



700 West Liberty Street | Louisville, KY 40203-1911  
Phone: 502.540.6000 | LouisvilleMSD.org

January 18, 2023

Crystal Dennis  
Permit Support Section  
Surface Water Permits Branch  
Division of Water  
200 Fair Oaks Lane 4th Floor  
Frankfort, KY 40601

Re: Morris Forman Water Quality Treatment Center  
KPDES Permit No. KY0022411

Dear Ms. Dennis:

In accordance with the provisions of the KPDES Permit referenced above, the monthly Discharge Monitoring Report (DMR) and monthly Discharge (overflow) Reports for the reporting period December 1st through December 31st, 2022, are provided through NetDMR. The Morris Forman Water Quality Treatment Center (MFWQTC) did not meet permit for 30 day BOD, 7 day BOD, 30 day TSS, 7 day TSS, TSS and BOD percent removal reporting requirements.

Compromised solids handling equipment continue to contribute to our effluent exceedances. MSD has installed dewatering services at a satellite facility. This dewatering service has reduced the solids loading to the Morris Forman plant. The emergency dryer project has completed, and improved solids handling is online.

Should you have any questions, please contact me at (502) 540-6765.

Sincerely,

James Skinner  
Treatment Facilities Manager



**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**

| Parameter |                                   | Monitoring Location                       | Field                                   | Type | Description  | Acknowledge |
|-----------|-----------------------------------|---|---|------|--|-------------|
| Code      | Name                              |   |   |      |  |             |
| 81011     | Solids, suspended percent removal | K - Percent Removal                       | Quality or Concentration Sample Value 1 | Soft | The provided sample value is outside the permit limit. <b>Please verify that the value you have provided is correct.</b> | Yes         |
| 81010     | BOD, 5-day, percent removal       | K - Percent Removal                       | Quality or Concentration Sample Value 1 | Soft | The provided sample value is outside the permit limit. <b>Please verify that the value you have provided is correct.</b> | Yes         |
| 00530     | Solids, total suspended           | E - Secondary/Biological Process Complete | Quality or Concentration Sample Value 3 | Soft | The provided sample value is outside the permit limit. <b>Please verify that the value you have provided is correct.</b> | Yes         |
| 00530     | Solids, total suspended           | E - Secondary/Biological Process Complete | Quality or Concentration Sample Value 2 | Soft | The provided sample value is outside the permit limit. <b>Please verify that the value you have provided is correct.</b> | Yes         |
| 00310     | BOD, 5-day, 20 deg. C             | E - Secondary/Biological Process Complete | Quality or Concentration Sample Value 3 | Soft | The provided sample value is outside the permit limit. <b>Please verify that the value you have provided is correct.</b> | Yes         |
| 00310     | BOD, 5-day, 20 deg. C             | E - Secondary/Biological Process Complete | Quality or Concentration Sample Value 2 | Soft | The provided sample value is outside the permit limit. <b>Please verify that the value you have provided is correct.</b> | Yes         |

**Comments****Attachments**

| Name                                 | Type | Size     |
|--------------------------------------|------|----------|
| CoverLetterDEC22.pdf                 | pdf  | 42315.0  |
| MFWQTCMOR12022.pdf                   | pdf  | 120741.0 |
| MorrisFormanDischargeReportDEC22.pdf | pdf  | 99047.0  |

**Report Last Saved By****Morris Forman WQTC MSD**

User: AJOP1117  
 Name: Amber Pauly  
 E-Mail: amber.pauly@louisvillemsd.org  
 Date/Time: 2023-01-23 13:38 (Time Zone: -05:00)

**Report Last Signed By**

User: SKINNER@LOUISVILLEMSD.ORG  
 Name: James skinner  
 E-Mail: james.skinner@louisvillemsd.org  
 Date/Time: 2023-01-23 14:01 (Time Zone: -05:00)

## DMR Copy of Record

|                    |                         |                    |  |                    |   |
|--------------------|-------------------------|--------------------|--|--------------------|---|
| <b>Permit</b>      |                         |                    |  |                    |   |
| Permit #:          | KY0022411               | Permittee:         | Morris Forman WQTC MSD                   | Facility:          | MORRIS FORMAN WQTC MSD                      |
| Major:             | Yes                     | Permittee Address: | 700 W Liberty St<br>Louisville, KY 40203 | Facility Location: | 4522 ALGONQUIN PKWY<br>LOUISVILLE, KY 40211 |
| Permitted Feature: | 001<br>External Outfall | Discharge:         | 001-B<br>SECONDARY BYPASS                |                    |   |

|                                  |                           |               |          |         |                  |
|----------------------------------|---------------------------|---------------|----------|---------|------------------|
| <b>Report Dates &amp; Status</b> |                           |               |          |         |                  |
| Monitoring Period:               | From 12/01/22 to 12/31/22 | DMR Due Date: | 01/28/23 | Status: | NetDMR Validated |

**Considerations for Form Completion**  
 MONITORING DURING PERIODS OF SECONDARY BYPASS IN ADDITION TO REGULAR MONITORING.1 - FINAL EFFLUENTF - SECONDARY BYPASS AFTER PRIMARYTREATMENT.

