



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

December 15, 2023

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 October 1st through October 31st, 2023, are provided through NetDMR. The Morris Forman Water Quality Treatment Center (MFWQTC) did not meet permit for 7 day Fecal Coliform, 30 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
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 11/01/23 to 11/30/23	DMR Due Date:	12/28/23
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												Req Mon MO AVG	Req Mon MX WK AV	19 - mg/L	WH/DS - When Discharging	CP - COMPOS
					Permit Req.												C - No Discharge	C - No Discharge			
					Value NODI																
00310	BOD, 5-day, 20 deg. C	F - Primary/Preliminary Process Complete	0	--	Sample												Req Mon MO AVG	Req Mon MX WK AV	19 - mg/L	WH/DS - When Discharging	CP - COMPOS
					Permit Req.												C - No Discharge	C - No Discharge			
					Value NODI																
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample												Req Mon MO AVG	Req Mon MX WK AV	19 - mg/L	WH/DS - When Discharging	CP - COMPOS
					Permit Req.												C - No Discharge	C - No Discharge			
					Value NODI																
00530	Solids, total suspended	F - Primary/Preliminary Process Complete	0	--	Sample												Req Mon MO AVG	Req Mon MX WK AV	19 - mg/L	WH/DS - When Discharging	CP - COMPOS
					Permit Req.												C - No Discharge	C - No Discharge			
					Value NODI																
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	0	--	Sample												Req Mon MO AVG	Req Mon MX WK AV	19 - mg/L	WH/DS - When Discharging	CP - COMPOS
					Permit Req.												C - No Discharge	C - No Discharge			
					Value NODI																
00610	Nitrogen, ammonia total [as N]	F - Primary/Preliminary Process Complete	0	--	Sample												Req Mon MO AVG	Req Mon MX WK AV	19 - mg/L	WH/DS - When Discharging	CP - COMPOS
					Permit Req.												C - No Discharge	C - No Discharge			
					Value NODI																
50050	Flow, in conduit or thru treatment plant	F - Primary/Preliminary Process Complete	0	--	Sample						Req Mon MO AVG						Req Mon MX WK AV	03 - MGD			
					Permit Req.												C - No Discharge	C - No Discharge			
					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
 SECONDARY BYPASS NOT UTILIZED IN NOV 2023

Attachments
 No attachments.

Report Last Saved By
Morris Forman WQTC MSD

User: AJOP1117
 Name: Amber Pauly
 E-Mail: amber.pauly@louisvillemsd.org
 Date/Time: 2023-12-18 08:30 (Time Zone: -05:00)

Report Last Signed By
 User: SKINNER@LOUISVILLEMSD.ORG

Name: James skinner
E-Mail: james.skinner@louisvillemsd.org
Date/Time: 2023-12-19 05:42 (Time Zone: -05:00)

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					
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
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
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
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

Comments**Attachments**

Name	Type	Size
MorrisFormanDischargeNov.pdf	pdf	11359.0
MFWQTCNov2023Coverletter.pdf	pdf	46182.0
MFWQTCMOR11023.pdf	pdf	125291.0

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

User: SKINNER@LOUISVILLEMSD.ORG
 Name: James skinner
 E-Mail: james.skinner@louisvillemsd.org
 Date/Time: 2023-12-18 09:18 (Time Zone: -05:00)

Report Last Signed By

User: SKINNER@LOUISVILLEMSD.ORG
 Name: James skinner
 E-Mail: james.skinner@louisvillemsd.org
 Date/Time: 2023-12-19 05:41 (Time Zone: -05:00)

