



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

June 20, 2022

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 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, Daily Dissolved Oxygen, 7 Day Fecal, 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 Early 2022 at Morris Forman.

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					
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	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
74055	Coliform, fecal general	1 - Effluent Gross	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
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
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
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
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
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
05_May_Discharge_Report_Morris_Forman_FIN.pdf	pdf	15368.0
MFWQTCCoverLetterMay2022.pdf	pdf	43459.0
MFWQTCMOR05022.pdf	pdf	104957.0

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

User: AJOP1117
 Name: Amber Pauly
 E-Mail: amber.pauly@louisvillemmsd.org
 Date/Time: 2022-06-17 09:59 (Time Zone: -04:00)

Report Last Signed By

User: SKINNER@LOUISVILLEMSD.ORG
 Name: James skinner
 E-Mail: james.skinner@louisvillemmsd.org
 Date/Time: 2022-06-17 10:40 (Time Zone: -04:00)

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 05/01/22 to 05/31/22	DMR Due Date: 06/28/22	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: 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						=	190.0	=	248.0	19 - mg/L	0	10/30 - Ten 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						=	232.0	=	331.0	19 - mg/L	0	10/30 - Ten 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						=	314.0	=	400.0	19 - mg/L	0	10/30 - Ten 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						=	148.0	=	216.0	19 - mg/L	0	10/30 - Ten 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						=	7.3	=	13.5	19 - mg/L	0	10/30 - Ten 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						=	12.5	=	18.3	19 - mg/L	0	10/30 - Ten 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	=	20.3	=	35.3	03 - MGD					0	10/30 - Ten 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: AJOP1117
 Name: Amber Pauly
 E-Mail: amber.pauly@louisvillemSD.org
 Date/Time: 2022-06-17 09:55 (Time Zone: -04:00)

Report Last Signed By
 User: SKINNER@LOUISVILLEMSD.ORG

Name: James skinner
E-Mail: james.skinner@louisvillemsd.org
Date/Time: 2022-06-17 10:44 (Time Zone: -04:00)

