

July 15, 2014

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

Re: MSD Metro Operations McNccly Lake WQTC; KPDES No.: KY0029416 Discharge Monitoring Reports –June 2014.

Dear Ms. Cheryl Edwards:

Attached are the Discharge Monitoring Reports (DMRs) and the Monthly Operating Report (MOR) for the McNeely Lake WQTC, KPDES No.: KY0029416 for the month of June 2014.

Also attached are a bypass letter and overflow report.

There were no exceedances.

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

Sincerely,

Dune V. hright

Duane V. Wright Process Supervisor, Central region

JMK/McNeely Lake 06.14

Enclosures

cc: T. Singleton R. Shaw



DMR Copy of Record

| Permit | | | | | | | | | | | | | | | | | | | |
|---|-------------------------------|------------|---------------|---------------------------|------------|---------------------|--------------|---|------------------------|------------|----------------|-------------|-----------------|---|--------------------|------------------------|----------------|----------------------------------|----------------------------|
| Permit #: | KY0029416 | | | | Pern | nittee: | | MCNE | ELY LAKE | WQTC M | SD | | Fa | cility: | | MCNEELY | LAKE | E WQTC MSD | |
| Major: | No 001 External Outfall | | | Permittee Address: | | | | 10300 ROD N REEL RD LOUISVILLE, KY 40229 001-1 SANITARY WASTEWATER | | | | | cility Loca | tion | | | | | |
| Major. | | | | Perm | Discharge: | | | | | | | Fa | | 10300 ROD N REEL RD LOUISVILLE, KY 40229 | | | | | |
| Permitted Feature: | | | | Disc | | | | | | | | | | | | | | | |
| Report Dates & Status | | | | | Į | | | | | | | | | | | | | | |
| Monitoring Period: | From 06/01/14 | 4 to 06/30 | /14 | | DMR | R Due Date: | | 07/28/ [,] | 14 | | | | Sta | atus: | | NetDMR Va | alidat | ted | |
| Considerations for Form Complete | | | | | | | | •••=• | | | | | | | | | | | |
| considerations for Form complete | lion | | | | | | | | | | | | | | | | | | |
| Principal Executive Officer | | | | | | | | | | | | | | | | | | | |
| First Name: | Greg | | | | Title | | | Exec. I | Dir. | | | | Tel | ephone: | | 502-540-60 | 00 | | |
| Last Name: | Heitzman | | | | intic | | | 2,000 | | | | | | -priorio. | | 002 010 00 | | | |
| | Heitzman | | | | | | | | | | | | | | | | | | |
| No Data Indicator (NODI) | | | | | | | | | | | | | | | | | | | |
| Form NODI: | | | | | | | | | | | | | | | | | | | |
| Parameter | Monitoring Locati | ion Season | # Param. NODI | | Qualifian | | antity or Lo | - | Unite | Qualifiand | Value 4 | Qualifier 2 | | Concentratio | | | # of E | Ex. Frequency of Analysis | Sample Type |
| Code Name | | | | Sample | Qualifier | 1 Value 1 | Qualifier 2 | 2 Value 2 | Units | | value 1 | Qualifier | 2 Value 2 | Qualifier | 3 Value 3 | Units 19 - mg/L | | 27/30 - 27 Per Month | GR - GRAB |
| 00300 Oxygen, dissolved [DO] | 1 - Effluent Gross | 0 | | Permit Req. | | | | | | | ' 7 MINIMUI | м | | | | 0 | 0 | 01/07 - Weekly | GR - GRAB |
| | | | | Value NODI | | | | | | | | | | | | | | | |
| | | ross 0 | | Sample | | | | | | = | 6 | | | = | 7 | 12 - SU | | 22/30 - 22 Per Month | GR - GRAB |
