



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

September 10, 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 August 1st through August 31st 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 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 at Morris Forman.

Please Note: There was an error in our database for the plant flow readings for August 20th and August 30th. As a result the flows were manually totals from the database and recorded.

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. 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 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
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
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

Comments**Attachments**

Name	Type	Size
MFWQTCCoverLetter082021.pdf	pdf	47710.0
MFWQTCMOR08021.pdf	pdf	120209.0
08AugustDischargeReportAllServiceFIN.pdf	pdf	11596.0

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

User: SKINNER@LOUISVILLEMSD.ORG
 Name: James skinner
 E-Mail: james.skinner@louisvillemsd.org
 Date/Time: 2021-09-15 13:00 (Time Zone: -04:00)

Report Last Signed By

User: SKINNER@LOUISVILLEMSD.ORG
 Name: James skinner
 E-Mail: james.skinner@louisvillemsd.org
 Date/Time: 2021-09-15 13:11 (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 08/01/21 to 08/31/21	DMR Due Date:	09/28/21
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
Last Name:	Parrot	Telephone:	502-540-6000

No Data Indicator (NODI)
 Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type	
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3				Value 3
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample						=	148.0	=	214.0	19 - mg/L	0	07/30 - 7 Times Every 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						=	228.0	=	284.0	19 - mg/L	0	07/30 - 7 Times Every 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						=	322.0	=	567.0	19 - mg/L	0	07/30 - 7 Times Every 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						=	217.0	=	290.0	19 - mg/L	0	07/30 - 7 Times Every 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						=	12.5	=	23.2	19 - mg/L	0	07/30 - 7 Times Every 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						=	15.0	=	21.5	19 - mg/L	0	07/30 - 7 Times Every 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	=	29.0	=	34.4	03 - MGD					0	07/30 - 7 Times Every 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: 2021-09-15 13:14 (Time Zone: -04:00)

Report Last Signed By
 User: SKINNER@LOUISVILLEMSD.ORG

Name: James skinner
E-Mail: james.skinner@louisvillemsd.org
Date/Time: 2021-09-15 13:22 (Time Zone: -04:00)

Format: Month/Day/Year
 Enter Start Date : 8/1/21

MORRIS FORMAN WATER QUALITY TREATMENT CENTER JEFFERSON COUNTY, KENTUCKY MONTH OF August-21
 KPDES PERMIT NO. KY0022411 PLANT CAPACITY - 120 MGD RECEIVING STREAM-OHIO RIVER