Format: Month/Day/Year

Enter Start Date : 11/1/23

MORRIS FORMAN WATER QUALITY TREATMENT CENTER JEFFERSON COUNTY, KENTUCKY MONTH OF November-23
 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		CHLORINATION			FINAL EFFLUENT	
	Final	Sec.	Bypass	0.00	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	
	Effluent	Effluent																															
11/1/23	88.07	88.07	0.00	63	63	6.8	6.2	6.2	0.1	0.1	126	58	2.9	558	272	66	30.5	21.3	18.4	2.5	5.9	5.0	292	49	0.50	0.23	2.61	0.016	60000	2.9	0.0		
11/2/23	70.14	70.14	0.00	65	65	6.6	6.3	0.5	0.2	168	180	3.5	459	383	201	30.4	19.0	16.3	0.3	6.5	5.5	309	47	0.49	0.22	3.50	0.016	60000	7.1	0.0			
11/3/23	68.55	68.55	0.00	70	70	6.7	6.2	0.1	0.1	166	152	3.8	599	554	207	30.7	19.6	0.0	0.5	6.5	0.0	311	47	0.44	0.06	3.42	0.016	60000	11.8	0.0			
11/4/23	65.50	65.50	0.00	64	64	6.8	6.3	1.5	2.8	156	284	6.2	663	601	506	31.6	18.4	18.2	0.5	5.5	5.2	359	66	0.00	0.00	3.52	0.016	60000	12.4	0.0			
11/5/23	58.28	58.28	0.00	68	68	6.7	6.3	2.5	4.0	188	368	6.3	425	351	232	32.2	20.9	18.2	0.4	8.2	7.1	398	48	0.00	0.00	2.83	0.016	60000	7.5	0.0			
11/8/23	58.81	58.81	0.00	69	69	6.8	6.2	10.0	0.3	288	184	4.1	340	541	111	31.2	19.3	17.0	1.2	8.5	7.5	411	48	0.84	0.11	3.29	0.016	60000	10.0	0.0			
11/7/23	57.52	57.52	0.00	73	73	6.6	6.4	12.0	0.2	408	190	4.3	750	479	213	31.5	19.1	16.8	0.5	6.9	6.0	398	57	0.66	0.18	3.59	0.016	60000	16.4	0.0			
11/8/23	58.19	58.19	0.00	72	72	6.6	6.4	0.1	0.4	164	300	5.5	574	446	259	31.0	19.1	16.7	0.5	6.4	5.6	347	55	0.56	0.18	3.50	0.016	60000	18.8	0.0			
11/9/23	61.06	61.06	0.00	72	72	6.6	6.2	4.0	0.6	236	344	3.7	544	410	237	31.0	17.3	16.7	0.5	6.5	5.3	358	55	0.79	0.21	3.80	0.016	60000	16.9	0.0			
11/10/23	62.48	62.48	0.00	69	69	6.6	6.2	12.0	0.2	436	176	3.7	600	445	289	30.7	19.7	17.4	0.5	5.9	5.2	317	53	0.97	0.22	3.73	0.016	60000	20.4	0.0			
11/12/23	58.04	58.04	0.00	68	68	6.6	6.4	12.0	0.3	412	192	3.4	820	541	282	31.4	18.4	16.3	0.9	6.6	5.8	371	56	0.00	0.27	3.50	0.016	60000	17.3	0.0			
11/12/23	54.51	54.51	0.00	65	65	6.7	6.2	1.0	1.0	188	204	2.1	376	433	200	31.5	20.3	18.0	0.7	7.7	6.7	422	55	0.00	0.00	3.05	0.016	60000	13.3	0.0			
11/13/23	57.49	57.49	0.00	67	67	6.5	6.3	1.0	0.5	184	274	3.8	489	406	267	30.9	18.1	16.3	0.5	6.9	6.2	406	58	0.90	0.17	3.57	0.016	60000	14.1	0.0			
11/14/23	59.82	59.82	0.00	67	67	6.8	6.3	1.0	0.1	188	156	3.6	389	481	150	28.4	17.4	15.5	0.7	6.3	5.7	397	60	1.07	0.16	3.74	0.016	60000	19.1	0.0			
11/15/23	58.13	58.13	0.00	70	70	6.8	6.3	1.7	0.1	216	208	4.4	414	463	167	25.0	15.9	14.1	1.8	7.4	6.5	450	61	0.81	0.21	3.53	0.016	60000	23.9	0.0			
11/16/23	59.26	59.26	0.00	71	71	6.6	6.3	2.0	0.1	264	220	4.2	560	469	276	25.4	17.4	15.5	0.5	7.6	6.6	367	49	0.62	0.25	3.63	0.016	60000	23.5	0.0			
11/17/23	65.86	65.86	0.00	69	69	6.4	6.2	12.0	1.5	520	364	4.1	600	721	110	25.3	18.7	16.7	0.4	5.4	4.8	323	61	0.71	0.30	4.10	0.016	60000	21.6	0.0			
11/18/23	54.85	54.85	0.00	71	71	6.6	6	12.0	0.9	510	257	4.1	620	441	306	30.3	21.1	19.1	0.4	7.7	6.8	400	54	0.00	0.25	3.43	0.016	60000	17.5	0.0			
11/19/23	52.63	52.63	0.00	67	67	6.6	6	5.1	0.2	456	240	4.1	610	549	133	33.5	14.5	13.4	0.9	5.3	4.5	431	81	0.00	0.00	3.29	0.016	60000	11.5	0.0			
11/20/23	60.64	60.64	0.00	68	68	6.7	6.1	15.0	0.5	440	356	4.0	489	405	223	31.5	18.7	16.8	0.4	6.8	6.0	394	57	0.61	0.06	3.54	0.016	60000	13.8	0.0			
11/21/23	114.83	114.83	0.00	64	64	6.9	6.4	18.5	7.5	340	633	3.4	266	296	512	29.3	21.4	19.1	4.0	5.5	4.9	244	45	0.75	0.34	5.99	0.016	60000	15.0	0.0			
11/22/23	97.50	97.50	0.00	63	63	6.8	6.3	8.0	0.2	360	124	4.7	433	299	116	30.3	20.3	17.9	4.4	4.8	4.2	266	54	0.81	0.21	5.30	0.016	4200	6.7	0.0			
11/23/23	70.88	70.88	0.00	63	63	7.0	6.4	8.0	0.2	178	103	4.1	231	156	120	30.3	21.2	18.8	3.3	5.9	5.2	304	51	0.00	0.00	3.46	0.016	60000	4.9	0.0			
11/24/23	64.30	64.30	0.00	64	64	7.3	6.3	11.0	0.1	205	98	3.6	212	154	85	30.2	20.2	17.6	4.5	6.0	5.3	404	66	0.00	0.00	2.82	0.016	140	5.2	0.0			
11/25/23	60.28	60.28	0.00	63	63	7.1	6.4	10.0	0.3	265	149	4.3	425	300	125	30.1	18.5	16.5	0.9	6.0	5.3	411	66	0.00	0.00	3.21	0.016	640	7.5	0.0			
11/26/23	65.48	65.48	0.00	63	63	7.1	6.3	8.0	0.1	222	81	5.5	226	176	13	30.2	20.4	18.1	1.4	6.0	5.3	407	66	0.00	0.00	3.49	0.016	17	6.5	0.0			
11/27/23	65.24	65.24	0.00	63	63	7.0	6.5	8.5	0.3	340	142	4.6	463	273	127	29.8	18.8	16.9	1.8	5.9	5.3	417	69	0.55	0.11	3.21	0.016	88	6.5	0.0			
11/28/23	50.64	50.64	0.00	62	62	6.8	6.4	10.5	1.3	440	276	6.3	573	705	259	29.4	19.6	17.4	0.5	8.3	7.3	449	54	0.97	0.16	2.82	0.016	60000	17.9	0.0			
11/29/23	53.96	53.96	0.00	62	62	6.6	6.4	2.0	1.0	236	300	6.0	576	494	292	29.6	18.9	16.1	0.5	8.2	6.9	469	55	1.04	0.13	2.61	0.016	60000	22.5	0.0			
11/30/23	63.02	63.02	0.00	63	63	6.6	6.2	4.0	0.2	332	264	3.3	721	469	286	29.7	19.9	17.1	0.4	7.4	6.2	397	52	1.08	0.26	3.05	0.016	60000	16.0	0.0			
SUM	1927.74	1927.74	0.0														902.7								15.18	4.28					0.0		
Average	64.26	64.26	0.0	67	67	6.7	6.3	6.5	0.8	288	226	4.3	500	424	212	30.1	19.1	16.4	1.2	6.6	5.6	374	57	0.51	0.14	3.50	0.016	23631	13.6				

