



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

December 15, 2025

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) Report for the reporting period November 1st through November 30th, 2025, are provided through NetDMR. The Morris Forman Water Quality Treatment Center (MFWQTC) did not meet permit for 30-day TSS and BOD, 7-day TSS and BOD, BOD and TSS percent removal reporting requirements.

MSD operates solids dewatering at both Hite Creek and Derek Guthrie WQTC's. Overall, this has reduced the solids loading to the Morris Forman plant. However, compromised solids handling equipment at Morris Forman continue to contribute to our effluent exceedances. Morris Forman currently has several process improvement projects in progress. The Dryer replacement project has been completed. A Dissolved Air Flotation Thickening (DAFT) rehabilitation project has been awarded. Demolition continues to make way for the Thermal Hydrolysis Process (THP), and due to the Primary Sedimentation Project, Sedimentation Basins 1 and 2 have taken out of service for the installation of new valves, gates, and bridges.

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

Sincerely,

Michael Scott
Treatment Facilities Manager

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the [NPDES eReporting Help Desk](#) for further guidance. Please note that EPA may contact you after you submit this report for more information.

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with this permit and EPA NPDES regulations 40 CFR 122.41(l)(4)(i). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information are estimated to average 2 hours per outfall. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden to the Regulatory Support Division Director, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

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 11/01/25 to 11/30/25	DMR Due Date:	12/28/25
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:	Parrott	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	Units			
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample						=	73.0	=	97.0	19 - mg/L	05/30 - 5 Times Every Month WH/DS - When Discharging	CP - Composite CP - Composite					
					Permit Req.													Req Mon MO AVG	Req Mon MX WK AV			
					Value NODI																	
00310	BOD, 5-day, 20 deg. C	F - Primary/Preliminary Process Complete	0	--	Sample						=	188.0	=	229.0	19 - mg/L	05/30 - 5 Times Every Month WH/DS - When Discharging	CP - Composite CP - Composite					
					Permit Req.														Req Mon MO AVG	Req Mon MX WK AV		
					Value NODI																	
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample						=	162.0	=	181.0	19 - mg/L	05/30 - 5 Times Every Month WH/DS - When Discharging	CP - Composite CP - Composite					
					Permit Req.															Req Mon MO AVG	Req Mon MX WK AV	
					Value NODI																	
00530	Solids, total suspended	F - Primary/Preliminary Process Complete	0	--	Sample						=	144.0	=	182.0	19 - mg/L	05/30 - 5 Times Every Month WH/DS - When Discharging	CP - Composite CP - Composite					
					Permit Req.															Req Mon MO AVG	Req Mon MX WK AV	
					Value NODI																	
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	0	--	Sample						=	13.5	=	15.7	19 - mg/L	05/30 - 5 Times Every Month WH/DS - When Discharging	CP - Composite CP - Composite					
					Permit Req.																Req Mon MO AVG	Req Mon MX WK AV
					Value NODI																	
00610	Nitrogen, ammonia total [as N]	F - Primary/Preliminary Process Complete	0	--	Sample						=	14.7	=	16.8	19 - mg/L	05/30 - 5 Times Every Month WH/DS - When Discharging	CP - Composite CP - Composite					
					Permit Req.																Req Mon MO AVG	Req Mon MX WK AV
					Value NODI																	
50050	Flow, in conduit or thru treatment plant	F - Primary/Preliminary Process Complete	0	--	Sample	=	1.8	=	0.4	03 - MGD						05/30 - 5 Times Every Month WH/DS - When Discharging	CN - Continuous CN - Continuous					
					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: BURCH@LOUISVILLEMSD.ORG
Name: Robin Burch
E-Mail: robin.burch@louisvillemsd.org
Date/Time: 2025-12-12 09:48 (Time Zone: -05:00)

Report Last Signed By

User: ANTHONY1026.
Name: Michael Scott
E-Mail: mike.scott@louisvillemsd.org
Date/Time: 2025-12-16 11:24 (Time Zone: -05:00)