DATE	WASTEWATER FLOWS (Million Gallons)			TEMP (DEGF)		pH		SETS (M/L)		TSS (mg/L)		D.O. (mg/L)	5-DAY BOD (mg/L)			FLOW MG	RETURN TSS g/L	SLUDGE TVSS g/L	AERATION BASIN					ACTIVE Sludge Wasted MG	Primary Sludge MG	CHLORINATION			FINAL EFFLUENT			
	Final Effluent	Sec. Effluent	Bypass	raw	final	raw	final	raw	final	raw	final	final	raw	prim. final	final				DO 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
8/1/21	58.74	58.74	0.00	74	74	6.9	6.2	10.0	0.3	263	130	6.6	252	191	73	26	18.8	16.5	1.4	5.8	5.2	507	87	0.39	0.05	3.01	0.016	4	4.2	0.0		
8/2/21	60.00	60.00	0.00	73	73	6.9	6.4	11.0	0.2	344	80	6.0	616	421	55	25.3	18.7	16.5	2.1	6.2	5.4	511	83	1.41	0.21	3.01	0.016	61	4.8	0.0		
8/3/21	59.73	59.73	0.00	75	75	6.6	6.5	14.0	0.1	384	59	5.4	498	333	52	26.2	17.6	15.6	0.5	7.6	6.7	511	68	0.63	0.26	2.79	0.016	157	8.4	0.0		
8/4/21	60.17	60.17	0.00	73	73	6.6	6.2	13.0	0.2	404	108	4.7	433	294	66	26.6	17.9	15.8	0.5	6.8	6.0	524	77	0.72	0.31	1.95	0.016	400	8.9	0.0		
8/5/21	59.35	59.35	0.00	73	73	6.6	6.2	14.0	0.2	445	115	4.9	468	308	66	26.6	17.9	15.8	0.6	6.3	5.6	522	83	0.69	0.32	2.61	0.016	144	7.2	0.0		
8/6/21	61.26	61.26	0.00	74	74	6.7	6.3	11.0	0.3	405	120	5.1	452	281	76	26.5	17.7	15.6	0.5	5.9	5.2	556	94	0.42	0.21	2.61	0.016	190	9.9	0.0		
8/7/21	58.06	58.06	0.00	74	74	6.6	6.3	10.0	0.2	364	71	4.9	412	311	64	26.4	17.8	15.6	0.7	5.9	5.2	553	94	0.00	0.02	3.03	0.016	184	8.3	0.0		
8/8/21	58.72	58.72	0.00	75	75	6.7	6.2	13.0	0.5	368	162	4.7	384	292	73	26.8	18.0	15.9	1.4	7.2	6.4	572	80	0.21	0.13	3.03	0.016	9	7.1	0.0		
8/9/21	128.69	94.27	34.42	73	73	6.6	6.2	13.0	15.0	535	485	4.6	371	265	191	26.6	18.3	16.3	1.6	6.6	5.9	484	74	0.69	0.27	3.09	0.016	10	11.1	0.0		
8/10/21	79.13	79.13	0.00	75	75	6.7	6.2	10.0	0.1	410	39	5.9	328	85	45	26.2	18.6	16.4	1.1	4.7	4.2	366	76	1.19	0.29	3.27	0.016	74	7.2	0.0		
8/11/21	69.46	69.46	0.00	77	77	6.6	6.4	10.0	0.1	340	55	5.9	362	216	50	25.1	19.3	17.1	0.7	5.5	4.9	429	77	0.88	0.25	3.27	0.016	114	7.0	0.0		
8/12/21	67.54	67.54	0.00	76	76	6.5	6.3	10.0	0.1	380	36	5.3	652	348	51	25.4	19.3	16.9	0.2	6.4	5.7	441	68	0.90	0.23	3.19	0.016	147	9.6	0.0		
8/13/21	64.78	64.78	0.00	77	77	6.8	6.1	12.0	0.1	337	31	6.3	392	231	35	26.0	19.2	17.0	0.4	5.7	5.1	514	91	0.48	0.11	3.32	0.016	117	10.5	0.0		
8/14/21	67.87	67.87	0.00	75	75	6.9	6.2	13.0	0.2	417	70	4.6	399	246	57	26.4	15.1	13.4	0.7	6.4	5.7	520	82	0.00	0.04	3.46	0.016	4	11.1	0.0		
8/15/21	71.68	71.68	0.00	69	69	6.8	6.2	9.0	0.2	283	163	5.1	301	204	78	25.7	20.0	17.6	1.4	7.2	6.3	430	59	0.32	0.16	3.46	0.016	110	8.6	0.0		
8/16/21	71.82	71.82	0.00	71	71	6.8	6.3	10.0	1.0	320	223	4.5	346	258	119	24.9	18.2	16.0	3.3	5.9	5.2	442	75	1.09	0.24	3.04	0.016	14	15.6	0.0		
8/17/21	81.94	79.34	2.60	74	74	6.8	6.4	13.0	7.5	316	384	4.3	286	281	180	24.5	19.4	17.0	0.9	6.0	5.3	466	76	0.97	0.25	3.40	0.016	255	20.2	0.0		
8/18/21	71.30	71.30	0.00	75	75	7.0	6.4	9.0	2.5	227	316	6.1	225	451	169	24.1	20.6	17.9	1.0	5.4	4.7	308	57	1.13	0.29	4.23	0.016	1130	26.0	0.0		
8/19/21	100.46	95.22	5.24	75	75	6.8	6.4	10.0	19.5	348	750	2.5	302	286	248	23.5	22.4	19.2	1.3	5.8	5.0	309	52	0.57	0.31	4.23	0.016	60000	26.1	0.0		
8/20/21	71.03	71.03	0.00	73	73	6.9	6.4	10.0	0.5	316	178	4.9	305	224	115	23.6	21.0	17.7	1.8	4.8	4.0	268	56	0.48	0.21	3.94	0.016	311	13.4	0.0		
8/21/21	67.61	67.61	0.00	77	77	6.9	6.4	8.0	0.6	310	184	3.3	378	249	119	24.1	21.5	18.2	1.1	5.8	5.0	296	50	0.00	0.07	4.20	0.016	180	10.3	0.0		
8/22/21	60.89	60.89	0.00	74	74	6.8	6.3	10.0	0.5	312	207	2.9	338	220	114	24.1	23.3	19.9	0.5	6.4	5.4	336	52	0.23	0.11	4.63	0.016	436000	9.3	0.0		
8/23/21	63.20	63.20	0.00	77	77	6.8	6.3	11.0	0.1	408	130	5.0	423	238	50	23.6	21.8	18.6	1.0	6.2	5.3	338	55	0.59	0.37	4.63	0.016	77	8.5	0.0		
8/24/21	62.76	62.76	0.00	77	77	6.8	6.3	12.0	0.2	280	107	6.1	406	233	94	23.6	23.1	20.2	1.1	6.3	5.5	333	53	0.79	0.38	4.35	0.016	520	14.5	0.0		
8/25/21	72.48	72.48	0.00	76	76	6.8	6.4	14.8	0.2	392	216	4.3	437	268	114	23.4	24.7	20.8	1.2	5.8	4.9	378	65	0.57	0.39	4.35	0.016	53	17.9	0.0		
8/26/21	86.50	71.89	14.61	77	77	6.9	6.4	12.5	1.5	304	180	6.0	325	293	129	22.6	24.3	20.9	1.1	7.1	5.9	279	40	0.95	0.30	4.26	0.016	1080	15.4	0.0		
8/27/21	146.53	109.81	36.72	73	73	7.0	6.2	6.2	1.4	282	240	6.6	191	159	147	22.4	23.6	20.3	3.5	4.4	3.8	231	52	0.36	0.26	6.97	0.016	4	6.0	0.0		
8/28/21	73.34	73.34	0.00	77	77	7.1	6.1	6.9	0.1	187	72	6.3	139	115	48	22.2	23.4	20.0	9.9	4.1	3.5	232	56	0.00	0.00	6.97	0.016	33	5.4	0.0		
8/29/21	61.24	61.24	0.00	77	77	6.7	6.3	10.0	4.1	288	264	4.8	358	229	96	21.9	24.7	21.1	7.1	5.3	4.6	296	56	0.31	0.07	3.08	0.016	9	5.5	0.0		
8/30/21	162.35	94.04	68.31	75	75	6.6	6.3	9.5	0.9	304	154	4.7	275	189	96	22.4	22.9	19.5	3.1	4.7	4.0	231	51	0.78	0.37	6.78	0.016	20	6.7	0.0		
8/31/21	169.50	128.33	41.17	73	73	6.8	6.3	4.9	0.3	204	61	4.8	184	124	45	22.4	21.3	18.1	4.7	3.4	2.9	177	52	0.63	0.19	6.78	0.016	480	2.3	0.0		
Sum	2448.13	2245.06	203.07													765.1	630.4	547.2	56.2	181.8	158.3	12358	2091	18.39	6.66	120.95				0.0		
Average	78.97	72.42	29.01	75	75	6.8	6.3	10.7	1.9	338	174	5.1	363	253	94	24.7	20.3	17.7	1.8	5.9	5.1	399	67	0.59	0.21	3.90	0.016	123	10.5	0.0		

