



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

June 6, 2014

Ms. Cheryl Edwards
Kentucky Division of Water
200 Fair Oaks Lane
Frankfort, Kentucky 40601

Re: MSD Metro Operations
Berrytown WQTC; KPDES No.: KY0036501
Discharge Monitoring Reports – May 2014

Dear Ms. Edwards:

Attached are the Discharge Monitoring Reports (DMRs) and the Monthly Operating Report (MOR) for the Berrytown WQTC, KPDES No.: KY0036501 for the month of May 2014.

Also attached are bypass letters and overflow reports.

There were no exceedences.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Duane V. Wright". The signature is fluid and cursive, written over a light background.

Duane V. Wright
Process Supervisor Central Region

DVW/Berrytown 05.14

Enclosures

cc: T. Singleton
R. Shaw



Beneficial Use of Louisville's Biosolids
www.louisvillegreen.com

DMR Copy of Record

| | | | |
|---------------------------|-------------------------|---------------------------|--|
| Permit | | | |
| Permit #: | KY0036501 | Permittee: | BERRYTOWN WQTC MSD |
| Major: | No | Permittee Address: | 1203 HEAFER RD LOUISVILLE, KY 40222 |
| Permitted Feature: | 001 External Outfall | Discharge: | 001-1 SANITARY WASTEWATER |
| Facility: | | Facility Location: | BERRYTOWN WQTC MSD 1203 HEAFER RD LOUISVILLE, KY 40222 |

| | | | |
|----------------------------------|----------------------------------|----------------------|-----------------|
| Report Dates & Status | | | |
| Monitoring Period: | From 05/01/14 to 05/31/14 | DMR Due Date: | 06/28/14 |
| Status: | NetDMR Validated | | |

Considerations for Form Completion
 TOTAL NITROGEN IS THE SUMMATION OF THE ANALYTICAL RESULTS FOR TOTAL NITRATES, TOTAL NITRITES, AND TOTAL KJELDAHL NITROGEN

| | | | |
|------------------------------------|----------|-------------------|--------------|
| Principal Executive Officer | | | |
| First Name: | Greg | Title: | Exec. Dir. |
| Last Name: | Heitzman | Telephone: | 502-540-6000 |

No Data Indicator (NODI)
 Form NODI: --

| Code | Parameter Name | Monitoring Location | Season # | Param. NODI | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | | |
|-------|--|---------------------|----------|-------------|---------------------|---------|----------------|---------|------------------|--------------------------|---------|----------------|---------|------------------|--------------------|-----------------------|----------------------|----------------------|-----------|
| | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | | | | Value 3 | Units |
| 00300 | Oxygen, dissolved [DO] | 1 - Effluent Gross | 0 | -- | Sample | = | 8 | | | | = | 8 | | | | 19 - mg/L | 0 | 25/30 - 25 Per Month | GR - GRAB |
| | | | | | Permit Req. | >= | 7 INST MIN | | | | | | | | 19 - mg/L | 01/07 - Weekly | | GR - GRAB | |
| | | | | | Value NODI | | | | | | | | | | | | | | |
| 00400 | pH | 1 - Effluent Gross | 0 | -- | Sample | = | 7 | | | | = | 7 | | | 12 - SU | 0 | 29/30 - 29 Per Month | GR - GRAB | |
| | | | | | Permit Req. | >= | 6 MINIMUM | | | | <= | 9 MAXIMUM | | 12 - SU | 01/07 - Weekly | | GR - GRAB | | |
| | | | | | Value NODI | | | | | | | | | | | | | | |
| 00530 | Solids, total suspended | 1 - Effluent Gross | 0 | -- | Sample | = | 3.5 | = | 4.5 | 26 - lb/d | = | 3 | = | 4 | 19 - mg/L | 0 | 01/07 - Weekly | CP - COMPOS | |
| | | | | | Permit Req. | <= | 18.8 MO AVG | <= | 28.2 WKLY AVG | 26 - lb/d | <= | 30 MO AVG | <= | 45 WKLY AVG | 19 - mg/L | | 01/07 - Weekly | 24 - COMP24 | |
| | | | | | Value NODI | | | | | | | | | | | | | | |
| 00600 | Nitrogen, total | 1 - Effluent Gross | 0 | -- | Sample | = | | | | | = | 17 | = | 34 | 19 - mg/L | 0 | 01/07 - Weekly | CP - COMPOS | |
| | | | | | Permit Req. | | | | | | | Req Mon MO AVG | | Req Mon WKLY AVG | 19 - mg/L | | 01/07 - Weekly | 24 - COMP24 | |
| | | | | | Value NODI | | | | | | | | | | | | | | |
| 00610 | Nitrogen, ammonia total [as N] | 1 - Effluent Gross | 1 | -- | Sample | = | 0.6 | = | 0.9 | 26 - lb/d | = | 0.5 | = | 0.8 | 19 - mg/L | 0 | 01/07 - Weekly | CP - COMPOS | |
| | | | | | Permit Req. | <= | 2.5 MO AVG | <= | 3.8 WKLY AVG | 26 - lb/d | <= | 4 MO AVG | <= | 6 WKLY AVG | 19 - mg/L | | 01/07 - Weekly | 24 - COMP24 | |
| | | | | | Value NODI | | | | | | | | | | | | | | |
| 00665 | Phosphorus, total [as P] | 1 - Effluent Gross | 0 | -- | Sample | = | | | | | = | 1.3 | = | 3.7 | 19 - mg/L | 0 | 01/07 - Weekly | CP - COMPOS | |
| | | | | | Permit Req. | | | | | | | Req Mon MO AVG | | Req Mon WKLY AVG | 19 - mg/L | | 01/07 - Weekly | 24 - COMP24 | |
| | | | | | Value NODI | | | | | | | | | | | | | | |
| 50050 | Flow, in conduit or thru treatment plant | 1 - Effluent Gross | 0 | -- | Sample | = | 0.17 | = | 0.337 | 03 - MGD | | | | | | 0 | 99/99 - Continuous | CN - CONTIN | |
| | | | | | Permit Req. | | Req Mon MO AVG | | Req Mon WKLY AVG | 03 - MGD | | | | | 99/99 - Continuous | | IN - INSTAN | | |
| | | | | | Value NODI | | | | | | | | | | | | | | |
| 50060 | Chlorine, total residual | 1 - Effluent Gross | 0 | -- | Sample | | | | | | < | 0.01 | < | 0.01 | 19 - mg/L | 0 | 29/30 - 29 Per Month | GR - GRAB | |
| | | | | | Permit Req. | | | | | | <= | .011 MO AVG | <= | .019 WKLY AVG | 19 - mg/L | | 01/07 - Weekly | GR - GRAB | |
| | | | | | Value NODI | | | | | | | | | | | | | | |
| 51040 | E. coli | 1 - Effluent Gross | 0 | -- | Sample | | | | | | = | 1 | = | 1 | 13 - #/100mL | 0 | 01/07 - Weekly | GR - GRAB | |
| | | | | | Permit Req. | | | | | | <= | 130 30DA GEO | <= | 240 7 DA GEO | 13 - #/100mL | | 01/07 - Weekly | GR - GRAB | |
| | | | | | Value NODI | | | | | | | | | | | | | | |
| 80082 | BOD, carbonaceous, 05 day, 20 C | 1 - Effluent Gross | 0 | -- | Sample | = | 4.4 | = | 5.7 | 26 - lb/d | = | 4 | = | 5 | 19 - mg/L | 0 | 01/07 - Weekly | CP - COMPOS | |
| | | | | | Permit Req. | <= | 15.7 MO AVG | <= | 23.5 WKLY AVG | 26 - lb/d | <= | 25 MO AVG | <= | 37.5 WKLY AVG | 19 - mg/L | | 01/07 - Weekly | 24 - COMP24 | |
| | | | | | 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 |
| B-town05152014_BYPASS.pdf | pdf | 20542 |
| 201405_BERRYTOWN_OverflowReport.pdf | pdf | 72446 |
| BERRYTOWN052014_MOR.pdf | pdf | 25561 |
| BERRYTOWN052014_COVER.pdf | pdf | 17409 |

Report Last Saved By

BERRYTOWN WQTC MSD

User: kevin.ries@louisvillemsd.org

Date/Time:

2014-06-23 14:06 (Time Zone: -04:00)