					Value NODI															
50050	Flow, in conduit or thru treatment plant	E - Secondary/Biological Process Complete	0	--	Sample	=	61.52	=	71.8	03 - MGD								99/99 - Continuous	CN - Continuous	
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD						0	99/99 - Continuous	CN - Continuous		
					Value NODI															
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample														01/01 - Daily	GR - Grab
					Permit Req.													0	01/01 - Daily	GR - Grab
					Value NODI															
74055	Coliform, fecal general	1 - Effluent Gross	2	--	Sample														01/01 - Daily	GR - Grab
					Permit Req.													0	01/01 - Daily	GR - Grab
					Value NODI															
X 81010	BOD, 5-day, percent removal	K - Percent Removal	0	--	Sample														01/30 - Monthly	CA - Calculated
					Permit Req.													1	01/30 - Monthly	CA - Calculated
					Value NODI															
X 81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample														01/30 - Monthly	CA - Calculated
					Permit Req.													1	01/30 - Monthly	CA - Calculated
					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
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
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 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
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

Comments

Attachments

Name	Type	Size
MFWQTCoverletter112025.pdf	pdf	48966.0
MFWQTCMOR112025.pdf	pdf	213389.0

Report Last Saved By

Morris Forman WQTC MSD

User: BURCH@LOUISVILLEMSD.ORG
 Name: Robin Burch
 E-Mail: robin.burch@louisvillemsd.org
 Date/Time: 2025-12-15 06:30 (Time Zone: -05:00)

Report Last Signed By

User: ANTHONY1026.
 Name: Michael Scott
 E-Mail: mike.scott@louisvillemsd.org
 Date/Time: 2025-12-16 11:16 (Time Zone: -05:00)

