



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

June 18, 2021

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 May 1st through May 30th 2021 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 percent removal 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. Additionally an Emergency Design Build Project for new solids handling equipment will be installed and in service in late 2021.

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

Sincerely,



James Skinner
Treatment Facilities Manager

DMR Copy of Record

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

| | | | | | |
|----------------------------------|---------------------------|---------------|----------|---------|------------------|
| Report Dates & Status | | | | | |
| Monitoring Period: | From 05/01/21 to 05/31/21 | DMR Due Date: | 06/28/21 | 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.

| | | | | | |
|------------------------------------|----------|--------|--------------------|------------|--------------|
| Principal Executive Officer | | | | | |
| First Name: | James A. | Title: | Executive Director | Telephone: | 502-540-6000 |
| Last Name: | Parrot | | | | |

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 | | | | | | = | 87.0 | = | 280.0 | 19 - mg/L | 0 | 09/30 - Nine Per Month WH/DS - When Discharging | CP - COMPOS 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 | | | | | | = | 177.0 | = | 449.0 | 19 - mg/L | 0 | 09/30 - Nine Per Month WH/DS - When Discharging | CP - COMPOS 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 | | | | | | = | 149.0 | = | 385.0 | 19 - mg/L | 0 | 09/30 - Nine Per Month WH/DS - When Discharging | CP - COMPOS 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 | | | | | | = | 126.0 | = | 362.0 | 19 - mg/L | 0 | 09/30 - Nine Per Month WH/DS - When Discharging | CP - COMPOS 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 | | | | | | = | 5.7 | = | 11.6 | 19 - mg/L | 0 | 09/30 - Nine Per Month WH/DS - When Discharging | CP - COMPOS 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 | | | | | | = | 8.6 | = | 12.8 | 19 - mg/L | 0 | 09/30 - Nine Per Month WH/DS - When Discharging | CP - COMPOS 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 | = | 32.1 | = | 54.8 | 03 - MGD | | | | | 0 | 09/30 - Nine Per Month WH/DS - When Discharging | CN - CONTIN 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: SKINNER@LOUISVILLEMSD.ORG
Name: James skinner
E-Mail: james.skinner@louisvillemsd.org
Date/Time: 2021-06-23 07:24 (Time Zone: -04:00)

Report Last Signed By
User: SKINNER@LOUISVILLEMSD.ORG

Name: James skinner
E-Mail: james.skinner@louisvillemsd.org
Date/Time: 2021-06-23 12:30 (Time Zone: -04:00)

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 | | | | | |
| 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. Please verify that the value you have provided is correct. | 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. Please verify that the value you have provided is correct. | Yes |
| 81011 | Solids, suspended percent removal | K - Percent Removal | Quality or Concentration Sample Value 1 | Soft | The provided sample value is outside the permit limit. Please verify that the value you have provided is correct. | 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. Please verify that the value you have provided is correct. | 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. Please verify that the value you have provided is correct. | 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. Please verify that the value you have provided is correct. | Yes |

Comments**Attachments**

| Name | Type | Size |
|----------------------------|------|----------|
| MFWQTCMOR052021.Pdf | pdf | 206834.0 |
| MFWQTCoverletter052021.Pdf | pdf | 52344.0 |
| OverflowReport.pdf | pdf | 96182.0 |

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

User: SKINNER@LOUISVILLEMSD.ORG
 Name: James skinner
 E-Mail: james.skinner@louisvillemsd.org
 Date/Time: 2021-06-23 07:21 (Time Zone: -04:00)

Report Last Signed By

User: SKINNER@LOUISVILLEMSD.ORG
 Name: James skinner
 E-Mail: james.skinner@louisvillemsd.org
 Date/Time: 2021-06-23 12:28 (Time Zone: -04:00)

MORRIS FORMAN WASTEWATER TREATMENT PLANT JEFFERSON COUNTY, KY

Month of May-21

Average Flow

| SETTLING TANKS | Primary | Secondary | | |
|------------------------------|----------|-----------|-----------|-----------|
| | | Battery A | Battery B | Battery C |
| Average Flow (MGD) | 104.39 | 28.90 | 32.84 | 8.53 |
| Tanks in Service | 4.00 | 7.7 | 7.9 | 4.0 |
| Surface Area (Ft.2) | 77000.00 | 66320.23 | 68735.30 | 34600.00 |
| Volume (MG) | 8.33 | 6.79 | 7.04 | 3.54 |
| Weir Length (Ft.) | 2860.00 | 2748.65 | 2848.74 | 1434.00 |
| Avg. Weir Overflow (GPD/Ft) | 36499.16 | 10514.84 | 11526.89 | 5947.11 |
| Avg. Settling Rate (GPD/Ft2) | 1355.68 | 608.89 | 622.61 | 391.20 |
| Avg. Detention Time | 1.92 | 5.64 | 5.15 | 9.97 |

