



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

March 19, 2020

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 February 1st to February 29th 2020 are provided through NetDMR. The Morris Forman Water Quality Treatment Center (MFWQTC) did not meet 30 day TSS, 7 day TSS, 30 day BOD, 7 day BOD, TSS and BOD percent removal for the reporting period.

Compromised solids handling equipment is contributing to our effluent exceedances. MSD has contracted with a third party for temporary dewatering services. This temporary dewatering service will reduce the solids loading to the Morris Forman plant.

Should you have any questions, please contact me at (502) 540-6793.

Sincerely,

Alex E. Novak, P.E.
Treatment Facilities Director

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:	001-1 MUNICIPAL DISCHARGE		

Report Dates & Status					
Monitoring Period:	From 02/01/20 to 02/29/20	DMR Due Date:	03/28/20	Status:	NetDMR Validated

Considerations for Form Completion
 G - INFLUENTE - SECONDARY EFFLUENT1 - FINAL EFFLUENT - Parameter 74055 - Use Season 1 for summer months (May, June, July, August, September, and October) and Season 2 for winter months (November, December, January, February March, and April); enter NODI=9 for the Season not needed.

Principal Executive Officer					
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	Units		
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample					=	2.3					19 - mg/L	0	01/01 - Daily	GR - GRAB		
					Permit Req.					>=	2.0 INST MIN					19 - mg/L		01/01 - Daily	GR - GRAB		
					Value NODI																
X 00310	BOD, 5-day, 20 deg. C	E - Secondary/Biological Process Complete	0	--	Sample	=	75509.0	=	101237.0	26 - lb/d		=	86.0	=	120.0	19 - mg/L	2	01/01 - Daily	CP - COMPOS		
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	26 - lb/d		<=	30.0 MO AVG	<=	45.0 MX WK AV	19 - mg/L		01/01 - Daily	CP - COMPOS		
					Value NODI																
00310	BOD, 5-day, 20 deg. C	G - Raw Sewage Influent	0	--	Sample	=	305276.0	=	386126.0	26 - lb/d		=	342.0	=	453.0	19 - mg/L	0	01/01 - Daily	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		01/01 - Daily	CP - COMPOS		
					Value NODI																
00400	pH	1 - Effluent Gross	0	--	Sample					=	6.3				6.6	12 - SU	0	01/01 - Daily	GR - GRAB		
					Permit Req.					>=	6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU		01/01 - Daily	GR - GRAB		
					Value NODI																
X 00530	Solids, total suspended	E - Secondary/Biological Process Complete	0	--	Sample	=	142918.0	=	182502.0	26 - lb/d		=	163.0	=	214.0	19 - mg/L	2	01/01 - Daily	CP - COMPOS		
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	26 - lb/d		<=	30.0 MO AVG	<=	45.0 MX WK AV	19 - mg/L		01/01 - Daily	CP - COMPOS		
					Value NODI																
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample	=	229147.0	=	291491.0	26 - lb/d		=	248.0	=	342.0	19 - mg/L	0	01/01 - Daily	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		01/01 - Daily	CP - COMPOS		
					Value NODI																
00610	Nitrogen, ammonia total [as N]	E - Secondary/Biological Process Complete	0	--	Sample	=	4989.0	=	5538.0	26 - lb/d		=	5.9	=	7.0	19 - mg/L	0	01/01 - Daily	CP - COMPOS		
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	26 - lb/d		<=	20.0 MO AVG	<=	30.0 MX WK AV	19 - mg/L		01/01 - Daily	CP - COMPOS		
					Value NODI																
00610	Nitrogen, ammonia total [as N]	G - Raw Sewage Influent	0	--	Sample	=	9355.0	=	10440.0	26 - lb/d		=	10.4	=	12.3	19 - mg/L	0	01/01 - Daily	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		01/01 - Daily	CP - COMPOS		
					Value NODI																
50050	Flow, in conduit or thru treatment plant	E - Secondary/Biological Process Complete	0	--	Sample	=	102.66	=	119.11	03 - MGD							0	99/99 - Continuous	CN - CONTIN		
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD								99/99 - Continuous	CN - CONTIN		
					Value NODI																
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample									<	0.016	19 - mg/L	0	01/01 - Daily	GR - GRAB		
					Permit Req.											<=		0.019 DAILY MX	19 - mg/L	01/01 - Daily	GR - GRAB
					Value NODI																
74055	Coliform, fecal general	1 - Effluent Gross	2	--	Sample							=	198.0	=	319.0	13 - #/100mL	0	01/01 - Daily	GR - GRAB		
					Permit Req.							<=	1000.0 30DA GEO	<=	2000.0 7 DA GEO	13 - #/100mL		01/01 - Daily	GR - GRAB		
					Value NODI																
X 81010	BOD, 5-day, percent removal	K - Percent Removal	0	--	Sample					=	75.0				23 - %	1	01/30 - Monthly	CA - CALCTD			
					Permit Req.						>=	85.0 MO MIN			23 - %		01/30 - Monthly	CA - CALCTD			
					Value NODI																
X 81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample					=	34.0				23 - %	1	01/30 - Monthly	CA - CALCTD			
					Permit Req.						>=	85.0 MO MIN			23 - %		01/30 - Monthly	CA - CALCTD			
					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						
Code	Parameter Name	Monitoring Location	Field	Type	Description	Acknowledge