Format: Month/Day/Year
 Enter Start Date : 11/1/25

MORRIS FORMAN WATER QUALITY TREATMENT CENTER JEFFERSON COUNTY, KENTUCKY MONTH OF November-25
 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)			RETURN SLUDGE			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	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	
																															raw
11/1/25	76.17	73.06	3.11	67.6	67.6	7.2	6.6	2.5	0.1	97	62	7.3	215	166	28	22.9	17.30	14.75	16.0	2.95	2.48	198	82	0.00054	0.09629	2.88	0.016	92	6.4	0.00	
11/2/25	66.96	66.96	0.00	69.0	69.0	7.1	6.6	1.5	0.1	80	77	8.1	117	125	36	23.1	18.00	15.55	12.3	1.98	1.68	200	84	0.00055	0.11337	2.63	0.016	71	8.8	0.00	
11/3/25	57.18	57.18	0.00	68.7	68.7	7.3	6.6	5.0	0.1	188	23	6.8	248	144	16	22.7	26.35	22.30	15.8	2.00	1.62	233	87	0.32245	0.14238	2.36	0.016	10	15.2	0.00	
11/4/25	55.68	55.68	0.00	69.2	71.4	7.1	6.6	7.0	0.1	252	22	6.2	325	214	17	22.9	12.25	10.70	11.3	2.68	2.35	225	87	0.33894	0.21833	2.04	0.016	20	20.1	0.00	
11/5/25	49.03	49.03	0.00	68.0	72.0	7.2	6.7	6.0	0.1	220	75	6.1	331	219	35	23.4	9.65	8.42	10.9	3.95	3.48	227	85	0.43746	0.21894	2.25	0.016	20	23.5	0.00	
11/6/25	48.52	48.52	0.00	69.6	71.8	7.1	6.6	8.0	2.0	332	172	9.4	401	277	72	23.3	14.48	12.42	9.3	3.09	2.65	235	82	0.22987	0.10409	2.36	0.016	23	22.3	0.00	
11/7/25	48.95	48.95	0.00	69.5	71.7	7.1	6.6	10.0	5.5	352	252	6.0	420	260	115	23.4	13.30	11.58	8.7	3.30	2.86	243	84	0.26012	0.06921	2.38	0.016	36	20.4	0.00	
11/8/25	44.18	44.18	0.00	69.7	70.4	7.0	6.6	6.5	0.4	282	132	6.3	416	251	64	23.3	17.55	15.10	8.2	2.98	2.55	268	87	0.00053	0.09872	2.17	0.016	8	14.3	0.00	
11/9/25	54.80	52.34	2.47	68.6	68.5	7.2	6.6	2.5	1.0	110	158	5.1	183	152	69	23.1	15.40	13.25	12.6	2.20	1.93	217	87	0.00052	0.10014	2.66	0.016	365	9.8	0.00	
11/10/25	46.20	46.20	0.00	67.9	69.1	7.3	6.7	6.0	0.1	196	58	5.8	267	216	34	22.8	15.40	13.40	14.8	3.15	2.83	203	79	0.36342	0.04691	2.26	0.016	30	14.8	0.00	
11/11/25	47.03	47.03	0.00	67.8	69.1	7.2	6.6	5.5	0.1	180	61	7.8	277	226	36	23.0	14.50	11.85	9.1	2.57	2.84	300	83	0.40241	0.10938	2.30	0.016	49	20.5	0.00	
11/12/25	45.82	45.82	0.00	68.3	70.3	7.1	6.7	2.5	0.1	144	58	6.2	335	271	40	22.8	13.25	13.70	7.4	3.05	2.92	288	89	0.29300	0.08135	2.13	0.016	20	21.2	0.49	
11/13/25	48.58	48.58	0.00	67.5	70.2	7.1	6.6	6.0	0.1	190	38	5.1	296	225	22	23.0	15.45	12.53	6.1	3.29	3.29	300	91	0.33881	0.12295	2.57	0.016	49	20.9	0.19	
11/14/25	51.92	51.92	0.00	68.0	70.8	7.0	6.6	5.0	0.2	352	86	5.6	410	290	36	23.2	14.25	13.60	6.5	3.75	2.74	313	92	0.27934	0.08707	2.82	0.016	7	20.5	0.00	
11/15/25	51.41	51.41	0.00	68.2	68.7	7.2	6.6	4.0	0.2	266	124	4.8	326	269	25	23.4	15.45	10.73	4.2	3.12	3.57	498	102	0.00051	0.08620	2.58	0.016	20	23.0	0.00	
11/16/25	48.12	48.12	0.00	67.4	68.0	7.1	6.6	2.5	0.1	104	96	5.6	168	180	69	23.4	12.08	13.65	12.5	4.00	3.25	532	107	0.00053	0.07940	2.23	0.016	375	14.9	0.00	
11/17/25	50.23	50.23	0.00	68.7	69.1	7.2	6.6	3.0	0.5	140	156	7.5	299	246	79	22.8	15.40	14.35	13.7	3.67	2.04	463	118	0.30153	0.10592	2.25	0.016	104	14.3	0.00	
11/18/25	92.74	92.60	0.14	63.0	62.7	7.0	6.6	10.0	6.5	336	291	8.4	360	220	76	22.6	16.35	9.97	11.2	2.29	1.93	365	119	0.56573	0.10942	4.31	0.016	1870	16.1	0.00	
11/19/25	95.25	95.25	0.00	58.7	64.8	7.1	6.5	3.0	0.1	200	74	8.6	235	188	42	22.9	11.60	8.03	15.7	2.18	2.39	183	117	0.35318	0.10931	4.43	0.016	100	8.0	0.00	
11/20/25	70.49	70.49	0.00	64.5	68.4	7.0	6.6	5.0	0.1	190	23	5.9	297	229	26	22.8	9.03	11.78	14.6	2.75	2.98	243	115	0.38421	0.10529	2.33	0.016	400	9.4	0.00	
11/21/25	85.04	84.71	0.33	66.4	66.3	7.1	6.5	20.0	0.2	340	70	6.2	303	238	50	22.9	13.50	12.12	4.1	3.49	3.13	298	114	0.35007	0.10677	2.98	0.016	104	15.2	0.00	
11/22/25	72.86	72.86	0.00	64.7	67.1	7.1	6.5	7.5	0.2	330	48	5.7	296	190	32	23.0	14.30	13.63	11.3	3.61	1.82	283	103	0.00049	0.10698	2.50	0.016	23	6.3	0.00	
11/23/25	58.86	58.86	0.00	65.6	66.9	7.1	6.6	7.0	0.1	232	68	4.5	318	53	31	22.9	14.40	12.30	11.0	2.31	3.70	331	104	0.00049	0.10626	2.08	0.016	20	7.1	0.00	
11/24/25	68.31	68.31	0.00	65.3	68.0	7.2	6.5	5.0	1.0	213	130	7.4	280	177	50	23.3	15.40	13.47	10.4	4.39	3.50	409	97	0.04181	0.11851	2.63	0.016	4	12.4	0.00	
11/25/25	108.33	105.56	2.77	66.2	65.5	7.9	6.5	7.0	4.5	204	128	6.3	150	140	97	23.2	16.03	11.53	10.0	3.89	3.13	278	90	0.25487	0.09282	4.29	0.016	132	12.7	0.00	
11/26/25	79.64	79.64	0.00	64.9	66.5	7.3	6.5	4.1	0.1	134	29	5.7	186	126	23	23.0	12.77	13.33	12.3	3.63	3.58	287	89	0.35174	0.10828	3.16	0.016	8	12.3	0.00	
11/27/25	61.60	61.60	0.00	65.5	65.8	7.3	6.7	3.5	0.1	87	27	6.0	171	155	18	22.9	15.77	14.30	13.8	4.10	3.72	313	85	0.43256	0.08277	2.44	0.016	4	14.6	0.00	
11/28/25	55.75	55.75	0.00	64.7	65.7	7.2	6.6	5.0	0.3	198	83	8.1	205	134	25	22.7	16.63	10.97	15.3	4.13	4.18	372	87	0.33090	0.06911	2.22	0.016	7	13.8	0.00	
11/29/25	58.64	58.64	0.00	64.9	65.4	7.3	6.7	10.0	2.5	138	157	9.2	191	152	57	23.2	12.93	13.93	12.2	4.63	1.89	476	91	0.00049	0.06225	2.53	0.016	4	16.5	0.00	
11/30/25	56.18	56.18	0.00	64.7	64.7	7.0	6.5	4.0	0.4	178	112	6.5	259	181	51	23.6	16.10	12.47	13.9	1.94	1.89	450	104	0.00046	0.07315	2.53	0.016	10	15.6	0.00	
SUM	1854.5	1845.7	8.8												691.4																0.7
Average	61.8	61.5	1.8	66.7	68.1	7.2	6.6	5.8	0.9	209	96	6.6	276	197	46	23.0	14.83	12.86	11.2	3.17	2.76	308	95	0.22125	0.10439	2.64	0.016	34	15.0	0.0	