|                                    |         |        |                    |            |              |
|------------------------------------|---------|--------|--------------------|------------|--------------|
| <b>Principal Executive Officer</b> |         |        |                    |            |              |
| First Name:                        | James A | Title: | Executive Director | Telephone: | 502-540-6000 |
| Last Name:                         | Parrott |        |                    |            |              |

**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                    |
| 00310 | BOD, 5-day, 20 deg. C                    | 1 - Effluent Gross                       | 0        | --          | Sample              |         |                |         |                  |                          | =       | 169.0          | =       | 179.0            | 19 - mg/L | 0   | 06/30 - Six Per Month<br>WH/DS - When Discharging | CP - COMPOS<br>CP - COMPOS |
|       |  |  |          |             | Permit Req.         |         |                |         |                  |                          |         | Req Mon MO AVG |         | Req Mon MX WK AV | 19 - mg/L |   |   |                            |
|       |  |  |          |             | Value NODI          |         |                |         |                  |                          |         |                |         |                  |           |   |   |                            |
| 00310 | BOD, 5-day, 20 deg. C                    | F - Primary/Preliminary Process Complete | 0        | --          | Sample              |         |                |         |                  |                          | =       | 202.0          | =       | 233.0            | 19 - mg/L | 0   | 06/30 - Six Per Month<br>WH/DS - When Discharging | CP - COMPOS<br>CP - COMPOS |
|       |  |  |          |             | Permit Req.         |         |                |         |                  |                          |         | Req Mon MO AVG |         | Req Mon MX WK AV | 19 - mg/L |   |   |                            |
|       |  |  |          |             | Value NODI          |         |                |         |                  |                          |         |                |         |                  |           |   |   |                            |
| 00530 | Solids, total suspended                  | 1 - Effluent Gross                       | 0        | --          | Sample              |         |                |         |                  |                          | =       | 264.0          | =       | 392.0            | 19 - mg/L | 0   | 06/30 - Six Per Month<br>WH/DS - When Discharging | CP - COMPOS<br>CP - COMPOS |
|       |  |  |          |             | Permit Req.         |         |                |         |                  |                          |         | Req Mon MO AVG |         | Req Mon MX WK AV | 19 - mg/L |   |   |                            |
|       |  |  |          |             | Value NODI          |         |                |         |                  |                          |         |                |         |                  |           |   |   |                            |
| 00530 | Solids, total suspended                  | F - Primary/Preliminary Process Complete | 0        | --          | Sample              |         |                |         |                  |                          | =       | 217.0          | =       | 416.0            | 19 - mg/L | 0   | 06/30 - Six Per Month<br>WH/DS - When Discharging | CP - COMPOS<br>CP - COMPOS |
|       |  |  |          |             | Permit Req.         |         |                |         |                  |                          |         | Req Mon MO AVG |         | Req Mon MX WK AV | 19 - mg/L |   |   |                            |
|       |  |  |          |             | Value NODI          |         |                |         |                  |                          |         |                |         |                  |           |   |   |                            |
| 00610 | Nitrogen, ammonia total [as N]           | 1 - Effluent Gross                       | 0        | --          | Sample              |         |                |         |                  |                          | =       | 5.0            | =       | 6.7              | 19 - mg/L | 0   | 06/30 - Six Per Month<br>WH/DS - When Discharging | CP - COMPOS<br>CP - COMPOS |
|       |  |  |          |             | Permit Req.         |         |                |         |                  |                          |         | Req Mon MO AVG |         | Req Mon MX WK AV | 19 - mg/L |   |   |                            |
|       |  |  |          |             | Value NODI          |         |                |         |                  |                          |         |                |         |                  |           |   |   |                            |
| 00610 | Nitrogen, ammonia total [as N]           | F - Primary/Preliminary Process Complete | 0        | --          | Sample              |         |                |         |                  |                          | =       | 8.9            | =       | 10.6             | 19 - mg/L | 0   | 06/30 - Six Per Month<br>WH/DS - When Discharging | CP - COMPOS<br>CP - COMPOS |
|       |  |  |          |             | Permit Req.         |         |                |         |                  |                          |         | Req Mon MO AVG |         | Req Mon MX WK AV | 19 - mg/L |   |   |                            |
|       |  |  |          |             | Value NODI          |         |                |         |                  |                          |         |                |         |                  |           |   |   |                            |
| 50050 | Flow, in conduit or thru treatment plant | F - Primary/Preliminary Process Complete | 0        | --          | Sample              | =       | 8.6            | =       | 23.3             | 03 - MGD                 |         |                |         |                  | 0         | 06/30 - Six Per Month<br>WH/DS - When Discharging | CN - CONTIN<br>CN - CONTIN                        |                            |
|       |  |  |          |             | Permit Req.         |         | Req Mon MO AVG |         | Req Mon MX WK AV | 03 - MGD                 |         |                |         |                  |           |   |   |                            |
|       |  |  |          |             | 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**  
 No attachments.