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. (Error Code: 1)	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. (Error Code: 1)	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. (Error Code: 1)	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. (Error Code: 1)	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. (Error Code: 1)	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. (Error Code: 1)	Yes

Comments

Attachments

Name	Type	Size
MFWQTC022020MOR.pdf	pdf	501184.0
MFWQWTCoverletter032019.pdf	pdf	34971.0
DischargeReport_MorrisForman_February2020.pdf	pdf	139442.0

Report Last Saved By

Morris Forman WQTC MSD

User: kessel@louisvillemmsd.org
 Name: John Kessel
 E-Mail: kessel@louisvillemmsd.org
 Date/Time: 2020-03-26 09:45 (Time Zone: -04:00)

Report Last Signed By

User: kessel@louisvillemmsd.org
 Name: John Kessel
 E-Mail: kessel@louisvillemmsd.org
 Date/Time: 2020-03-26 09:45 (Time Zone: -04:00)

DMR Copy of Record

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

Report Dates & Status

Monitoring Period:	From 02/01/20 to 02/29/20	DMR Due Date:	03/28/20	Status:	NetDMR Validated
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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:	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	Units	
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample						=	132.0	=	213.0	19 - mg/L	13/30 - 13 Per Month WH/DS - When Discharging	CP - COMPOS CP - COMPOS			
					Permit Req.										Req Mon MO AVG			Req Mon MX WK AV	19 - mg/L 0	
					Value NODI															
00310	BOD, 5-day, 20 deg. C	F - Primary/Preliminary Process Complete	0	--	Sample						=	205.0	=	301.0	19 - mg/L	13/30 - 13 Per Month WH/DS - When Discharging	CP - COMPOS CP - COMPOS			
					Permit Req.													Req Mon MO AVG	Req Mon MX WK AV	19 - mg/L 0
					Value NODI															
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample						=	211.0	=	351.0	19 - mg/L	13/30 - 13 Per Month WH/DS - When Discharging	CP - COMPOS CP - COMPOS			
					Permit Req.													Req Mon MO AVG	Req Mon MX WK AV	19 - mg/L 0
					Value NODI															
00530	Solids, total suspended	F - Primary/Preliminary Process Complete	0	--	Sample						=	103.0	=	148.0	19 - mg/L	13/30 - 13 Per Month WH/DS - When Discharging	CP - COMPOS CP - COMPOS			
					Permit Req.													Req Mon MO AVG	Req Mon MX WK AV	19 - mg/L 0
					Value NODI															
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	0	--	Sample						=	7.3	=	8.6	19 - mg/L	13/30 - 13 Per Month WH/DS - When Discharging	CP - COMPOS CP - COMPOS			
					Permit Req.													Req Mon MO AVG	Req Mon MX WK AV	19 - mg/L 0
					Value NODI															
00610	Nitrogen, ammonia total [as N]	F - Primary/Preliminary Process Complete	0	--	Sample						=	10.4	=	13.7	19 - mg/L	13/30 - 13 Per Month WH/DS - When Discharging	CP - COMPOS CP - COMPOS			
					Permit Req.													Req Mon MO AVG	Req Mon MX WK AV	19 - mg/L 0
					Value NODI															
50050	Flow, in conduit or thru treatment plant	F - Primary/Preliminary Process Complete	0	--	Sample	=	27.7	=	42.3	03 - MGD						13/30 - 13 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: kessel@louisvillemsd.org
 Name: John Kessel
 E-Mail: kessel@louisvillemsd.org
 Date/Time: 2020-03-26 09:45 (Time Zone: -04:00)

Report Last Signed By

User: kessel@louisvillemsd.org
 Name: John Kessel
 E-Mail: kessel@louisvillemsd.org
 Date/Time: 2020-03-26 09:45 (Time Zone: -04:00)



KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0022411	MSD0278	MORRIS FORMAN	OHIO RIVER	WEST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	02933	7900 SHELBYVILLE RD		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	3208940		02/12/2020	DAVIS BROWNMITCHELL		DOCUMENTE D	03/04/2008	LACK OF SYSTEM CAPAC	UNAUTHORIZED DISCHARGE-WATER AM	02/13/20 10:00	MAIN

Discharge Reporting:

Discharge Amount:	54,000 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	WO#3209002.
Control Zone:	TEMP DISCHARGE SIGNS PLACED AROUND THE IMPACTED AREA.
Impact:	MANHOLE DISCHARGING.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH PERMANENT OVERFLOW ADVISORY SIGNS POSTED ALONG THE CREEK, TO AVOID CONTACT WITH DISCHARGED CONTENT.