Name: Kevin Ries

E-Mail: kevin.ries@louisvillemsd.org

| Berrytown | | Report for May-14 | | | | Tot. Exc.= 0 | | | | | | | |
|--------------------|-----------------|--------------------------|---------------------------|------|-------|--------------|-------------------|-------|------------|-------|------|------|--|
| Tot. Flow= Date | 5.27457 Flow | TSS | Concentrations BOD NH3 | | Ecoli | TSS | Pounds BOD NH3 | | Tot. Phos. | D.O. | p.H. | TRC | |
| 5/1/14 | 0.226 | | | | | | | | | | 7.1 | 0.01 | |
| 5/2/14 | 0.179 | | | | | | | | | 9.6 | 7 | 0.01 | |
| 5/3/14 | 0.155 | | | | | | | | | 9.8 | 7 | 0.01 | |
| 5/4/14 | 0.136 | 2 | 5 | 0.11 | | 2.265 | 5.663 | 0.125 | 0.218 | 10 | 6.9 | 0.01 | |
| 5/5/14 | 0.116 | | | | 1 | | | | | 10 | 6.8 | 0.01 | |
| 5/6/14 | 0.102 | | | | | | | | | 9.9 | 6.8 | 0.01 | |
| 5/7/14 | 0.098 | | | | | | | | | 9.5 | 7 | 0.01 | |
| 5/8/14 | 0.092 | 4 | 5 | 0.45 | | 3.061 | 3.826 | 0.344 | 3.72 | 9.8 | 6.9 | 0.01 | |
| 5/9/14 | 0.094 | | | | 1 | | | | | 10 | 6.9 | 0.01 | |
| 5/10/14 | 0.224 | | | | | | | | | | | | |
| 5/11/14 | 0.261 | | | | | | | | | 8.3 | 7.1 | 0.01 | |
| 5/12/14 | 0.174 | | | | | | | | | 8.8 | 7 | 0.01 | |
| 5/13/14 | 0.141 | | | | | | | | | 9.2 | 6.9 | 0.01 | |
| 5/14/14 | 0.201 | | | | | | | | | 9.6 | 7 | 0.01 | |
| 5/15/14 | 0.162 | | | | | | | | | | 7.2 | 0.01 | |
| 5/16/14 | 0.303 | | | | | | | | | | 7.3 | 0.01 | |
| 5/17/14 | 0.222 | | | | | | | | | 8.5 | 7.2 | 0.01 | |
| 5/18/14 | 0.181 | 3 | 2 | 0.62 | | 4.536 | 3.024 | 0.937 | 0.193 | 9.2 | 7.2 | 0.01 | |
| 5/19/14 | 0.147 | | | | 1 | | | | | 9.3 | 7.1 | 0.01 | |
| 5/20/14 | 0.130 | | | | | | | | | 9.6 | 7 | 0.01 | |
| 5/21/14 | 0.121 | | | | | | | | | 9.1 | 7 | 0.01 | |
| 5/22/14 | 0.321 | | | | | | | | | 9.8 | 7.1 | 0.01 | |
| 5/23/14 | 0.205 | | | | | | | | | 10 | 7 | 0.01 | |
| 5/24/14 | 0.160 | | | | | | | | | 9.8 | 7.1 | 0.01 | |
| 5/25/14 | 0.137 | | | | | | | | | 10 | 7 | 0.01 | |
| 5/26/14 | 0.119 | 4 | 5 | 0.78 | | 3.976 | 4.970 | 0.775 | 0.926 | 9.8 | 6.6 | 0.01 | |
| 5/27/14 | 0.108 | | | | 1 | | | | | 9.4 | 6.7 | 0.01 | |
| 5/28/14 | 0.091 | | | | | | | | | 8.7 | 6.6 | 0.01 | |
| 5/29/14 | 0.132 | | | | | | | | | 8.9 | 6.7 | 0.01 | |
| 5/30/14 | 0.337 | | | | | | | | | | 7.1 | 0.01 | |
| 5/31/14 | 0.200 | | | | | | | | | 8.4 | 6.9 | 0.01 | |
| Average | 0.170 | 3 | 4 | 0.5 | 1.00 | 3 | 4.371 | 0.55 | 1.3 | 9.42 | 7 | 0.01 | |
| Maximum | 0.337 | 4 | 5 | 0.8 | 1.00 | 5 | 5.663 | 0.9 | 3.7 | 10.00 | 7 | 0.01 | |
| Exceed. | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |

Tot. N

11.81

33.71

8.57

12.6

16.67

33.71



700 West Liberty Street
Louisville Kentucky 40203-1911
502-540-6000
www.msdlouky.org

May 16, 2014

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

Re: Bypass Report for the: Berrytown WQTC- KPDES Permit: KY0036501

Dear Mr. Roth:

This plant experienced a bypass event and has been reported through our electronic notification system at approximately 01:00 PM on May 15, 2014, referencing Work Order 2161788 as a rain event discharge. This letter serves as a written report of the bypass as required by 401 KAR 5:065.

Provided below are the details of the bypass event:

- Description of the noncompliance and its cause: The #2 treatment plant experienced a bypass when a heavy rain event caused elevated water levels in plant clarifier weirs. The bypassed flow received preliminary and secondary treatment. Because of the elevated levels in the clarifiers, water flowed out of a hole in the side of the clarifier above the normal water level. Air to aeration tank was shut off prior to bypass. Approximately 2,350 gallons overflowed. This plant is designed for 0.075 MGD. The approximate total plant flow for May 15 was 0.162109 MGD.
- Period of noncompliance: Starting 08:40 AM on May 15, 2014 and stopping 04:30 PM on May 15, 2014.
- Steps taken or planned to reduce, eliminate and prevent recurrence: If operational needs for resources allow, in the event of heavy rain, MSD will haul water from the plant. Hole will be repaired.
- Additional comments: Plant is to be eliminated in 2015.

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

Sincerely,

Duane V. Wright
Process Supervisor-Operations

cc: Courtney Seitz, KDEP
Paula Purifoy, MSD
eB File





Report Selections: Period: 05/01/2014 00:00 thru 05/31/2014 23:59, treatment Plant: MSD0209 BERRYTOWN, Excluding PPI Excluding CSO Excluding LAT, Result: WUS, Act Code: DISDW, DISREV

| KPDES # | Facility ID | Water Quality Treatment Center | Receiving Stream of Treatment Center | Region |
|-----------|-------------|--------------------------------|--------------------------------------|--------|
| KY0036501 | MSD0209 | BERRYTOWN | FLOYDS FORK | CENT |

| Facility Type | Facility ID | Facility Address | If Pump Station, Name of Pump Station: | Receiving Stream | Discharge to |
|---------------------------|-------------|------------------|--|------------------|--------------|
| SPL Sewer Treatment Plant | MSD0209 | 1203 HEAFER RD | | FLOYDS FORK | STREAM |

| Activity Code / Description | WO # | Ref No | Initiated | Initiated By | Assigned To | Disch Status | Event Date | Problem | Result | Completed | Condition |
|-----------------------------|---------|--------|--------------------|--------------|-----------------------|--------------|------------|-------------------|-----------------------------------|----------------------|-----------|
| DISREV:RAIN EVENT DISCHARGE | 2161788 | | 5/15/14 8:40 am | SINGLETON | OPS BSHIFT CENTRAL | DOCUMENTED | 02/02/2011 | BYPASS AT WQTC | UNAUTHORIZED DISCHAGE - WATERS | 05/15/14 04:30 PM | |

Discharge Reporting:

| | |
|----------------------|--|
| Discharge Amount: | 2,350 GAL |
| Cause: | HOLES IN CLARIFIER |
| Clean Up: | MSD CLEANED & SANITIZED THE AREA |
| Control Zone: | TEMPORARY SIGNS POSTED |
| Impact: | SEWAGE OBSERVED |
| Repair: | SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR |
| Public Notification: | TEMPORARY SIGNS PLACED AROUND THE AFFECTED AREA |

Notifications:

| | | |
|-----------------|--------|---|
| 5/15/14 1:00 am | DISNOT | Email notification of unauthorized discharge sent to 'DischargeNotices@louisvillemad.org, Sayre.Dennis@epamail.epa.gov' |
| 5/15/14 1:00 am | DISSNO | Supplemental Email notification of unauthorized discharge has been sent to 'DischargeNotices@louisvillemad.org, Sayre.Dennis@epamail.epa.gov' |

Total Facilities Printed: 1

Total Work Orders Printed: 1