SEWER CONNECTIONS 148242 TIMES 4 = 592968 SEWER POPULATION IND. WASTER POPULATION EQ CUSTOMERS 388
 FLOW 159146
 BOD 811517
 TSS 467005

Author ized Agent

Certification No. 29841



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	43472	8409 SABERDEE DR		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>
: DISREV: RAIN EVENT DISCHARGE	3420822		08/30/2021	GOODWIN	BANKS	DOCUMENTE D	03/04/2008	LACK OF SYSTEM	UNAUTHORIZED DISCHARGE-	08/30/21 04:17 PM	

Discharge Reporting:

Discharge Amount:	7,150 GAL
Cause:	LACK OF SYSTEM CAPACITY.
Clean Up:	CLEANUP NOT POSSIBLE DUE TO MAGNITUDE OF STORM.
Control Zone:	PLACED TEMPORARY SIGN IN YARD.
Impact:	SEWER FLOWING OUT OF MANHOLE LID.
Repair:	DISCHARGE FOUND DURING RAIN EVENT RECON-WILL BE MONITORED AND EVALUATED FOR REPAIR.
Public Notification:	PLACED TEMPORARY SIGN IN YARD.

Notifications:

8/31/21 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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Total Facilities Printed: 1

Total Work Orders Printed: 1