AERATION TANKS

Battery A Battery B Battery C

| | | | |
|-----------------------------|---------|---------|---------|
| Volume (Gallons) | 4200000 | 4200000 | 2100000 |
| Avg. Flow (MGD) | 40.38 | 42.80 | 13.54 |
| Avg. Detention Time (Hours) | 3.49 | 3.07 | 5.91 |

CHLORINE CONTACT CHAMBERS

| | |
|-----------------------------|---------|
| Contact Chambers in Use | 2.0 |
| Volume (Gallons) | 2340000 |
| Avg. Detention Time (Hours) | 0.97 |

Remarks: BY-PASS REPORTS (See Attached)



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

| Facility Type | Facility ID | Facility Address | If Pump Station, Name of Pump Station: | Receiving Stream | Discharge to |
|------------------|-------------|----------------------|----------------------------------------|------------------|--------------|
| SMHSewer Manhole | 46812 | 7705 CIRCLE CREST RD | | GOOSE CREEK | DITCH |

| <u>Activity Code / Description</u> | <u>WO #</u> | <u>Ref No</u> | <u>Initiated</u> | <u>Initiated By</u> | <u>Assigned To</u> | <u>Disch Status</u> | <u>Event Date</u> | <u>Problem</u> | <u>Result</u> | <u>Completed</u> | <u>Condition</u> |
|------------------------------------|-------------|---------------|------------------|---------------------|---------------------|---------------------------|-------------------|---------------------------------|--------------------------------|-------------------|------------------|
| : DISDW: DRY WEATHER DISCHARGE | 3384838 | | 05/27/2021 | BIVIN | TVI WEST SUPERVISOR | REPAIRED - ISSUE RESOLVED | 05/27/2021 | OBSTRUCTION- NOT GREASE / ROOTS | UNAUTHORIZED DISCHARGE- WATERS | 05/27/21 12:32 PM | MAIN |

Discharge Reporting:

| | |
|----------------------|---------------------------------------------------------|
| Discharge Amount: | 100 GAL |
| Cause: | OBSTRUCTION IN THE MAIN SEWER RAGS. |
| Clean Up: | MSD WILL CLEAN AREA: WO#3384857. |
| Control Zone: | MSD PERSONNEL ADVISED CUSTOMER TO AVOID SEWAGE CONTACT. |
| Impact: | OBSERVED SLOW DISCHARGE FROM #MH46812. |
| Repair: | ROOT CUT MAIN FROM MH# 43380 FLUSHED MAIN AS WELL. |
| Public Notification: | TWO SIGNS PLACED IN AREA. |

Notifications:

| | | |
|-----------------|--------|-----------------------------------------------------------------------------------------------------------------------|
| 5/27/21 1:00 PM | DISNOT | EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV |
|-----------------|--------|-----------------------------------------------------------------------------------------------------------------------|



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

| | | | | | |
|----------------------|--------------------|-------------------------|-----------------------------------------------|-------------------------|---------------------|
| Facility Type | Facility ID | Facility Address | If Pump Station, Name of Pump Station: | Receiving Stream | Discharge to |
| SMHSewer Manhole | CSO035 | 200 W BROADWAY | | OHIO RIVER | GROUND |

| <u>Activity Code / Description</u> | <u>WO #</u> | <u>Ref No</u> | <u>Initiated</u> | <u>Initiated By</u> | <u>Assigned To</u> | <u>Disch Status</u> | <u>Event Date</u> | <u>Problem</u> | <u>Result</u> | <u>Completed</u> | <u>Condition</u> |
|------------------------------------|-------------|---------------|------------------|---------------------|--------------------|---------------------------|-------------------|--------------------|-------------------------------|-------------------|------------------|
| : DISDW: DRY WEATHER DISCHARGE | 3374867 | | 05/17/2021 | DODDS | MITCHELL | REPAIRED - ISSUE RESOLVED | 05/17/2021 | STRUCTURAL FAILURE | UNAUTHORIZED DISCHARGE-WATERS | 05/17/21 01:15 PM | |

Discharge Reporting:

| | |
|----------------------|------------------------------------------------------------------------------------|
| Discharge Amount: | 2,657 GAL |
| Cause: | CONTRACTOR WORKING TO REPAIR STRUCTURAL FAILURE. VACTOR DID NOT KEEP UP WITH FLOW. |
| Clean Up: | NONE POSSIBLE - CENTRAL RELIEF DRAIN. |
| Control Zone: | PERMANENT SIGNS POSTED. |
| Impact: | SEWAGE DISCHARGED TO CENTRAL RELIEF DRAIN. |
| Repair: | CONTRACTOR IS REPAIR FAILED LINE. |
| Public Notification: | WEBSIT UPDATED. |

Notifications:

| | | |
|-----------------|--------|-----------------------------------------------------------------------------------------------------------------------|
| 5/18/21 1:00 AM | DISNOT | EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV |
|-----------------|--------|-----------------------------------------------------------------------------------------------------------------------|