Notifications:

2/13/20 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0022411	MSD0278	MORRIS FORMAN	OHIO RIVER	WEST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	08935-SM	1001 BRECKENRIDGE 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	3208942		02/12/2020	DAVIS BROWNMITCHELL		DOCUMENTE D	11/29/2001	LACK OF SYSTEM CAPAC	UNAUTHORIZED DISCHARGE-WATER	02/13/20 03:47 PM	MAIN

Discharge Reporting:

Discharge Amount:	670,000 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	NO CLEANUP REQUIRED PIPES DISCHARGE UNDERWATER, DIRECTLY INTO CREEK.
Control Zone:	CONTROL ZONE WAS NOT ESTABLISHED. UNDERGROUD PIPE DISCHARGES DIRECTLY TO STREAM.
Impact:	NOTIFICATION RECEIVED FROM REMOTE DISCHARGE ALARM.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH PERMANENT OVERFLOW ADVISORY SIGNS POSTED ALONG THE CREEK, TO AVOID CONTACT WITH DISCHARGED CONTENT.

Notifications:

2/13/20 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
2/13/20 1:00 PM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0022411	MSD0278	MORRIS FORMAN	OHIO RIVER	WEST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	28336	9707 WILLOWWOOD WAY		CHENOWETH RUN	DITCH

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	3208947		02/12/2020	DAVIS BROWNMITCHELL		DOCUMENTE D	08/30/2005	LACK OF SYSTEM CAPAC	UNAUTHORIZED DISCHARGE-WATER	02/13/20 08:50 AM	MAIN

Discharge Reporting:

Discharge Amount:	16,875 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	WO#3208987.
Control Zone:	TEMPORARY DISCHARGE SIGNS AND BARRICADE PLACED AROUND THE IMPACTED AREA.
Impact:	MANHOLE DISCHARGING.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH TEMP SIGNS AT DISCHARGE SITE TO AVOID CONTACT WITH DISCHARGED CONTENT.

Notifications:

2/13/20 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0022411	MSD0278	MORRIS FORMAN	OHIO RIVER	WEST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	28340	3620 CHARLANE PKY		CHENOWETH RUN	GROUND

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	3208948		02/12/2020	DAVIS BROWNMITCHELL		DOCUMENTE D	01/03/2005	LACK OF SYSTEM CAPAC	UNAUTHORIZED DISCHARGE-WATER	02/13/20 08:45 AM	MAIN

Discharge Reporting:

Discharge Amount:	16,250 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	WO#3208986.
Control Zone:	TEMPORARY DISCHARGE SIGNS PLACED AROUND THE IMPACTED AREA.
Impact:	MANHOLE DISCHARGING.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH TEMP SIGNS AT DISCHARGE SITE TO AVOID CONTACT WITH DISCHARGED CONTENT.

Notifications:

2/13/20 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0022411	MSD0278	MORRIS FORMAN	OHIO RIVER	WEST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	28413	3317 DELL RD		CHENOWETH RUN	GROUND

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	3208944		02/12/2020	DAVIS BROWNMITCHELL		DOCUMENTE D	03/20/2002	LACK OF SYSTEM CAPAC	UNAUTHORIZED DISCHARGE-WATER	02/13/20 08:20 AM	MAIN

Discharge Reporting:

Discharge Amount:	16,875 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	WO#3208991.
Control Zone:	CAUTION TAPE, TEMPORARY DISCHARGE SIGNS, AND BARRICADE PLACED AROUND THE IMPACTED.
Impact:	MANHOLE DISCHARGING.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH TEMP SIGNS AT DISCHARGE SITE AND DOOR HANGERS TO AVOID CONTACT WITH DISCHARGED CONTENT.

Notifications:

2/13/20 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0022411	MSD0278	MORRIS FORMAN	OHIO RIVER	WEST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	28415	3406 DELL RD		CHENOWETH RUN	GROUND

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	3208943		02/12/2020	DAVIS BROWNMITCHELL		DOCUMENTE D	12/19/2002	LACK OF SYSTEM CAPAC	UNAUTHORIZED DISCHARGE-WATER	02/13/20 08:15 AM	MAIN

Discharge Reporting:

Discharge Amount:	33,750 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	WO#3208993.
Control Zone:	CAUTION TAPE, TEMPORARY DISCHARGE SIGNS, AND BARRICADE PLACED AROUND THE IMPACTED.
Impact:	MANHOLE DISCHARGING.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH TEMP SIGNS AT DISCHARGE SITE AND DOOR HANGERS TO AVOID CONTACT WITH DISCHARGED CONTENT.