Format: Month/Day/Year

Enter Start Date : 5/1/22

MORRIS FORMAN WATER QUALITY TREATMENT CENTER JEFFERSON COUNTY, KENTUCKY MONTH OF May-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		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
5/1/22	79.47	78.74	0.73	70	70	6.9	6.1	13.0	9.5	312	200	4.7	325	256	253	19.8	19.6	17.2	0.9	4.3	3.8	361	83	-0.03	0.00	4.95	0.016	60000	4.9	0.0
5/2/22	71.92	71.92	0.00	65	65	6.8	6.2	10.0	2.0	272	268	4.1	375	291	177	21.7	19.2	16.8	0.8	4.4	3.8	361	82	0.19	0.30	4.95	0.016	1030	4.9	0.0
5/3/22	158.83	118.21	40.62	68	68	6.7	6.2	7.0	28.0	275	727	4.3	278	265	348	21.7	18.4	16.1	1.6	5.1	4.4	317	64	0.26	0.37	5.29	0.016	60000	6.3	0.0
5/4/22	84.07	84.07	0.00	68	68	6.7	6.2	6.0	0.1	240	68	5.2	439	299	90	21.1	18.8	16.3	1.9	3.5	3.1	260	73	0.37	0.22	5.29	0.016	204	6.0	0.0
5/5/22	76.53	76.53	0.00	66	66	6.8	6.2	75.0	0.1	276	78	5.4	430	297	96	21.2	18.3	16.0	0.5	4.1	3.6	366	89	0.44	0.45	3.12	0.016	1080	8.6	0.0
5/6/22	113.52	110.72	2.80	66	66	7.0	6.3	7.0	1.2	288	200	3.5	153	123	144	21.6	16.4	14.4	0.8	3.9	3.4	311	78	0.28	0.37	7.86	0.016	400	9.2	0.0
5/7/22	92.65	92.65	0.00	66	66	6.9	6.2	7.0	0.3	188	169	1.7	301	240	130	21.8	18.5	16.2	1.2	2.8	2.4	302	108	0.00	0.07	7.86	0.016	1050	2.9	15.3
5/8/22	75.99	75.99	0.00	66	66	7.0	6.3	5.0	5.5	193	248	5.4	215	147	141	21.8	17.9	15.7	7.8	6.0	5.3	382	72	0.00	0.07	4.59	0.016	208	0.7	24.0
5/9/22	78.28	78.28	0.00	65	65	7.0	6.3	4.0	0.3	160	163	4.7	281	189	96	21.7	16.5	14.5	14.6	3.6	3.1	362	102	0.59	0.27	3.65	0.016	23	6.1	24.0
5/10/22	79.53	79.53	0.00	70	70	6.9	6.4	6.0	0.2	308	92	2.0	501	352	107	22.3	16.1	14.2	0.4	3.5	3.1	320	91	0.74	0.57	4.04	0.016	32	13.9	24.0
5/11/22	77.71	77.71	0.00	72	72	6.7	6.3	5.0	0.2	264	123	4.3	516	400	120	25.0	16.6	14.7	0.4	3.9	3.5	381	96	0.39	0.40	5.88	0.016	104	13.3	24.0
5/12/22	80.13	80.13	0.00	71	71	6.9	6.3	1.5	0.2	200	166	2.8	482	403	141	26.6	18.0	16.1	0.2	4.4	4.0	369	82	0.51	0.40	5.88	0.016	136	10.7	23.9
5/13/22	74.90	74.90	0.00	73	73	7.0	6.2	10.0	0.4	307	203	7.1	525	416	196	22.9	17.0	15.1	1.1	5.7	5.0	363	64	0.58	0.51	6.77	0.016	2300	13.0	24.0
5/14/22	108.27	91.22	17.05	72	72	7.0	6.3	9.5	6.5	373	400	4.1	396	331	205	26	16.3	14.4	1.3	4.4	3.9	361	82	0.77	0.52	6.77	0.016	1160	13.5	24.0
5/15/22	81.10	81.10	0.00	70	70	6.8	6.1	3.0	0.1	217	50	4.2	323	236	61	25.2	19.8	17.6	2.6	3.9	3.5	287	73	0.47	0.53	5.62	0.016	740	2.2	24.0
5/16/22	108.58	100.94	7.64	71	71	6.9	6.2	8.0	1.0	250	212	6.5	363	221	123	25.0	18.0	15.9	3.4	4.4	4.0	333	76	0.54	0.52	4.32	0.016	780	3.4	6.3
5/17/22	72.90	72.90	0.00	71	71	6.7	6.3	6.0	0.1	236	94	4.6	386	271	97	24.3	16.1	14.2	1.3	3.8	3.4	346	89	0.73	0.74	4.32	0.016	9470	5.8	0.0
5/18/22	117.36	97.05	20.31	71	71	6.8	6.3	8.0	3.5	300	264	4.9	367	275	142	24.2	17.8	15.7	2.0	4.0	3.6	376	93	0.51	0.46	4.30	0.016	4	7.8	0.0
5/19/22	95.95	95.95	0.00	71	71	6.9	6.3	5.0	0.3	228	88	5.1	278	200	67	24.3	16.9	15.1	2.1	4.7	4.2	269	57	0.48	0.29	3.09	0.016	132	4.6	0.0
5/20/22	80.46	80.46	0.00	72	72	6.7	6.3	7.5	0.3	276	160	5.9	391	236	102	24.7	15.3	13.5	4.8	3.8	3.4	313	82	0.41	0.55	3.46	0.016	4	7.5	0.0
5/21/22	93.77	85.77	8.00	76	76	6.8	6.3	8.0	5.0	260	332	6.3	351	245	172	24.4	15.2	13.4	2.5	4.3	3.7	378	88	0.64	0.29	4.29	0.016	124	7.6	0.0
5/22/22	86.41	86.41	0.00	70	70	7.0	6.1	6.5	0.2	260	120	6.0	368	182	97	23.9	14.1	12.5	3.7	3.2	2.8	274	86	0.90	0.56	4.29	0.016	375	3.8	0.0
5/23/22	71.99	71.99	0.00	68	68	6.9	6.4	7.5	0.1	252	74	5.3	305	171	62	23.9	14.1	12.4	5.9	3.8	3.3	317	83	0.46	0.61	4.09	0.016	75	4.6	0.0
5/24/22	71.64	71.64	0.00	70	70	6.7	6.3	10.0	0.1	360	98	6.1	588	298	104	23.3	13.5	12.0	3.4	3.8	3.5	368	96	0.59	0.38	3.55	0.016	4	7.4	0.0
5/25/22	119.25	89.23	30.02	74	74	6.8	6.5	11.0	8.0	372	356	6.7	511	297	228	23.8	14.0	12.5	1.2	3.9	3.5	369	95	0.40	0.25	4.05	0.016	20	11.5	0.0
5/26/22	171.12	127.73	43.39	73	73	6.8	6.3	8.0	3.5	352	276	3.5	278	148	173	22.9	16.3	14.3	4.2	3.1	2.7	228	74	0.59	0.38	6.23	0.016	4	4.6	0.0
5/27/22	162.71	130.14	32.57	68	68	7.0	6.3	7.0	1.5	288	172	4.9	301	155	107	23.2	14.2	12.3	3.7	2.6	2.2	179	69	0.75	0.40	6.23	0.016	196	4.4	0.0
5/28/22	100.81	100.81	0.00	69	69	7.1	6.3	7.0	0.2	306	106	5.0	420	247	115	23.4	15.5	13.5	0.8	3.3	2.9	227	67	0.86	0.66	5.93	0.016	32	4.6	0.0
5/29/22	83.68	83.68	0.00	70	70	7.2	6.3	7.0	0.3	172	124	4.5	258	190	120	23.5	16.6	14.5	1.3	3.6	3.2	300	82	0.46	0.37	5.93	0.016	4	3.1	0.0
5/30/22	77.11	77.11	0.00	72	72	7.4	6.3	7.0	0.9	132	188	4.3	260	197	172	23.4	15.2	13.2	2.7	3.5	3.1	284	80	0.00	0.00	5.28	0.016	8	1.0	0.0
5/31/22	76.44	76.44	0.00	73	73	6.9	6.3	0.9	0.4	300	149	6.3	244	738	90	23.0	13.8	11.9	9.7	3.4	3.0	282	82	0.00	0.00	4.85	0.016	168	2.6	0.0
Sum	2923.08	2719.95	203.13												721.6									13.80	11.53					213.3
Average	94.29	87.74	20.31	70	70	6.9	6.3	9.1	2.8	265	193	4.8	362	268	138	23.3	16.6	14.6	2.9	4.0	3.5	321	82	0.45	0.37	5.06	0.016	167	6.5	