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

| | | | | | |
|----------------------|--------------------|-------------------------|-----------------------------------------------|----------------------------|---------------------|
| Facility Type | Facility ID | Facility Address | If Pump Station, Name of Pump Station: | Receiving Stream | Discharge to |
| SMHSewer Manhole | CSO118 | 914 E BROADWAY | | SOUTH FORK BEARGRASS CREEK | STREAM |

| <u>Activity Code / Description</u> | <u>WO #</u> | <u>Ref No</u> | <u>Initiated</u> | <u>Initiated By</u> | <u>Assigned To</u> | <u>Disch Status</u> | <u>Event Date</u> | <u>Problem</u> | <u>Result</u> | <u>Completed</u> | <u>Condition</u> |
|------------------------------------|-------------|---------------|------------------|---------------------|--------------------|---------------------------|-------------------|---------------------------|-------------------------------|-------------------|------------------|
| : DISDW: DRY WEATHER DISCHARGE | 3384105 | | 05/21/2021 | DAVIS BROWNMITCHELL | | REPAIRED - ISSUE RESOLVED | 05/21/2021 | UTILITY DAMAGED MSD ASSET | UNAUTHORIZED DISCHARGE-WATERS | 04/21/21 06:15 PM | MAIN |

Discharge Reporting:

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Discharge Amount: | 236 GAL |
| Cause: | CONTRACTORS WORKING ON REMOVING THE TRAP WORK CART IN THE SANITARY LINE, AFTER THE CART WAS REMOVED THE SURGE OF FLOW BACK OVER THE DAM. |
| Clean Up: | NO CLEAN UP PERFORMED – PIPE DISCHARGING UNDERWATER, DIRECTLY INTO THE IMPROVED CHANNEL. |
| Control Zone: | NO CONTROL ZONE WAS SET UP – PIPE DISCHARGING UNDERWATER, DIRECTLY INTO THE IMPROVED CHANNEL. |
| Impact: | RECVD LATE NOTIFICATION FROM TELOG REMOTE DISCHARGE ALARM. |
| Repair: | REPAIRS WILL BE MADE BY CONTRACTOR. |
| Public Notification: | PUBLIC NOTIFIED BY PERM DISCHARGE SIGNS POSTED ALONG THE CREEK ADVISING TO AVOID CONTACT WITH DISCHARGE CONTENT. |

Notifications:

| | | |
|-----------------|--------|-----------------------------------------------------------------------------------------------------------------------|
| 5/24/21 1:00 PM | DISNOT | EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV |
|-----------------|--------|-----------------------------------------------------------------------------------------------------------------------|



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

| | | | | | |
|----------------------|--------------------|-------------------------|-----------------------------------------------|-------------------------|---------------------|
| Facility Type | Facility ID | Facility Address | If Pump Station, Name of Pump Station: | Receiving Stream | Discharge to |
| SMHSewer Manhole | IS021A-SI | 1201 OLD CANNONS LN | | MIDDLE FORK BEARGRASS | STREAM |

| Activity Code / Description | WO # | Ref No | Initiated | Initiated By | Assigned To | Disch Status | Event Date | Problem | Result | Completed | Condition |
|--------------------------------|---------|--------|------------|---------------------|-------------|--------------|------------|----------------|-------------------------|-------------------|-----------|
| : DISREV: RAIN EVENT DISCHARGE | 3371557 | | 05/05/2021 | DAVIS BROWNMITCHELL | | DOCUMENTE D | 08/01/1969 | LACK OF SYSTEM | UNAUTHORIZED DISCHARGE- | 05/05/21 03:45 PM | |

Discharge Reporting:

| | |
|----------------------|--------------------------------------------------------------------------------------------------------|
| Discharge Amount: | 800,000 GAL |
| Cause: | LACK OF SYSTEM CAPACITY HEAVY RAIN. |
| Clean Up: | NO CLEAN UP PERFORMED – PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM. |
| Control Zone: | PERMANENT SIGN IN PLACE – NO ADDITIONAL CONTROL ZONE SET UP. |
| Impact: | NOTIFICATION RECEIVED FROM REMOTE DISCHARGE ALARM. |
| Repair: | LOCATION INCLUDED IN IOAP. |
| Public Notification: | PUBLIC NOTIFIED THROUGH PERMANENT OVER FLOW SIGNS POSTED ALONG THE CREEK, TO AVOID DISCHARGED CONTENT. |

Notifications:

| | | |
|----------------|--------|-----------------------------------------------------------------------------------------------------------------------|
| 5/5/21 1:00 PM | DISNOT | EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV |
| 5/5/21 1:00 PM | DISSNO | WAITING TO COMPLETE THE DISCHARGE INFORMATION |

Total Facilities Printed: 4

Total Work Orders Printed: 4