Notifications:

2/13/20 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0022411	MSD0278	MORRIS FORMAN	OHIO RIVER	WEST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	28451	3406 CHARLANE PKY		CHENOWETH RUN	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>
: DISREV: RAIN EVENT DISCHARGE	3208946		02/12/2020	DAVIS BROWNMITCHELL		DOCUMENTE D	10/28/2015	LACK OF SYSTEM CAPAC	UNAUTHORIZED DISCHARGE-WATER	02/13/20 08:36 AM	MAIN

Discharge Reporting:

Discharge Amount:	16,875 GAL
Cause:	LACK OF SYSTEM CAPACTIY HEAVY RAIN.
Clean Up:	WO#3208988.
Control Zone:	CAUTION TAPE, TEMPORARY DISCHARGE SIGNS, AND BARRICADE PLACED AROUND THE IMPACTED.
Impact:	MANHOLE DISCHARGING.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC NOTFIED THROUGH TEMP SIGNS AT DISCHARGE SITE AND DOOR HANGERS TO AVOID CONTACT WITH DISCHARGED CONTENT.

Notifications:

2/13/20 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0022411	MSD0278	MORRIS FORMAN	OHIO RIVER	WEST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	28453	3402 CHARLANE PKY		CHENOWETH RUN	DITCH

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	3208997		02/12/2020	DAVIS BROWNMITCHELL		DOCUMENTE D	10/28/2015	LACK OF SYSTEM CAPAC	UNAUTHORIZED DISCHARGE-WATER	02/13/20 08:30 AM	MAIN

Discharge Reporting:

Discharge Amount:	33,750 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	WO#3208998.
Control Zone:	CAUTION TAPE, TEMPORARY DISCHARGE SIGNS, AND BARRICADE PLACED AROUND THE IMPACTED.
Impact:	MANHOLE DISCHARGING.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH TEMP SIGNS AT DISCHARGE SITE AND DOOR HANGERS TO AVOID CONTACT WITH DISCHARGED CONTENT.

Notifications:

2/13/20 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0022411	MSD0278	MORRIS FORMAN	OHIO RIVER	WEST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	30213	1677 STORY AVE		SOUTH FORK BEARGRASS CREEK	CATCH BASIN

<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>
: DISREV: RAIN EVENT DISCHARGE	3209530		02/14/2020	MORRISON	LINTON	LIMITED CAPACITY DUE TO FLOOD OPERATIONS	02/18/2020	PUMPED OVERFLOW	UNAUTHORIZED DISCHARGE- WATERS	02/18/20 01:14 AM	

Discharge Reporting:

Discharge Amount:	2,000 GAL
Cause:	THE BEARGRASS FLOOD PUMPING STATION WAS IN SERVICE AND GATE 6 WAS CLOSED.
Clean Up:	NONE REQUIRED. FLOW MADE IT TO THE WET WELL OF BEARGRASS CREEK FLOOD PUMP STATION AND WAS PUMPED TO THE RIVER.
Control Zone:	WATER WAS BEING PUMPED TO THE BEARGRASS CREEK FLOOD PUMP STATION WET WELL.
Impact:	WATER WAS BEING PUMPED TO THE BEARGRASS CREEK FLOOD PUMP STATION WET WELL.
Repair:	WE WILL OPEN GATE 6 WHEN THE RIVER RECEDES TO 24.6 FT AND ALLOW FLOW TO TRAVEL ON TO THE TREATMENT PLANT.
Public Notification:	MSD ADVISED CUSTOMERS, PERMANENT OVERFLOW ADVISORY SIGNS POSTED ALONG STREAM.

Notifications:

2/17/20 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
2/17/20 1:00 PM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION



KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0022411	MSD0278	MORRIS FORMAN	OHIO RIVER	WEST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	45796	1011 ALTA CIR		MIDDLE FORK BEARGRASS	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>
: DISREV: RAIN EVENT DISCHARGE	3208937		02/12/2020	DAVIS BROWNMITCHELL		DOCUMENTE D	05/10/2014	LACK OF SYSTEM CAPAC	UNAUTHORIZED DISCHARGE-WATER	02/13/20 01:20 PM	MAIN

Discharge Reporting:

Discharge Amount:	192,000 GAL
Cause:	LACK OF SYSTEM CAPACITY HEAVY RAIN.
Clean Up:	WO#3209004.
Control Zone:	UNABLE TO ACCESS DISCHARGE SITE DUE TO FLOODING.
Impact:	MANHOLE DISCHARGING.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH PERMANENT OVERFLOW ADVISORY SIGNS POSTED ALONG THE CREEK, TO AVOID CONTACT WITH DISCHARGED CONTENT.

Notifications:

2/13/20 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
2/13/20 1:00 PM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0022411	MSD0278	MORRIS FORMAN	OHIO RIVER	WEST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	47582	201 BULLITT 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	3208939		02/12/2020	DAVIS BROWNMITCHELL		DOCUMENTE D	12/05/2011	LACK OF SYSTEM CAPAC	UNAUTHORIZED DISCHARGE-WATER	02/13/20 09:50 AM	MAIN

Discharge Reporting:

Discharge Amount:	54,000 GAL
Cause:	LACK OF SYSTEM CAPACTIY HEAVY RAIN.
Clean Up:	WO#3209005.
Control Zone:	UNABLE TO ACCESS DISCHARGE SITE.
Impact:	MANHOLE DISCHARGING.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH PERMANENT OVERFLOW ADVISORY SIGNS POSTED ALONG THE CREEK, TO AVOID CONTACT WITH DISCHARGED CONTENT.

Notifications:

2/13/20 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0022411	MSD0278	MORRIS FORMAN	OHIO RIVER	WEST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	47583	202 OXMOOR 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	3208938		02/12/2020	DAVIS BROWNMITCHELL		DOCUMENTE D	02/06/2008	LACK OF SYSTEM CAPAC	UNAUTHORIZED DISCHARGE-WATER	02/13/20 09:50 AM	MAIN

Discharge Reporting:

Discharge Amount:	54,000 GAL
Cause:	LACK OF SYSTEM CAPACTIY HEAVY RAIN.
Clean Up:	WO#3209006.
Control Zone:	UNABLE TO ACCESS DISCHARGE SITE.
Impact:	MANHOLE DISCHARGING.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH PERMANENT OVERFLOW ADVISORY SIGNS POSTED ALONG THE CREEK, TO AVOID CONTACT WITH DISCHARGED CONTENT.

Notifications:

2/13/20 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0022411	MSD0278	MORRIS FORMAN	OHIO RIVER	WEST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	84155	7913 SHELBYVILLE RD		MIDDLE FORK BEARGRASS	GROUND

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	3208941		02/12/2020	DAVIS BROWNMITCHELL		DOCUMENTE D	03/10/2011	LACK OF SYSTEM CAPAC	UNAUTHORIZED DISCHARGE-WATER	02/13/20 10:55 AM	MAIN

Discharge Reporting:

Discharge Amount:	54,000 GAL
Cause:	LACK OF SYSTEM CAPACTIY HEAVY RAIN.
Clean Up:	WO#3209008.
Control Zone:	BARRICADES, CAUTION TAPE & TEMP DISCHARGE SIGNS PLACED AROUND THE IMPACTED AREA.
Impact:	MANHOLE DISCHARGING.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH PERMANENT OVERFLOW ADVISORY SIGNS POSTED ALONG THE CREEK, TO AVOID CONTACT WITH DISCHARGED CONTENT.

Notifications:

2/13/20 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
2/13/20 1:00 PM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0022411	MSD0278	MORRIS FORMAN	OHIO RIVER	WEST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	CSO034	801 S 4TH ST		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	3209394		02/14/2020	DAVIS BROWN	MITCHELL	REPAIRED - ISSUE RESOLVED	02/17/2020	OBSTRUCTION- NOT GREASE / ROOTS	UNAUTHORIZED DISCHARGE- WATERS	02/17/20 01:15 PM	

Discharge Reporting:

Discharge Amount:	15,430 GAL
Cause:	OBSTRUCTION IN THE MAIN.
Clean Up:	NOT REQUIRED, DISC PIPE IS DISCHARGING TO CENTRAL RELIEF DRAIN.
Control Zone:	NO CONTROL ZONE SET UP - UNDERGROUND PIPE DISCHARGING TO CENTRAL RELIEF DRAIN.
Impact:	NONE OBSERVED OVER FLOW NOTIFICATION RECEIVED FROM REMOTE DISCHARGE ALARM.
Repair:	NONE AT THIS TIME. FURTHER INVESTIGATION REQUIRED.
Public Notification:	PUBLIC NOTIFICATION THROUGH PERMANENT OVERFLOW ADVISORY SIGNS POSTED ALONG THE OUTFALL POINT.