**Report Last Saved By**  
 Morris Forman WQTC MSD

User: AJOP1117  
 Name: Amber Pauly  
 E-Mail: amber.pauly@louisvillemSD.org  
 Date/Time: 2023-01-23 13:33 (Time Zone: -05:00)

**Report Last Signed By**  
 User: SKINNER@LOUISVILLEMSD.ORG

Name: James skinner  
E-Mail: james.skinner@louisvillemsd.org  
Date/Time: 2023-01-23 14:05 (Time Zone: -05:00)

Format: Month/Day/Year  
Enter Start Date : 12/1/22

MORRIS FORMAN WATER QUALITY TREATMENT CENTER JEFFERSON COUNTY, KENTUCKY MONTH OF December-22  
KPDES PERMIT NO. KY0022411 PLANT CAPACITY 120 MGD RECEIVING STREAM-OHIO RIVER

| DATE     | WASTEWATER FLOWS (Million Gallons) |               |        | TEMP (DEGF) |       | pH  |       | SETS (ML) |       | TSS (mg/L) |       | D.O. (mg/L) | 5-DAY BOD (mg/L) |       |       | RETURN SLUDGE |         |          | AERATION BASIN |          |           |     |      | ACTIVE Sludge Wasted | Primary Sludge | CHLORINATION         |            |                         | FINAL EFFLUENT |             |             |
|----------|------------------------------------|---------------|--------|-------------|-------|-----|-------|-----------|-------|------------|-------|-------------|------------------|-------|-------|---------------|---------|----------|----------------|----------|-----------|-----|------|----------------------|----------------|----------------------|------------|-------------------------|----------------|-------------|-------------|
|          | Final Effluent                     | Sec. Effluent | Bypass | raw         | final | raw | final | raw       | final | raw        | final | final       | raw              | final | final | FLOW MG       | TSS g/L | TVSS g/L | D.O. mg/L      | MLSS g/L | MLVSS g/L | SET | SVI  | MG                   | MG             | Chlorine Dosage KLBS | Resid mg/L | Fecal Coliform #/100 ml | NH3-N mg/L     | Pump. Hours |             |
|          |                                    |               |        |             |       |     |       |           |       |            |       |             |                  |       |       |               |         |          |                |          |           |     |      |                      |                |                      |            |                         |                |             | prim. final |
| 12/1/22  | 76.72                              | 76.72         | 0.00   | 60          | 60    | 7.0 | 6.3   | 10.0      | 0.8   | 308        | 264   | 6.6         | 293              | 238   | 169   | 24.9          | 15.2    | 13.6     | 1.7            | 5.1      | 4.8       | 344 | 69   | 0.37                 | 0.27           | 7.07                 | 0.016      | 4                       | 7.4            | 0.0         |             |
| 12/2/22  | 67.97                              | 67.97         | 0.00   | 63          | 63    | 6.9 | 6.3   | 10.0      | 1.3   | 252        | 300   | 4.9         | 390              | 293   | 156   | 25.0          | 14.5    | 13.2     | 0.4            | 4.0      | 3.7       | 343 | 85   | 0.42                 | 0.31           | 10.88                | 0.016      | 100                     | 8.8            | 0.0         |             |
| 12/3/22  | 86.91                              | 86.91         | 0.00   | 65          | 65    | 7.1 | 6.3   | 9.0       | 0.8   | 252        | 240   | 6.2         | 275              | 234   | 224   | 25.3          | 15.5    | 14.1     | 2.2            | 3.5      | 3.1       | 314 | 90   | 0.00                 | 0.23           | 15.51                | 0.016      | 23                      | 4.9            | 0.0         |             |
| 12/4/22  | 63.55                              | 63.55         | 0.00   | 62          | 62    | 6.9 | 6.3   | 9.2       | 1.0   | 268        | 320   | 7.5         | 255              | 223   | 116   | 25.8          | 15.4    | 13.8     | 6.8            | 4.1      | 3.7       | 348 | 84   | 0.00                 | 0.00           | 19.19                | 0.016      | 100                     | 0.4            | 0.0         |             |
| 12/5/22  | 69.53                              | 69.53         | 0.00   | 61          | 61    | 6.8 | 6.3   | 16.0      | 0.5   | 484        | 264   | 5.4         | 359              | 269   | 85    | 25.3          | 14.3    | 12.8     | 5.5            | 3.8      | 3.4       | 387 | 103  | 0.53                 | 0.12           | 23.87                | 0.016      | 940                     | 2.8            | 0.0         |             |
| 12/6/22  | 70.21                              | 70.21         | 0.00   | 63          | 63    | 6.8 | 6.2   | 13.0      | 1.2   | 524        | 280   | 5.0         | 366              | 332   | 102   | 25.6          | 15.0    | 13.5     | 1.1            | 4.3      | 3.9       | 358 | 82   | 0.70                 | 0.32           | 26.98                | 0.016      | 12                      | 8.0            | 0.0         |             |
| 12/7/22  | 130.25                             | 106.99        | 23.26  | 62          | 62    | 6.9 | 6.2   | 9.0       | 6.5   | 304        | 392   | 5.0         | 247              | 233   | 179   | 24.9          | 15.5    | 13.8     | 4.3            | 3.6      | 3.2       | 291 | 79   | 0.66                 | 0.30           | 31.29                | 0.016      | 3700                    | 6.6            | 0.0         |             |
| 12/8/22  | 119.04                             | 115.14        | 3.90   | 62          | 62    | 6.7 | 6.5   | 5.5       | 0.4   | 268        | 169   | 5.7         | 258              | 231   | 168   | 24.2          | 15.1    | 13.3     | 6.9            | 3.2      | 2.8       | 261 | 82   | 0.38                 | 0.30           | 36.24                | 0.016      | 2400                    | 4.5            | 0.0         |             |
| 12/9/22  | 115.76                             | 115.76        | 0.00   | 61          | 61    | 7.1 | 6.2   | 7.0       | 1.5   | 213        | 187   | 5.8         | 286              | 236   | 105   | 24.2          | 18.5    | 16.1     | 3.6            | 3.6      | 3.1       | 220 | 60   | 0.55                 | 0.23           | 42.22                | 0.016      | 4                       | 4.3            | 0.0         |             |
| 12/10/22 | 98.13                              | 98.13         | 0.00   | 63          | 63    | 6.9 | 6.6   | 7.5       | 1.0   | 277        | 187   | 4.9         | 368              | 308   | 154   | 25.3          | 18.7    | 16.2     | 0.8            | 5.8      | 5.1       | 282 | 50   | 0.03                 | 0.12           | 47.50                | 0.016      | 4                       | 3.2            | 0.0         |             |
| 12/11/22 | 77.75                              | 77.75         | 0.00   | 63          | 63    | 7.0 | 6.3   | 10.0      | 0.3   | 316        | 142   | 4.9         | 369              | 257   | 124   | 25.4          | 18.9    | 16.7     | 0.8            | 8.4      | 7.5       | 350 | 42   | 0.00                 | 0.13           | 51.63                | 0.016      | 4                       | 2.1            | 0.0         |             |
| 12/12/22 | 69.21                              | 69.21         | 0.00   | 61          | 61    | 7.0 | 6.3   | 8.5       | 2.0   | 217        | 312   | 4.3         | 200              | 143   | 122   | 25.4          | 16.9    | 14.7     | 1.7            | 4.9      | 4.3       | 372 | 75   | 0.21                 | 0.07           | 55.95                | 0.016      | 212                     | 1.1            | 0.0         |             |
| 12/13/22 | 72.27                              | 72.27         | 0.00   | 64          | 64    | 6.8 | 6.1   | 12.0      | 18.0  | 347        | 535   | 4.0         | 444              | 319   | 249   | 19.5          | 16.3    | 14.3     | 1.0            | 4.5      | 4.0       | 361 | 79   | 0.32                 | 0.13           | 59.12                | 0.016      | 30500                   | 9.6            | 0.0         |             |
| 12/14/22 | 113.83                             | 108.09        | 5.74   | 62          | 62    | 6.8 | 6.3   | 6.5       | 2.3   | 227        | 250   | 3.5         | 148              | 178   | 169   | 25.1          | 16.5    | 14.7     | 9.1            | 3.2      | 2.9       | 249 | 103  | 0.61                 | 0.23           | 65.66                | 0.016      | 20                      | 8.9            | 0.0         |             |
| 12/15/22 | 149.46                             | 134.08        | 15.38  | 60          | 60    | 7.0 | 6.3   | 2.0       | 2.5   | 178        | 230   | 6.8         | 149              | 144   | 134   | 24.8          | 14.7    | 12.9     | 14.4           | 3.3      | 2.9       | 194 | 57   | 0.40                 | 0.30           | 70.46                | 0.016      | 940                     | 3.1            | 0.0         |             |
| 12/16/22 | 123.95                             | 120.60        | 3.35   | 59          | 59    | 6.9 | 6.3   | 4.5       | 0.7   | 200        | 165   | 5.1         | 279              | 206   | 128   | 24.2          | 31.5    | 27.3     | 6.9            | 3.2      | 2.7       | 220 | 69   | 0.48                 | 0.31           | 74.87                | 0.016      | 10                      | 2.6            | 0.0         |             |
| 12/17/22 | 96.02                              | 96.02         | 0.00   | 59          | 59    | 6.8 | 6.3   | 6.0       | 7.0   | 212        | 332   | 5.1         | 300              | 222   | 248   | 25.3          | 18.9    | 16.5     | 2.4            | 4.1      | 3.5       | 273 | 67   | 0.00                 | 0.29           | 78.09                | 0.016      | 7200                    | 1.1            | 0.0         |             |
| 12/18/22 | 82.68                              | 82.68         | 0.00   | 62          | 62    | 6.7 | 6.3   | 8.0       | 0.6   | 288        | 226   | 6.0         | 363              | 239   | 191   | 25.0          | 17.4    | 15.3     | 1.7            | 4.1      | 3.7       | 319 | 60   | 0.00                 | 0.16           | 81.13                | 0.016      | 40                      | 0.7            | 0.0         |             |
| 12/19/22 | 73.41                              | 73.41         | 0.00   | 59          | 59    | 7.0 | 6.2   | 10.0      | 0.2   | 312        | 140   | 5.2         | 350              | 285   | 121   | 24.7          | 16.8    | 14.6     | 1.0            | 4.6      | 4.0       | 386 | 82   | 0.30                 | 0.14           | 84.73                | 0.016      | 20                      | 1.4            | 0.0         |             |
| 12/20/22 | 69.52                              | 69.52         | 0.00   | 62          | 62    | 6.7 | 6.2   | 9.5       | 1.5   | 284        | 274   | 4.5         | 397              | 232   | 165   | 25.1          | 18.8    | 16.9     | 0.7            | 4.5      | 4.0       | 407 | 89   | 0.45                 | 0.20           | 87.73                | 0.016      | 4                       | 4.7            | 0.0         |             |
| 12/21/22 | 67.57                              | 67.57         | 0.00   | 61          | 61    | 6.8 | 6.3   | 12.0      | 0.4   | 344        | 192   | 4.5         | 545              | 327   | 160   | 25.0          | 17.2    | 15.4     | 0.5            | 5.4      | 4.8       | 384 | 72   | 0.42                 | 0.26           | 91.55                | 0.016      | 4                       | 6.8            | 0.0         |             |
| 12/22/22 | 74.50                              | 74.50         | 0.00   | 61          | 61    | 6.9 | 6.6   | 4.0       | 11.0  | 205        | 500   | 4.3         | 369              | 323   | 280   | 25.2          | 15.5    | 13.9     | 0.5            | 4.1      | 3.7       | 356 | 86   | 0.27                 | 0.26           | 95.24                | 0.016      | 4                       | 6.7            | 0.0         |             |
| 12/23/22 | 83.79                              | 83.79         | 0.00   | 44          | 44    | 7.0 | 6.2   | 8.0       | 0.5   | 177        | 214   | 4.5         | 210              | 214   | 124   | 25.0          | 16.2    | 14.7     | 6.1            | 3.2      | 2.9       | 386 | 133  | 0.00                 | 0.01           | 99.05                | 0.016      | 4                       | 4.9            | 0.0         |             |
| 12/24/22 | 71.19                              | 71.19         | 0.00   | 49          | 49    | 7.2 | 6.3   | 7.0       | 1.3   | 133        | 268   | 4.0         | 284              | 335   | 230   | 24.9          | 14.5    | 13.2     | 7.4            | 3.4      | 3.1       | 306 | 89   | 0.00                 | 0.00           | 101.57               | 0.016      | 9100                    | 4.9            | 0.0         |             |
| 12/25/22 | 68.82                              | 68.82         | 0.00   | 58          | 58    | 7.2 | 6.6   | 8.2       | 1.0   | 114        | 240   | 4.6         | 85               | 87    | 146   | 25.0          | 13.6    | 12.4     | 10.1           | 3.6      | 3.3       | 312 | 85   | 0.00                 | 0.00           | 104.55               | 0.016      | 240                     | 4.2            | 0.0         |             |
| 12/26/22 | 70.95                              | 70.95         | 0.00   | 57          | 57    | 7.1 | 6.4   | 7.5       | 0.3   | 132        | 158   | 9.1         | 110              | 100   | 81    | 24.8          | 13.3    | 11.9     | 18.7           | 3.4      | 3.1       | 300 | 86   | 0.26                 | 0.10           | 107.44               | 0.016      | 62                      | 5.7            | 0.0         |             |
| 12/27/22 | 77.00                              | 77.00         | 0.00   | 57          | 57    | 7.2 | 6.3   | 8.0       | 0.2   | 188        | 144   | 6.4         | 166              | 127   | 76    | 24.6          | 13.2    | 11.8     | 16.7           | 4.0      | 3.5       | 322 | 79   | 0.14                 | 0.09           | 110.27               | 0.016      | 242                     | 4.6            | 0.0         |             |
| 12/28/22 | 82.23                              | 82.23         | 0.00   | 59          | 59    | 6.9 | 6.4   | 7.5       | 0.5   | 236        | 209   | 6.0         | 258              | 213   | 137   | 24.4          | 13.2    | 11.6     | 12.8           | 3.5      | 3.1       | 306 | 86   | 0.40                 | 0.18           | 113.17               | 0.016      | 246                     | 7.3            | 0.0         |             |
| 12/29/22 | 87.98                              | 87.98         | 0.00   | 61          | 61    | 6.9 | 6.2   | 7.0       | 1.4   | 300        | 232   | 6.9         | 293              | 277   | 137   | 24.1          | 15.9    | 14.1     | 9.4            | 3.4      | 3.0       | 314 | 91   | 0.30                 | 0.22           | 116.54               | 0.016      | 4                       | 6.1            | 0.0         |             |
| 12/30/22 | 81.65                              | 81.65         | 0.00   | 63          | 63    | 6.8 | 6.4   | 5.0       | 3.0   | 288        | 240   | 7.0         | 372              | 335   | 30    | 23.9          | 14.8    | 13.3     | 2.9            | 6.9      | 6.3       | 368 | 56   | 0.50                 | 0.20           | 119.88               | 0.016      | 4                       | 7.0            | 0.0         |             |
| 12/31/22 | 115.70                             | 115.44        | 0.26   | 63          | 63    | 6.9 | 6.3   | 3.5       | 12.0  | 172        | 375   | 4.2         | 223              | 217   | 235   | 24.4          | 15.2    | 13.8     | 4.5            | 3.5      | 3.2       | 256 | 72   | 0.00                 | 0.07           | 124.02               | 0.016      | 5200                    | 4.5            | 0.0         |             |
| Sum      | 2707.95                            | 2658.06       | 51.89  |             |       |     |       |           |       |            |       |             |                  |       | 768.2 |               |         |          |                |          |           |     |      |                      | 8.71           | 5.55                 |            |                         |                |             | 0.0         |
| Average  | 87.35                              | 85.68         | 8.65   | 60          | 60    | 6.9 | 6.3   | 8.1       | 2.6   | 259        | 257   | 5           | 291              | 238   | 153   | 24.7          | 16.4    | 14.5     | 5.2            | 4.2      | 3.8       | 319 | 78.8 | 0.28                 | 0.18           | 69.47                | 0.016      | 73                      | 4.8            |             |             |