| 00400 pH | 1 - Effluent Gross | | | Permit Req. | | | | | | >= | 6 MINIMU | М | | <= | 9 MAXIMUM | 12 - SU | 0 | 01/07 - Weekly | GR - GRAB |
| | | | | Value NODI | | 0.5 | | 17.7 | 00 lb/d | | | | 10 | | 07 | 10 m m // | | 01/07 Maakku | CP - COMPOS |
| 00530 Solids, total suspended | 1 - Effluent Gross | 0 | | Sample Permit Reg. | = | 9.5 51.3 MO AVG | = <= | 76.9 WKLY AVG | 26 - lb/d 26 - lb/d | | | = <= | 16 30 MO AVG | = <= | 27 45 WKLY AVG | 19 - mg/L 19 - mg/L | 0 | 01/07 - Weekly 01/07 - Weekly | 24 - COMP05 |
| | | | | Value NODI | - | | ~- | | 20 10/4 | | | ~ | | ~- | | io ing/E | Ū | | |
| | | | 0 | Sample | | | | | | | | = | 40 | = | 45 | 19 - mg/L | | 01/07 - Weekly | CP - COMPOS |
| 00600 Nitrogen, total | 1 - Effluent Gross | Gross 0 | | Permit Req. | q. | | | | | | | | Req Mon MO A | /G | G Req Mon WKLY AVG | 6 19 - mg/L 0 | 01/07 - Weekly | 24 - COMP24 | |
| | | | | Value NODI | 1 | | | | | | | | | | - | 1.0 11 | | | |
| 00610 Nitrogen, ammonia total [as N] | 1 - Effluent Gross | 0 | | Sample Permit Reg. | = | 0.75 6.84 MO AVG | = <= | 1.5 10.3 WKLY AVG | 26 - lb/d 26 - lb/d | | | = <= | 1 4 MO AVG | = <= | 2 6 WKLY AVG | 19 - mg/L 19 - mg/L | 0 | 01/07 - Weekly 01/07 - Weekly | CP - COMPOS 24 - COMP24 |
| ooo to hitrogen, anniona totai [as h] | 1 - Ellident Gloss | ' | 1 | | - | 0.04 100 AVG | <= | 10.5 WRET AVG | 20 - ID/U | | | <= | 4 100 AVG | <= | 0 WRET AVG | 19 - IIIg/L | 0 | 01/07 - Weekiy | 24 - COMF 24 |
| | | | | Value NODI Sample | | | | | | | | = | 5.4 | = | 6.7 | 19 - mg/L | | 01/07 - Weekly | CP - COMPOS |
| 00665 Phosphorus, total [as P] | 1 - Effluent Gross | 0 | | Permit Req. | | | | | | | | | Req Mon MO A | /G | Req Mon WKLY AVG | 6 19 - mg/L | 0 | 01/07 - Weekly | 24 - COMP24 |
| | | | | Value NODI | 1 | | | | | | | | | | | | | | |
| | 4 5 5 0 0 0 0 0 0 | 0 | | Sample | = | 0.064 | = | 0.073 | 03 - MGD | | | | | | | | 0 | 99/99 - Continuous | CN - CONTIN |
| 50050 Flow, in conduit or thru treatment plan | it T - Elliuent Gross | 0 | | Permit Req. Value NODI | - | Req Mon MO AVO | 2 | Req Mon WKLY A | VG 03 - MGD | , | | | | | | | 0 | 99/99 - Continuous | RC - Recorder (a |
| | | | | Sample | | | | | | | | < | 0.01 | < | 0.01 | 19 - mg/L | | 28/30 - 28 Per Month | GR - GRAB |
| 50060 Chlorine, total residual | 1 - Effluent Gross | 0 | | Permit Req. | | | | | | | | <= | .011 MO AVG | <= | .019 WKLY AVG | 19 - mg/L | 0 | | GR - GRAB |
| | | | | Value NODI | I | | | | | | | | | | | | | | |
| | | | | Sample | | | | | | | | < | 1 | <= | 1 | 3Z - CFU/100mL | | 01/07 - Weekly | GR - GRAB |
| 51040 E. coli | 1 - Effluent Gross | t Gross 0 | | Permit Req. | - | | | | | | | <= | 130 30DA GEO | <= | 240 7 DA GEO | 3Z - CFU/100mL | 0 | 01/07 - Weekly | GR - GRAB |
| | | | | Value NODI Sample | | 3.4 | = | 4.5 | 26 - lb/d | | | = | 6 | = | 7 | 19 - mg/L | | 01/07 - Weekly | CP - COMPOS |
| 80082 BOD, carbonaceous, 05 day, 20 C | 1 - Effluent Gross | 0 | | Permit Req. | | 25.6 MO AVG | <= | 38.5 WKLY AVG | 26 - lb/d | | | - <= | 15 MO AVG | <= | 22.5 WKLY AVG | | 0 | | 24 - COMP24 |
| , , , , , , , , , , , , , , , , , , , | | | | Value NODI | | | | | | | | | | | | 0 | | | |

