                         | 7.0                      | 7.3   | 16.0 |                         |                |              |                         | 355          |     | 2                 | 83             |     | 2                | 1.90           | 5370           | 70000          | 3.3    | 2080                    | 1750               | 320                 | 270                   |                 |         |                |              |                   |              |              | 0.39                            | 4                | 1.16              |                          |  |  |
| 12   | 2.21                         |                           |                         | 6.5                      | 7.2   | 23.0 |                         |                |              |                         |              |     |                   |                |     |                  | 1.89           | 4820           | 70000          | 2.3    | 2610                    | 2010               | 310                 | 270                   |                 |         |                |              |                   |              |              |                                 |                  |                   |                          |  |  |
| 13   | 2.10                         |                           |                         | 6.8                      | 7.1   |      |                         |                |              |                         |              |     |                   |                |     |                  | 1.89           | 5250           | 70000          | 2.3    | 2730                    | 2170               | 300                 | 270                   |                 |         |                |              |                   |              |              |                                 |                  |                   |                          |  |  |
| 14   | 1.86                         |                           |                         | 6.7                      | 7.4   |      |                         |                |              |                         |              |     |                   |                |     |                  | 1.88           | 4020           | 70000          | 2.3    | 2690                    | 2110               | 320                 | 270                   |                 |         |                |              |                   |              |              |                                 |                  |                   |                          |  |  |
| 15   | 1.85                         |                           |                         | 6.6                      | 7.8   |      |                         |                |              |                         |              |     |                   |                |     |                  | 1.89           |                | 70000          | 2.3    |                         |                    | 310                 | 270                   |                 |         |                |              |                   |              |              |                                 |                  |                   |                          |  |  |
| 16   | 2.23                         |                           |                         | 6.7                      | 7.9   |      |                         |                |              |                         | 136          |     | 2                 | 108            |     | 2                | 1.88           |                | 70000          |        |                         |                    | 300                 | 260                   |                 |         |                |              |                   |              |              | 5.30                            | 4                | 0.073             |                          |  |  |
| 17   | 2.62                         |                           |                         | 6.9                      | 7.6   |      |                         |                |              |                         | 210          |     | 2                 | 87             |     | 2                | 1.86           | 4710           | 65000          | 2.3    | 2380                    | 1760               | 300                 | 260                   |                 |         |                |              |                   |              |              | 6.80                            | 165              | 0.093             |                          |  |  |
| 18   | 3.29                         |                           |                         | 7.0                      | 7.3   | 21.0 |                         |                |              |                         | 202          |     | 2                 | 80             |     | 2                | 1.84           | 13870          | 65000          | 2.3    | 2120                    | 1720               | 250                 | 230                   |                 |         |                |              |                   |              |              | 5.90                            | 2                | 0.1               |                          |  |  |
| 19   | 2.66                         |                           |                         | 6.8                      | 7.2   |      |                         |                |              |                         |              |     |                   |                |     |                  | 1.11           | 6790           | 65000          | 2.5    | 2310                    | 1310               | 280                 | 250                   |                 |         |                |              |                   |              |              |                                 |                  |                   |                          |  |  |
| 20   | 2.26                         |                           |                         | 6.9                      | 7.3   |      |                         |                |              |                         |              |     |                   |                |     |                  | 1.89           | 5100           | 65000          | 2.4    | 2580                    | 2180               | 280                 | 250                   |                 |         |                |              |                   |              |              |                                 |                  |                   |                          |  |  |
| 21   | 2.06                         |                           |                         | 6.8                      | 7.1   |      |                         |                |              |                         |              |     |                   |                |     |                  | 1.88           | 5250           | 65000          | 3.2    | 2440                    | 2020               | 270                 | 240                   |                 |         |                |              |                   |              |              |                                 |                  |                   |                          |  |  |
| 22   | 2.16                         |                           |                         | 6.9                      | 7.3   |      |                         |                |              |                         |              |     |                   |                |     |                  | 1.80           |                | 65000          |        |                         |                    | 240                 | 220                   |                 |         |                |              |                   |              |              |                                 |                  |                   |                          |  |  |