SEWER CONNECTIONS 148488 TIMES 4 = 583672 SEWER POPULATION IND. WASTER POPULATION EQ CUSTOMERS 405  
FLOW 238063  
BOD 649794  
TSS 310505

Authorized Agent

Certification No. 29841

MORRIS FORMAN WASTEWATER JEFFERSON COUNTY, KY

Month of Dec-22

Average Flow

| SETTLING TANKS | Primary   | Secondary |           |          |
|----------------|-----------|-----------|-----------|----------|
|                | Battery A | Battery B | Battery C |          |
| Average Fl     | 87.35     | 26.61     | 26.22     | 7.77     |
| Tanks in Se    | 4.00      | 7.0       | 8.0       | 4.0      |
| Surface Ar     | 77000.00  | 60550.00  | 69200.00  | 34582.79 |
| Volume (M      | 8.33      | 6.20      | 7.09      | 3.54     |
| Weir Leng      | 2860.00   | 2509.50   | 2868.00   | 1433.29  |
| Avg. Weir t    | 30543.09  | 10605.55  | 9143.51   | 5419.06  |
| Avg. Settler   | 1134.46   | 613.40    | 526.01    | 341.66   |
| Avg. Deten     | 2.29      | 5.59      | 6.49      | 10.95    |

AERATION TANKS

|                         | Battery A | Battery B | Battery C |
|-------------------------|-----------|-----------|-----------|
| Volume (Gallons)        | 4200000   | 4200000   | 2100000   |
| Avg. Flow (MGD)         | 37.14     | 36.40     | 11.82     |
| Avg. Detention Time (t) | 3.79      | 3.84      | 6.49      |

CHLORINE CONTACT CHAMBERS

|            |         |
|------------|---------|
| Contact Ch | 2.0     |
| Volume (G) | 2328866 |
| Avg. Deten | 1.05    |

Remarks: BY-PASS REPORTS (See Attached)



| KPDES #   | Facility ID | Water Quality Treatment Center | Receiving Stream of Discharge | Region |
|-----------|-------------|--------------------------------|-------------------------------|--------|
| KY0022411 | MSD0278     | MORRIS FORMAN                  | OHIO RIVER                    | NA     |

| Facility Type      | Facility ID | Facility Address | If Pump Station, Name of Station | Receiving Stream           | Discharge To |
|--------------------|-------------|------------------|----------------------------------|----------------------------|--------------|
| Sewer Service Line | 151384      | 701 WATERFORD RD | MORRIS FORMAN                    | MUDDY FORK BEARGRASS CREEK | GROUND       |

| Activity Code / Description  | WO #    | Ref # | Initiated on         | Initiated By | Assigned To | Dish Status               | Event Date            | Problem Desc              | Result                         | Completed         | Condition |
|------------------------------|---------|-------|----------------------|--------------|-------------|---------------------------|-----------------------|---------------------------|--------------------------------|-------------------|-----------|
| DISDW: DRY WEATHER DISCHARGE | 3586865 |       | 12/2/2022 4:40:00 PM | BIVIN        | BIVIN       | REPAIRED - ISSUE RESOLVED | 12/8/2022 12:00:00 AM | UTILITY DAMAGED MSD ASSET | UNAUTHORIZED DISCHARGE- WATERS | 12/08/22 04:45 PM | MAIN      |