SEWER CONNECTIONS 148431 TIMES 4 = IND. WASTER POPULATION EQ
 CUSTOMERS 393
 FLOW 315810
 BOD 1135749
 TSS 424435

Authorized Agent

Certification No. 20841



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	24233	2513 LIME KILN LN	MORRIS FORMAN	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	3509933		05/08/2022	BOWLIN JR	GRIGSBY, R	REPAIRED - ISSUE RESOLVED	05/08/2022	GREASE BLOCKAGE	UNAUTHORIZED DISCHARGE- WATERS	05/08/22 06:15 PM	MAIN

Discharge Reporting:

Discharge Amount:	50 GAL
Cause:	GREASE IN THE MAIN SEWER.
Clean Up:	DISCLN WO #3509935.
Control Zone:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA.
Impact:	SEWAGE/DEBRIS AROUND MANHOLE AND IN CREEK.
Repair:	FLUSHED TO REMOVE OBSTRUCTION; REFERRED TO TV CREW FOR INSPECTION.
Public Notification:	ADVISED CUSTOMER VIA PHONE.

Notifications:

5/9/22 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		NA

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	29082	1100 ENVOY CIR	MORRIS FORMAN	SOUTH FORK BEARGRASS 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	3521457		05/27/2022	BIVIN	BIVIN	REPAIRED - ISSUE RESOLVED	05/27/2022	OBSTRUCTION- NOT GREASE / ROOTS	UNAUTHORIZED DISCHARGE- WATERS	05/27/22 10:25 AM	MAIN

Discharge Reporting:

Discharge Amount:	500 GAL
Cause:	FURTHER INVESTIGATION REQUIRED.
Clean Up:	MSD WILL CLEAN IMPACTED AREA.
Control Zone:	MSD ADVISED CUSTOMER TO AVOID CONTACT WITH SEWAGE.
Impact:	OBSERVED DISCHSRGE FROM MH #29082 PAPER AND HYGIENE PRODUCTS DISCHARDED.
Repair:	FLUSHED MAIN SEWER. REFERRED OVER FOR TV INSPECTION OF THE MAIN SEWER.
Public Notification:	ON SITE AND FOUR DISCHARGE SIGNS.

Notifications:

5/27/22 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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Total Facilities Printed: 2

Total Work Orders Printed: 2