



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

March 18, 2024

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 through February 29th, 2024, are provided through NetDMR. The Morris Forman Water Quality Treatment Center (MFWQTC) did not meet permit for 30-day Fecal Coliform, 7-day Fecal Coliform, 30-day BOD, 7-day BOD, 30-day TSS, 7-day TSS, TSS and BOD percent removal reporting requirements.

MSD has installed dewatering services at a satellite facility. This dewatering service has reduced the solids loading to the Morris Forman plant, but compromised solids handling equipment at Morris Forman continue to contribute to our effluent exceedances.

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 02/01/24 to 02/29/24	DMR Due Date:	03/28/24	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 Permit Req. Value NODI												Req Mon MO AVG	Req Mon MX WK AV	19 - mg/L	WH/DS - When Discharging	CP - COMPOS	
00310	BOD, 5-day, 20 deg. C	F - Primary/Preliminary Process Complete	0	--	Sample Permit Req. Value NODI												Req Mon MO AVG	Req Mon MX WK AV	19 - mg/L	WH/DS - When Discharging	CP - COMPOS	
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI												Req Mon MO AVG	Req Mon MX WK AV	19 - mg/L	WH/DS - When Discharging	CP - COMPOS	
00530	Solids, total suspended	F - Primary/Preliminary Process Complete	0	--	Sample Permit Req. Value NODI												Req Mon MO AVG	Req Mon MX WK AV	19 - mg/L	WH/DS - When Discharging	CP - COMPOS	
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI												Req Mon MO AVG	Req Mon MX WK AV	19 - mg/L	WH/DS - When Discharging	CP - COMPOS	
00610	Nitrogen, ammonia total [as N]	F - Primary/Preliminary Process Complete	0	--	Sample Permit Req. Value NODI												Req Mon MO AVG	Req Mon MX WK AV	19 - mg/L	WH/DS - When Discharging	CP - COMPOS	
50050	Flow, in conduit or thru treatment plant	F - Primary/Preliminary Process Complete	0	--	Sample Permit Req. Value NODI		Req Mon MO AVG		Req Mon MX WK AV	03 - MGD											WH/DS - When Discharging	CN - CONTIN
							C - No Discharge		C - No Discharge													

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

NO SECONDARY BYPASS DUE TO RESTRICTED PLANT CAPACITY

Attachments

No attachments.

Report Last Saved By

Morris Forman WQTC MSD

User: AJOP1117
 Name: Amber Pauly
 E-Mail: amber.pauly@louisvillemsd.org
 Date/Time: 2024-03-18 13:30 (Time Zone: -04:00)

Report Last Signed By

User: SKINNER@LOUISVILLEMSD.ORG

Name: James skinner
E-Mail: james.skinner@louisvillemsd.org
Date/Time: 2024-03-19 06:19 (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					
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
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
74055	Coliform, fecal general	1 - Effluent Gross	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
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

Comments

There were no discharges going to the Morris Forman Treatment Plant this month. Thus, no discharge report is attached.

Attachments

Name	Type	Size
MFWQTCDMRCoverLetterFeb2024.pdf	pdf	41942.0
MFWQTCMOR02024.pdf	pdf	123597.0

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

User: AJOP1117
 Name: Amber Pauly
 E-Mail: amber.pauly@louisvillemsd.org
 Date/Time: 2024-03-18 13:43 (Time Zone: -04:00)

Report Last Signed By

User: SKINNER@LOUISVILLEMSD.ORG
 Name: James skinner
 E-Mail: james.skinner@louisvillemsd.org
 Date/Time: 2024-03-19 06:17 (Time Zone: -04:00)