**Discharge Reporting:**

|                      |  |
|----------------------|--|
| Discharge Amount:    | 5 GAL  |
| Cause:               | UTILITY DAMAGED SEWER LINE.                                  |
| Clean Up:            | MSD WILL CLEAN AND SANITIZE IMPACTED AREA.                   |
| Control Zone:        | MSD PERSONNEL ADVISED CUSTOMER TO AVOID CONTACT WITH SEWAGE. |
| Impact:              | OBSERVED SEWAGE WATER DISCHARGING FROM MSD CLEANOUT.         |
| Repair:              | MSR #3586863   |
| Public Notification: | ON SITE.   |

**Notifications:**

|                 |        |  |
|-----------------|--------|--|
| 12/3/22 1:00 AM | DISNOT | EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO: DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV |
| 12/3/22 1:00 AM | DISSNO | WAITING TO COMPLETE THE DISCHARGE INFORMATION  |





| KPDES #   | Facility ID | Water Quality Treatment Center | Receiving Stream of Discharge | Region |
|-----------|-------------|--------------------------------|-------------------------------|--------|
| KY0022411 | MSD0278     | MORRIS FORMAN                  | OHIO RIVER                    | NA     |

| Facility Type | Facility ID | Facility Address  | If Pump Station, Name of Station | Receiving Stream | Discharge To |
|---------------|-------------|-------------------|----------------------------------|------------------|--------------|
| Sewer Manhole | 28452       | 3402 CHARLANE PKY | MORRIS FORMAN                    | CHENOWETH RUN    | DITCH        |

| Activity Code / Description | WO #    | Ref # | Initiated on           | Initiated By | Assigned To | Dish Status | Event Date             | Problem Desc            | Result                        | Completed         | Condition |
|-----------------------------|---------|-------|------------------------|--------------|-------------|-------------|------------------------|-------------------------|-------------------------------|-------------------|-----------|
| DISREV:RAIN EVENT DISCHARGE | 3590840 |       | 12/14/2022 10:19:00 AM | BROWN        | BAILEY      | DOCUMENTED  | 11/30/2019 12:00:00 AM | LACK OF SYSTEM CAPACITY | UNAUTHORIZED DISCHARGE-WATERS | 12/15/22 09:15 AM | MAIN      |

**Discharge Reporting:**

|                      |   |
|----------------------|---|
| Discharge Amount:    | 3,450 GAL   |
| Cause:               | LACK OF SYSTEM CAPACITY HEAVY RAIN.   |
| Clean Up:            | DISCLN WO#3590999.  |
| Control Zone:        | BARRICADE AND CAUTION TAPE PLACED AROUND THE IMPACTED AREA.   |
| Impact:              | MANHOLE DISCHARGING.  |
| Repair:              | SYSTEM INCLUDED IN IOAP.  |
| Public Notification: | PUBLIC NOTIFIED THROUGH DOOR HANGERS AND TEMP DISCHARGE SIGNS TO AVOID CONTACT WITH DISCHARGED CONTENT. |

**Notifications:**

|                  |        |   |
|------------------|--------|---|
| 12/14/22 1:00 PM | DISNOT | EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV |
| 12/14/22 1:00 PM | DISSNO | WAITING TO COMPLETE THE DISCHARGE INFORMATION   |



| KPDES #   | Facility ID | Water Quality Treatment Center | Receiving Stream of Discharge | Region |
|-----------|-------------|--------------------------------|-------------------------------|--------|
| KY0022411 | MSD0278     | MORRIS FORMAN                  | OHIO RIVER                    | NA     |

| Facility Type | Facility ID | Facility Address  | If Pump Station, Name of Station | Receiving Stream | Discharge To |
|---------------|-------------|-------------------|----------------------------------|------------------|--------------|
| Sewer Manhole | 28453       | 3402 CHARLANE PKY | MORRIS FORMAN                    | CHENOWETH RUN    | DITCH        |

| Activity Code / Description | WO #    | Ref # | Initiated on           | Initiated By | Assigned To | Dish Status | Event Date             | Problem Desc            | Result                        | Completed         | Condition |
|-----------------------------|---------|-------|------------------------|--------------|-------------|-------------|------------------------|-------------------------|-------------------------------|-------------------|-----------|
| DISREV:RAIN EVENT DISCHARGE | 3590838 |       | 12/14/2022 10:10:00 AM | BROWN        | BAILEY      | DOCUMENTED  | 10/28/2015 12:00:00 AM | LACK OF SYSTEM CAPACITY | UNAUTHORIZED DISCHARGE-WATERS | 12/15/22 09:15 AM | MAIN      |

**Discharge Reporting:**

|                      |   |
|----------------------|---|
| Discharge Amount:    | 3,450 GAL   |
| Cause:               | LACK OF SYSTEM CAPACITY HEAVY RAIN.   |
| Clean Up:            | DISCLN WO#3591000   |
| Control Zone:        | BARRICADE AND CAUTION TAPE PLACED AROUND THE IMPACTED AREA.   |
| Impact:              | MANHOLE DISCHARGING.  |
| Repair:              | SYSTEM INCLUDED IN IOAP.  |
| Public Notification: | PUBLIC NOTIFIED THROUGH DOOR HANGERS AND TEMP DISCHARGE SIGNS TO AVOID CONTACT WITH DISCHARGED CONTENT. |