Notifications:

2/15/20 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
2/15/20 1:00 AM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION



KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0022411	MSD0278	MORRIS FORMAN	OHIO RIVER	WEST

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	3208936		02/12/2020	DAVIS BROWNMITCHELL		DOCUMENTE D	08/01/1969	LACK OF SYSTEM CAPAC	UNAUTHORIZED DISCHARGE-WATER	02/14/20 04:15 AM	MAIN

Discharge Reporting:

Discharge Amount:	6,000,000 GAL
Cause:	LACK OF SYSTEM CAPACTIY HEAVY RAIN.
Clean Up:	CLEAN UP NOT REQUIRED, IT IS A REMOTE LOCATION WITH LACK OF PUBLIC ACCESS.
Control Zone:	NOTIFICATION RECEIVED FROM REMOTE DISCHARGE ALARM.
Impact:	NOTIFICATION RECEIVED FROM REMOTE DISCHARGE ALARM.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC NOTIFIED THROUGH PERMANENT OVERFLOW ADVISORY SIGNS POSTED ALONG THE CREEK, TO AVOID CONTACT WITH DISCHARGED CONTENT.

Notifications:

2/13/20 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
2/13/20 1:00 PM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0022411	MSD0278	MORRIS FORMAN	OHIO RIVER	WEST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SLSSewer Lift Station	MSD0123-PS	6600 SEMINARY WOODS PL	WEST GOOSE CREEK	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	3211399		02/19/2020	ROTTET JR	PEDRO JR	REPAIRED - ISSUE RESOLVED	02/19/2020	STRUCTURAL FAILURE	UNAUTHORIZED DISCHARGE-WATERS	02/19/20 07:30 PM	

Discharge Reporting:

Discharge Amount:	39,000 GAL
Cause:	BROKEN PIPE FITTING TO AIR RELIEF VALVE ON FORCE MAIN.
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED IMPACTED AREA.
Control Zone:	TEMPORARY SIGNS PLACED AROUND IMPACTED AREA.
Impact:	SEWAGE/PERSONAL HYGIENE PRODUCTS FOUND IN THE STREAM.
Repair:	SHUT OFF ALL PUMP STATIONS FEEDING FORCE MAIN TO ALLOW REPAIRS TO BE MADE.
Public Notification:	TEMPORARY SIGNS PLACED AROUND IMPACTED AREA, PAGE SENT OUT TO UPDATE MSDNET.

Notifications:

2/20/20 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0022411	MSD0278	MORRIS FORMAN	OHIO RIVER	WEST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SLSSewer Lift Station	MSD1017-PS	420 W RIVER RD	BELVEDERE	OHIO RIVER	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>
: DISREV: RAIN EVENT DISCHARGE	3209138		02/14/2020	CATALANO JR	BRAZEL	LIMITED CAPACITY DUE TO FLOOD OPERATIONS	02/14/2020	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE-WATERS	02/19/20 08:20 AM	

Discharge Reporting:

Discharge Amount:	9,999 GAL
Cause:	LACK OF SYSTEM CAPACITY - HEAVY RAIN.
Clean Up:	CLEANUP NOT POSSIBLE DUE TO ELEVATED CREEK LEVEL.
Control Zone:	PERMANENT SIGN IN PLACE – NO ADDITIONAL CONTROL ZONE SET UP.
Impact:	NO IMPACT OBSERVED - FACILITY UNDER ELEVATED CREEK LEVEL.
Repair:	CLEANUP NOT POSSIBLE DUE TO ELEVATED CREEK LEVEL.
Public Notification:	PERMANENT SIGN IN PLACE – NO ADDITIONAL CONTROL ZONE SET UP.

Notifications:

2/14/20 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
2/14/20 1:00 PM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

Total Facilities Printed: 17

Total Work Orders Printed: 17

Format: Month/Day/Year
 Enter Start Date : 2/1/20

MORRIS FORMAN WATER QUALITY TREATMENT CENTER JEFFERSON COUNTY, KENTUCKY MONTH OF February-20
 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		CHLORINATION			FINAL EFFLUENT		
	Final Effluent	Sec. Effluent	Bypass	raw	final	raw	final	raw	final	raw	final	final	raw	prim.	final	final	FLOW MG	TSS g/L	TVSS g/L	D.O. mg/L	MLSS g/L	MLVSS g/L	SET	SVI	Sludge Wasted MG	Primary Sludge MG	Chlorine Dosage KLBS	Resid mg/L	Fecal Coliform #/100 ml	NH3-N mg/L	Pump. Hours
2/1/20	84.97	84.97	0.00	58	58	7.2	6.4	16.0	0.2	380	93	5.4	587	342	81	22.5	20.0	17.4	4.0	13.5	11.8	253	19	0.29	0.16	3.60	0.016	56	6.1	7.4	
2/2/20	80.32	80.32	0.00	59	59	7.0	6.3	15.2	0.1	396	74	5.7	433	236	63	22.7	21.8	18.9	2.4	4.0	3.4	294	74	0.29	0.14	3.05	0.016	34	2.0	0.0	
2/3/20	81.72	81.72	0.00	62	62	7.1	6.4	17.8	0.9	437	160	6.3	533	317	102	22.8	20.7	18.0	3.1	4.6	4.0	310	66	0.52	0.28	2.80	0.016	67	5.5	0.0	
2/4/20	128.45	103.28	25.17	63	63	6.8	6.4	30.0	29.5	410	707	5.5	442	372	400	22.5	21.3	18.5	1.2	4.2	3.6	309	74	0.52	0.28	5.51	0.016	760	11.8	0.0	
2/5/20	136.32	117.33	18.99	57	57	7.1	6.3	11.9	3.5	290	237	4.7	404	293	174	22.4	21.1	18.2	4.1	3.3	2.8	200	60	0.70	0.27	5.07	0.016	127	6.6	0.0	
2/6/20	114.74	113.52	1.22	55	55	7.1	6.6	8.3	0.2	254	108	6.3	339	238	64	22.6	20.1	17.2	6.5	3.1	2.6	189	59	0.48	0.29	4.56	0.016	64	7.3	10.7	
2/7/20	104.95	104.95	0.00	58	58	7.2	6.5	10.5	0.1	224	80	5.6	430	310	95	22.6	20.8	18.1	6.4	4.0	3.4	233	58	0.43	0.31	3.56	0.016	700	6.7	24.0	
2/8/20	94.22	94.22	0.00	56	56	7.0	6.3	8.5	1.5	218	168	3.7	473	304	109	22.9	19.6	17.1	5.7	3.8	3.3	274	71	0.00	0.14	3.62	0.016	700	2.5	24.0	
2/9/20	100.46	100.46	0.00	56	56	7.2	6.4	10.6	8.3	240	323	5.3	350	232	198	22.8	20.0	17.6	10.2	3.8	3.3	269	70	0.14	0.14	4.31	0.016	580	2.7	24.0	
2/10/20	148.82	124.66	24.16	58	58	7.1	6.5	9.0	3.8	216	277	2.3	267	211	181	22.4	18.8	16.4	11.0	3.0	2.6	203	67	0.59	0.30	4.79	0.016	380	6.5	24.0	
2/11/20	168.77	130.12	38.65	55	55	7.2	6.5	7.8	0.9	186	158	4.5	209	157	106	22.3	18.7	16.3	16.5	2.7	2.3	190	71	0.60	0.32	4.23	0.016	99	7.1	24.0	
2/12/20	157.41	125.94	31.47	55	55	7.1	6.6	8.1	0.5	206	122	5.7	200	154	78	22.5	18.8	16.4	13.7	2.6	2.3	187	70	0.38	0.22	3.45	0.016	900	7.1	24.0	
2/13/20	209.12	130.14	78.98	52	52	7.3	6.6	2.0	1.6	112	160	6.8	150	167	108	22.4	17.8	15.3	18.4	2.4	2.1	170	68	0.81	0.34	5.05	0.016	30	4.7	24.0	
2/14/20	166.54	128.21	38.33	54	54	7.4	6.5	3.5	0.4	136	84	6.6	205	173	76	22.4	17.4	15.4	17.7	2.6	2.3	158	63	0.38	0.26	4.38	0.016	820	5.3	24.0	
2/15/20	129.61	122.42	7.19	54	54	7.3	6.5	5.0	0.3	152	124	5.9	120	104	70	22.5	18.3	15.7	18.2	2.5	2.2	201	79	0.09	0.14	3.09	0.016	4	4.0	24.0	
2/16/20	111.82	111.82	0.00	56	56	7.3	6.4	41.0	0.1	146	77	5.8	203	149	47	22.5	18.8	16.1	16.2	3.0	2.6	189	61	0.14	0.15	2.68	0.016	860	3.1	24.0	
2/17/20	108.81	108.81	0.00	57	57	7.4	6.4	17.6	0.3	218	85	6.5	218	150	61	22.3	19.1	16.6	15.1	3.2	2.8	222	68	0.35	0.43	2.60	0.016	339	6.3	24.0	
2/18/20	139.87	121.32	18.55	58	58	7.1	6.6	20.5	3.4	214	190	5.9	257	187	126	22.4	17.2	14.7	14.9	2.7	2.3	192	71	0.62	0.46	3.74	0.016	2600	8.4	24.0	
2/19/20	96.41	96.41	0.00	55	55	7.3	6.6	26.0	0.6	216	116	5.7	348	278	66	22.8	16.7	14.2	10.0	4.5	3.8	233	52	0.54	0.32	3.30	0.016	104	7.4	24.0	
2/20/20	89.65	89.65	0.00	57	57	7.1	6.6	8.5	0.2	230	120	6.5	432	263	71	23.3	16.6	14.2	7.1	3.3	2.9	272	82	0.57	0.32	2.41	0.016	225	8.0	24.0	
2/21/20	78.17	78.17	0.00	56	56	7.2	6.4	8.2	0.1	252	92	6.3	422	280	59	23.5	16.1	14.0	6.4	4.2	3.6	364	89	0.54	0.32	2.11	0.016	400	8.5	24.0	
2/22/20	71.77	71.77	0.00	57	57	7.1	6.6	9.8	0.5	254	168	6.8	435	331	103	23.7	15.8	13.9	3.5	5.5	4.7	406	73	0.34	0.11	2.28	0.016	177	4.9	24.0	
2/23/20	70.47	70.47	0.00	60	60	7.1	6.4	12.0	10.5	280	313	6.5	343	231	192	24.1	18.0	15.7	8.7	10.0	8.8	419	42	0.07	0.03	2.73	0.016	14	2.9	24.0	
2/24/20	138.92	105.46	33.46	58	58	6.9	6.3	15.1	16.2	524	372	5.1	388	188	208	23.5	16.0	14.1	14.6	3.7	3.3	341	93	1.25	0.35	3.78	0.016	960	10.6	10.6	
2/25/20	172.19	129.22	42.97	61	61	7.2	6.5	6.1	0.7	176	168	7.2	239	181	92	24.5	14.3	12.4	21.0	5.4	4.6	139	44	0.94	0.36	3.57	0.016	820	7.0	0.0	
2/26/20	105.06	103.51	1.55	58	58	7.1	6.5	9.9	0.1	248	42	6.0	362	236	32	25.2	14.6	12.5	8.6	3.4	2.8	263	78	0.83	0.38	3.09	0.016	120	8.0	0.0	
2/27/20	86.90	86.90	0.00	56	56	7.1	6.5	7.9	0.1	200	19	5.3	342	244	19	24.9	15.0	13.1	10.6	3.6	3.1	293	82	0.80	0.43	1.86	0.016	74	7.3	0.0	
2/28/20	81.91	81.91	0.00	56	56	7.2	6.4	7.0	0.1	163	27	5.3	286	220	23	24.9	15.3	13.5	11.2	5.4	4.8	314	59	0.38	0.34	1.69	0.016	400	8.5	9.9	
2/29/20	79.55	79.55	0.00	57	57	7.3	6.4	9.0	0.1	211	51	6.4	514	351	32	25.0	15.1	13.2	4.1	3.6	3.2	384	106	0.28	0.19	1.92	0.016	110	5.8	24.0	
Sum	3337.92	2977.23	360.69													0.0								13.86	7.77					470.3	
Average	115.10	102.66	27.75	57	57	7.2	6.5	12.5	2.9	248	163	5.7	342	238	105	23.1	18.1	15.7	10.0	4.2	3.6	258	68	0.48	0.27	3.41	0.016	198	6.3		