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 | Туре | Size |
|-----------------------------------|------|-------|
| McNeely06162014_bypass.pdf | pdf | 20806 |
| McNeely06162014_COVER.pdf | pdf | 17333 |
| McNeely06162014_MOR.pdf | pdf | 24343 |
| 201406_McNeely_OverflowReport.pdf | pdf | 72904 |
| Report Last Saved By | | |

| MCNEELY LAK | KE WQTC MSD | | |
|-------------|------------------------------|------------|-------------------------------------|
| User: | kevin.ries@louisvillemsd.org | Date/Time: | 2014-07-24 09:45 (Time Zone: -04:00 |
| Name: | Kevin Ries | | |
| E-Mail: | kevin.ries@louisvillemsd.org | | |
| | | | |

| McNeely La Tot. Flow= | 1.92623 | Report for | Jun-14 Concenti | | Γot. Exc.= | 0 | Pounds | | | | | | |
|---------------------------------|---------|------------|---------------------------|------|------------|--------|--------|-------|-----------|------|------|------|-------|
| Date | Flow | TSS | BOD | NH3 | Ecoli | TSS | BOD | NH3 T | ot. Phos. | D.O. | p.H. | TRC | Tot.N |
| 6/1/14 | 0.077 | 18 | 7 | 2.4 | 2001 | 11.573 | 4.501 | 1.543 | 6.68 | 7.3 | 6.5 | 0.01 | 44.71 |
| 6/2/14 | 0.072 | | • | | 1 | | | | 0.00 | 7.6 | 6.2 | 0.01 | |
| 6/3/14 | 0.067 | | | | | | | | | 7.5 | 6.4 | 0.01 | |
| 6/4/14 | 0.074 | | | | | | | | | 7.9 | 6.2 | 0.01 | |
| 6/5/14 | 0.051 | | | | | | | | | 7.9 | 6 | 0.01 | |
| 6/6/14 | 0.051 | | | | | | | | | 7.6 | | 0.01 | |
| 6/7/14 | 0.036 | | | | | | | | | 7.8 | 6 | 0.01 | |
| 6/8/14 | 0.026 | 6 | 5 | 0.9 | | 1.309 | 1.091 | 0.196 | 5.19 | 8.6 | | 0.01 | 39.01 |
| 6/9/14 | 0.021 | | | | 1 | | | | | 8 | | 0.01 | |
| 6/10/14 | 0.040 | | | | | | | | | | | 0.01 | |
| 6/11/14 | 0.073 | | | | | | | | | 8.5 | 6.3 | 0.01 | |
| 6/12/14 | 0.072 | | | | | | | | | 8.1 | 6.1 | 0.01 | |
| 6/13/14 | 0.069 | | | | | | | | | 8.4 | 6.2 | 0.01 | |
| 6/14/14 | 0.068 | | | | | | | | | 8 | 6.1 | 0.01 | |
| 6/15/14 | 0.070 | | | | | | | | | 8 | 6 | 0.01 | |
| 6/16/14 | 0.070 | | | | | | | | | | | 0.01 | |
| 6/17/14 | 0.068 | 13 | 7 | 1.7 | | 7.424 | 3.997 | 0.971 | 4.5 | 7 | 6.1 | 0.01 | 38.41 |
| 6/18/14 | 0.066 | | | | 1 | | | | | 7.2 | 6.2 | 0.01 | |
| 6/19/14 | 0.062 | | | | | | | | | 8 | | 0.01 | |
| 6/20/14 | 0.046 | | | | | | | | | 8.3 | | 0.01 | |
| 6/21/14 | 0.081 | | | | | | | | | 7.1 | 6 | 0.01 | |
| 6/22/14 | 0.079 | 27 | 6 | 0.45 | | 17.695 | 3.932 | 0.295 | 5.19 | 7.4 | 6 | 0.01 | 38.81 |
| 6/23/14 | 0.073 | | | | 1 | | | | | | | 0.01 | |
| 6/24/14 | 0.064 | | | | | | | | | 7.1 | 6 | 0.01 | |
| 6/25/14 | 0.065 | | | | | | | | | 7.6 | 6.4 | 0.01 | |
| 6/26/14 | 0.067 | | | | | | | | | 7.6 | 6 | 0.01 | |
| 6/27/14 | 0.073 | | | | | | | | | 7.6 | 6 | 0.01 | |
| 6/28/14 | 0.091 | | | | | | | | | 7 | 6.6 | 0.01 | |
| 6/29/14 | 0.086 | | | | | | | | | 8 | 6.1 | 0.01 | |
| 6/30/14 | 0.070 | | | | | | | | | 7.9 | 6.1 | 0.01 | |
| 7/1/14 | | | | | | | | | | | | | |
| Average | 0.064 | 16 | 6 | 1 | 1.00 | 9.5 | 3.380 | 0.75 | 5.4 | 7.74 | 6 | 0.01 | 40.24 |
| Maximum | 0.091 | 27 | 7 | 2.4 | 1.00 | 17.7 | 4.501 | 1.5 | 6.7 | 8.60 | 7 | 0.01 | 44.71 |
| Exceed. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |



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

June 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: McNeely Lake WQTC- KPDES Permit: - KY0029416

Dear Mr. Roth:

This plant experienced a bypass event and has been reported through our electronic notification system at approximately 01:00 PM on June 16, 2014, referencing Work Order 2181192 as a dry weather 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: MSD Operator found CL2 & SO2 tank valves were not opened after tanks were changed. Tank valve issue was found at 7:10 am and valves were opened immediately. We had a pre effluent CL2 residual at 7:35 am. Wastewater received full preliminary and secondary treatment, but did not received disinfection. Approximatly 1,359 gallons of treated sewage reached the waters of the U.S.
- Period of noncompliance: Starting 07:10 AM on June 16, 2014 and stopping 07:35 AM on June 16, 2014.
- Steps taken or planned to reduce, eliminate and prevent recurrence: MSD is in the process of investigating this bypass with the parties involved to identify to cause. Pending results of the investigation, MSD may intensify training efforts with the personnel involved..
- Additional comments: No additional comments.

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, are V. Wright Duane V. Wright

Process Supervisor-Operations

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



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

Report Selections: Period: 06/01/2014 00:00 thru 06/30/2014 23:59, treatment Plant: MSD0228 MCNEELY LAKE, Excluding PPI Excluding CSO Excluding LAT, Result: WUS, Act Code: DISDW, DISREV

| KPDES # | Facility ID | | | Water Q | uality Treatem | ent Center | Recei | iving Stream o | Region | | |
|---|------------------------|---------------|--|---------------------------|---|--|---------------------------------|-------------------------------------|--|--|------------------|
| KY0029416 | 00228 | | MCNEELY | LAKE | | PENNS | YLVANIA RUN | | CENT | | |
| Facility Type | Faci | lity ID | | Facility Addres | S | If Pump St | ation, Name of Pu | mp Station: | Receiving Stream | Discha | rge to |
| SPL Sewer Treatment Plant | MSE | 0228 | | 10300 ROD N | REEL RD | | | | PENNSYLVANIA RUN | STREAM | |
| Activity Code / Description DISDW:DRY WEATHER DISCHARGE | <u>WO #</u> 2181192 | <u>Ref No</u> | <u>Initiated</u> 6/16/14 7:10 am | Initiated By SINGLETON | <u>Assigned To</u> OPS BSHIFT CENTRAL | <u>Disch Status</u> REPAIRED - ISSUE | <u>Event Date</u> 06/16/2014 | <u>Problem</u> BYPASS AT WQTC | <u>Result</u> UNAUTHORIZED DISCHAGE - WATERS | <u>Completed</u> 06/16/14 07:40 AM | <u>Condition</u> |

Discharge Reporting:

| Discharge Amount: | 1,359 GAL |
|----------------------|--------------------------------------|
| Cause: | CL2 & SO2 TANKS NOT ON. |
| Clean Up: | PIPE DSICHARGE SUBMERGED- NO CLEANUP |
| Control Zone: | PERMANENT SIGNS POSTED |
| Impact: | NO IMPACT OBSERVED |
| Repair: | TURNED TANKS ON. |
| Public Notification: | PERMANENT SIGNS POSTED |

Notifications:

| 6/12/14 1:00 am | DISNOT | Email notification of unauthorized discharge sent to 'DischargeNotices@louisvillemsd.org, Sayre.Dennis@epamail.epa.gov' |
|-----------------|--------|--|
| 6/12/14 1:00 am | DISSNO | Supplemental Email notification of unauthorized discharge has been sent to 'DischargeNotices@louisvillemsd.org, Sayre.Dennis@epamail.epa.gov' |

Total Facilities Printed: 1

Total Work Orders Printed:

1