SEWER CONNECTIONS 134207 TIMES 4 = 536828 SEWER POPULATION IND. WASTER POPULATION EQ CUSTOMERS 307
 FLOW 588728
 BOD 837514
 TSS 512685

Authorized Agent

Certification No. 61772

MORRIS FORMAN WASTEWATER TREATMENT PLANT

JEFFERSON COUNTY, KY

Month of Nov-25

Average Flow

SETTLING TANKS	Primary	Secondary		
		Battery A	Battery B	Battery C
Average Flow (MGD)	59.68	50.22	30.12	7.62
Tanks in Service	2.00	6.0	8.0	4.0
Surface Area (Ft.2)	38500.00	51900.00	69119.07	34600.00
Volume (MG)	4.17	5.32	7.08	3.54
Weir Length (Ft.)	1430.00	2151.00	2864.65	1434.00
Avg. Weir Overflow (GPD/Ft)	41736.72	23347.28	10514.26	5316.82
Avg. Settling Rate (GPD/Ft2)	1550.22	172.75	572.19	324.36
Avg. Detention Time	1.68	2.54	5.64	11.16

AERATION TANKS

	Battery A	Battery B	Battery C
Volume (Gallons)	4200000	4200000	2100000
Avg. Flow (MGD)	8.97	39.55	11.22
Avg. Detention Time (Hours)	2.01	3.35	6.61

CHLORINE CONTACT CHAMBERS

Contact Chambers in Use	2.0
Volume (Gallons)	2340000
Avg. Detention Time (Hours)	0.47

Remarks: BY-PASS REPORTS (See Attached)