SEWER CONNECTIONS 147769 TIMES 4 = 591076 SEWER POPULATION IND. WASTER POPULATION EQ
 CUSTOMERS 379
 FLOW 505121
 BOD 1342628
 TSS 542094

Authorized Agent

Certification No. 26893

MORRIS FORMAN WASTEWATER TREATMENT PLANT JEFFERSON COUNTY, KY

Month of Feb-20

Average Flow

SETTLING TANKS	Primary	Secondary		
		Battery A	Battery B	Battery C
Average Flow (MGD)	115.10	30.57	37.73	11.76
Tanks in Service	4.00	7.0	8.0	4.0
Surface Area (Ft.2)	77000.00	43150.52	69200.00	34600.00
Volume (MG)	8.33	4.42	7.09	3.54
Weir Length (Ft.)	2860.00	1788.38	2868.00	1434.00
Avg. Weir Overflow (GPD/Ft)	40245.00	17094.45	13156.91	8199.83
Avg. Settling Rate (GPD/Ft2)	1494.81	921.57	689.80	454.17
Avg. Detention Time	1.74	3.47	4.51	7.23

AERATION TANKS

	Battery A	Battery B	Battery C
Volume (Gallons)	4200000	4200000	2100000
Avg. Flow (MGD)	39.77	47.73	15.71
Avg. Detention Time (Hours)	3.30	2.67	4.29

CHLORINE CONTACT CHAMBERS

Contact Chambers in Use	
Volume (Gallons)	2340000
Avg. Detention Time (Hours)	0.92

Remarks: BY-PASS REPORTS (See Attached)