**Notifications:**

|                  |        |   |
|------------------|--------|---|
| 12/14/22 1:00 PM | DISNOT | EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV |
| 12/14/22 1:00 PM | DISSNO | WAITING TO COMPLETE THE DISCHARGE INFORMATION   |



| KPDES #   | Facility ID | Water Quality Treatment Center | Receiving Stream of Discharge | Region |
|-----------|-------------|--------------------------------|-------------------------------|--------|
| KY0022411 | MSD0278     | MORRIS FORMAN                  | OHIO RIVER                    | NA     |

| Facility Type | Facility ID | Facility Address   | If Pump Station, Name of Station | Receiving Stream            | Discharge To |
|---------------|-------------|--------------------|----------------------------------|-----------------------------|--------------|
| Sewer Manhole | 72592       | 1130 ROSTREVOR CIR | MORRIS FORMAN                    | MIDDLE FORK BEARGRASS CREEK | GROUND       |

| Activity Code / Description  | WO #    | Ref # | Initiated on           | Initiated By | Assigned To | Dish Status               | Event Date             | Problem Desc | Result                         | Completed         | Condition |
|------------------------------|---------|-------|------------------------|--------------|-------------|---------------------------|------------------------|--------------|--------------------------------|-------------------|-----------|
| DISDW: DRY WEATHER DISCHARGE | 3590230 |       | 12/12/2022 10:28:00 AM | BIVIN        | BIVIN       | REPAIRED - ISSUE RESOLVED | 12/12/2022 12:00:00 AM | ROOTS        | UNAUTHORIZED DISCHARGE- WATERS | 12/12/22 12:35 PM | MAIN      |

**Discharge Reporting:**

|                      |  |
|----------------------|--|
| Discharge Amount:    | 720 GAL  |
| Cause:               | ROOTS IN MAIN SEWER.   |
| Clean Up:            | MSD CLEANED AND SANITIZED IMPACTED AREA.                     |
| Control Zone:        | MSD PERSONNEL ADVISED CUSTOMER TO AVOID CONTACT WITH SEWAGE. |
| Impact:              | SEWAGE/WATER DISCHARGING FROM MANHOLE.                       |
| Repair:              | RC #3590287.   |
| Public Notification: | ON SITE.   |

**Notifications:**

|                  |        |   |
|------------------|--------|---|
| 12/13/22 1:00 AM | DISNOT | EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV |
| 12/13/22 1:00 AM | DISSNO | WAITING TO COMPLETE THE DISCHARGE INFORMATION   |



| KPDES #   | Facility ID | Water Quality Treatment Center | Receiving Stream of Discharge | Region |
|-----------|-------------|--------------------------------|-------------------------------|--------|
| KY0022411 | MSD0278     | MORRIS FORMAN                  | OHIO RIVER                    | NA     |

| Facility Type         | Facility ID | Facility Address   | If Pump Station, Name of Station | Receiving Stream | Discharge To |
|-----------------------|-------------|--------------------|----------------------------------|------------------|--------------|
| Sewer Treatment Plant | MSD0278     | 4522 ALGONQUIN PKY | MORRIS FORMAN                    | OHIO RIVER       | STREAM       |

| Activity Code / Description | WO #    | Ref # | Initiated on         | Initiated By | Assigned To | Dish Status               | Event Date            | Problem Desc   | Result                        | Completed         | Condition |
|-----------------------------|---------|-------|----------------------|--------------|-------------|---------------------------|-----------------------|----------------|-------------------------------|-------------------|-----------|
| DISREV:RAIN EVENT DISCHARGE | 3589685 |       | 12/7/2022 5:21:00 AM | MULLIGAN     |             | REPAIRED - ISSUE RESOLVED | 12/7/2021 12:00:00 AM | BYPASS AT WQTC | UNAUTHORIZED DISCHARGE-WATERS | 12/07/22 06:45 AM |           |

**Discharge Reporting:**

|                      |  |
|----------------------|--|
| Discharge Amount:    | 900,000 GAL  |
| Cause:               | BYPASS AT WASTEWATER TREATMENT PLANT. INCORRECT TANK READINGS ON HYPO AT BELLS LANE - RAN OUT OF CHEMICAL. |
| Clean Up:            | NA   |
| Control Zone:        | PERMANENT SIGN IN PLACE – WET WEATHER.   |
| Impact:              | DISCOLORATION IN THE STREAM.   |
| Repair:              | REPAIRED THE TANK LEVEL MONITOR, GET EMERGENCY DELIVERY OF CHEMICAL, DOSE TABS IF NEEDED.                  |
| Public Notification: | PERMANENT SIGNS.   |

**Notifications:**

|                 |        |   |
|-----------------|--------|---|
| 12/7/22 1:00 PM | DISNOT | EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV |
| 12/7/22 1:00 PM | DISSNO | WAITING TO COMPLETE THE DISCHARGE INFORMATION   |