Format: Month/Day/Year
 Enter Start Date : 2/1/24

MORRIS FORMAN WATER QUALITY TREATMENT CENTER JEFFERSON COUNTY, KENTUCKY MONTH OF February-24
 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	Sec.	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	Studge Wasted (MG)	Primary Sludge (MG)	Chlorine Dosage (KLBS)	Resid (mg/L)	Coliform #/100 ml	NH3-N (mg/L)	Pump. Hours	
																															Effluent
2/1/24	104.67	104.67	0.00	59	59	6.8	6.3	0.1	0.3	96	116	5.3	310	260	114	29.2	17.1	14.7	8.4	4.5	3.8	220	48	0.4	0.16	1.19	0.016	520	6.3	24	
2/2/24	93.08	93.08	0.00	57	57	6.9	6.3	13	1.0	394	134	5.2	415	259	96	29.6	18.1	15.5	6.3	4.4	3.7	251	56	0.4	0.10	1.20	0.016	840	2.8	24	
2/3/24	76.52	76.52	0.00	58	58	7.0	6.3	10	0.5	344	102	5.1	545	373	135	30.2	18.8	16.2	3.5	5.2	4.7	317	59	0.0	0.03	1.42	0.016	500	3.9	24	
2/4/24	71.01	71.01	0.00	60	60	6.9	6.2	3.8	0.1	202	118	5.2	338	266	130	30.4	17.3	14.9	2.6	6.3	5.2	376	59	0.0	0.02	1.15	0.016	678	1.2	24	
2/5/24	76.03	76.03	0.00	60	60	6.8	6.2	1.7	0.5	214	170	5.4	268	246	145	30.8	18.6	16.1	4.8	6.0	5.2	392	65	0.5	0.09	1.06	0.016	800	4.7	24	
2/6/24	83.43	83.43	0.00	59	59	6.8	6.2	3.1	0.3	202	176	6.9	304	355	138	30.0	18.4	16.2	2.6	5.1	4.6	334	64	0.7	0.17	1.12	0.016	400	9.4	24	
2/7/24	80.96	80.96	0.00	57	57	7.0	6.2	1.5	0.1	174	98	6.7	259	311	169	30.0	18.4	16.2	3.6	5.5	5.0	337	60	0.8	0.18	1.96	0.016	92	9.5	24	
2/8/24	78.43	78.43	0.00	59	59	6.9	6.3	12	3.0	460	304	4.9	585	365	198	30.7	20.1	17.8	2.8	6.2	5.5	340	54	0.4	0.12	3.34	0.016	144	11.7	24	
2/9/24	69.93	69.93	0.00	62	62	6.9	6.2	9	5.0	424	356	2.9	442	660	244	30.8	19.9	17.3	1.4	5.7	5.0	356	61	0.5	0.12	0.41	0.016	3620	11.0	24	
2/10/24	87.54	87.54	0.00	61	61	7.1	6.3	18	11.0	330	468	3.8	281	245	275	31.0	18.6	16.3	4.2	5.0	4.3	322	63	0.0	0.01	2.86	0.016	240000	6.1	24	
2/11/24	87.01	87.01	0.00	59	59	6.8	6.4	4.9	9.9	164	388	3.4	254	247	257	31.4	17.4	15.0	5.7	6.9	6.0	368	54	0.0	0.00	3.60	0.016	4100	1.4	24	
2/12/24	86.16	86.16	0.00	59	59	6.9	6.1	2.7	2.9	140	292	5.3	325	262	152	30.0	19.6	17.0	1.4	5.0	4.3	314	62	0.8	0.13	3.58	0.016	310	6.6	24	
2/13/24	74.63	74.63	0.00	65	65	6.5	6.2	5.1	4.7	440	312	5.8	447	578	236	29.2	17.6	15.3	1.9	5.4	4.7	290	53	1.0	0.20	2.43	0.016	181	11.6	24	
2/14/24	78.13	78.13	0.00	59	59	6.7	6.3	0.6	4.9	152	367	4.1	393	533	236	29.1	16.9	14.8	1.0	6.1	5.2	297	48	0.9	0.15	0.51	0.016	920	11.6	24	
2/15/24	76.82	76.82	0.00	59	59	6.7	6.1	10.5	12.1	380	680	3.0	559	292	353	29.7	20.4	17.6	0.7	6.5	5.6	334	51	0.0	0.12	0.53	0.016	19200	9.2	24	
2/16/24	75.01	75.01	0.00	59	59	6.8	6.1	10.5	4.7	448	352	3.1	501	393	283	29.6	20.4	17.8	1.2	5.5	4.8	324	60	0.3	0.09	0.53	0.016	62000	10.0	24	
2/17/24	75.60	75.60	0.00	54	54	6.9	6.3	8	4.5	256	312	4.2	526	439	316	29.5	20.9	18.2	0.5	5.4	4.8	363	65	0.0	0.04	2.76	0.016	60000	8.2	24	
2/18/24	71.05	71.05	0.00	51	51	6.9	6.3	5.5	1.0	192	252	3.3	336	271	236	29.5	18.3	14.9	0.6	6.3	5.5	383	60	0.0	0.00	2.77	0.016	60000	3.3	24	
2/19/24	69.04	69.04	0.00	57	57	6.8	6.1	6.7	0.1	380	320	2.5	417	361	204	29.2	20.0	17.3	0.9	7.1	6.0	350	50	0.5	0.05	3.03	0.016	24800	8.0	24	
2/20/24	67.37	67.37	0.00	58	58	6.8	6.3	5.3	0.5	320	192	6.7	434	318	223	29.2	18.2	15.7	0.8	4.8	4.3	343	70	0.5	0.06	2.94	0.016	4200	11.1	24	
2/21/24	68.29	68.29	0.00	60	60	6.7	6.2	10.7	0.9	590	227	4.8	551	364	209	29.1	18.8	16.3	1.3	5.2	4.4	329	62	0.6	0.15	3.27	0.016	20800	12.3	24	
2/22/24	87.47	87.47	0.00	62	62	6.7	6.2	5.1	7.5	410	365	5.3	439	334	270	29.4	17.4	14.9	1.6	5.4	4.7	362	66	0.6	0.17	3.32	0.016	60000	12.4	24	
2/23/24	95.10	95.10	0.00	60	60	6.7	6.2	1	4.0	106	184	6.9	380	282	161	29.4	25.6	21.3	6.4	4.2	3.4	256	68	0.4	0.07	4.31	0.016	136	11.6	24	
2/24/24	79.97	79.97	0.00	57	57	6.5	6.2	0.1	2.0	100	284	6.1	263	293	95	30.1	19.3	18.2	4.7	6.6	5.7	310	48	0.0	0.04	4.65	0.016	208	4.5	24	
2/25/24	75.38	75.38	0.00	60	60	6.8	6.2	7.5	3.3	232	320	5.2	348	303	170	30.1	17.5	15.1	3.5	5.2	4.5	322	62	0.0	0.02	1.58	0.016	1920	2.9	24	
2/26/24	73.79	73.79	0.00	61	61	6.9	6.2	15.1	1.5	316	220	4.1	374	272	193	28.4	18.3	15.6	2.2	5.1	4.3	320	62	0.8	0.14	1.80	0.016	400	8.6	24	
2/27/24	90.61	90.61	0.00	63	63	6.7	6.2	6.5	0.9	364	224	3.3	317	353	217	28.6	18.0	15.2	1.8	6.0	5.0	243	42	1.0	0.17	3.05	0.016	2800	10.2	24	
2/28/24	91.72	91.72	0.00	61	61	6.8	6.2	9.1	2.9	316	256	4.5	346	288	223	28.9	17.8	15.2	1.5	4.7	3.9	273	58	1.0	0.13	4.70	0.016	1570	8.9	24	
2/29/24	84.60	84.60	0.00	52	52	6.7	6.2	2.5	1.2	224	160	4.4	545	456	205	29.1	21.9	19.9	0.8	4.6	4.3	253	55	1.0	0.18	2.19	0.016	5800	9.4	24	
SUM	2329.4	2329.4	0.0												862.1																696.0
Average	80.3	80.3	0.0	58.9	58.9	6.8	6.2	6.5	3.1	289	287	4.7	397	344	203	29.7	19.0	16.4	2.7	5.5	4.8	320	58	0.45	0.10	2.32	0.016	2311	7.9		

SEWER CONNECTIONS 148602 TIMES 4 = 148537
 594408 SEWER POPULATION
 IND. WASTER POPULATION EQ CUSTOMERS 405
 FLOW 405 170567
 BOD 968485
 TSS 326277

Authorized Agent

Certification No. 29841

MORRIS FORMAN WASTEWATER JEFFERSON COUNTY, KY

Month of Feb-24

Average Flow

SETTLING TANKS	Primary	Secondary		
	Battery A	Battery B	Battery C	

Average Flow	80.38	27.58	18.42	6.52
Tanks in Service	2.00	8.0	7.0	4.0
Surface Area	38500.00	69200.00	60550.00	34590.48
Volume (MG)	4.17	7.09	6.20	3.54
Weir Length	1430.00	2868.00	2509.50	1433.61
Avg. Weir Flow	56213.17	9616.90	7341.14	4547.29
Avg. Settling Rate	2087.92	567.53	539.68	297.16
Avg. Detention Time	1.24	6.17	8.08	13.04

AERATION TANKS

	Battery A	Battery B	Battery C
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Volume (Gallons)	4200000	4200000	2100000
Avg. Flow (MGD)	39.27	32.68	10.28
Avg. Detention Time (h)	3.65	5.47	7.73

CHLORINE CONTACT CHAMBERS

Contact Chamber	2.0
Volume (G)	2340000
Avg. Detention Time	1.02

Remarks: BY-PASS REPORTS (See Attached)