| 23   | 2.16                         |                           |                         | 6.8                      | 7.1   | 13.0 |                         |                |              |                         | 152          |     | 2                 | 107            |     | 2                | 1.18           |                | 65000          |        |                         |                    | 250                 | 220                   |                 |         |                |              |                   |              |              | 0.28                            | 2                | 0.1               |                          |  |  |
| 24   | 2.15                         |                           |                         | 6.6                      | 7.3   | 20.0 |                         |                |              |                         | 192          |     | 2                 | 113            |     | 2                | 1.78           | 4330           | 65000          | 3.1    | 2630                    | 2120               | 270                 | 240                   |                 |         |                |              |                   |              |              | 0.40                            | 2                | 0.1               |                          |  |  |
| 25   | 2.05                         |                           |                         | 7.2                      | 7.8   | 20.0 |                         |                |              |                         | 204          |     | 2                 | 141            |     | 2                | 1.88           | 5440           | 65000          | 3.2    | 2570                    | 2240               | 260                 | 240                   |                 |         |                |              |                   |              |              |                                 | 0.12             | 2                 | 0.1                      |  |  |
| 26   | 3.08                         |                           |                         | 7.0                      | 7.3   |      |                         |                |              |                         |              |     |                   |                |     |                  | 1.87           | 6390           | 65000          | 3.7    | 2500                    | 2170               | 270                 | 240                   |                 |         |                |              |                   |              |              |                                 |                  |                   |                          |  |  |
| 27   | 5.87                         |                           |                         | 6.8                      | 7.7   |      |                         |                |              |                         |              |     |                   |                |     |                  | 1.85           | 6020           | 65000          | 2.8    | 1930                    | 1620               | 200                 | 190                   |                 |         |                |              |                   |              |              |                                 |                  |                   |                          |  |  |
| 28   | 3.54                         |                           |                         | 6.8                      | 8.0   |      |                         |                |              |                         |              |     |                   |                |     |                  | 2.45           | 5090           | 65000          | 3.5    | 2270                    | 1900               | 230                 | 220                   |                 |         |                |              |                   |              |              |                                 |                  |                   |                          |  |  |
| 29   | 3.02                         |                           |                         | 7.1                      | 7.6   |      |                         |                |              |                         |              |     |                   |                |     |                  | 2.49           |                | 65000          | 3.9    |                         |                    | 220                 | 200                   |                 |         |                |              |                   |              |              |                                 |                  |                   |                          |  |  |
| 30   | 3.08                         |                           |                         | 7.0                      | 7.5   |      |                         |                |              |                         |              |     |                   |                |     |                  | 2.49           |                | 65000          | 4.1    |                         |                    | 230                 | 210                   |                 |         |                |              |                   |              |              |                                 |                  |                   |                          |  |  |
| 31   |                              |                           |                         |                          |       |      |                         |                |              |                         |              |     |                   |                |     |                  |                |                |                |        |                         |                    |                     |                       |                 |         |                |              |                   |              |              |                                 |                  |                   |                          |  |  |
| Tot. | 76.45                        |                           |                         |                          |       |      |                         |                |              |                         |              |     |                   |                |     |                  | 56.5           |                |                |        |                         |                    |                     |                       |                 |         |                |              |                   |              |              |                                 |                  |                   |                          |  |  |
| Avg. | 2.55                         |                           |                         | 7.0                      | 7.4   | 18.2 |                         |                |              |                         | 267          |     | 2                 | 116            |     | 2                | 1.883          | 5692           | 65333.3        | 2.823  | 2539                    | 2037               | 298                 | 261                   |                 |         |                |              |                   |              |              | 2.04                            | 4                | 0.186             |                          |  |  |

RESIDENTIAL  
COMMERCIAL  
INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT  
24270 FLOW      14502 CBOD      26971 TSS

Joseph Shaun Smith      20987  
OPERATOR      CERT. NO.

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

502-239-7695  
PLANT TELEPHONE