SEWER CONNECTIONS 148566 TIMES 4 = 148537
 594284 SEWER POPULATION
 IND. WASTER POPULATION EQ
 CUSTOMERS 405
 FLOW 405 20385
 BOD 965184
 TSS 139285

Authorized Agent

Certification No. 29841

MORRIS FORMAN WASTEWATER JEFFERSON COUNTY, KY
 Month of Nov-23

Average Flow	Primary	Battery A	Battery B	Battery C
	Secondary			

Average Fl	64.54	18.35	13.06	5.87
Tanks in Se	2.00	8.0	4.0	
Surface Are	38500.00	69200.00	69094.47	34569.16
Volume (M	4.17	7.09	7.08	3.54
Weir Leng	1430.00	2868.00	2863.63	1432.72
Avg. Weir (45130.07	6396.63	4561.25	4095.87
Avg. Settlr	1676.26	426.17	386.32	323.91
Avg. Deten	1.55	9.27	13.00	14.48

Volume (Gallons)	4200000	4200000	2100000
Avg. Flow (MGD)	29.49	26.69	11.20
Avg. Detention Time (h)	5.49	7.72	8.59

CHLORINE CONTACT CHAMBERS

Contact Ch 2.0
 Volume (G: 2340000
 Avg. Deten 1.53

Remarks: BY-PASS REPORTS (See Attached)



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

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Station	Receiving Stream	Discharge To
Sewer Node	72620-DO	125 RIVER RD	MORRIS FORMAN	OHIO RIVER	STREAM

Activity Code / Description	WO #	Ref #	Initiated on	Initiated By	Assigned To	Dish Status	Event Date	Problem Desc	Result	Completed	Condition
DISDW: DRY WEATHER DISCHARGE	3719138		11/9/2023 1:00:00 PM	FRENCH	POWELL	QUEUED FOR INVESTIGATION / REPAIR	11/9/2023 12:00:00 AM	STRUCTURAL FAILURE	UNAUTHORIZED DISCHARGE- WATERS	Ongoing	

Discharge Reporting:

Discharge Amount:	0 GAL
Cause:	DIRECTLY CONNECTED COMBINATION STORM AND SANITARY LINE AT 546 S FIRST STREET.
Clean Up:	NONE POSSIBLE DUE TO THE LOCATION OF THE OUTFALL.
Control Zone:	NONE.
Impact:	COMBINED STORM AND SANITARY FLOWS DISCHARGING TO OHIO RIVER.
Repair:	MSD EMERGENCY PROJECT TO CORRECT CONNECTIONS.
Public Notification:	PUBLIC WAS NOTIFIED THROUGH OVERFLOW ADVISORY ON MSD WEBSITE.

Notifications:

11/10/23 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO: DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
11/10/23 1:00 AM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION